

NDPBA

VIỆT NAM PROVINCE RISK PROFILES SUBNATIONAL ASSESSMENT RESULTS





VIỆT NAM

AN GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM AN GIANG

CAPITAL: LONG XUYÊN

Area: 3,675 km²

An Giang is located in the upper reaches of the Mekong Delta sharing a 100km border with Cambodia to the northwest. With the exception of the west, the fairly flat terrain with many irrigated canals has led the province to being one of the largest rice producing centers in the Delta. An Giang has a largest population in the Delta - home of Kinh people and other ethnic groups such as Khmer and Chams and has large proportion of Muslim population in the country.

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RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.518 • Rank: 19/63



RESILIENCE (R) - moderate Score: 0.517 • Rank: 35/63



MULTI-HAZARD EXPOSURE - high Score: 0.587 • Rank: 25/63



VULNERABILITY (V) - high Score: 0.457 • Rank: 20/63



COPING CAPACITY (CC) - high Score: 0.491 • Rank: 25/63



Population (2017) 2,385,356



Population in Poverty 3.9%



Illiterate population 9.5%



Access to improved water 82.6%



Average life expectancy 73.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 25 / 63 PROVINCES

SCORE: 0.587



MHE 0.587 Raw MHE 0.726 Relative MHE 0.541

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 2373337



81.8% \$1.87



Wildfire

3.8%

2 89660



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

0.0%

2 0



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 20 / 63 PROVINCES

SCORE: 0.457

Vulnerability in An Giang is primarily driven by Gender Inequality and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 31/63

-1.7%

26.85

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 32/63

73.4

(years)

Life Expectancy

14.4 Infant Mortality 6.2% Acute

122.3

0.79

243.1

Rate (per 1,000

live births)

Tuberculosis Malnutrition Incidence (Children <5) (per 100,000 persons)

Malaria Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 34/63

82.6%

Households with Safe Water

Access

77.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 12/63

9.5% Adult Illiteracy

Rate

80.5% School Attendance

Rate

87.0% Households without Internet

7.0% Housholds without TV



Economic Constraints

3.9%

Rank: 47/63

43.8 Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 8/63

0.25 0.29

Income F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 50/63

0.2% Average Annual Population Change

2.1% Average Annual Urban Population Change

9.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 25 / 63 PROVINCES

high (good).

SCORE: 0.491

An Giang exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 30/63

6.88 3,476
Time Cost* Income pe

5.99

Support Services* 8.67

Income per Capita (in 1,000 Purchasing Power

Transparency*

34.42

Entry Costs*



Governance

Law and Order*

Rank: 16/63 6.15 5.2 6.92



Environmental Capacity

Informal

Charges*

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 33/63



Health Care Capacity Rank: 47/63

 97.2%
 24.61
 4.63
 11.6
 13.03

 Immunization Coverage
 Healthbeds per 10,000 People 10,



Transportation Capacity Rank: 14/63

3,342 13.75

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 37/63

82.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 35 / 63 PROVINCES

SCORE: 0.517

An Giang's score and ranking are due to high Vulnerability combined with high Coping Capacity scores.

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







Information Access Vulnerability



Health Care Capacity



Economic Capacity

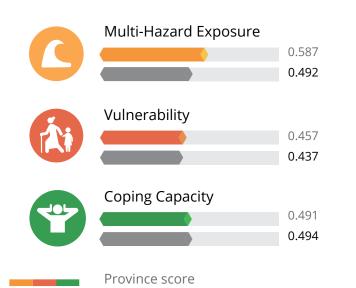


MULTI-HAZARD RISK

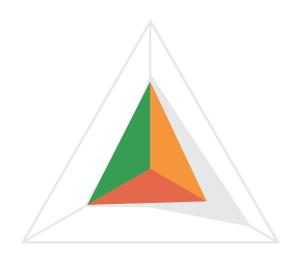
19 / 63 Rank within provinces Score: 0.518

An Giang's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

BA RIA-VUNG TAU

NDPBA PROVINCE PROFILE



VIỆT NAM BA RIA-VUNG TAU

CAPITAL: BÀ RỊA

Area: 2,004 km²

Ba Ria - Vung Tau province is located on the coast of Viet Nam's southeast region, including Con Dao islands. The provincial economic activities are mostly industrial including petroleum, electricity, petrochemicals, steel and cement production and followed by tourism, commerce and fishing. Vung Tau is one of the country's tourist destinations for its popular beaches and numerous newly-built resorts.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.342 • Rank: 62/63



RESILIENCE (R) - very high Score: 0.602 • Rank: 10/63



MULTI-HAZARD EXPOSURE - very low Score: 0.229 • Rank: 60/63



VULNERABILITY (V) - very low Score: 0.346 • Rank: 57/63



COPING CAPACITY (CC) - high Score: 0.551 • Rank: 14/63



Population (2017) 1,107,517



Population in Poverty 0.7%



Illiterate population 3.2%



Access to improved water 99.0%



Average life expectancy 76.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 60 / 63 PROVINCES

SCORE: 0.229



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1105406



Flood
0.0%



Wildfire

12.5% ▲ 138036



Earthquake 0.0%

2 0



Landslide 0.0%

0



Extreme Temperature

0.0%

2 0



Surge

0.0%

10



VULNERABILITY (V)

RANK: 57 / 63 PROVINCES

SCORE: 0.346

Vulnerability in Ba Ria-Vung Tau is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 21/63

-1.4%

53.6

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

8.1

Rank: 54/63

71.2

persons)

76.1

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births) 5.6% Acute

Acute Tuberculosis
Malnutrition Incidence
(Children <5) (per 100,000

22.37

Malaria Prevalance (per 100,000 persons) 449.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 58/63

Access

99.0% Households with Safe Water 96.7% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 58/63

3.2% Adult Illiteracy

Rate

93.9% School Attendance

Rate

73.0% Households without Internet 4.0% Housholds without TV



Economic Constraints



Rank: 59/63

41.2 Economic Dependency

Poverty



Gender Inequality

Rank: 2/63

0.3

0.36

Income F M School Inequality* Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 40/63

1.5% Average Annual Population Change 2.6%
Average
Annual Urban
Population
Change

0.7% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 14 / 63 PROVINCES

high (good).

SCORE: 0.551

Ba Ria-Vung Tau exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 4/63

6.42 5,478
Time Cost* Income pe

44.04 7.08

8.19

Income per Capita (in 1,000 VND) Purchasing Business
Power Support
Services*

Entry Costs*



Governance

Rank: 35/63 5.55 5.04 6.36

Law and Order* Informal Charges*

5.04 6.36
Informal Transparency*



Environmental Capacity

Rank: 25/63

10.3%

Protected Area



Infrastructure Capacity

Rank: 46/63



Health Care Capacity Rank: 63/63

92.6% Immunization 18.07 Healthbeds per 10,000 People 4.18
Physicians per 10,000 People

10.31 Nurses per

10,000 People

18.59 Distance to Hospital (km)

Coverage

Transportation Capacity Rank: 5/63

6,224

22.35

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 4/63

92.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 10 / 63 PROVINCES

SCORE: 0.602

Ba Ria-Vung Tau's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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







Environmental Stress



Health Care Capacity



Governance

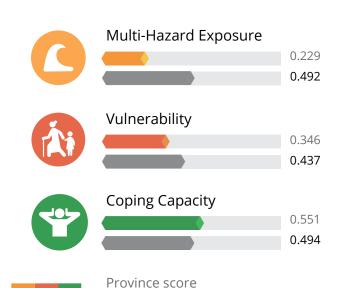


MULTI-HAZARD RISK

62 / 63
Rank within provinces
Score: 0.342

Ba Ria-Vung Tau's score and ranking are due to very low Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

BAC GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM BAC GIANG

CAPITAL: BẮC GIANG

Area: 4,508 km²

Bac Giang province is located in the northeast region of Viet Nam as the transition zone between the mountainous region in the North and the Red River Delta in the South. The province's land area is primarily dedicated to agriculture and forestry and Bac Giang is known as a large producer of pineapples and lychees. Being the home to 20 ethnic groups, this province also preserves the special cultural and historical traditions.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.452 • Rank: 43/63



RESILIENCE (R) - moderate Score: 0.534 • Rank: 30/63



MULTI-HAZARD EXPOSURE - low Score: 0.424 • Rank: 45/63



VULNERABILITY (V) - moderate Score: 0.409 • Rank: 36/63



COPING CAPACITY (CC) - moderate Score: 0.478 • Rank: 34/63



Population (2017) 1,667,141



Population in Poverty 7.9%



Illiterate population 2.3%



Access to improved water 94.9%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 45 / 63 PROVINCES

SCORE: 0.424



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 12.7%

1 **Z . /** / (



Flood

37.1%



Wildfire

0.8%

13474



Earthquake

0.0%





Landslide 0.0%

2 0



Extreme Temperature

100.0%

1 1667141



Surge

0.0%

3



VULNERABILITY (V)

RANK: 36 / 63 PROVINCES

SCORE: 0.409

Vulnerability in Bac Giang is primarily driven by Clean Water Access Vulnerability and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 11/63

3.5%

112.39

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 27/63

73.1

(years)

Life Expectancy

15.3 Infant Mortality Rate (per 1,000 live births) 7.8% Acute Malnutrition

(Children <5)

43.8
Tuberculosis

Incidence

persons)

(per 100,000

5.85 Malaria

Malaria Prevalance (per 100,000 persons) 137.5

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 26/63

94.9%

Households with Safe Water Access 46.7% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 56/63

Rank: 34/63

2.3% Adult Illiteracy

Rate

98.2% School 87.0% Households 3.0%

Attendance Rate Households without Internet

Housholds without TV



Economic Constraints

7.9%

Economic Dependency

44.3

Poverty



Gender Inequality

Rank: 47/63

0.02

0.36

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 41/63 0.7% 3.5% 1.1%

Average Annual Population Change

Average Annual Urban Population Change Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 34 / 63 PROVINCES

high (good).

SCORE: 0.478

Bac Giang exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 52/63

5.7 Time Cost* 4,486 12.02 Purchasing 6.06

7.82

Income per Capita (in 1,000 Power VND)

Business Support Services*

Entry Costs*



Governance

Rank: 27/63 6.73 6.1 5.51

Law and Order*

Informal Charges* Transparency*



Environmental Capacity

Rank: 41/63

4.8%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 18/63

7.69

99.6% Immunization 27.4 Healthbeds per 11.45

12.98

Coverage

10,000 People

Physicians per Nurses per 10,000 People 10,000 People Distance to Hospital (km)



Transportation Capacity Rank: 43/63

1,846

42.62

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 17/63

87.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 30 / 63 PROVINCES

SCORE: 0.534

Bac Giang's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores.

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







Environmental Stress



Economic Capacity







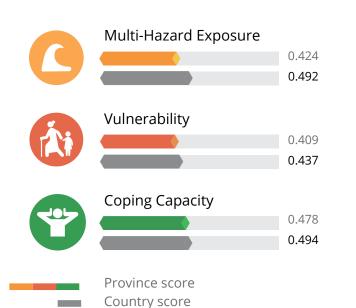
MULTI-HAZARD RISK

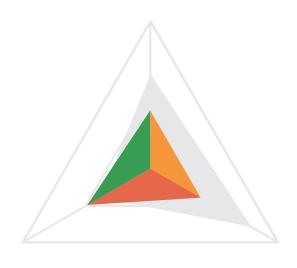
43 Rank

43 / 63
Rank within provinces
Score: 0.452

Bac Giang's score and ranking are due to low Multi-hazard exposure combined with moderate Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

BAC KAN

NDPBA PROVINCE PROFILE



VIỆT NAM BAC KAN

CAPITAL: BẮC KẠN

Area: 5,699 km²

Located in northeastern Viet Nam, Bac Kan is a mountainous province with about 95% forest cover and rich mineral resources. One of the least populated provinces in Viet Nam, the province is the home of Kinh, Tay, Nung, and Dao people. Bac Kan's economy centers on mining, forest products, agriculture, and some degree of tourism offered by its mountains, lakes and the Ba Be national park.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.396 • Rank: 55/63



RESILIENCE (R) - low Score: 0.48 • Rank: 51/63



MULTI-HAZARD EXPOSURE - very low Score: 0.149 • Rank: 62/63



VULNERABILITY (V) - high Score: 0.468 • Rank: 16/63



COPING CAPACITY (CC) - very low Score: 0.429 • Rank: 52/63



Population (2017) **320,597**



Population in Poverty 17.1%



Illiterate population 6.1%



Access to improved water 45.8%



Average life expectancy 72.10 years

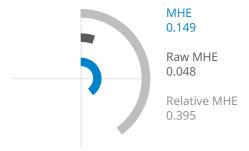
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 62 / 63 PROVINCES

SCORE: 0.149



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

2 0



Flood

9.4%



Wildfire

0.3%

2 839



Earthquake

0.0%

2 0



Landslide

38.0%

121897



Extreme Temperature

100.0%

320597



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 16 / 63 PROVINCES

SCORE: 0.468

Vulnerability in Bac Kan is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 59/63

5.0%

20.6

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 18/63

72.1 (years)

Life Expectancy

17.6 Infant Mortality Rate (per 1,000

live births)

7.0% Acute Malnutrition

(Children <5)

20.5 Tuberculosis Incidence

(per 100,000

persons)

7.81 Malaria

persons)

Prevalance (per 100,000 454.3

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 7/63

45.8%

Households with Safe Water

Access

40.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 33/63

6.1% Adult Illiteracy

Rate

99.9% School Attendance

Rate

88.0% Households

9.0% without Internet

Housholds without TV



Economic Constraints

Rank: 16/63

40.9

17.1%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 26/63

0.21

0.17

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 55/63

0.9% Average Annual Population

Change

3.3% Average Annual Urban Population

Change

0.3% Net Migration

Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 52 / 63 PROVINCES

high (good).

SCORE: 0.429

Bac Kan exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 61/63

4.83 4,929
Time Cost* Income p

12.9 Purchasing 6.32
Business

6.25

Income per Capita (in 1,000 VND)

Power Support Services*

Entry Costs*



Governance

Rank: 52/63 6.06 4.28 6.65

Law and Order* I

Informal Transparency* Charges*



Environmental Capacity

Rank: 32/63

7.2%

Protected Area



Infrastructure Capacity

Rank: 8/63



Health Care Capacity Rank: 2/63

97.2% Immunization 37.81 Healthbeds per 12.72

19.88 Nurses per 12.37

Coverage

10,000 People

Physicians per Nurses per 10,000 People 10,000 People

Distance to Hospital (km)



Transportation Capacity Rank: 47/63

1,356

38.74

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 33/63

83.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 51 / 63 PROVINCES

SCORE: 0.48

Bac Kan's score and ranking are due to high Vulnerability combined with very low Coping Capacity scores.

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







Gender Inequality



Economic Capacity



Governance



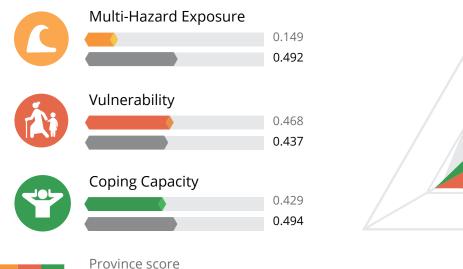
MULTI-HAZARD RISK

Country score

55 / 63
Rank within provinces
Score: 0.396

Bac Kan's score and ranking are due to very low Multi-hazard exposure combined with high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

BAC LIEU

NDPBA PROVINCE PROFILE



VIỆT NAM BAC LIEU

CAPITAL: BẠC LIỀU

Area: 2,544 km²

Bac Lieu is a coastal province located in the southern part of the Mekong Delta with mostly lowland terrain and many large irrigated canals. Prominent provincial economic activities include rice farming, fishing, food processing, and clothing manufacturing. Viet Nam's largest wind power farm is recently built off shore of the Bac Lieu province, which has also become an tourism attraction. Bac Lieu is home to many ethnic Khmer people, the province is well known for its traditional folk music of Vong Co.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.424 • Rank: 50/63



RESILIENCE (R) - high Score: 0.538 • Rank: 27/63



MULTI-HAZARD EXPOSURE - low Score: 0.349 • Rank: 48/63



VULNERABILITY (V) - low Score: 0.4 • Rank: 44/63



COPING CAPACITY (CC) - moderate Score: 0.476 • Rank: 35/63



Population (2017) 948,284



Population in Poverty 8.4%



Illiterate population 5.9%



Access to improved water 99.7%



Average life expectancy 74.30 years



MULTI-HAZARD EXPOSURE

RANK: 48 / 63 PROVINCES

SCORE: 0.349



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 55.6%



Wildfire

0.0%



0.0%



Landslide 0.0%



Extreme Temperature

0.0%



Surge



VULNERABILITY (V)

RANK: 44 / 63 PROVINCES

SCORE: 0.4

Vulnerability in Bac Lieu is primarily driven by Gender Inequality and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 52/63

3.0%

21.58

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 22/63

74.3

(years)

Life Expectancy

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

9.3% Acute Malnutrition

(Children <5)

73.7 Tuberculosis

Incidence

persons)

(per 100,000

2.74

Malaria Prevalance (per 100,000 persons)

273.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 43/63

99.7%

Households with Safe Water

Access

54.0% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 17/63

5.9% Adult Illiteracy

Rate

82.3% School

91.0% Households 3.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints



Rank: 52/63

38.2

8.4%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 21/63

0.25

0.16

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.

Population Pressures

Rank: 33/63

0.9%

Average Annual

Average Annual Urban Population Change

1.2%

6.3% Net Migration Rate

PDC Global

Population

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 35 / 63 PROVINCES

high (good).

SCORE: 0.476

Bac Lieu exhibits weaker Coping Capacity in the areas of Communications Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 17/63

6.7 4,002

5.77 Business 8.58

Income per Capita (in 1,000 Purchasing Business
Power Support
Services*

Entry Costs*



Governance

Rank: 17/63 5.68 6.38 6.47

Law and Order*

Informal Charges* Transparency*

41.85



Environmental Capacity

Rank: 52/63

1.0%

Protected Area



Infrastructure Capacity

Rank: 56/63



Health Care Capacity Rank: 50/63

95.1% Immunization Coverage 23.1 Healthbeds per 10,000 People 6.12 Physicians per 10,000 People 11.58 Nurses per 10,000 People 10.32 Distance to Hospital (km)



Transportation Capacity Rank: 38/63

1,805

33.91

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 58/63

72.2%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 27 / 63 PROVINCES

SCORE: 0.538

Bac Lieu'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:







Information Access Vulnerability



Communications Capacity



Health Care Capacity



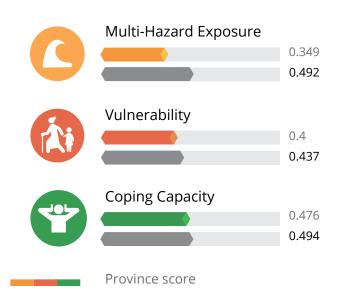
MULTI-HAZARD RISK

50 / Rank v

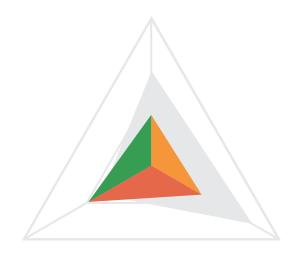
50 / 63 Rank within provinces Score: 0.424

Bac Lieu's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

BAC NINH

NDPBA PROVINCE PROFILE



VIỆT NAM **BAC NINH**

CAPITAI : BẮC NINH

Area: 949 km²

Neighboring Hanoi Capital to the east, Bac Ninh is one of the smallest but most industrialized provinces in Viet Nam. With rather even and flat terrain, the province attracted large amounts of manufacturing investors including Canon, Samsung, Foxconn, and Nokia. With over 15 industrial parks, agricultural land is rapidly decreasing. Bac Ninh is also well known by being the home of Quan Ho folk music and other cultural and historical values.



RISK AND VULNERABILITY **COMPONENT SCORE**



MULTI-HAZARD RISK - moderate

Score: 0.469 • Rank: 35/63



RESILIENCE (R) - moderate Score: 0.535 • Rank: 29/63



MULTI-HAZARD EXPOSURE - moderate

Score: 0.476 • Rank: 37/63



VULNERABILITY (V) - moderate Score: 0.428 • Rank: 32/63



COPING CAPACITY (CC) - high

Score: 0.498 • Rank: 22/63



Population (2017)

1,068,880



Population in Poverty

2.1%



Illiterate population

2.5%



Access to improved water

99.1%



Average life expectancy

74.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 37 / 63 PROVINCES

SCORE: 0.476



Raw MHE 0.496 Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 15.5%



Flood 75.4%

2 805836



Wildfire 0.0%



0.0%





Extreme Temperature 100.0% **1**068880





VULNERABILITY (V)

RANK: 32 / 63 PROVINCES

SCORE: 0.428

Vulnerability in Bac Ninh is primarily driven by Population Pressures and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 5/63

0.0%

151.99

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 37/63

74 (years)

Life Expectancy

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

8.4% Acute Malnutrition

(Children <5)

20.3 Tuberculosis

Incidence

persons)

(per 100,000

13.35

Malaria Prevalance 164.1

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 52/63

99.1%

Households with Safe Water

Access

81.1% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 57/63

2.5% Adult Illiteracy

98.6% School

77.0% Households 6.0% Housholds

Attendance Rate

without Internet

without TV



Economic Constraints

Rank: 40/63

49.4

Rate

2.1%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 46/63

0.12

0.19

Income Inequality*

Population

Change

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 2/63

1.7%

10.6% Average Annual

12.8%

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 22 / 63 PROVINCES

high (good).

SCORE: 0.498

Bac Ninh exhibits weaker Coping Capacity in the areas of Governance and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 14/63

6.65 5,156
Time Cost* Income per

29.73 6.86

7.27

Income per Capita (in 1,000 Purchasing Business
Power Support
Services*

Entry Costs*



Governance

Rank: 34/63 5.39 5.9 5.93

Law and Order* Informal Charges*

rmal Transparency*



Environmental Capacity

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 7/63



Health Care Capacity Rank: 15/63

99.8% Immunization Coverage 28.01 Healthbeds per 10,000 People 7.28
Physicians per 10,000 People

9.41 Nurses per

10,000 People

3.62 Distance to Hospital (km)



Transportation Capacity Rank: 27/63

2,284

16.96

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 9/63

89.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 29 / 63 PROVINCES

SCORE: 0.535

Bac Ninh's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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







Environmental Stress



Governance



Environmental Capacity



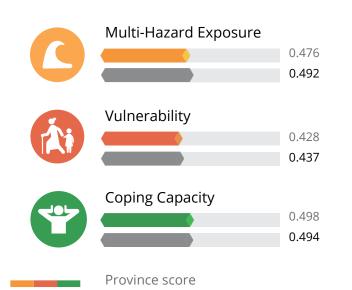
MULTI-HAZARD RISK

Ra

35 / 63 Rank within provinces Score: 0.469

Bac Ninh's score and ranking are due to moderate Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

BEN TRE

NDPBA PROVINCE PROFILE



VIỆT NAM BEN TRE

CAPITAL: BÉN TRE

Area: 2,360 km²

Ben Tre province is located in the eastern part of the Mekong Delta, between the two main branches of Tien Giang river. Possessing a complex network of rivers and canals, Ben Tre has a major advantage for agriculture productions and ecotourism, however is vulnerable to frequent salinization, flooding and sea level rise. The province is also known for being the homeland of coconut farms and products.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.39 • Rank: 57/63



RESILIENCE (R) - high Score: 0.547 • Rank: 24/63



MULTI-HAZARD EXPOSURE - very low Score: 0.265 • Rank: 56/63



VULNERABILITY (V) - moderate Score: 0.437 • Rank: 27/63



COPING CAPACITY (CC) - high Score: 0.53 • Rank: 19/63



Population (2017) 1,290,699



Population in Poverty 8.6%



Illiterate population 5.4%



Access to improved water 80.0%



Average life expectancy 75.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 56 / 63 PROVINCES

SCORE: 0.265



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 15.5%



Wildfire 0.0%



0.0%





Extreme Temperature 0.0%





VULNERABILITY (V)

RANK: 27 / 63 PROVINCES

SCORE: 0.437

Vulnerability in Ben Tre is primarily driven by Gender Inequality and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 15/63

1.4%

91.57

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 59/63

75.3

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

6.0%

Acute Malnutrition (Children <5) 63.9 Tuberculosis Incidence

persons)

Malaria Prevalance (per 100,000 (per 100,000 persons)

0.24

134.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

9.8

Rank: 19/63

80.0%

Households with Safe Water Access

Households with Hygienic Toilet Access

57.5%



Information Access Vulnerability

Rank: 30/63

Rank: 39/63

5.4% Adult Illiteracy

Rate

91.6% School Attendance 84.0% Households without Internet

6.0% Housholds without TV



Economic Constraints

Rate

42.9 8.6%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 9/63

0.13

0.49

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 63/63

0.1% Average Annual Population

Change

1.1% Average Annual Urban Population

Change

3.7% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 19 / 63 PROVINCES

high (good).

SCORE: 0.53

Ben Tre exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 40/63

7.61 3,640
Time Cost* Income per

VND)

Income per Purchasing Capita (in 1,000 Power

22.28

6.87
Business
Support

Services*

7.88

ness Entry Costs*



Governance

Rank: 6/63

6.78

Law and Order*

Informal Charges*

Rank: 6/63

Transparency*



Environmental Capacity

Rank: 48/63

1.5%

Protected Area



Infrastructure Capacity

Rank: 22/63



Health Care Capacity Rank: 35/63

95.5% 30.58 5.59 11.49 6.82

Immunization Healthbeds per Coverage 10,000 People 10,000



Transportation Capacity Rank: 24/63

2,563 13.62

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 11/63

88.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 24 / 63 PROVINCES

SCORE: 0.547

Ben Tre's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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



Gender Inequality



Clean Water Access Vulnerability



Economic Capacity



Health Care Capacity



MULTI-HAZARD RISK

57 / 63
Rank within provinces
Score: 0.39

Ben Tre's score and ranking are due to very low Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

BINH DINH

NDPBA PROVINCE PROFILE



VIỆT NAM BINH DINH

CAPITAL: QUI NHƠN

Area: 6,436 km²

Located in the south central coast of Viet Nam, Binh Dinh is characterized by mixed topography: mostly covered by mountains or hills in the west and lowlands near coastal areas. As one of the main gateways to the Central Highlands and its port, the province is the region's third largest industrial center (mainly based on furniture manufacturing) and also has strong agricultural, forestry, livestock, and fishing sectors. Rich in historical heritages, Binh Dinh is known by being the center of the old Cham Culture.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.517 • Rank: 20/63



RESILIENCE (R) - moderate Score: 0.536 • Rank: 28/63



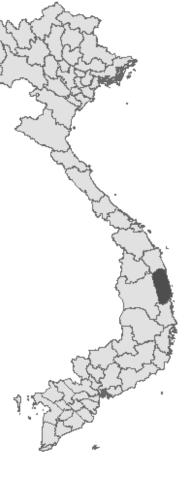
MULTI-HAZARD EXPOSURE - high Score: 0.624 • Rank: 19/63



VULNERABILITY (V) - moderate Score: 0.415 • Rank: 35/63



COPING CAPACITY (CC) - high Score: 0.487 • Rank: 26/63





Population (2017) 1,572,836



Population in Poverty 9.1%



Illiterate population 3.9%



Access to improved water 96.1%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 19 / 63 PROVINCES

SCORE: 0.624



MHE 0.624

Raw MHE 0.651

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1 1570997



Flood 14.8% \$\alpha\$ 232309



Wildfire **5.6% ♣** 88109



Earthquake 0.0%



Candslide 0.0%



Extreme Temperature 100.0% **1** 1572836



Surge 0.3%



VULNERABILITY (V)

RANK: 35 / 63 PROVINCES

SCORE: 0.415

Vulnerability in Binh Dinh is primarily driven by Gender Inequality and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 22/63

2.7%

61.27

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 46/63

73.1

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 5.0% Acute

39.2 Tuberculosis 26.08

Malaria

34.9

Malnutrition (Children <5)

Incidence (per 100,000 persons)

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

15.1

live births)

Rank: 40/63

96.1% Households 69.7%

with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 44/63

Rank: 19/63

Rank: 5/63

3.9% Adult Illiteracy

Rate

96.3% School

86.0% Households 5.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

49.2 9.1%

Economic Dependency Ratio

Poverty

Gender Inequality

0.26 0.3

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 59/63

0.3% Average Annual Population Change

Average Annual Urban Population

2.2%

Change

1.1% Net Migration Rate

PDC Global

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 26 / 63 PROVINCES

high (good).

SCORE: 0.487

Binh Dinh exhibits weaker Coping Capacity in the areas of Transportation Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 43/63

5.82

6.48 4,261 30.14 Time Cost*

Purchasing Income per Capita (in 1,000 Power VND)

Business Support Services*

7.75 Entry Costs*

Governance

Rank: 11/63

6.67 6.31 6.46 Law and Order* Informal Transparency* Charges*



Environmental Capacity

Rank: 40/63

4.9%

Protected Area



Infrastructure Capacity

Rank: 51/63



Health Care Capacity Rank: 31/63

99.6% 22.45 5.17 14.02 18.2 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 59/63

4,140 Road Density (km per sq. km)

160.2 Distance to Airport or Seaport (km)



Communications Capacity Rank: 34/63

83.7% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 28 / 63 PROVINCES

SCORE: 0.536

Binh Dinh's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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



Gender









Economic Capacity



MULTI-HAZARD RISK

Constraints

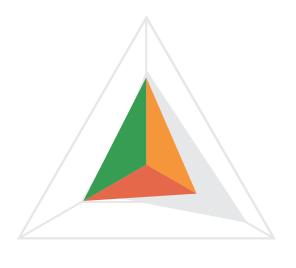
20 / 63 Rank within provinces Score: 0.517

Binh Dinh's score and ranking are due to high Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

BINH DUONG

NDPBA PROVINCE PROFILE



VIỆT NAM BINH DUONG

CAPITAL: THỦ DẦU MỘT

Area: 2,806 km²

Neighboring Ho Chi Minh City to the north, Binh Duong is now the largest hub of industrial manufacturing in southern Viet Nam with 28 industrial parks. The plain terrain comprised with bazan and alluvial deposits and with a network of rivers and canals makes the province a good for industrial crop plantation and its products. Binh Duong is also known as land of new opportunities, attracting an influx of young and capable people from other provinces.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.479 • Rank: 30/63



RESILIENCE (R) - very high Score: 0.6 • Rank: 12/63



MULTI-HAZARD EXPOSURE - high Score: 0.636 • Rank: 14/63



VULNERABILITY (V) - low Score: 0.387 • Rank: 48/63



COPING CAPACITY (CC) - very high Score: 0.587 • Rank: 8/63



Population (2017) **2,290,486**



Population in Poverty 0.0%



Illiterate population 2.7%



Access to improved water 99.8%



Average life expectancy 75.70 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 14 / 63 PROVINCES

SCORE: 0.636



MHE 0.636 Raw MHE

Relative MHE 0.51

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 10.0%

229511



Wildfire

29.7%

2 680308



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

64.1%

1467831



Surge



VULNERABILITY (V)

RANK: 48 / 63 PROVINCES

SCORE: 0.387

Vulnerability in Binh Duong is primarily driven by Population Pressures and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 23/63

1.8%

52.1

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

9

Rank: 49/63

75.7

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

7.6% Acute Malnutrition

(Children <5)

61.4 Tuberculosis Incidence (per 100,000

persons)

4.4

Malaria Prevalance (per 100,000 persons)

150.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 63/63

99.8%

Households with Safe Water Access

98.7% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 16/63

Rank: 63/63

Rank: 30/63

2.7%

Adult Illiteracy Rate

83.7% School Attendance 85.0% Households

12.0% Housholds

Rate

without Internet

without TV



Economic Constraints

30.3 0.0%

Economic Dependency

Poverty



Gender Inequality

0.07

0.38

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 1/63

7.4% Average Annual Population

Change

34.5% Average Annual Urban Population

Change

42.0% Net Migration

Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 8 / 63 PROVINCES

high (good).

SCORE: 0.587

Binh Duong exhibits weaker Coping Capacity in the areas of Health Care Capacity and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 6/63

7.45 5,364

6.69

7.66

Income per Capita (in 1,000 VND) Purchasing Business
Power Support
Services*

Entry Costs*

Governance

Rank: 13/63 6.39 5.38 6.52

Law and Order*

Informal Charges* Transparency*

54.64



Environmental Capacity

Rank: 49/63

1.5%

Protected Area



Infrastructure Capacity

Rank: 28/63



Health Care Capacity Rank: 60/63

98.3% Immunization Coverage 17.77 Healthbeds per 10,000 People 3.69
Physicians per 10,000 People

7.02 Nurses per 10,000 People 14.06 Distance to Hospital (km)



Transportation Capacity Rank: 4/63

6,560

19.94

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 2/63

93.0%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 12 / 63 PROVINCES

SCORE: 0.6

Binh Duong's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Information Access Vulnerability



Health Care Capacity



Environmental Capacity

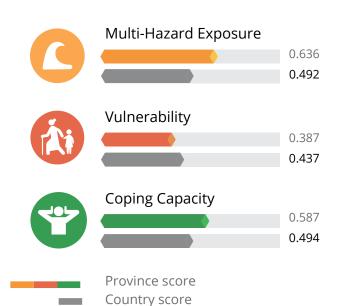


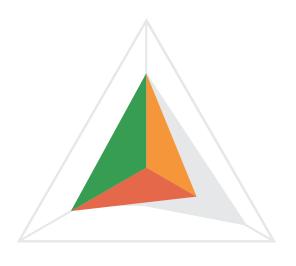
MULTI-HAZARD RISK

30 / 63
Rank within provinces
Score: 0.479

Binh Duong's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

BINH PHUOC

NDPBA PROVINCE PROFILE



VIỆT NAM BINH PHUOC

CAPITAL: ĐỒNG XOÀI

Area: 7,236 km²

Binh Phuoc is a province located in the southeast region of Viet Nam, to the north of Ho Chi Minh City and shares a border with Cambodia on the north and northwest. The terrain in Binh Phuoc is relatively flat with an elevation of between 50 and 200 meters and forests covering about 49% of total land. A predominantly rural province, Binh Phuoc's prominent products are cashew nuts and rubber and food processing.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.527 • Rank: 17/63



RESILIENCE (R) - moderate Score: 0.518 • Rank: 34/63



MULTI-HAZARD EXPOSURE - high Score: 0.616 • Rank: 20/63



VULNERABILITY (V) - low Score: 0.401 • Rank: 43/63



COPING CAPACITY (CC) - low Score: 0.437 • Rank: 46/63



Population (2017) 1,003,114



Population in Poverty 6.0%



Illiterate population 6.6%



Access to improved water 90.8%



Average life expectancy 73.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 20 / 63 PROVINCES

SCORE: 0.616



MHE 0.616 Raw MHE 0.477 Relative MHE 0.582

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1003008



Flood
2.6%
2.6504



Wildfire 52.5%



Earthquake 0.0%



0.0%



Extreme Temperature

88.3% 885565



0.0%



VULNERABILITY (V)

RANK: 43 / 63 PROVINCES

SCORE: 0.401

Vulnerability in Binh Phuoc is primarily driven by Population Pressures and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 61/63

2.9%

12.6

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 35/63

73.5

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

6.0% Acute

Malnutrition

(Children <5)

48.4 Tuberculosis Incidence

(per 100,000

persons)

170.49

Malaria Prevalance 186.7

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

14

Rank: 37/63

90.8% Households

73.7%

Households with with Safe Water Hygienic Toilet Access Access

Information Access Vulnerability

Rank: 20/63

6.6%

Adult Illiteracy

87.8% School

84.0%

6.0%

Attendance Rate

Households without Internet

Housholds without TV



Economic Constraints

Rate

Rank: 32/63

47

6.0%

Economic Dependency Ratio

Poverty



Gender Inequality

0.08

0.3 Income

F M School Enrollment Rate* Inequality*

Rank: 39/63

Rank: 13/63

*Values closer to 1 represent greater gender parity.



Population Pressures

1.8% 6.2%

0.5%

Average Annual Population

Average Annual Urban Change

Net Migration Rate

Population

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 46 / 63 PROVINCES

high (good).

SCORE: 0.437

Binh Phuoc exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 39/63

Services*

5.76 4,403
Time Cost* Income p

31.52

5.51 7.95

Income per Capita (in 1,000 VND) Purchasing Power Business Entry Costs*
Support

Governance

Rank: 60/63

Law and Order*

4.02

4.95
Informal
Charges*

6.36 Transparency*



Environmental Capacity

Rank: 8/63

29.7%

Protected Area



Infrastructure Capacity

Rank: 40/63



Health Care Capacity Rank: 56/63

93.7% Immunization

28.15

4.26

11.92

12.22

Coverage

Healthbeds per 10,000 People

Physicians per Nurses per 10,000 People 10,000 People

Distance to Hospital (km)



Transportation Capacity Rank: 26/63

4,330

53.52

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 8/63

90.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 34 / 63 PROVINCES

SCORE: 0.518

Binh Phuoc's score and ranking are due to low Vulnerability combined with low Coping Capacity scores.

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







Information Access Vulnerability



Governance



Health Care Capacity

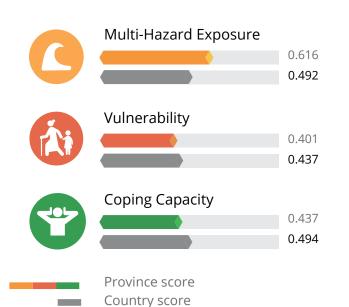


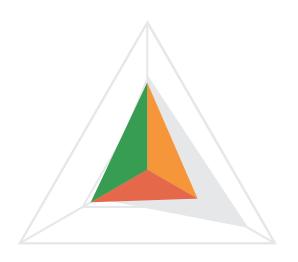
MULTI-HAZARD RISK

17 / 63
Rank within provinces
Score: 0.527

Binh Phuoc's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

BINH THUAN

NDPBA PROVINCE PROFILE



VIỆT NAM BINH THUAN

CAPITAL: PHAN THIẾT

Area: 8,296 km²

Located on the Viet Nam's South Central Coast, Binh Thuan has a long coastline of over 192km and is well known for its scenery and beaches. The province's economy is mostly based on tourism, salt production, fishing and agricultural cultivation and its products. Binh Thuan is also known for titanium reserves and significant potential for solar and wind power generation. The province is vulnerable to frequent drought and strong seasonal sea waves.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.463 • Rank: 39/63



RESILIENCE (R) - high Score: 0.539 • Rank: 26/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.466 • Rank: 38/63



VULNERABILITY (V) - low Score: 0.409 • Rank: 37/63



COPING CAPACITY (CC) - moderate Score: 0.487 • Rank: 27/63



Population (2017) 1,228,312



Population in Poverty 3.8%



Illiterate population 6.7%



Access to improved water 96.0%



Average life expectancy 74.10 years

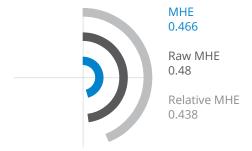
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 38 / 63 PROVINCES

SCORE: 0.466



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

#

Flood 12.7%



Wildfire 22.6%



0.0%

Earthquake



Landslide 0.0%



Extreme Temperature 45.5% \$ 558359



0.0% 0.0%



VULNERABILITY (V)

RANK: 37 / 63 PROVINCES

SCORE: 0.409

Vulnerability in Binh Thuan is primarily driven by Gender Inequality and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 49/63

2.7%

21.92

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 38/63

74.1

Life Expectancy

12.5 Infant Mortality 5.8%

121.6 Tuberculosis 46.3 Malaria

99.2

(years)

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Incidence (per 100,000 persons)

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 48/63

96.0%

82.5% Households Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 36/63

6.7% Adult Illiteracy

Rate

90.3% School

84.0%

4.0%

Attendance Rate

Households without Internet

Housholds without TV



Economic Constraints

Rank: 56/63

42.4

3.8%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 1/63

0.49

Income Inequality*

0.24

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.

Population Pressures

Rank: 49/63 1.9%

0.7% Average Annual Population Change

Average Annual Urban Population

Change

2.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 27 / 63 PROVINCES

high (good).

SCORE: 0.487

Binh Thuan exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 16/63

6.22 4,032 Time Cost* Income per 6.95

8.19

Income per Purchasing Capita (in 1,000 Power VND)

Support Services* Entry Costs*



Governance

Rank: 42/63 4.82 5.58 6.42

Law and Order*

Informal Charges* Transparency*

29.88



Environmental Capacity

Rank: 29/63

8.9%

Protected Area



Infrastructure Capacity

Rank: 34/63



Health Care Capacity Rank: 46/63

95.3% Immunization Coverage 30.07 Healthbeds per 10,000 People 5.13
Physicians per 10,000 People

12.65 Nurses per

10,000 People

14.36 Distance to Hospital (km)



Transportation Capacity Rank: 23/63

4,044

37.62 Distance

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 30/63

84.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 26 / 63 PROVINCES

SCORE: 0.539

Binh Thuan'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:







Vulnerable Health Status



Governance



Health Care Capacity

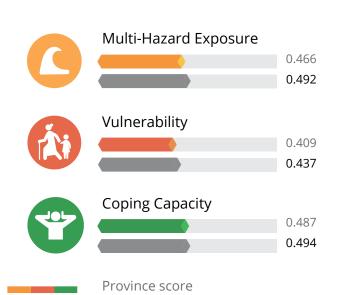


MULTI-HAZARD RISK

39 / 63
Rank within provinces
Score: 0.463

Binh Thuan's score and ranking are due to moderate Multi-hazard exposure combined with low Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM —— CA MAU

NDPBA PROVINCE PROFILE



VIỆT NAM CA MAU

CAPITAL: CÀ MAU

Area: 5,303 km²

Located in the Mekong Delta region, Ca Mau is the southernmost province of Viet Nam, bordering to the west by the Gulf of Thailand, and to the south and east by the East Sea. Surrounded by sea and accompanied by a complex rivers and canals network, the province is well-known for swampland and mangrove forests (e.g., U Minh biosphere reserve and Mai Cà Mau national park). Ca Mau's economy is based on fishing, aquaculture, agriculture and ecotourism, while industry is mostly seafood processing.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.363 • Rank: 60/63



RESILIENCE (R) - very high Score: 0.601 • Rank: 11/63



MULTI-HAZARD EXPOSURE - very low Score: 0.29 • Rank: 54/63



VULNERABILITY (V) - very low Score: 0.354 • Rank: 54/63



COPING CAPACITY (CC) - very high Score: 0.555 • Rank: 13/63



Population (2017) 1,272,333



Population in Poverty 4.7%



Illiterate population 4.4%



Access to improved water 99.3%



Average life expectancy 74.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 54 / 63 PROVINCES

SCORE: 0.29



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:

















VULNERABILITY (V)

RANK: 54 / 63 PROVINCES

SCORE: 0.354

Vulnerability in Ca Mau is primarily driven by Information Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 62/63

2.5%

6.7

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 34/63

74.6 (years)

Life Expectancy

11.3 Infant Mortality Rate (per 1,000

live births)

8.6% Acute Malnutrition

(Children <5)

74.5

Tuberculosis Incidence

(per 100,000

persons)

Malaria

5.67

202.4

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 45/63

99.3%

Households with Safe Water

Access

59.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 13/63

Rank: 50/63

Rank: 53/63

Rank: 47/63

4.4%

Rate

Adult Illiteracy

77.8% School

89.0% Households 6.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints



4.7%

Economic Dependency Ratio

Poverty



Gender Inequality

0.17

0.06

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

0.3%

1.8% Average Annual Urban Average Annual Population Population Change

7.2% Net Migration Rate

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 13 / 63 PROVINCES

high (good).

SCORE: 0.555

Ca Mau exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 21/63

7.01 4,125 Time Cost*

38.2 Purchasing 6.3

7.97

Income per Capita (in 1,000 Power VND)

Transparency*



Entry Costs*



Governance

Law and Order*

Rank: 30/63 5.81 5.45 6.42



Environmental Capacity

Informal

Charges*

Rank: 6/63

32.5%

Protected Area



Infrastructure Capacity

Rank: 14/63



Health Care Capacity Rank: 36/63

9.32 98.4% 26.24 4.9 10.15 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 15/63

4,366 Road Density 35.02

Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 5/63

91.5% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 11 / 63 PROVINCES

SCORE: 0.601

Ca Mau's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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







Vulnerable Health Status



Governance



Health Care Capacity

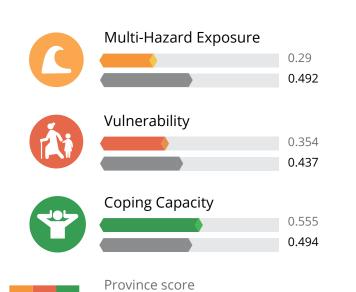


MULTI-HAZARD RISK

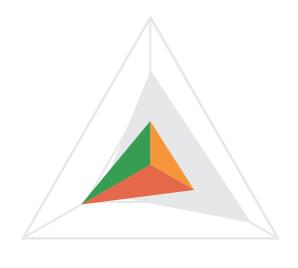
60 / 63
Rank within provinces
Score: 0.363

Ca Mau's score and ranking are due to very low Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

CAN THO

NDPBA PROVINCE PROFILE



VIỆT NAM **CAN THO**

CAPITAL: CAN

Area: 1,496 km²

The fourth largest city in Viet Nam, Can Tho city is the center of the Mekong Delta in terms of economics, culture, science, and technology. Located on the south bank of the Hau River, the city is noted for its floating market, rice paper-making village, and picturesque rural canals. As the main transportation hub for the Lower Mekong Delta region, Can Tho's economic development is growing fast mainly based on industry and service.

RISK AND VULNERABILITY **COMPONENT SCORE**



MULTI-HAZARD RISK - low Score: 0.438 • Rank: 46/63



RESILIENCE (R) - very high Score: 0.602 • Rank: 9/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.517 • Rank: 29/63



VULNERABILITY (V) - low Score: 0.375 • Rank: 50/63



COPING CAPACITY (CC) - very high

Score: 0.58 • Rank: 9/63



Population (2017) 1,285,754



Population in Poverty 3.1%



Illiterate population 5.8%



Access to improved water 86.5%



Average life expectancy 75.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 29 / 63 PROVINCES

SCORE: 0.517



MHE 0.517 Raw MHE 0.559 Relative MHE 0.6

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 95.0% **1**221008



Wildfire 0.0%



Earthquake 0.0%





Extreme Temperature 0.0%



Surge



VULNERABILITY (V)

RANK: 50 / 63 PROVINCES

SCORE: 0.375

Vulnerability in Can Tho is primarily driven by Population Pressures and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 48/63

2.6%

22.29

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 52/63

75.6

Life Expectancy (years)

9.3 Infant Mortality 5.9%

103.2 Tuberculosis 0.24 Malaria 410.7

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Incidence Prevalance (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 30/63

86.5% 69.0%

Households with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 29/63

5.8%

Adult Illiteracy

Rate

85.4% School Attendance

77.0% Households without Internet

7.0% Housholds without TV

Economic Constraints

Rate



Rank: 58/63

38.9

3.1%

Economic Dependency Poverty

0.23



Gender Inequality

0.12 Income Inequality*

F M School Enrollment Rate* *Values closer to 1 represent greater

gender parity.

Rank: 12/63

Rank: 38/63



Population Pressures

0.9% 4.5% Average Annual

Average Annual Urban Population Change

4.6%

Net Migration Rate

Population

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

52.08

Power

RANK: 9 / 63 PROVINCES

high (good).

SCORE: 0.58

Can Tho exhibits weaker Coping Capacity in the areas of Environmental Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 9/63

6.78 4,288 Time Cost* Income per

6.84 Business 7.86 Entry Costs*

Purchasing Support Services*



Governance

Rank: 14/63

6.32 6.51 6.17 Law and Order* Informal Transparency* Charges*

Capita (in 1,000

Environmental Capacity

Rank: 57/63

0.0% Protected Area



Infrastructure Capacity

Rank: 4/63



Health Care Capacity Rank: 19/63

99.1% 25.43 6.97 7.06 11.75 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 9/63

4,468 12.46

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 10/63

89.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 9 / 63 PROVINCES

SCORE: 0.602

Can Tho's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Clean Water Access Vulnerability



Environmental Capacity



Governance



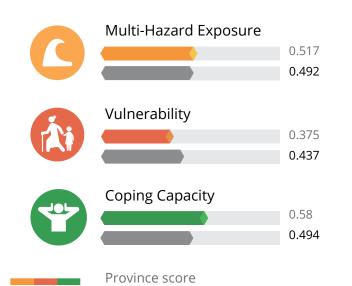
MULTI-HAZARD RISK

46 Rank

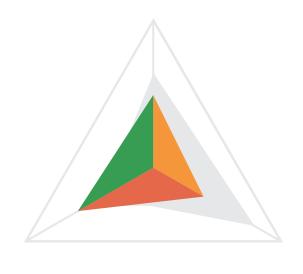
46 / 63
Rank within provinces
Score: 0.438

Can Tho's score and ranking are due to moderate Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

CAO BANG

NDPBA PROVINCE PROFILE



VIỆT NAM CAO BANG

CAPITAL: CAO BĂNG

Area: 7,949 km²

Cao Bang is located in the northern part of Viet Nam sharing a border with China to the north. The province is covered with mountains and hills and is home to many people from ethnic minority groups, namely Tay, Nung, Dao, and Hmong with distinctive cultural heritages. Cao Bang is one of the poorest region in northern Viet Nam with the economy centered mostly on agriculture and forestry.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.452 • Rank: 42/63



RESILIENCE (R) - very low Score: 0.406 • Rank: 60/63



MULTI-HAZARD EXPOSURE - very low Score: 0.168 • Rank: 61/63



VULNERABILITY (V) - very high Score: 0.579 • Rank: 5/63



COPING CAPACITY (CC) - very low Score: 0.391 • Rank: 60/63



Population (2017) **542,733**



Population in Poverty 24.4%



Illiterate population 14.5%



Access to improved water 35.8%



Average life expectancy 70.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 61 / 63 PROVINCES

SCORE: 0.168



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%



Flood
14.1%

4.76765



7.1%



Earthquake 0.0%



Landslide
6.4%

▲ 34710



Extreme Temperature
100.0%

■ 542733



0.0%



VULNERABILITY (V)

RANK: 5 / 63 PROVINCES

SCORE: 0.579

Vulnerability in Cao Bang is primarily driven by Clean Water Access Vulnerability and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 34/63

1.4% 36.38

Forest Change Livestock Density (per sq km)



70

Vulnerable Health Status

Rank: 9/63

6.9%

Rank. 570

Life Expectancy (years) Infant Mortality Rate (per 1,000 live births)

Acute Malnutrition (Children <5) Tuberculosis Incidence (per 100,000 persons)

24.6

212.42 Malaria Prevalance (per 100,000 persons) 407.7 HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

23.9

Rank: 3/63

35.8% 32.0% Households Households with Sefe Water Hugierie Teilet

with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 4/63

14.5% 77.0% 87.0% 22.0% Adult Illiteracy School Households Households

Rate Attendance without Internet without TV



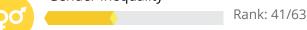
Economic Constraints

Rank: 7/63

47 24.4% Economic Poverty

Dependency Ratio

Gender Inequality



0.07 0.3
Income F M School Inequality* Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 56/63

0.4%
Average Annual
Population
Change

6.4%
Average
Annual Urban
Population
Change

0.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 60 / 63 PROVINCES

high (good).

SCORE: 0.391

Cao Bang exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 32/63

5.03 4,945

10.27 Purchasing 7.18

7.28

Time Cost*

Income per Purcha Capita (in 1,000 Power VND) Business Support Services* Entry Costs*



Governance

Rank: 61/63

5.61 Law and Order* 4.1 Informal Charges* 5.72 Transparency*



Environmental Capacity

Rank: 43/63

3.4%

Protected Area



Infrastructure Capacity



Rank: 32/63



Health Care Capacity Rank: 4/63

95.5% Immunization Coverage 42.52 Healthbeds per 10,000 People

13.46 Physicians per 10,000 People 22.78 Nurses per

10,000 People

21.32 Distance to Hospital (km)



Transportation Capacity Rank: 53/63

1,808

76.97

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 57/63

73.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 60 / 63 PROVINCES

SCORE: 0.406

Cao Bang's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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



Clean Water Access Vulnerability



Information Access Vulnerability



Governance



Transportation Capacity

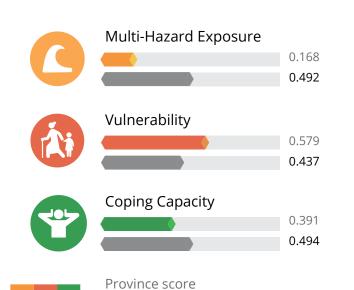


MULTI-HAZARD RISK

42 / 63
Rank within provinces
Score: 0.452

Cao Bang's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

DA NANG

NDPBA PROVINCE PROFILE



VIỆT NAM DA NANG

CAPITAL: HÅI CHÂU DISTRICT

Area: 1,065 km²

Located on the coast of the East Sea at the mouth of the Han River, Da Nang city is the commercial and educational center of central Viet Nam and the fifth largest city in the country. As one of the most important port cities in Viet Nam, Da Nang has the highest urbanization rate and rapid industrial development with six industrial parks. With rich scenery and cultural heritages and heavy investment, the tourism sector is a vital component of Da Nang's economy. The city consists of both coastal and mountainous terrain, and is susceptible to damage from typhoons and flooding during the wet season.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.333 • Rank: 63/63



RESILIENCE (R) - very high Score: 0.749 • Rank: 1/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.496 • Rank: 32/63



VULNERABILITY (V) - very low Score: 0.288 • Rank: 63/63



COPING CAPACITY (CC) - very high Score: 0.786 • Rank: 1/63



Population (2017) 1,008,358



Population in Poverty 0.8%



Illiterate population 2.5%



Access to improved water 99.3%



Average life expectancy 75.80 years

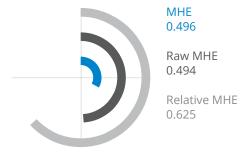
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 32 / 63 PROVINCES

SCORE: 0.496



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 0.0%



Wildfire

0.0%



Earthquake 0.0%



Landslide 0.0%

Extreme Temperature

100.0%

1008358



Surge



VULNERABILITY (V)

RANK: 63 / 63 PROVINCES

SCORE: 0.288

Vulnerability in Da Nang is primarily driven by Population Pressures and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 50/63

2.5%

20.79

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

8.8

Rank: 62/63

75.8

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

4.0% Acute Malnutrition

(Children <5)

80.7 Tuberculosis Incidence

(per 100,000

persons)

2.68

Malaria

Prevalance (per 100,000 persons)

73.7 HIV Prevalance (per 100,000

persons)

Clean Water Vulnerability

Rank: 61/63

99.3%

Households with Safe Water

98.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rate

Access

Rank: 60/63

2.5% Adult Illiteracy

98.2% School Attendance

Rate

56.0% Households without Internet

7.0% Housholds without TV



Economic Constraints



0.8%

Economic Dependency

Inequality*

Population

Change

Poverty



Gender Inequality

0.2 0.24

Income

F M School Enrollment Rate* Rank: 19/63

Rank: 57/63

*Values closer to 1 represent greater gender parity.

Rank: 7/63



Population Pressures

2.7% 3.3% Average Annual

Average Annual Urban Population Change

4.9% Net Migration

Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 1 / 63 PROVINCES

high (good).

SCORE: 0.786

Da Nang exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 2/63

7.76 Time Cost* 59.26 Purchasing 6.93

8.55

Income per Capita (in 1,000 VND)

5,522

00 Power

Support Services* Entry Costs*



Governance

Rank: 4/63
6.74
6.29
6.46
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 4/63

44.3%

Protected Area



Infrastructure Capacity

Rank: 1/63



Health Care Capacity Rank: 1/63

99.2% Immunization Coverage 46.76 Healthbeds per

10,000 People

9.25 Physicians per 10,000 People 17.75 Nurses per

10,000 People

12.61 Distance to Hospital (km)



Transportation Capacity Rank: 17/63

3,435

22.95

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 1/63

93.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 1 / 63 PROVINCES

SCORE: 0.749

Da Nang's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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









Population Pressures

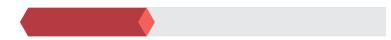
Gender Inequality

Transportation Capacity

Governance



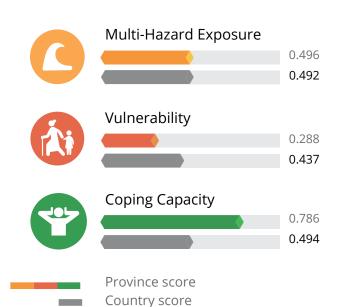
MULTI-HAZARD RISK

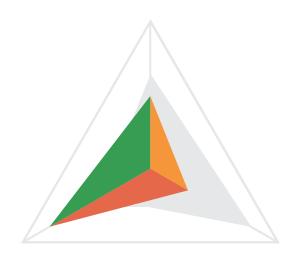


63 / 63
Rank within provinces
Score: 0.333

Da Nang's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

DAK LAK

NDPBA PROVINCE PROFILE



VIỆT NAM DAK LAK

CAPITAL: BUÔN MA THUỘT

Area: 13,898 km²

Located in the center of Viet Nam's Central Highland, Dak Lak is on a plateau of around 400-800m and shares a border with Cambodia to the west. The region is known for the diverse yet deeply-rooted traditions and cultures - home to a high number of indigenous people namely E \Box e, Ja rai, M'nong. Prominent outputs of the province are coffee, fruit, rubber, tea and pepper while tourism and hydropower also play a role in Dak Lak's economy.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.513 • Rank: 21/63



RESILIENCE (R) - very low Score: 0.479 • Rank: 52/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.499 • Rank: 31/63



VULNERABILITY (V) - very high Score: 0.501 • Rank: 12/63



COPING CAPACITY (CC) - low Score: 0.46 • Rank: 40/63



Population (2017) 1,941,816



Population in Poverty 10.0%



Illiterate population 7.1%



Access to improved water 79.4%



Average life expectancy 70.10 years

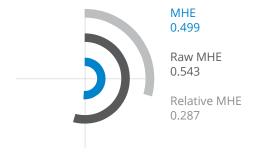
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 31 / 63 PROVINCES

SCORE: 0.499



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1941806



6.2% \$ 120498



Wildfire

44.5% 864155



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

16.1% **3** 313341





VULNERABILITY (V)

RANK: 12 / 63 PROVINCES

SCORE: 0.501

Vulnerability in Dak Lak is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 28/63

-3.2%

24.57

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

24

live births)

Rank: 13/63

70.1

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 7.2% Acute Malnutrition (Children <5) 30.6 Tuberculosis Incidence

(per 100,000

persons)

125.18 Malaria Prevalance (per 100,000

persons)

93.1 HIV Prevalance (per 100,000 persons)

Clean Wa

Clean Water Vulnerability

Rank: 14/63

79.4%

Households with Safe Water Access 48.0% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 26/63

7.1% Adult Illiteracy

Rate

89.2% School Attendance

Rate

82.0% Households without Internet 6.0% Housholds without TV



Economic Constraints

46.5 10.0%

Rank: 22/63

46.5 Economic Dependency

Ratio

Poverty



Gender Inequality

Rank: 16/63

0.14

0.39

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 32/63

1.2% Average Annual Population 2.3%
Average
Annual Urban
Population

Change

2.0% Net Migration Rate

PDC Global

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 40 / 63 PROVINCES

high (good).

SCORE: 0.46

Dak Lak exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 50/63

6.02 3,957 Time Cost* Income per 28.14 Purchasing

6.8 6.99

Business

Capita (in 1,000 VND)

Support Services* Entry Costs*



Governance

Rank: 39/63 5.84 4.88

Law and Order*

Informal Charges* 6.34 Transparency*

Power



Environmental Capacity

Rank: 12/63

19.0%

Protected Area



Infrastructure Capacity

Rank: 37/63



Health Care Capacity Rank: 54/63

93.9% Immunization 25.64

5.87 11.17 14.39

Coverage

Healthbeds per 10,000 People

Physicians per Nurses per 10,000 People 10,000 People Distance to Hospital (km)



Transportation Capacity Rank: 18/63

4,967

44.56

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 21/63

87.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 52 / 63 PROVINCES

SCORE: 0.479

Dak Lak's score and ranking are due to very high Vulnerability combined with low Coping Capacity scores.

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









Clean Water Access Vulnerability

Gender Inequality

Health Care Capacity

Economic Capacity

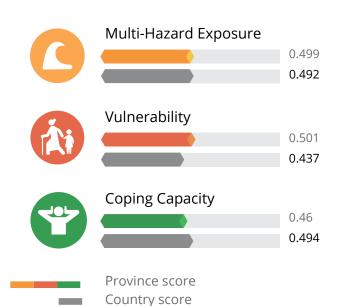


MULTI-HAZARD RISK

21 / 63
Rank within provinces
Score: 0.513

Dak Lak's score and ranking are due to moderate Multi-hazard exposure combined with very high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

DAK NONG

NDPBA PROVINCE PROFILE



VIỆT NAM DAK NONG

CAPITAL: GIA NGHĨA

Area: 6,846 km²

Dak Nong province is located in the southwestern part of the Central Highland of Viet Nam, adjacent to Cambodia to the west. Dak Nong is quite similar to Dak Lak in terms of geography and culture. The relatively flat cultivated surface with mainly bazan makes Dak Nong favorable for long-day industrial crops. Coffee, pepper and rubber are the most important products of the province.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.488 • Rank: 28/63



RESILIENCE (R) - very low Score: 0.423 • Rank: 58/63



MULTI-HAZARD EXPOSURE - very low Score: 0.309 • Rank: 52/63



VULNERABILITY (V) - very high Score: 0.513 • Rank: 9/63



COPING CAPACITY (CC) - very low Score: 0.359 • Rank: 62/63



Population (2017) **607,165**



Population in Poverty 15.7%



Illiterate population 6.3%



Access to improved water 89.3%



Average life expectancy 69.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 52 / 63 PROVINCES

SCORE: 0.309



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

4 607138



5.3%



Wildfire

60.7%

2 368489



Earthquake 0.0%



0.0%



Extreme Temperature

0.0%

2 0



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 9 / 63 PROVINCES

SCORE: 0.513

Vulnerability in Dak Nong is primarily driven by Economic Constraints and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 56/63

-2.1%

7.64

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 12/63

69.2

25.7 Infant Mortality 7.1% Acute Malnutrition

(Children <5)

27.1

109.57 Malaria

93.5

Life Expectancy Rate (per 1,000 (years) live births)

Tuberculosis Incidence (per 100,000 persons)

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 27/63

Access

89.3% Households with Safe Water

Households with Hygienic Toilet Access

58.4%



Information Access Vulnerability

Rank: 18/63

6.3% Adult Illiteracy

Rate

87.6% School

87.0% Households 6.0%

Rank: 10/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

54.1 15.7%

Economic Dependency

Poverty

Gender Inequality

Rank: 24/63

0.11

Ratio

0.34

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 10/63

3.9% Average Annual Population Change

4.5% Average Annual Urban Population Change

1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 62 / 63 PROVINCES

high (good).

SCORE: 0.359

Dak Nong exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 56/63

6.18 4,599
Time Cost* Income per

18.6
Purchasing
Power

6.19 Business 7.06 Entry Costs*

Support Services*



Governance

Rank: 62/63

Capita (in 1,000

Law and Order*

4.27

4.11 Informal Charges*

VND)

5.94 Transparency*



Environmental Capacity

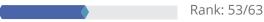
Rank: 13/63

18.7%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 61/63

94.2% Immunization Coverage 19.32 Healthbeds per 10,000 People 4.06
Physicians per 10,000 People

10.24 Nurses per 10,000 People 16.24 Distance to Hospital (km)



Transportation Capacity Rank: 32/63

3,160

45.45

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 25/63

86.2%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 58 / 63 PROVINCES

SCORE: 0.423

Dak Nong's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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









Economic Constraints

Vulnerable Health Status

Governance

Health Care Capacity



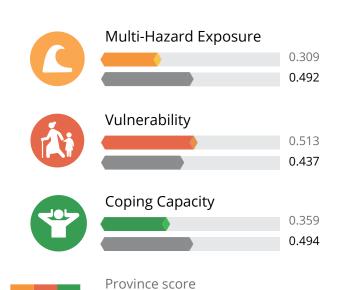
MULTI-HAZARD RISK

Ran Sco

28 / 63 Rank within provinces Score: 0.488

Dak Nong's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

DIEN BIEN

NDPBA PROVINCE PROFILE



VIỆT NAM DIEN BIEN

CAPITAL: ĐIỆN BIÊN PHỦ

Area: 11,093 km²

Dien Bien is a mountainous province located in the Northwest region of Viet Nam, adjacent China to the northwest and Laos to the west. Dien Bien is well known for its vast Muong Thanh valley, where famous Dien Bien rice is grown. Besides agriculture and forest products, the province's economy is also based on tourism and international trade for its important position as main gateway to the northwest region and its historical / cultural riches. Currently, Dien Bien is the home of 21 ethnic groups, including Thai, Hmong, Klnh, Dao, and Kho Mu people.





MULTI-HAZARD RISK - very high Score: 0.649 • Rank: 1/63



RESILIENCE (R) - very low Score: 0.382 • Rank: 62/63



MULTI-HAZARD EXPOSURE - very high Score: 0.711 • Rank: 4/63



VULNERABILITY (V) - very high Score: 0.647 • Rank: 2/63



COPING CAPACITY (CC) - very low Score: 0.411 • Rank: 58/63





Population (2017) **559,711**



Population in Poverty 29.1%



Illiterate population 24.9%



Access to improved water 31.8%



Average life expectancy 67.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 4 / 63 PROVINCES

SCORE: 0.711



MHE 0.711 Raw MHE 0.353 Relative MHE 0.744

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

2 0

₩

Flood 24.0%

(1)

Wildfire **84.7%**

474294



Earthquake 92.5%

MÈ

12.7% **A** 71224

Landslide

Extreme Temperature

99.2% \$ 555063





VULNERABILITY (V)

RANK: 2 / 63 PROVINCES

SCORE: 0.647

Vulnerability in Dien Bien is primarily driven by Economic Constraints and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 46/63

1.1%

20.44

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 4/63

67.2 Life Exp (years)

Life Expectancy

33.8 Infant Mortality 7.5% Acute 12.6 Tuberculosis Incidence

(per 100,000

persons)

54.93 Malaria Prevaland 850.6

Rate (per 1,000 live births)

Malnutrition (Children <5) Prevalance (per 100,000 persons) HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 2/63

31.8%

Households with Safe Water Access 28.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 3/63

Rank: 1/63

24.9% Adult Illiteracy

Rate

83.9% School Attendance

Rate

88.0%
Households
without Internet

30.0% Housholds without TV



Economic Constraints

62.8

Economic Dependency Ratio 29.1% Poverty



Gender Inequality

Rank: 49/63

0.08

0.26

Income F M Inequality* Enr

F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 45/63 2.5% 1.7% 0.6%

Average Annual Population Change

Average Annual Urban Population Change Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 58 / 63 PROVINCES

high (good).

SCORE: 0.411

Dien Bien exhibits weaker Coping Capacity in the areas of Communications Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 13/63

6.93

6.23 5,954
Time Cost* Income r

12.64
Purchasing Power

7.74

Income per Capita (in 1,000 VND) sing Business Support Services* Entry Costs*



Governance

Rank: 38/63

6 4.47
Law and Order* Informal Charges*

6.36 Transparency*



Environmental Capacity

Rank: 38/63

5.6%

Protected Area



Infrastructure Capacity

Rank: 63/63



Health Care Capacity Rank: 39/63

89.4% Immunization Coverage 35.46 Healthbeds per 10,000 People 9.42 Physicians per

10,000 People

16.11 Nurses per 10,000 People 25.33 Distance to Hospital (km)



Transportation Capacity Rank: 62/63

1,171

133.49

Road Density Distar (km per sq. km) or Sea

Distance to Airport or Seaport (km)



Communications Capacity Rank: 63/63

57.0%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 62 / 63 PROVINCES

SCORE: 0.382

Dien Bien's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Clean Water Access Vulnerability



Communications Capacity



Transportation Capacity



MULTI-HAZARD RISK

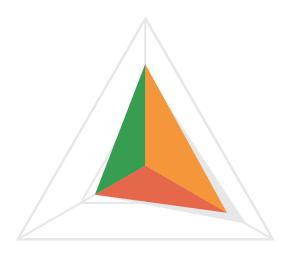
1 / 63
Rank within provinces
Score: 0.649

Dien Bien's score and ranking are due to very high Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

DONG NAI

NDPBA PROVINCE PROFILE



VIỆT NAM DONG NAI

CAPITAL: BIÊN HÒA

Area: 6,092 km²

Neighboring Ho Chi Minh City to the northeast, Dong Nai is an important province in the Southern economic main hub and is second only to Bình Dang in both population growth and net migration. The province is a main manufacturing center with about 100 major plants and enterprises. The plain terrain with mostly bazan and alluvial soil provides good conditions for growing fruits and industrial plants.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.41 • Rank: 53/63



RESILIENCE (R) - very high Score: 0.631 • Rank: 4/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.49 • Rank: 33/63



VULNERABILITY (V) - very low Score: 0.357 • Rank: 53/63



COPING CAPACITY (CC) - very high Score: 0.618 • Rank: 6/63



Population (2017) 2,928,784



Population in Poverty 0.8%



Illiterate population 2.9%



Access to improved water 97.8%



Average life expectancy 76.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 33 / 63 PROVINCES

SCORE: 0.49



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 2928505



10.1%

294775



Wildfire

32.8%

2 959791



Earthquake 0.0%

2 0

MÈ

Landslide 0.0%

Extreme Temperature

0.4%

10381



Surge

0.0%

• 0



VULNERABILITY (V)

RANK: 53 / 63 PROVINCES

SCORE: 0.357

Vulnerability in Dong Nai is primarily driven by Population Pressures and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 20/63

2.1%

73.41

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 56/63

76.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

7.0% Acute Malnutrition

(Children <5)

51.7 Tuberculosis

Incidence

persons)

(per 100,000

6.62 Malaria

Prevalance (per 100,000 persons)

216.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

7.7

Rank: 55/63

Access

97.8% Households with Safe Water

95.8% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 53/63

2.9% Adult Illiteracy

Rate

94.0% 77.0% School

5.0%

Rank: 61/63

Attendance Rate

Households without Internet

Housholds without TV



Economic Constraints

38.5

0.8%

Economic Dependency Poverty



Gender Inequality

Rank: 15/63

0.11

0.43

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 4/63

2.8% Average Annual Population

Change

3.9%

Change

Average Annual Urban Population

14.1%

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 6 / 63 PROVINCES

high (good).

SCORE: 0.618

Dong Nai exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 7/63

Services*

6.51 Time Cost* Income per 42.23 Purchasing

Power

6.75 8.05

Business Entry Costs* Support

Governance

Rank: 33/63

6.24 5.77 5.01 Law and Order* Informal Transparency* Charges*

5,321

VND)

Capita (in 1,000



Environmental Capacity

Rank: 3/63

44.7%

Protected Area



Infrastructure Capacity

Rank: 6/63



Health Care Capacity Rank: 30/63

99.4% 25.82 4.69 11.43 11.73 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 3/63

7,545 25.99

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 7/63

90.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 4 / 63 PROVINCES

SCORE: 0.631

Dong Nai's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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









Population Pressures

Gender Inequality

Governance

Health Care Capacity

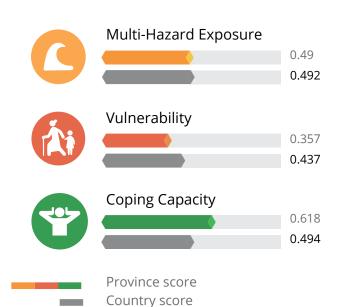


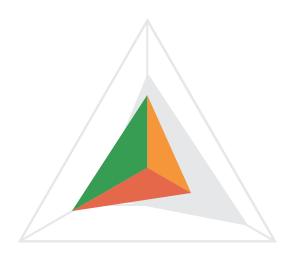
MULTI-HAZARD RISK

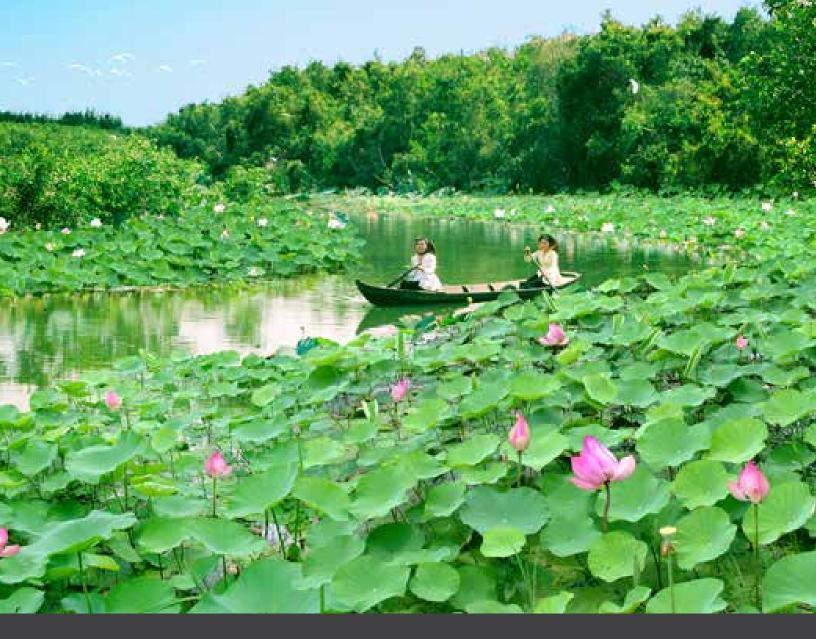
53 / 63 Rank within provinces Score: 0.41

Dong Nai's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

DONG THAP

NDPBA PROVINCE PROFILE



VIỆT NAM DONG THAP

CAPITAL: CAO LÃNH

Area: 3,522 km²

Dong Thap province is located in the Mekong Delta region of Southern Viet Nam, bordering with Cambodia to the northwest. Possessing good soil, climate, and large river, canal and spring systems, Dong Thap is a major supplier of aquaculture and agriculture products, including fruit, flowers, and rice (3rd largest paddy field in the country). The province is also well known for its submerged in-land ecosystem of Dong Thap Muoi and Tram Chim National Park.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.45 • Rank: 44/63



RESILIENCE (R) - very high Score: 0.62 • Rank: 6/63



MULTI-HAZARD EXPOSURE - high Score: 0.59 • Rank: 24/63



VULNERABILITY (V) - low Score: 0.404 • Rank: 41/63



COPING CAPACITY (CC) - very high Score: 0.645 • Rank: 4/63



Population (2017) 1,825,101



Population in Poverty 7.2%



Illiterate population 6.4%



Access to improved water 69.0%



Average life expectancy 74.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 24 / 63 PROVINCES

SCORE: 0.59



MHE 0.59 Raw MHE 0.665 Relative MHE 0.595

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1823233



92.3%

Flood

M

Wildfire

6.7% 4 122614



Earthquake 0.0%

e n

MÈ

Landslide 0.0%

Extreme Temperature

1.7% ▲ 31316



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 41 / 63 PROVINCES

SCORE: 0.404

Vulnerability in Dong Thap is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 63/63

17.0%

22.18

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 40/63

74.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000

11.9

live births)

6.7% Acute Malnutrition

(Children <5)

99.6

Tuberculosis Incidence

(per 100,000

persons)

1.72 Malaria Prevalance (per 100,000 persons) 271.2

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 17/63

69.0%

Households with Safe Water Access

60.5% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 21/63

6.4%

Adult Illiteracy

88.2% School Attendance 88.0%
Households
without Internet

4.0% Housholds without TV

Rank: 45/63

Ci\$

Economic Constraints

Rate

40.7

7.2%

Economic Dependency Ratio Poverty

δQ,

Gender Inequality

0.24 0.25

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.

Rank: 52/63

Rank: 13/63



Population Pressures

0.3%
Average Annual Population

1.4% Average Annual Urban

Population Change 7.3%

Net Migration Rate

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 4 / 63 PROVINCES

high (good).

SCORE: 0.645

Dong Thap exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 23/63

6.7

8.69 3,446
Time Cost* Income per

35.5 Purchasing Power

Transparency*

8.3

Business Support Services* Entry Costs*



Governance

Law and Order*

Rank: 1/63
7.1 6.86 7.25

Capita (in 1,000



Environmental Capacity

Informal

Charges*

Rank: 45/63

3.0%

Protected Area



Infrastructure Capacity

Rank: 13/63



Health Care Capacity Rank: 29/63

97.4% 25.44 5.64 12.45 8.87

Immunization Healthbeds per Coverage 10,000 People 10,000



Transportation Capacity Rank: 7/63

4,700 11.07

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 28/63

85.7% Households with Phone Access

(Landline/Mobile)

5



RESILIENCE (R)

RANK: 6 / 63 PROVINCES

SCORE: 0.62

Dong Thap's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Gender Inequality



Economic Capacity



Health Care Capacity

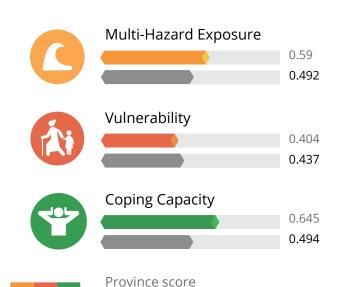


MULTI-HAZARD RISK

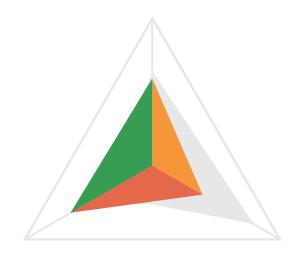
44 / 63
Rank within provinces
Score: 0.45

Dong Thap's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM — GIA LAI

NDPBA PROVINCE PROFILE



VIỆT NAM GIA LAI

CAPITAL: PLEIKU

Area: 18,202 km²

Located in the north of Viet Nam's Central Highland, Gia Lai shares a border with Cambodia to the west - with a mix of mountains, plateaus, and valleys. The province is the home to a number of indigenous people namely Ja rai, Ba Na, and E \(\text{=e}, \) with a long history and old ethnic culture. Currently, Gia Lai is a main supplier of rubber, coffee, fruit and other agriculture products with high hydropower generation potential.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.531 • Rank: 14/63



RESILIENCE (R) - very low Score: 0.426 • Rank: 57/63



MULTI-HAZARD EXPOSURE - low Score: 0.446 • Rank: 41/63



VULNERABILITY (V) - very high Score: 0.565 • Rank: 6/63



COPING CAPACITY (CC) - very low Score: 0.418 • Rank: 55/63



Population (2017) 1,460,930



Population in Poverty 15.7%



Illiterate population 16.0%



Access to improved water 83.8%



Average life expectancy 68.70 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 41 / 63 PROVINCES

SCORE: 0.446



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



8.2% \$ 120146



Wildfire 22.1%



0.0%

Earthquake



0.0%



Extreme Temperature 34.0% 496673



Surge 0.0% 0



VULNERABILITY (V)

RANK: 6 / 63 PROVINCES

SCORE: 0.565

Vulnerability in Gia Lai is primarily driven by Vulnerable Health Status and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 30/63

-3.2%

22.37

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 6/63

68.7

(years)

Life Expectancy

Infant Mortality

Rate (per 1,000

8.9% Acute Malnutrition

(Children <5)

27.2 Tuberculosis Incidence

(per 100,000

persons)

321.21

Malaria Prevalance 59.5

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

26.3

live births)

Rank: 20/63

83.8%

Households with Safe Water

Access

55.6% Households with Hygienic Toilet



Information Access Vulnerability

Access

Rank: 10/63

16.0% Adult Illiteracy

Rate

75.6% School Attendance 84.0% Households 6.0%

Rank: 8/63

Rate

without Internet

Housholds without TV



Economic Constraints

54.6

15.7%

Economic Dependency Ratio

Poverty



Gender Inequality

0.14 0.4

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.

Rank: 14/63



Population Pressures

Rank: 34/63 1.9% 0.6% 3.0%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 55 / 63 PROVINCES

high (good).

SCORE: 0.418

Gia Lai exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 36/63

5.23 3,946
Time Cost* Income p

29.14 7

7.19 7.13

Income per Capita (in 1,000 VND) Purchasing Business Power Support Services* Entry Costs*



Governance

Rank: 50/63

5.7 Law and Order* 4.86
Informal
Charges*

6.46
Transparency*



Environmental Capacity

Rank: 23/63

10.7%

Protected Area



Infrastructure Capacity

Rank: 54/63



Health Care Capacity Rank: 55/63

93.6% Immunization Coverage 24.64 Healthbeds per 10,000 People 5.91 Physicians per 10,000 People 13.13 Nurses per 10,000 People 18.41 Distance to Hospital (km)



Transportation Capacity Rank: 52/63

4,418

123.92

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 29/63

84.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 57 / 63 PROVINCES

SCORE: 0.426

Gia Lai's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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





Constraints





Health Status

Governance

Health Care Capacity

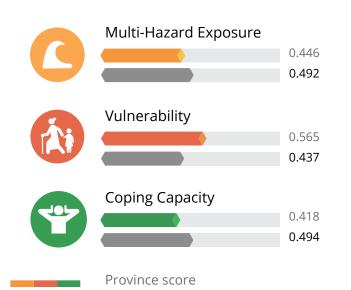


MULTI-HAZARD RISK

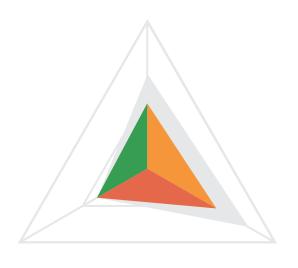
14 / 63
Rank within provinces
Score: 0.531

Gia Lai's score and ranking are due to low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

HA GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM HA GIANG

CAPITAL: HÀ GIANG

Area: 9,415 km²

As the northern-most province of Viet Nam, Ha Giang belongs to the mountainous region and shares a border with China to the north. Hà Giang is one of the poorest provinces of Viet Nam with economic activities revolved around small-scale agriculture and forestry due to its mountainous topography and limited infrastructure. As the home of more than 20 ethnic minority groups, most notably the Hmong, Tay, Dao, Nung, and Lo Lo people, the province is well-known by the rich culture and traditional value.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.495 • Rank: 26/63



RESILIENCE (R) - very low Score: 0.407 • Rank: 59/63



MULTI-HAZARD EXPOSURE - very low Score: 0.298 • Rank: 53/63



VULNERABILITY (V) - very high Score: 0.641 • Rank: 3/63



COPING CAPACITY (CC) - low Score: 0.454 • Rank: 42/63



Population (2017) **823,893**



Population in Poverty 24.2%



Illiterate population 25.1%



Access to improved water 31.7%



Average life expectancy 67.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 53 / 63 PROVINCES

SCORE: 0.298



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

0.0%

0.0% ♣ o **€**

17.7%

(1)

7.5% 61449



Earthquake 0.0%

MÈ

26.2% 216261

Landslide

Extreme Temperature 95.4% 2786114



Surge **0.0% 0**



VULNERABILITY (V)

RANK: 3 / 63 PROVINCES

SCORE: 0.641

Vulnerability in Ha Giang is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 27/63

0.0%

37.53

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 2/63

67.2

Life Expectancy (years)

9.8%

23.2

151.4

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

Acute Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

25

Malaria Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 5/63

31.7% Households 37.5%

with Safe Water Access

Households with Hygienic Toilet Access

Information Access Vulnerability

Rank: 1/63

Rank: 3/63

25.1% Adult Illiteracy

Rate

79.8% School

90.0% Households 25.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

57.3 24.2%

Economic

Dependency Ratio

Poverty



Gender Inequality

Rank: 58/63

0.1

0.11

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 11/63

1.8% Average Annual Population

Change

5.4%

1.5%

Average Annual Urban Population Change

Net Migration Rate

PDC Global

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 42 / 63 PROVINCES

high (good).

SCORE: 0.454

Ha Giang exhibits weaker Coping Capacity in the areas of Communications Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 37/63

7.27 5,070
Time Cost* Income per

7.85
Purchasing
Power

6.26 Business 7.91 Entry Costs*

Capita (in 1,000 Power Support VND) Services*



Governance

Rank: 21/63

7.01 4.49 6.18 Law and Order* Informal Transpa

d Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 36/63

6.5%

Protected Area



Infrastructure Capacity

Rank: 60/63



Health Care Capacity Rank: 32/63

92.7% Immunization Coverage 34.5 Healthbeds per 10,000 People 8.34
Physicians per 10,000 People

17.27 Nurses per 10,000 People 18.29 Distance to Hospital (km)



Transportation Capacity Rank: 54/63

2,013

92.91

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 59/63

70.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 59 / 63 PROVINCES

SCORE: 0.407

Ha Giang's score and ranking are due to very high Vulnerability combined with low Coping Capacity scores.

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







Economic Constraints



Communications Capacity



Transportation Capacity



MULTI-HAZARD RISK

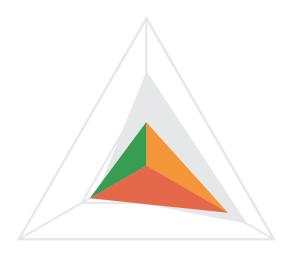
26 / 63
Rank within provinces
Score: 0,495

Ha Giang's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and low Coping Capacity scores.

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



Country score





VIỆT NAM

HA NAM

NDPBA PROVINCE PROFILE



VIỆT NAM HA NAM

CAPITAL: PHỦ LÝ

Area: 988 km²

Neighboring Hanoi Capital to the south, Ha Nam is a province in the Red River Delta. With lowland terrain and a wide irrigation network, the province's economy is traditionally based on agriculture, aquaculture, poultry, and handicraft production. With Hanoi expansion, Ha Nam is rapidly developing with new urban complex, education institutions, and industrial parks.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.56 • Rank: 8/63



RESILIENCE (R) - low Score: 0.513 • Rank: 40/63



MULTI-HAZARD EXPOSURE - very high Score: 0.706 • Rank: 5/63



VULNERABILITY (V) - moderate Score: 0.407 • Rank: 39/63



COPING CAPACITY (CC) - very low Score: 0.433 • Rank: 51/63



Population (2017) 823,794



Population in Poverty 5.5%



Illiterate population 1.8%



Access to improved water 99.6%



Average life expectancy 74.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 5 / 63 PROVINCES

SCORE: 0.706



MHE 0.706

Raw MHE 0.542

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 823794



Flood **87.9%**

2 724493



Wildfire

0.0%

2 0



Earthquake

0.0%

62



Landslide

0.0%



Extreme Temperature

100.0%

2 823794



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 39 / 63 PROVINCES

SCORE: 0.407

Vulnerability in Ha Nam is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 9/63

1.5%

136.15

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 44/63

74.3

Life Expectancy (years)

Infant Mortality

6.4% Acute

43.7 Tuberculosis 44.53 Malaria Prevalance 116.7

Rate (per 1,000 live births)

Malnutrition (Children <5) Incidence (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

12

Rank: 50/63

99.6%

Households with Safe Water

Access

74.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 52/63

1.8% Adult Illiteracy

98.2% School Attendance

Rate

91.0% Households without Internet 4.0% Housholds

without TV



Economic Constraints



Rank: 38/63

Rank: 22/63

gender parity.

Rank: 6/63

46.4

Rate

5.5%

Economic Dependency Ratio

Poverty



Gender Inequality

0.13 0.35

Income

F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater



Population Pressures

3.2% 9.6%

0.1% Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate



COPING CAPACITY (CC)

RANK: 51 / 63 PROVINCES

SCORE: 0.433

Ha Nam exhibits weaker Coping Capacity in the areas of Economic Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.

7.77

Entry Costs*



Economic Capacity

Rank: 57/63

3,824 17.49 6.21

Income per Purchasing Capita (in 1,000 Power

Business Support Services* *Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

7.03

Time Cost*

5.77 5.36 6.35
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 56/63

0.0% Protected Area



Infrastructure Capacity

Rank: 29/63



Health Care Capacity Rank: 9/63

99.5% 31.51 6.15 13.84 5

Immunization Healthbeds per Coverage 10,000 People 10,000 Pe



Transportation Capacity Rank: 44/63

1,232 20.42
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 55/63

74.4% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 40 / 63 PROVINCES

SCORE: 0.513

Ha Nam's score and ranking are due to moderate Vulnerability combined with very low Coping Capacity scores.

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







Population Pressures



Economic Capacity



Communications Capacity

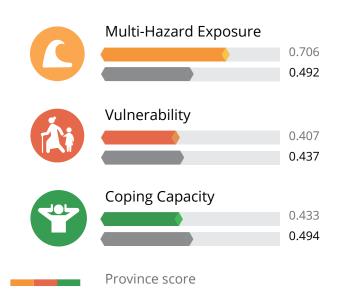


MULTI-HAZARD RISK

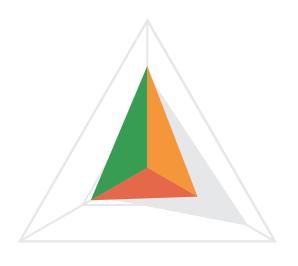
8 / 63 Rank within provinces Score: 0.56

Ha Nam's score and ranking are due to very high Multi-hazard exposure combined with moderate Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM — HA NOI

NDPBA PROVINCE PROFILE



VIỆT NAM HA NOI

CAPITAL: HOÀN KIẾM DISTRICT

Area: 3,989 km²

Located at the center of the Red River Delta, Ha Noi - the Capital city of Viet Nam -, is the country's second largest city in population (about 7.7 million people in 2015). The city has a long history of more than 1,000 years and is rich in culture and natural landscapes, including certain landmarks for tourists such as the old quarter, colonial Hanoi, Thang Long imperial citadel, lakes, Ba Vi sacred peaks and many traditional handicrafts and villages. Hanoi rapidly urbanized as its economy gradually transformed from agriculture to trade, tourism, service, and industry-based.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.472 • Rank: 34/63



RESILIENCE (R) - very high Score: 0.611 • Rank: 7/63



MULTI-HAZARD EXPOSURE - very high Score: 0.639 • Rank: 12/63



VULNERABILITY (V) - very low Score: 0.32 • Rank: 60/63



COPING CAPACITY (CC) - high Score: 0.542 • Rank: 16/63



Population (2017) **7,402,247**



Population in Poverty 1.8%



Illiterate population 1.5%



Access to improved water 99.4%



Average life expectancy 75.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 12 / 63 PROVINCES

SCORE: 0.639



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

6.8%

500109



Flood

35.3%



Wildfire

0.2%

13521



Earthquake

0.6%

45299



Landslide

0.1%

\$ 5233



Extreme Temperature

100.0%

1 7402247



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 60 / 63 PROVINCES

SCORE: 0.32

Vulnerability in Ha Noi is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 4/63

-3.6%

143.79

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 61/63

75.2

(years)

Life Expectancy

10.2 Infant Mortality Rate (per 1,000

live births)

5.8% Acute Malnutrition

(Children <5)

26.4 Tuberculosis Incidence

(per 100,000

persons)

0.23 Malaria Prevalance (per 100,000 persons)

300.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 57/63

Access

99.4% Households with Safe Water

92.3% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 63/63

1.5%

Adult Illiteracy

98.5% School

56.0% Households 4.0%

Rate

Attendance Rate

without Internet

Housholds without TV



Economic Constraints



Rank: 51/63

Rank: 45/63

45.6

1.8%

Economic Dependency Poverty



Gender Inequality

0.2

Income

0.12

F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 14/63 0.6% 5.1%

2.3% Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 16 / 63 PROVINCES

high (good).

SCORE: 0.542

Ha Noi exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 5/63

7.19 5,703 Time Cost* Income p 52.13

7.68

6.72

Income per Capita (in 1,000 VND) Purchasing Power Business Support Services* Entry Costs*



Governance

Rank: 47/63 4.88 4.4 6.31

Law and Order*

Informal Charges* 6.31 Transparency*



Environmental Capacity

Rank: 44/63

3.1%

Protected Area



Infrastructure Capacity

Rank: 15/63



Health Care Capacity Rank: 59/63

95.0% Immunization Coverage 15.01 Healthbeds per

10,000 People

4.94
Physicians per 10,000 People

10.1 Nurses per

10,000 People

6.78
Distance to Hospital (km)



Transportation Capacity Rank: 2/63

12,143

15.99

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 6/63

91.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 7 / 63 PROVINCES

SCORE: 0.611

Ha Noi's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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



Stress









Population Prėssures

Health Care Capacity

Governance

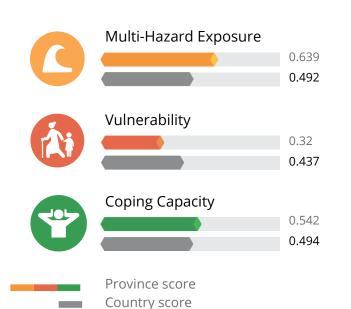


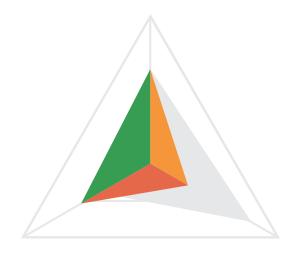
MULTI-HAZARD RISK

34 / 63 Rank within provinces Score: 0.472

Ha Noi's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

HA TINH

NDPBA PROVINCE PROFILE



VIỆT NAM HA TINH

CAPITAL: HÀ TĨNH

Area: 6,654 km²

Ha Tinh province is located in the North Central Coast of Viet Nam, sharing a border with Laos to the west. The deep-cut terrain with harsh climate conditions accompanied with frequent typhoons makes the province one of the poorest provinces in Viet Nam. Ha Tinh's economy is mostly based on agriculture, mining, fishing, and food processing. The recently established Vung Ang economic zone with a deep seaport, steel mill, and thermal power plant is expected to transform the province's economy.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.539 • Rank: 11/63



RESILIENCE (R) - low Score: 0.498 • Rank: 44/63



MULTI-HAZARD EXPOSURE - high Score: 0.613 • Rank: 21/63



VULNERABILITY (V) - high Score: 0.452 • Rank: 23/63



COPING CAPACITY (CC) - low Score: 0.448 • Rank: 44/63



Population (2017) 1,252,519



Population in Poverty 13.3%



Illiterate population 2.4%



Access to improved water 93.8%



Average life expectancy 72.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 21 / 63 PROVINCES

SCORE: 0.613



MHE 0.613

Raw MHE 0.589

Relative MHE 0.711

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

0.0% **\$\square\$**

Flood
21.0% **2** 263331

(1)

Wildfire **8.7% ▲** 109313



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature 100.0% ▲ 1252519



Surge **0.0%**



VULNERABILITY (V)

RANK: 23 / 63 PROVINCES

SCORE: 0.452

Vulnerability in Ha Tinh is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 25/63

0.3%

43.72

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 23/63

72.3

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 6.5% Acute Malnutrition (Children <5) 44.5 Tuberculosis Incidence

(per 100,000

persons)

91.29 Malaria Prevalance 67.5

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

17.1

live births)

Rank: 22/63

93.8% Households

45.0% Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 39/63

Rank: 11/63

Rank: 43/63

2.4% Adult Illiteracy

Rate

98.1% School Attendance 87.0% Households 9.0%

Rate

without Internet

Housholds without TV



Economic Constraints

54.8 13.3%

Economic Dependency

Poverty



Gender Inequality

0.11 0.23

Income Inequality*

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 46/63 0.1% 4.7% 4.3%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 44 / 63 PROVINCES

high (good).

SCORE: 0.448

Ha Tinh exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 26/63

5.65 4,207 Time Cost* Income per

VND)

Informal

Charges*

6.9 Business 7.56

Purchasing Capita (in 1,000 Power Support Services*

Transparency*

29.62

Entry Costs*



Governance

Law and Order*

Rank: 53/63 5.75 4.76 6.16



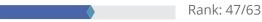
Environmental Capacity

Rank: 19/63

13.1% Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 34/63

98.3% Immunization 30.28 7.19 12.72

28.67

Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 56/63

3,792 Road Density 133.13

Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 24/63

86.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 44 / 63 PROVINCES

SCORE: 0.498

Ha Tinh's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Economic Constraints



Governance



Transportation Capacity

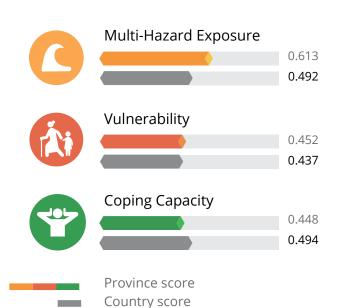


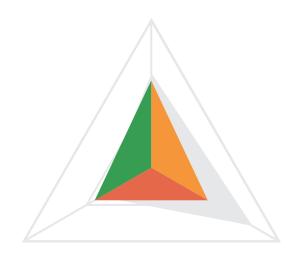
MULTI-HAZARD RISK

11 / 63
Rank within provinces
Score: 0.539

Ha Tinh's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

HAI DUONG

NDPBA PROVINCE PROFILE



VIỆT NAM HAI DUONG

CAPITAL: HẢI DƯƠNG

Area: 1,924 km²

Hai Duong province is landlocked in the center of the Red River Delta. With favorable conditions for natural resources, land area and transportation, Holong is one of the most industrialized and developed provinces in Viet Nam. The province mainly focuses on developing agriculture and industrial production, attracting domestic and international investment in over 50 industrial areas. Well-known products include lychees and the traditional mung bean sweet.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.528 • Rank: 16/63



RESILIENCE (R) - high Score: 0.552 • Rank: 22/63



MULTI-HAZARD EXPOSURE - very high Score: 0.687 • Rank: 8/63



VULNERABILITY (V) - very low Score: 0.331 • Rank: 58/63



COPING CAPACITY (CC) - low Score: 0.435 • Rank: 47/63



Population (2017) 1,767,185



Population in Poverty 3.5%



Illiterate population 1.8%



Access to improved water 99.7%



Average life expectancy 74.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 8 / 63 PROVINCES

SCORE: 0.687



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

36.0% \$\frac{36.0\%}{635709}\$



Wildfire 0.4%

Earthquake 0.0%

Landslide 0.0%

Extreme Temperature
100.0%
▲ 1767185





VULNERABILITY (V)

RANK: 58 / 63 PROVINCES

SCORE: 0.331

Vulnerability in Hai Duong is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 13/63

1.6%

98.96

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 55/63

74.4

(years)

Life Expectancy

11.7 Infant Mortality Rate (per 1,000

live births)

4.7% Acute Malnutrition

(Children <5)

27.7
Tuberculosis

Incidence

persons)

(per 100,000

1.59

Malaria Prevalance (per 100,000 persons) 184.2

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 53/63

Access

99.7% Households with Safe Water

Households with Hygienic Toilet Access

76.2%



Information Access Vulnerability

Rank: 59/63

1.8%

Rate

Adult Illiteracy

98.2% School Attendance

83.0% Households

Households without Internet

4.0% Housholds without TV



Economic Constraints

Rate



Rank: 49/63

43.8

3.5%

Economic Dependency Poverty



Gender Inequality

Rank: 36/63

0.12

0.26

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 27/63

0.5% Average Annual

Population

Change

6.1% Average Annual Urban 1.0% Net Migration

Annual Urba Population Change Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 47 / 63 PROVINCES

high (good).

SCORE: 0.435

Hai Duong exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 45/63

6.32 4,417
Time Cost* Income pe

4,417 21.32 Income per Capita (in 1,000 Power VND)

6.17
Business
Support
Services*

7.67

Entry Costs*

8.3

Distance to

Hospital (km)



Governance

Law and Order*

Rank: 56/63 5.63 5.46 5.45

Transparency*



Environmental Capacity

Informal

Charges*

Rank: 53/63

1.0%

Protected Area



Infrastructure Capacity

Rank: 11/63



Health Care Capacity Rank: 12/63

99.1% 30.23 6.24 15.68

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People 10,000 People



Transportation Capacity Rank: 22/63

2,848 16.43

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 45/63

80.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 22 / 63 PROVINCES

SCORE: 0.552

Hai Duong's score and ranking are due to very low Vulnerability combined with low Coping Capacity scores.

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



Stress









Economic Capacity



MULTI-HAZARD RISK

Prėssures

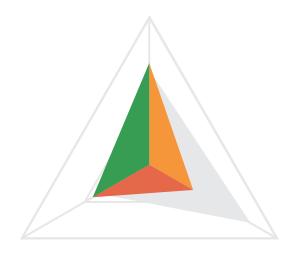
16 / 63 Rank within provinces Score: 0.528

Hai Duong's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and low Coping Capacity scores.

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



Country score





VIỆT NAM •

HAI PHONG

NDPBA PROVINCE PROFILE



VIỆT NAM HAI PHONG

CAPITAL: HÖNG BÀNG DISTRICT

Area: 1,575 km²

Located at the mouth of the Cam River and a part of the Red River Delta, Hai Phong is the largest port city in northern Viet Nam and a major industrial city. Many larger manufactures such as LG, Bridgestone, Fuji, Xerox, Kyocera, and Vinfast are operating in the province's five largest industrial zones. With flat terrain a coastal location, agriculture and fisheries still play an important role in the province's economy. Hai Phong is also known for it's Cat Ba archipelago a part of the UNESCO World Biosphere Reserve.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.457 • Rank: 40/63



RESILIENCE (R) - very high Score: 0.629 • Rank: 5/63



MULTI-HAZARD EXPOSURE - high Score: 0.628 • Rank: 18/63



VULNERABILITY (V) - very low Score: 0.3 • Rank: 61/63



COPING CAPACITY (CC) - very high Score: 0.558 • Rank: 11/63



Population (2017) 2,038,579



Population in Poverty 2.9%



Illiterate population 1.8%



Access to improved water 99.8%



Average life expectancy 74.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 18 / 63 PROVINCES

SCORE: 0.628



MHE 0.628 Raw MHE 0.719 Relative MHE 0.653

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.1%

₩

8.2% 8.168111 (1)

Wildfire
0.0%



Earthquake
0.0%
0.0%

Landslide 0.0%

Extreme Temperature 98.5%
2008643



Surge **0.4%**



VULNERABILITY (V)

RANK: 61 / 63 PROVINCES

SCORE: 0.3

Vulnerability in Hai Phong is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 16/63

0.6%

86.34

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

12

live births)

Rank: 48/63

74.3

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 5.4% Acute Malnutrition

(Children <5)

34.4 Tuberculosis

Incidence

persons)

(per 100,000

3.19

persons)

H

Malaria Prevalance (per 100,000 374.2 HIV Prevalance

(per 100,000 persons)



Clean Water Vulnerability

Rank: 60/63

99.8%

Households with Safe Water Access 88.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 62/63

Rank: 48/63

Rank: 37/63

Rank: 36/63

1.8% Adult Illiteracy 98.7% School Attendance

Rate

71.0% Households without Internet 4.0% Housholds without TV



Economic Constraints

44.8

Rate

2.9%

Economic Dependency Poverty



Gender Inequality

0.17

0.16

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

1.1% Average Annual

Population

Change

Average Annual Urban Population Change

2.7%

1.4% Net Migration Rate

PDC Global

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 11 / 63 PROVINCES

high (good).

SCORE: 0.558

Hai Phong exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 10/63

5.71 4,868
Time Cost* Income per

39.35
Purchasing Power

Transparency*

6.74 7.9

Business Support Services* 7.94 Entry Costs*



Governance

Law and Order*

Rank: 51/63 5.48 6.02 5.73

Capita (in 1,000

VND)

Informal

Charges*



Environmental Capacity

Rank: 14/63

16.1%

Protected Area



Infrastructure Capacity

Rank: 3/63



Health Care Capacity Rank: 7/63

97.9% 33.
Immunization Heal

33.74 Healthbeds per

10,000 People

7.84 16.28
Physicians per Nurses per

10,000 People

4.41

10,000 People

Distance to Hospital (km)



Coverage

Transportation Capacity Rank: 16/63

2,925

11.9

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 15/63

87.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 5 / 63 PROVINCES

SCORE: 0.629

Hai Phong's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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







Population Pressures



Governance



Economic Capacity

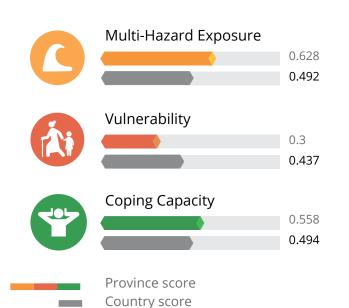


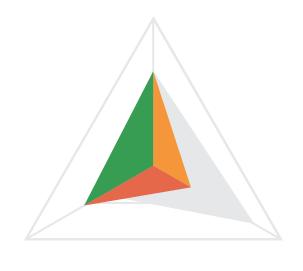
MULTI-HAZARD RISK

40 / 63
Rank within provinces
Score: 0.457

Hai Phong's score and ranking are due to high Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

HAU GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM HAU GIANG

CAPITAL: VI THANH

Area: 1,682 km²

Hau Giang province is located in the middle of the Mekong Delta. The province shares the same lowland topography features of the surrounding region with a complex river and canal network. Prominent provincial economic activities include rice, fruit tree and aquaculture. Hau Giang is also famous for floating markets. As a landlocked province, Hau Giang is facing difficulty in diversifying and developing its economy.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.478 • Rank: 32/63



RESILIENCE (R) - moderate Score: 0.528 • Rank: 31/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.49 • Rank: 34/63



VULNERABILITY (V) - moderate Score: 0.428 • Rank: 33/63



COPING CAPACITY (CC) - moderate Score: 0.485 • Rank: 28/63



Population (2017) **824,882**



Population in Poverty 9.9%



Illiterate population 5.7%



Access to improved water 87.0%



Average life expectancy 75.20 years

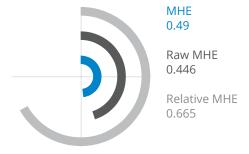
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 34 / 63 PROVINCES

SCORE: 0.49



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 88.2%



Wildfire 0.0%

180291



0.0%



Landslide 0.0%



Extreme Temperature 21.9%



Surge



VULNERABILITY (V)

RANK: 33 / 63 PROVINCES

SCORE: 0.428

Vulnerability in Hau Giang is primarily driven by Clean Water Access Vulnerability and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 53/63

2.6%

20.34

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 53/63

75.2

Infant Mortality

10.1

6.1%

107.5 Tuberculosis 0.13 Malaria Prevalance (per 100,000

persons)

145.6 HIV Prevalance (per 100,000 persons)

Life Expectancy (years)

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Incidence (per 100,000 persons)



Clean Water Vulnerability

Rank: 16/63

87.0% Households with Safe Water

Access

44.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 14/63

5.7%

Rate

Adult Illiteracy

82.1% School Attendance 92.0% Households without Internet

4.0% Housholds without TV



Economic Constraints

Rate

Rank: 42/63

38.7

9.9%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 35/63

0.16

0.19

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 19/63

0.3% Average Annual

Population

PDC Global

Change

6.1% Average Annual Urban Population

Change

4.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 28 / 63 PROVINCES

high (good).

SCORE: 0.485

Hau Giang exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 54/63

7.89 3,579
Time Cost* Income p

36.18 Purchasing 5.53

7.91

Income per Capita (in 1,000 VND) Business Support Services*



Entry Costs*



Governance

Rank: 12/63

6.14

6.09 Informal 6.11

Law and Order* Informal Charges*

Transparency*



Environmental Capacity

Rank: 47/63

1.7%

Protected Area



Infrastructure Capacity



Rank: 31/63



Health Care Capacity Rank: 27/63

97.3% Immunization Coverage 29 Healthbeds per 10,000 People 5.58
Physicians per 10,000 People

11.67 Nurses per

10,000 People

5.74 Distance to

Hospital (km)



Transportation Capacity Rank: 30/63

2,500

30.85

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 46/63

79.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 31 / 63 PROVINCES

SCORE: 0.528

Hau Giang's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores.

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



Clean Water Access Vulnerability



Information Access Vulnerability



Economic Capacity



Health Care Capacity



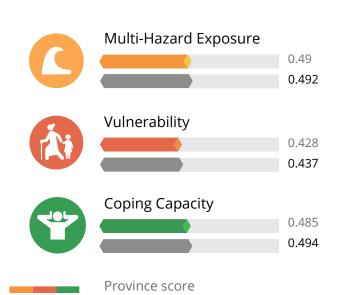
MULTI-HAZARD RISK

Ra Sc

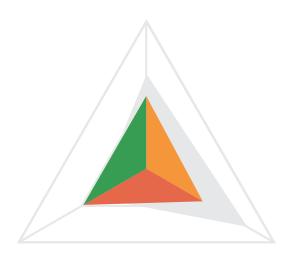
32 / 63 Rank within provinces Score: 0.478

Hau Giang's score and ranking are due to moderate Multi-hazard exposure combined with moderate Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

HO CHI MINH CITY

NDPBA PROVINCE PROFILE



VIỆT NAM HO CHI MINH CITY

CAPITAL: DISTRICT 1

Area: 2,033 km²

Located in the southeastern region of Viet Nam, Ho Chi Minh City (also known as former Saigon) is the most populous city in Viet Nam (about 8.4 million in 2017). The sity is the economic center of Viet Nam, accounting for 20.2% of its GDP and 27.9% of its industrial output in 2005 and is the country's most vibrant and fast growing city. Ho Chi Minh city is now facing a number of modern metropolitan problems such as traffic congestion, pollution, and social problems. Located on the Saigon River and on the lowland near the sea, Ho Chi Minh City is vulnerable to severe flooding for heavy rains, tides, and uncontrolled housing development.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.39 • Rank: 58/63



RESILIENCE (R) - very high Score: 0.696 • Rank: 2/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.561 • Rank: 27/63



VULNERABILITY (V) - very low Score: 0.292 • Rank: 62/63



COPING CAPACITY (CC) - very high Score: 0.684 • Rank: 2/63



Population (2017) **8,393,295**



Population in Poverty 0.0%



Illiterate population 3.2%



Access to improved water 99.4%



Average life expectancy 76.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 27 / 63 PROVINCES

SCORE: 0.561



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

100.09 \$ 2301178

Earthquake



8.2% 8.1641



Wildfire 1.2%

2 96771



0.0%



0.0%



Extreme Temperature

4.5% ≜ 381576





VULNERABILITY (V)

RANK: 62 / 63 PROVINCES

SCORE: 0.292

Vulnerability in Ho Chi Minh City is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 10/63

-2.9%

78.63

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 63/63

76.1

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

2.6% Acute

(Children <5)

88.2 Tuberculosis Malnutrition Incidence

(per 100,000

persons)

0.71 Malaria 685.4

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

7.7

Rank: 62/63

99.4%

99.3% Households Households with with Safe Water Hygienic Toilet Access Access

Information Access Vulnerability

Rank: 31/63

Rank: 62/63

3.2% Adult Illiteracy

Rate

94.4% School Attendance 96.0% Households without Internet

4.0% Housholds without TV

Economic Constraints

Rate

34.2 0.0%

Economic Dependency Poverty



Gender Inequality

0.13 0.13

F M School Income Enrollment Rate* Inequality*

Rank: 55/63

*Values closer to 1 represent greater gender parity.

Rank: 17/63



Population Pressures

3.0% 2.9% Average Annual

Average Annual Urban Population Change

1.6%

Net Migration Rate

Population

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 2 / 63 PROVINCES

high (good).

SCORE: 0.684

Ho Chi Minh City exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 1/63

7.1 5,991
Time Cost* Income per

5,991 87.5
Income per Capita (in 1,000 Power

7.82
Business
Support
Services*

7.44

ness Entry Costs*



Governance

Rank: 40/63

5.13 4.97
Law and Order* Informal Charges*

6.16 Transparency*



Environmental Capacity

Rank: 9/63

28.4%

Protected Area



Infrastructure Capacity

Rank: 2/63



Health Care Capacity Rank: 13/63

98.3% Immunization Coverage 35.58 Healthbeds per 10,000 People 5.96
Physicians per 10,000 People

13 Nurses per 10,000 People 6.13
Distance to Hospital (km)



Transportation Capacity Rank: 1/63

14,158

11.29

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 3/63

92.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 2 / 63 PROVINCES

SCORE: 0.696

Ho Chi Minh City's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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







Prėssures





Health Care Capacity

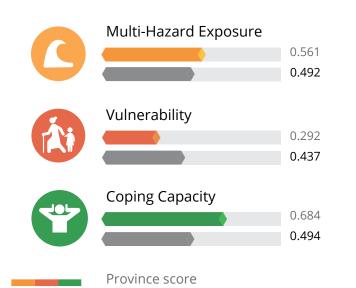


MULTI-HAZARD RISK

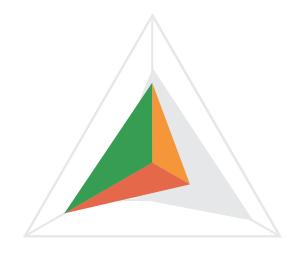
58 / 63 Rank within provinces Score: 0.39

Ho Chi Minh City's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

HOA BINH

NDPBA PROVINCE PROFILE



VIỆT NAM HOA BINH

CAPITAL: HÒA BÌNH

Area: 5,071 km²

Neighboring Hanoi Capital to the west, Hoa Binh is a mountainous province located in the Northwest region of Viet Nam. Hoa Binh is known as the home to the Muong people (about 63% of total population) and other ethnic groups of Kinh, Thai, Dao, Tay, and Hmong. Given favorable natural conditions and cultural diversity, the province's economy is mostly based on agroforestry, specialized crops, ecotourism, and hydropower.

vn le

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.521 • Rank: 18/63



RESILIENCE (R) - moderate Score: 0.515 • Rank: 37/63



MULTI-HAZARD EXPOSURE - high Score: 0.592 • Rank: 23/63



VULNERABILITY (V) - low Score: 0.397 • Rank: 45/63



COPING CAPACITY (CC) - very low Score: 0.427 • Rank: 54/63



Population (2017) **853,037**



Population in Poverty 15.7%



Illiterate population 2.0%



Access to improved water 60.0%



Average life expectancy 72.40 years

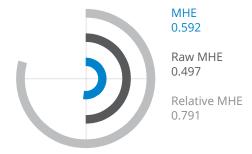
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 23 / 63 PROVINCES

SCORE: 0.592



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 26.4%

224865



Flood

10.0% ▲ 84900



Wildfire

4.5%

38105



Earthquake

97.4%

830717



Landslide

5.8%

49600



Extreme Temperature

100.0%

\$ 853037



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 45 / 63 PROVINCES

SCORE: 0.397

Vulnerability in Hoa Binh is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 32/63

3.0%

44.37

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 26/63

72.4

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

17.4

5.8% Acute Malnutrition

(Children <5)

29

(per 100,000

persons)

100.81 Tuberculosis Incidence

164.1

Malaria Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 8/63

60.0%

Households with Safe Water Access

42.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 50/63

2.0%

Adult Illiteracy

97.8% School Attendance

Rate

89.0% Households without Internet

5.0% Housholds without TV



Economic Constraints

Rank: 15/63

42.7

Rate

15.7%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 60/63

0.01

0.21

Income Inequality*

0.2%

Change

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 62/63

0.8%

Average Annual Urban Average Annual Population Population Change

1.1% Net Migration Rate

PDC Global



COPING CAPACITY (CC)

RANK: 54 / 63 PROVINCES

SCORE: 0.427

Hoa Binh exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 60/63

5.1 4,138 12.14

Income per Purchasing Capita (in 1,000 Power VND)

5.94 7.6

Business Entry Costs*
Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Time Cost*

Rank: 55/63

5.63
4.14
6.77
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 20/63

12.3% Protected Area



Infrastructure Capacity

Rank: 18/63



Health Care Capacity Rank: 16/63

97.3% 33.89 7 14.35 9.28

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 42/63

2,003 46.56
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 23/63

86.6%
Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 37 / 63 PROVINCES

SCORE: 0.515

Hoa Binh's score and ranking are due to low Vulnerability combined with very low Coping Capacity scores.

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







Economic Constraints



Economic Capacity





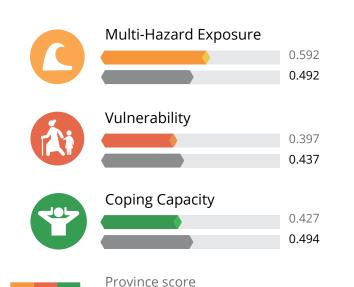


MULTI-HAZARD RISK

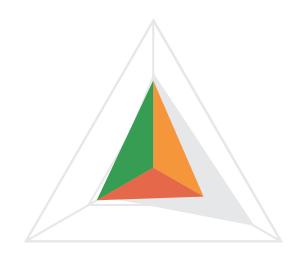
18 / 63 Rank within provinces Score: 0.521

Hoa Binh's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

HUNG YEN

NDPBA PROVINCE PROFILE



VIỆT NAM HUNG YEN

CAPITAL: HƯNG YÊN

Area: 1,069 km²

Neighboring Hanoi Capital to the southeast, Hung Yen province is located in the center of the Red River Delta. With delta topography features and plentiful water resource, the land is favorable for agriculture production. Hung Yen has been rapidly industrialized in recent years with 10 industrial parks in operation. With Hanoi expansion, the province is now rapidly developing new urban complexes and education institutions.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.552 • Rank: 9/63



RESILIENCE (R) - very low Score: 0.47 • Rank: 53/63



MULTI-HAZARD EXPOSURE - high Score: 0.595 • Rank: 22/63



VULNERABILITY (V) - low Score: 0.405 • Rank: 40/63



COPING CAPACITY (CC) - very low Score: 0.344 • Rank: 63/63



Population (2017) 1,203,304



Population in Poverty 3.5%



Illiterate population 5.2%



Access to improved water 99.9%



Average life expectancy 74.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 22 / 63 PROVINCES

SCORE: 0.595



Raw MHE 0.575 Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 77.4%

\$ 931848



Flood 41.7%

\$ 501616



Wildfire

6.4% 4 5.4% 5.4% 5.4% 6.4%



Earthquake 0.0%

≗ 0



0.0%



Extreme Temperature

100.0% \$\blue{1}203304



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 40 / 63 PROVINCES

SCORE: 0.405

Vulnerability in Hung Yen is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 1/63

0.0%

187.94

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 50/63

74.2

(years)

Life Expectancy

12.2 Infant Mortality Rate (per 1,000 6.5% Acute Malnutrition

(Children <5)

34.9 Tuberculosis Incidence

(per 100,000

persons)

0.26 Malaria

persons)

Prevalance (per 100,000 93.3

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 56/63

99.9% Households 78.6%

with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 41/63

5.2%

Rate

Adult Illiteracy

98.5% School

87.0% Households

5.0% Housholds

Rate

Attendance

without Internet

without TV



Economic Constraints

Rank: 41/63

Rank: 42/63

46.5

3.5%

Economic Dependency Poverty



Gender Inequality

0.12 0.21

Income

F M School Enrollment Rate* *Values closer to 1 represent greater

Population Pressures

Inequality*

Rank: 44/63

gender parity.

0.5% Average Annual Population

Change

2.4%

Average Annual Urban Population Change

3.3% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 63 / 63 PROVINCES

high (good).

SCORE: 0.344

Hung Yen exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 53/63

5.25 4,349

18.03 6.38

7.35

Income per Capita (in 1,000 VND) Purchasing Business
Power Support
Services*

Entry Costs*

Governance

Rank: 63/63

5.37 Law and Order*

Time Cost*

4.21

Informal Charges* Transparency*

5.62



Environmental Capacity

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 30/63



Health Care Capacity Rank: 21/63

97.8% Immunization Coverage 28.62 Healthbeds per

10,000 People

6.08
Physicians per 10,000 People

13.12 Nurses per 10,000 People 4.74
Distance to
Hospital (km)



Transportation Capacity Rank: 45/63

1,238

23.41

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 43/63

81.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 53 / 63 PROVINCES

SCORE: 0.47

Hung Yen's score and ranking are due to low Vulnerability combined with very low Coping Capacity scores.

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









Environmental Stress

Population Pressures

Governance

Economic Capacity

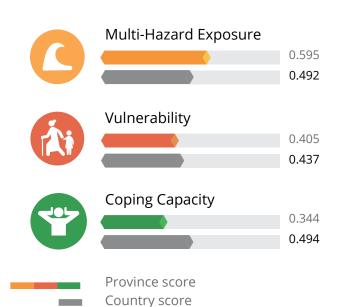


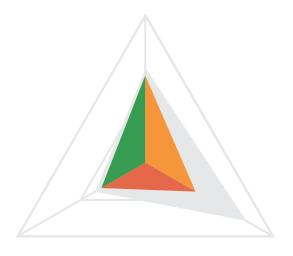
MULTI-HAZARD RISK

9 / 63
Rank within provinces
Score: 0.552

Hung Yen's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

KHANH HOA

NDPBA PROVINCE PROFILE



VIỆT NAM KHANH HOA

CAPITAL: NHA TRANG

Area: 4,851 km²

Lying along the coastline of South Central Viet Nam, Khanh Hoa province is well-known for its tourism attractions including beautiful natural landscapes and sand beaches, along with historical sites of the Cham ancient culture. The most famous places are Nha Trang, Van Phong, and Cam Ranh bays, of which Van Phong is one of the three Viet Nam's Exclusive Economic Zones. Khanh Hoa's economic activities include agriculture, industry, and services. Tourism is an important part of the province's economy and Khanh Hoa also has a number of marine protection areas.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.425 • Rank: 49/63



RESILIENCE (R) - high Score: 0.575 • Rank: 18/63



MULTI-HAZARD EXPOSURE - low Score: 0.424 • Rank: 44/63



VULNERABILITY (V) - low Score: 0.395 • Rank: 46/63



COPING CAPACITY (CC) - high Score: 0.546 • Rank: 15/63





Population (2017) 1,263,412



Population in Poverty 5.0%



Illiterate population 8.7%



Access to improved water 91.8%



Average life expectancy 73.50 years

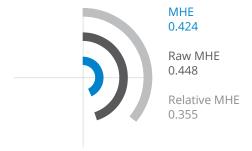
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 44 / 63 PROVINCES

SCORE: 0.424



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 17.3%



Wildfire 26.9% 2339805



Earthquake 0.0%





Extreme Temperature
20.1%

254174



Surge 1.1%



VULNERABILITY (V)

RANK: 46 / 63 PROVINCES

SCORE: 0.395

Vulnerability in Khanh Hoa is primarily driven by Gender Inequality and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

(

Rank: 51/63

1.1%

16.33

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 24/63

73.5

(years)

Life Expectancy

Infant Mortality Rate (per 1,000

live births)

7.0% Acute Malnutrition

(Children <5)

66.7
Tuberculosis Incidence

(per 100,000

persons)

101.43

Malaria Prevalance (per 100,000 persons) 191.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 46/63

91.8%

Access

Households with Safe Water 87.8% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 51/63

Rank: 46/63

8.7% Adult Illiteracy 93.9% School Attendance

Rate

75.0% Households without Internet 3.0% Housholds without TV



Economic Constraints

42.6

Rate

5.0%

Economic Dependency Ratio Poverty



Gender Inequality

V

Rank: 7/63

Rank: 22/63

0.17

0.43

Income Inequality*

Average Annual Population

Change

F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

0.8% 2.7%

7.9%

Average Annual Urban Population Change Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 15 / 63 PROVINCES

high (good).

SCORE: 0.546

Khanh Hoa exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 8/63

6.9

Business

Support Services*

6.23 4,144
Time Cost* Income per

51.38
Purchasing
Power

8.05

Entry Costs*

Governance

Rank: 29/63 5.46 5.6 6.66

Capita (in 1,000

Law and Order*

Informal Transparency*
Charges*



Environmental Capacity

Rank: 31/63

7.2%

Protected Area



Infrastructure Capacity

Rank: 26/63



Health Care Capacity Rank: 42/63

97.4% Immunization Coverage 27.43
Healthbeds per 10,000 People

5.16
Physicians per 10,000 People

14.21 Nurses per 10,000 People 21.21 Distance to Hospital (km)



Transportation Capacity Rank: 20/63

3,749

29.58

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 26/63

85.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 18 / 63 PROVINCES

SCORE: 0.575

Khanh Hoa's score and ranking are due to low Vulnerability combined with high Coping Capacity scores.

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











Health Care Capacity



MULTI-HAZARD RISK

Prėssures

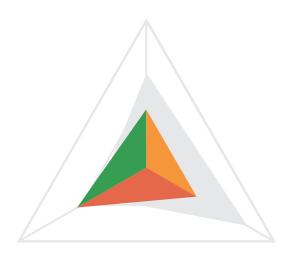
49 / 63 Rank within provinces Score: 0.425

Khanh Hoa's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM KIEN GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM KIEN GIANG

CAPITAL: RẠCH GIÁ

Area: 6,524 km²

Kien Giang is a coastal province located in the west of the Mekong Delta sharing a border with Cambodia to the northwest and facing the Gulf of Thailand in the southwest. Covered mostly by agricultural land and long coastline, fishing, aquaculture, and rice production are leading economic activities of Kien Giang. Among all the province's attractive landscapes, Phu Quoc island is particularly famous for tourism and the traditional high-quality fish sauce. Recently, Phu Quoc became one of the three Viet Nam's Exclusive Economic Zones.





MULTI-HAZARD RISK - very low Score: 0.42 • Rank: 51/63



RESILIENCE (R) - high Score: 0.588 • Rank: 14/63



MULTI-HAZARD EXPOSURE - low Score: 0.435 • Rank: 42/63



VULNERABILITY (V) - high Score: 0.466 • Rank: 17/63



COPING CAPACITY (CC) - very high Score: 0.641 • Rank: 5/63



Population (2017) 1,819,127



Population in Poverty 3.6%



Illiterate population 12.1%



Access to improved water 91.9%



Average life expectancy 74.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 42 / 63 PROVINCES

SCORE: 0.435



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1794166



Flood 44.0%

2 800484



Wildfire

7.1%



Earthquake 0.0%

e n



Landslide 0.0%

2 0



Extreme Temperature

0.0%

2 0





VULNERABILITY (V)

RANK: 17 / 63 PROVINCES

SCORE: 0.466

Vulnerability in Kien Giang is primarily driven by Information Access Vulnerability and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 29/63

-5.9%

15.07

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 41/63

74.2

(years)

Life Expectancy

12.6 Infant Mortality Rate (per 1,000 6.7% Acute Malnutrition

(Children <5)

94.1 Tuberculosis

Incidence

persons)

(per 100,000

0.63

Malaria Prevalance (per 100,000 persons)

196.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 21/63

91.9%

48.4%

Households Households with with Safe Water Access

Hygienic Toilet Access



Information Access Vulnerability

Rank: 7/63

12.1% Adult Illiteracy Rate

77.4% School Attendance

Rate

90.0% Households without Internet

8.0% Housholds without TV



Economic Constraints

Rank: 54/63

43.3

3.6%

Economic Dependency Poverty



Gender Inequality

0.24 0.2

Income

F M School Enrollment Rate* Inequality*

Rank: 18/63

Rank: 42/63

*Values closer to 1 represent greater gender parity.

Population Pressures

0.9%

Average Annual Population

2.0%

Average Annual Urban Population Change

2.1%

Net Migration Rate

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 5 / 63 PROVINCES

high (good).

SCORE: 0.641

Kien Giang exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 11/63

7.56 4,130 Income of

35.97
Purchasing

Power

8.39

Income per Capita (in 1,000

Charges*

Business Support Services*

7.1

Entry Costs*

Governance

6.15 6.85 5.78

Law and Order* Informal Transparency*



Environmental Capacity

Rank: 2/63

49.8% Protected Area



Infrastructure Capacity

Rank: 9/63



Health Care Capacity Rank: 26/63

 97.6%
 28.37
 5.76
 13.69
 11.07

 Immunization Coverage
 Healthbeds per 10,000 People 10



Transportation Capacity Rank: 10/63

4,749 21.05
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 13/63

88.4% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 14 / 63 PROVINCES

SCORE: 0.588

Kien Giang's score and ranking are due to high Vulnerability combined with very high Coping Capacity scores.

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







Clean Water Access Vulnerability



Health Care Capacity



Governance



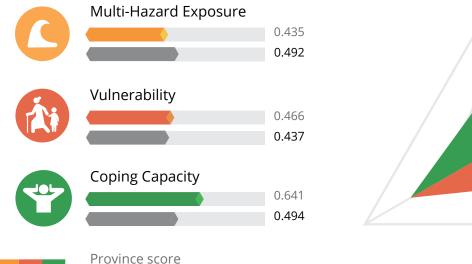
MULTI-HAZARD RISK

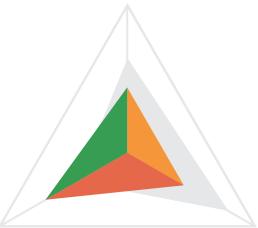
Country score

51 / 63
Rank within provinces
Score: 0.42

Kien Giang's score and ranking are due to low Multi-hazard exposure combined with high Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

KON TUM

NDPBA PROVINCE PROFILE



VIỆT NAM KON TUM

CAPITAL: KON TUM

Area: 8,718 km²

As the northern-most province of the Viet Nam's Central Highland, Kon Tum shares borders with Laos and Cambodia. With more than 50% forest cover and interleaved terrain of mountains and plateau, the province's economy is based on forest products and agriculture. Kon Tum is known for its diversified indigenous culture of Ba Na, Brau, Gie Trieng, Jarai, Ro Mam and, Xo Dang ethnic groups, valuable plants (e.g., Ngoc Linh ginseng) and plentiful birds species.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.592 • Rank: 4/63



RESILIENCE (R) - very low Score: 0.391 • Rank: 61/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.559 • Rank: 28/63



VULNERABILITY (V) - very high Score: 0.633 • Rank: 4/63



COPING CAPACITY (CC) - very low Score: 0.414 • Rank: 56/63



Population (2017) **525,874**



Population in Poverty 16.5%



Illiterate population 40.8%



Access to improved water 69.7%



Average life expectancy 66.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 28 / 63 PROVINCES

SCORE: 0.559



MHE 0.559 Raw MHE 0.283 Relative MHE 0.593

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood
14.9%
2 78476



Wildfire 66.8% **3**51211



Earthquake
0.0%



Landslide
0.0%

▲ 0



Extreme Temperature 78.6%

413233



Surge 0.0% 0



VULNERABILITY (V)

RANK: 4 / 63 PROVINCES

SCORE: 0.633

Vulnerability in Kon Tum is primarily driven by Vulnerable Health Status and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 57/63

-1.0%

8.96

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 3/63

66 (years)

Life Expectancy

38.1 Infant Mortality Rate (per 1,000 7.6% Acute Malnutrition (Children <5) 44.7 Tuberculosis Incidence

(per 100,000

persons)

Malaria Prevalance (per 100,000

persons)

148.03

51.5

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 12/63

69.7%

Households with Safe Water Access

53.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 6/63

Rank: 5/63

Rank: 10/63

40.8% Adult Illiteracy

Rate

School

85.5%

86.0% Households 12.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

58.5 16.5%

Economic Dependency Ratio

Poverty



Gender Inequality

0.1

0.52

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 3/63 2.9% 3.8% 15.1%

Average Annual Population Change

Average Annual Urban Population

Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 56 / 63 PROVINCES

high (good).

SCORE: 0.414

Kon Tum exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 20/63

5.55 5,076
Time Cost* Income per

23.92
Purchasing
Power

6.32
Business
Support
Services*

7.79

ness Entry Costs*



Governance

Rank: 59/63

5.05 4.46 6.33

Law and Order* Informal Charges* Transparency*

Capita (in 1,000

VND)



Environmental Capacity

Rank: 26/63

9.9%

Protected Area



Infrastructure Capacity

Rank: 57/63



Health Care Capacity Rank: 14/63

 95.9%
 37.9
 9.38
 20.4
 23.25

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 60/63

2,613
Road Density
(km per sq. km)

142.43
Distance to Airport or Seaport (km)



Communications Capacity Rank: 61/63

68.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 61 / 63 PROVINCES

SCORE: 0.391

Kon Tum's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Clean Water Access Vulnerability



Transportation Capacity



Governance

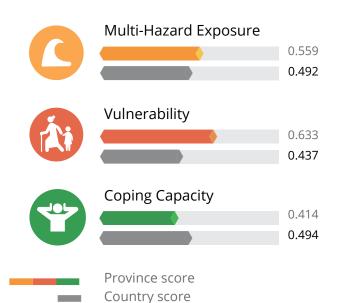


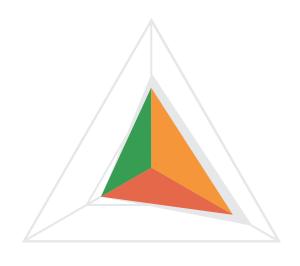
MULTI-HAZARD RISK

4 / 63
Rank within provinces
Score: 0.592

Kon Tum's score and ranking are due to moderate Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM _____

NDPBA PROVINCE PROFILE



VIỆT NAM LAI CHAU

CAPITAL: LAI CHÂU

Area: 10,636 km²

Located in the Northwest region of Viet Nam, Lai Chau shares a border with China to the north. The province's terrain is comprised of high and steep mountains and hills alternated with deep and narrow valleys, which are prone to frequent flash flood and landslide. Lai Chau is sparsely populated with Tai, Hmong, Kinh, Giay, and Dao people and one of the poorest provinces of the country.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.567 • Rank: 6/63



RESILIENCE (R) - very low Score: 0.348 • Rank: 63/63



MULTI-HAZARD EXPOSURE - low Score: 0.396 • Rank: 46/63



VULNERABILITY (V) - very high Score: 0.667 • Rank: 1/63



COPING CAPACITY (CC) - very low Score: 0.362 • Rank: 61/63



Population (2017) **426,354**



Population in Poverty 31.5%



Illiterate population 7.4%



Access to improved water 22.6%



Average life expectancy 65.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 46 / 63 PROVINCES

SCORE: 0.396



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

2 0

₩

Flood 11.7% ▲ 49905

W

Wildfire 78.9% ▲ 336485

_-\\\

Earthquake 93.0% ▲ 396700

MÈ

9.8% ▲ 41572

Landslide

Extreme Temperature
21.0%

89601

Surge 0.0% ♣ 0



VULNERABILITY (V)

RANK: 1 / 63 PROVINCES

SCORE: 0.667

Vulnerability in Lai Chau is primarily driven by Economic Constraints and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 58/63

1.3%

13.44

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 1/63

65.1 (years)

Life Expectancy

41.9

6.9% Acute

21.2

174.81 Malaria

512.4

Infant Mortality Rate (per 1,000 live births)

Malnutrition (Children <5)

Tuberculosis Incidence Prevalance (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 1/63

Access

Rate

22.6% Households with Safe Water

30.0% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 2/63

7.4% Adult Illiteracy

74.1% School Attendance 91.0% Households without Internet

29.0% Housholds without TV



Economic Constraints

Rate

Rank: 1/63

65.7 Economic Dependency

Ratio

31.5% Poverty

Gender Inequality

Rank: 56/63

0.07

0.17

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 8/63 5.8%

1.9% Average Annual Population Change

Average Annual Urban Population Change

1.4% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 61 / 63 PROVINCES

high (good).

SCORE: 0.362

Lai Chau exhibits weaker Coping Capacity in the areas of Transportation Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 38/63

5.71 4,860
Time Cost* Income per

8.08
Purchasing
Power

6.28 8.04

Business Support Services* Entry Costs*



Governance

Rank: 44/63 6.82 4.12 6.16

Capita (in 1,000

VND)

Law and Order*

Informal Transparency*
Charges*



Environmental Capacity

Rank: 46/63

2.3%

Protected Area



Infrastructure Capacity

Rank: 62/63



Health Care Capacity Rank: 23/63

93.3% Immunization Coverage 36.99 Healthbeds per 10,000 People 7.85
Physicians per 10,000 People

23.74 Nurses per 10,000 People 18.75 Distance to Hospital (km)



Transportation Capacity Rank: 63/63

949

167.14

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 62/63

62.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 63 / 63 PROVINCES

SCORE: 0.348

Lai Chau's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Clean Water Access Vulnerability



Transportation Capacity



Communications Capacity



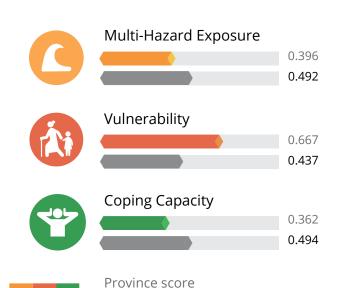
MULTI-HAZARD RISK

6 / Rank Scorr

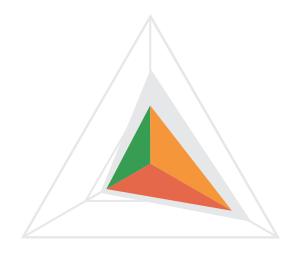
6 / 63 Rank within provinces Score: 0.567

Lai Chau's score and ranking are due to low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

LAM DONG

NDPBA PROVINCE PROFILE



VIỆT NAM LAM DONG

CAPITAL: ĐÀ LẠT

Area: 10,279 km²

As the southern-most province of the Viet Nam's Central Highland, Lam Dong is a popular tourism destination for its abundant natural landscapes and cool weather all year round. The province also has deeply-rooted culture of indigenous people such as Co Ho, Ma, and Chu Ru ethnic groups. Da Lat, the capital city of the province, is attracting more than three million tourists each year. Besides tourism, the provincial economy is also based on hydropower generation and agriculture plantation. Main products include tea, coffee, and vegetables. Lam Dong is well known for high-tech agriculture.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.384 • Rank: 59/63



RESILIENCE (R) - very high Score: 0.588 • Rank: 13/63



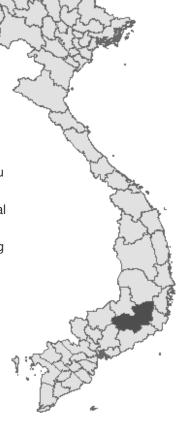
MULTI-HAZARD EXPOSURE - low Score: 0.328 • Rank: 50/63



VULNERABILITY (V) - low Score: 0.379 • Rank: 49/63



COPING CAPACITY (CC) - very high Score: 0.555 • Rank: 12/63





Population (2017) 1,363,189



Population in Poverty 6.0%



Illiterate population 3.3%



Access to improved water 84.1%



Average life expectancy 72.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 50 / 63 PROVINCES

SCORE: 0.328



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1363189



10.5%

M

Wildfire 20.7%

2 282274



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

0.0%

2 0



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 49 / 63 PROVINCES

SCORE: 0.379

Vulnerability in Lam Dong is primarily driven by Clean Water Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 40/63

-2.3%

15.53

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 20/63

72.6

16.3 Infant Mortality 7.7% Acute

22.7

38.07 Malaria Prevalance (per 100,000 persons)

111.6

Life Expectancy (years)

Rate (per 1,000 live births)

Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 36/63

84.1%

80.8% Households with Safe Water

Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 48/63

3.3% Adult Illiteracy

Rate

90.2% School

76.0%

5.0%

Attendance Rate

Households without Internet Housholds without TV



Economic Constraints

Rank: 33/63

46.9

6.0%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 50/63

0.02

0.34

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 31/63 1.6%

1.3% Average Annual Population

Average Annual Urban

2.9% Net Migration Rate

Population Change

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 12 / 63 PROVINCES

high (good).

SCORE: 0.555

Lam Dong exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 28/63

6.56 4,611
Time Cost* Income per

6.62

7.51

Income per Capita (in 1,000 VND) Business Support Services* Entry Costs*



Governance

Rank: 24/63 6.03 5.16 6.65

Law and Order*

Informal Charges* Transparency*

25.96

Power

Purchasing



Environmental Capacity

Rank: 7/63

31.4%

Protected Area



Infrastructure Capacity

Rank: 16/63



Health Care Capacity Rank: 37/63

 98.7%
 23.98
 6.09
 13.17
 23.08

 Immunization Coverage
 Healthbeds per 10,000 People 10



Transportation Capacity Rank: 8/63

6,630 33.91

Road Density Dis-(km per sq. km) or S

Distance to Airport or Seaport (km)



Communications Capacity Rank: 22/63

86.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 13 / 63 PROVINCES

SCORE: 0.588

Lam Dong's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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



Clean Water Access Vulnerability



Vulnerable Health Status



Economic Capacity



Health Care Capacity

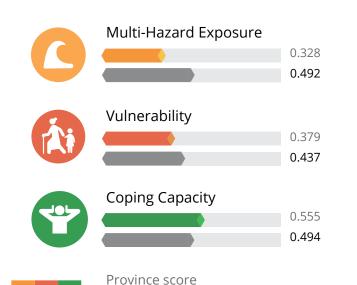


MULTI-HAZARD RISK

59 / 63
Rank within provinces
Score: 0.384

Lam Dong's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

LANG SON

NDPBA PROVINCE PROFILE



VIỆT NAM LANG SON

CAPITAL: LANG SON

Area: 9,723 km²

Located in the Northeast region of Viet Nam and 80% of total area covered by mountains and forests, Lang Son is strategically important by sharing two international border gates with China and being accessible by highway and rail to Hanoi capital. The provincial economy is mainly based on international trade (with China), service, agriculture, and forestry, and in recent years is mineral resources exploitation. Lang Son is the home to seven main ethnic groups namely Nung, Tay, Kinh, Dao, Hoa, San Chay, and Hmong people.





MULTI-HAZARD RISK - low Score: 0.44 • Rank: 45/63



RESILIENCE (R) - very low Score: 0.458 • Rank: 54/63



MULTI-HAZARD EXPOSURE - very low Score: 0.235 • Rank: 59/63



VULNERABILITY (V) - very high Score: 0.486 • Rank: 13/63



COPING CAPACITY (CC) - very low Score: 0.403 • Rank: 59/63



Population (2017) **785,291**



Population in Poverty 16.2%



Illiterate population 16.7%



Access to improved water 55.8%



Average life expectancy 71.90 years

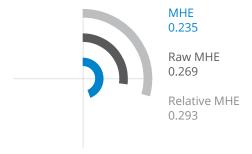
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 59 / 63 PROVINCES

SCORE: 0.235



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

5.8%

45425



Flood

16.6% ▲ 129969



Wildfire

6.3%

49467



Earthquake

0.0%



Landslide

1.5%



Extreme Temperature

100.0%

2 785291



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 13 / 63 PROVINCES

SCORE: 0.486

Vulnerability in Lang Son is primarily driven by Clean Water Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 55/63

3.5%

22.65

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 10/63

71.9

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

18.3

10.4% Acute Malnutrition

(Children <5)

47.5
Tuberculosis
Incidence

(per 100,000

persons)

Malaria Prevalance (per 100,000

20.98

persons)

220.4

HIV Prevalance (per 100,000 persons)

0

Clean Water Vulnerability

Rank: 6/63

55.8%

Households with Safe Water Access Households with Hygienic Toilet Access

Information Access Vulnerability

34.8%

Rank: 15/63

Rank: 17/63

16.7%

Adult Illiteracy

96.4% School 88.0%

8.0%

Rate Attendance Rate Households without Internet

Housholds without TV



Economic Constraints

41.6

16.2%

Economic Dependency Poverty



Gender Inequality

Rank: 48/63

0.03

0.34

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 57/63

0.5%
Average Annual Population Change

0.9% Average Annual Urban Population Change 2.9% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 59 / 63 PROVINCES

high (good).

SCORE: 0.403

Lang Son exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 46/63

4,703 19.29

6.72

2 6.92
ess Entry Costs*

5.96 Time Cost*

Income per Purchasing Capita (in 1,000 Power VND)

Business Entr Support Services*



Governance

Rank: 58/63

5.36 Law and Order* 4.48 6.13
Informal Transpa

Transparency*



Environmental Capacity

Charges*

Rank: 50/63

1.4%

Protected Area



Infrastructure Capacity

Ra





Health Care Capacity Rank: 8/63

98.4% Immunization Coverage 34.01 Healthbeds per 10,000 People 8.72 Physicians per 10,000 People 16.78 Nurses per 10,000 People 14.65
Distance to
Hospital (km)



Transportation Capacity Rank: 55/63

1,727

85.42

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 48/63

79.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 54 / 63 PROVINCES

SCORE: 0.458

Lang Son's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Vulnerable Health Status



Governance



Transportation Capacity

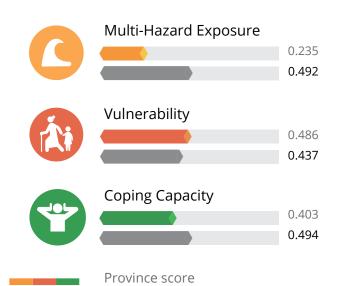


MULTI-HAZARD RISK

45 / 63
Rank within provinces
Score: 0.44

Lang Son's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





NDPBA PROVINCE PROFILE



VIỆT NAM LAO CAI

CAPITAL: LÀO CAI

Area: 7,464 km²

Lao Cai province is located in the Northwest mountainous region of Viet Nam, sharing a border with China to the north. The province is home to 25 ethnic groups including the minority people of Hmong, Tay, Dao, Giay, and Nùng. Lao Cai possesses diverse natural environment including Fansipan peak (highest in the country) and Hoang Lien national park. The province's economy is based on international trade (with China), agriculture, forestry, mining, and tourism. Sa Pa town is a famous tourist destination in Viet Nam.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.346 • Rank: 61/63



RESILIENCE (R) - low Score: 0.495 • Rank: 46/63



MULTI-HAZARD EXPOSURE - very low Score: 0.028 • Rank: 63/63



VULNERABILITY (V) - very high Score: 0.507 • Rank: 11/63



COPING CAPACITY (CC) - high Score: 0.497 • Rank: 23/63



Population (2017) **725,854**



Population in Poverty 21.4%



Illiterate population 4.8%



Access to improved water 41.2%



Average life expectancy 68.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 63 / 63 PROVINCES

SCORE: 0.028



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%





Wildfire 21.8% 158552







Extreme Temperature
4.3%

31318





VULNERABILITY (V)

RANK: 11 / 63 PROVINCES

SCORE: 0.507

Vulnerability in Lao Cai is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 36/63

1.2%

32.9

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 11/63

68.6

Life Expectancy (years)

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

5.8% Acute Malnutrition

(Children <5)

21.6 Tuberculosis

Incidence

persons)

(per 100,000

27.36 Malaria

Prevalance (per 100,000 persons)

316.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 10/63

41.2%

Households with Safe Water Access

53.1% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 8/63

4.8%

Rate

Adult Illiteracy

87.6% School Attendance

98.0% Households

without Internet

12.0% Housholds

Rank: 6/63

without TV

Economic Constraints

Rate

51.5

21.4%

Economic Dependency Poverty



Gender Inequality

Rank: 63/63

0

0.04

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 26/63

1.6% Average Annual Population

Change

2.9%

2.0%

Average Annual Urban Population Change

Net Migration Rate



COPING CAPACITY (CC)

RANK: 23 / 63 PROVINCES

SCORE: 0.497

Lao Cai exhibits weaker Coping Capacity in the areas of Transportation Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 15/63

6.12 5,143 18.78 Time Cost*

Purchasing Income per Capita (in 1,000 Power VND)

7.35 7.37 Business Entry Costs* Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Rank: 28/63 6.34 6.32 5.57

Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 33/63

6.9%

Protected Area



Infrastructure Capacity

Rank: 48/63



Health Care Capacity Rank: 5/63

14.7 96.6% 44.87 8.07 21.45 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 61/63

2,330 137.78 Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 60/63

70.4% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 46 / 63 PROVINCES

SCORE: 0.495

Lao Cai's score and ranking are due to very high Vulnerability combined with high Coping Capacity scores.

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







Economic Constraints



Transportation Capacity



Communications Capacity



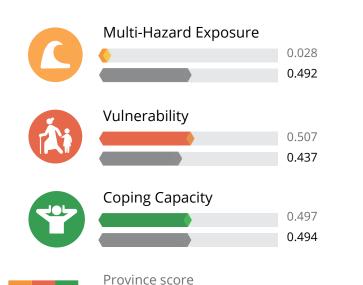
MULTI-HAZARD RISK

Ra Sc

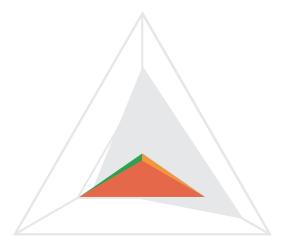
61 / 63 Rank within provinces Score: 0.346

Lao Cai's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

LONG AN

NDPBA PROVINCE PROFILE



VIỆT NAM **LONG AN**

CAPITAL: TÂN AN

Area: 4,683 km²

Neighboring Ho Chi Minh City to the south and west, Long An is a province in the Mekong Delta, sharing a border with Cambodia to the west and facing East Sea to the east. The relatively flat terrain with the complex river and canal system of Long An provides good conditions for agriculture and aquaculture. The province is one of the main rice and fruit producers in Viet Nam. Long An has rapidly industrialized with around 35 industrial parks in operation. Being a low-lying coastal region, the province is susceptible to floods and rises in sea level.



RISK AND VULNERABILITY **COMPONENT SCORE**



MULTI-HAZARD RISK - moderate Score: 0.481 • Rank: 29/63

RESILIENCE (R) - very high Score: 0.608 • Rank: 8/63



MULTI-HAZARD EXPOSURE - very high

Score: 0.658 • Rank: 10/63



VULNERABILITY (V) - low Score: 0.389 • Rank: 47/63



COPING CAPACITY (CC) - very high

Score: 0.604 • Rank: 7/63



Population (2017) 1,572,531



Population in Poverty 5.0%



Illiterate population 2.0%



Access to improved water 96.5%



Average life expectancy 75.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 10 / 63 PROVINCES

SCORE: 0.658



MHE 0.658 Raw MHE 0.655 Relative MHE 0.698

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 91.5% **1**439610



Wildfire 14.9% **2** 233628



0.0%



Landslide 0.0%



Extreme Temperature 26.3% **4**13937



Surge



VULNERABILITY (V)

RANK: 47 / 63 PROVINCES

SCORE: 0.389

Vulnerability in Long An is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 18/63

-10.5%

28.84

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 58/63

75.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

5.6% Acute Malnutrition (Children <5) 73.9 Tuberculosis Incidence

(per 100,000

persons)

0.68 Malaria Prevalance (per 100,000 persons)

146.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

9.5

Rank: 42/63

96.5% Households

Access

71.1% with Safe Water

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 45/63

2.0%

Adult Illiteracy Rate

91.0% School Attendance

89.0% Households 3.0%

Housholds without Internet without TV

Rank: 55/63



Economic Constraints

Rate



5.0%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 11/63

0.15

0.43

Income F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 51/63

0.7% Average Annual Population

Change

1.3% Average Annual Urban Population

Change

3.0% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 7 / 63 PROVINCES

high (good).

SCORE: 0.604

Long An exhibits weaker Coping Capacity in the areas of Health Care Capacity and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 12/63

6.49

7.6 4,407

32.23

8.71

Income per Capita (in 1,000 Purchasing Business
Power Support
Services*

Entry Costs*



Governance

Rank: 3/63
7.2 6.83 6.52

Law and Order*

Informal Charges* Transparency*



Environmental Capacity

Rank: 51/63

1.1%

Protected Area



Infrastructure Capacity

Rank: 24/63



Health Care Capacity Rank: 45/63

97.4% Immunization Coverage 25.53 Healthbeds per 10,000 People 5.66 Physicians per

10,000 People

11.95 Nurses per

10,000 People

19.29 Distance to Hospital (km)



Transportation Capacity Rank: 6/63

6,714

27.12

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 40/63

82.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 8 / 63 PROVINCES

SCORE: 0.608

Long An's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Environmental Stress



Health Care Capacity



Environmental Capacity



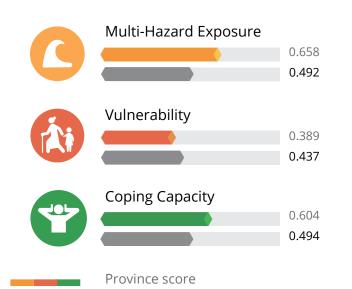
MULTI-HAZARD RISK



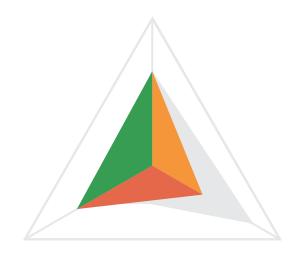
29 / 63
Rank within provinces
Score: 0.481

Long An's score and ranking are due to very high Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM DINH

NDPBA PROVINCE PROFILE



VIỆT NAM NAM DINH

CAPITAL: NAM ĐỊNH

Area: 1,845 km²

Located in the southeastern part of the Red River Delta, Nam Dinh is a province with rich historical and cultural heritages. The province's terrain is comprised of hollow delta, coastal delta, and sand banks, with three big river systems and five river mouths along the sea coast. Xuan Thuy national park is a RAMSA biosphere reserve. The provincial economy is based on agriculture, forestry, service, and industrial manufacturing (in six industrial zones and 17 industrial clusters).



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.561 • Rank: 7/63



RESILIENCE (R) - high Score: 0.553 • Rank: 21/63



MULTI-HAZARD EXPOSURE - very high Score: 0.789 • Rank: 2/63



VULNERABILITY (V) - very low Score: 0.349 • Rank: 55/63



COPING CAPACITY (CC) - low Score: 0.454 • Rank: 41/63



Population (2017) 1,897,975



Population in Poverty 3.8%



Illiterate population 3.0%



Access to improved water 99.9%



Average life expectancy 74.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 2 / 63 PROVINCES

SCORE: 0.789



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 68.4%

1298140



Wildfire 0.0%



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature 100.0%

1897975



Surge



VULNERABILITY (V)

RANK: 55 / 63 PROVINCES

SCORE: 0.349

Vulnerability in Nam Dinh is primarily driven by Environmental Stress and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 7/63

-1.8%

134.69

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 45/63

51

Incidence

persons)

(per 100,000

74.1 (years)

Life Expectancy

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

5.4% Acute Malnutrition

(Children <5)

Tuberculosis

27.74 Malaria Prevalance (per 100,000 persons)

212.8

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 59/63

Access

99.9% Households with Safe Water 86.5%

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 49/63

3.0% Adult Illiteracy

Rate

99.7% School Rate

without Internet

87.0% Households

Attendance

5.0% Housholds without TV



Economic Constraints



Rank: 36/63

Rank: 32/63

48.5 Economic

Dependency Ratio

Poverty



Gender Inequality

0.22 0.16

Income Inequality*

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 61/63

0.0% Average Annual Population Change

1.9% Average Annual Urban Population

Change

4.7% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 41 / 63 PROVINCES

high (good).

SCORE: 0.454

Nam Dinh exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 55/63

6.69 4,176
Time Cost* Income p

14.61

6.35

7.62

Income per Capita (in 1,000 VND) Purchasing Power

Business Support Services* Entry Costs*



Governance

Rank: 48/63 6.73 4.62 5.33

Law and Order* Info

Informal Charges* Transparency*



Environmental Capacity

Rank: 5/63

33.0%

Protected Area



Infrastructure Capacity

Rank: 42/63



Health Care Capacity Rank: 40/63

97.0% 27.73
Immunization Healthbeds per

4.62

10.02

6.19

Coverage

10,000 People

Physicians per Nurses per 10,000 People 10,000 People

Distance to Hospital (km)



Transportation Capacity Rank: 34/63

1,784

15.85

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 41/63

82.2%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 21 / 63 PROVINCES

SCORE: 0.553

Nam Dinh's score and ranking are due to very low Vulnerability combined with low Coping Capacity scores.

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









Environmental Stress

Gender Inequality

Governance

Economic Capacity



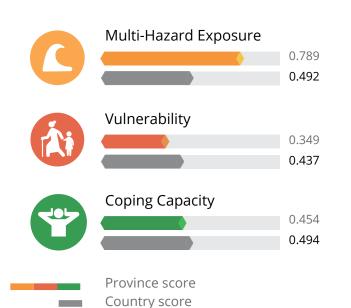
MULTI-HAZARD RISK

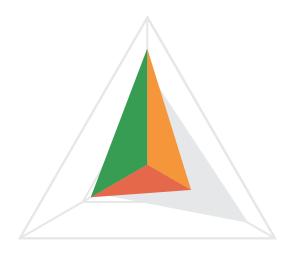


7 / 63
Rank within provinces
Score: 0.561

Nam Dinh's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

NGHE AN

NDPBA PROVINCE PROFILE



VIỆT NAM NGHE AN

CAPITAL: VINH

Area: 18,637 km²

Nghe An is the largest province located in the North Central Coastal region of Viet Nam, sharing a border with Laos to the west. The province is two thirds natural forested area and has a large reserve of minerals, especially limestone. Nghe An is rich in natural resources, scenery, and beaches with a long history and deep-rooted culture in Vi Dam folk music. The province's economy is based on agriculture, forestry, mining, and an industrial focus with 13 large industrial zones, producing cement, white stone, sugar, and milk.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.568 • Rank: 5/63



RESILIENCE (R) - moderate Score: 0.539 • Rank: 25/63



MULTI-HAZARD EXPOSURE - very high Score: 0.781 • Rank: 3/63



VULNERABILITY (V) - moderate Score: 0.432 • Rank: 29/63



COPING CAPACITY (CC) - high Score: 0.51 • Rank: 21/63



Population (2017) 3,123,992



Population in Poverty 12.3%



Illiterate population 2.2%



Access to improved water 86.5%



Average life expectancy 72.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 3 / 63 PROVINCES

SCORE: 0.781



MHE 0.781

Raw MHE 0.88

Relative MHE 0.745

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

3111836



Flood **22.7%**

2 708321



Wildfire

8.1% **2**51738



Earthquake 0.0%

10



6.5% 203873



Extreme Temperature

100.0% **1** 3123992



Surge

0.0%



VULNERABILITY (V)

RANK: 29 / 63 PROVINCES

SCORE: 0.432

Vulnerability in Nghe An is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 33/63

2.9%

43.35

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 33/63

72.5

Life Expectancy (years)

16.8 Infant Mortality Rate (per 1,000

live births)

5.8% Acute Malnutrition

(Children <5)

33.5 Tuberculosis

Incidence

persons)

(per 100,000

19.89 Malaria

persons)

Prevalance (per 100,000 214.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 13/63

86.5%

Households with Safe Water Access

41.3% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 46/63

2.2% Adult Illiteracy

97.7% School

86.0% Households

7.0% Housholds

Rate

Attendance without Internet without TV



Economic Constraints

Rate

Rank: 21/63

44.5

12.3%

Economic Dependency Poverty



Gender Inequality

Rank: 40/63

0.11

0.23

Income Inequality*

Population

Change

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 37/63

0.6% Average Annual

3.9%

Change

Average Annual Urban Population

1.1%

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 21 / 63 PROVINCES

high (good).

SCORE: 0.51

Nghe An exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 19/63

6.72 4,576 Time Cost*

15.48

7.45

7.85

Income per

Purchasing Capita (in 1,000 Power

Business Support Services* Entry Costs*



Governance

Rank: 45/63

Law and Order*

5.13

4.68 Informal Charges* 6.38 Transparency*



Environmental Capacity

Rank: 1/63

78.6%

Protected Area



Infrastructure Capacity

Rank: 59/63



Health Care Capacity Rank: 53/63

94.3% 30.3 Immunization

5.31 Healthbeds per

12.9 Physicians per Nurses per

10,000 People

18.14 Distance to Hospital (km)



Coverage

Transportation Capacity Rank: 58/63

10,000 People

5,719

167.31

Road Density (km per sq. km)

Distance to Airport or Seaport (km)

10,000 People



Communications Capacity Rank: 32/63

83.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 25 / 63 PROVINCES

SCORE: 0.539

Nghe An's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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







Economic Constraints



Transportation Capacity



Governance

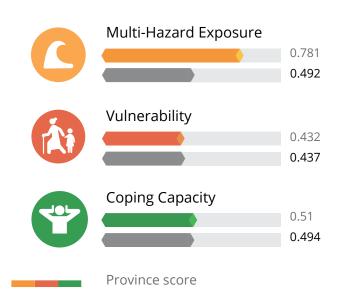


MULTI-HAZARD RISK

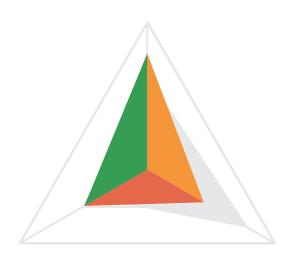
5 / 63 Rank within provinces Score: 0.568

Nghe An's score and ranking are due to very high Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

NINH BINH

NDPBA PROVINCE PROFILE



VIỆT NAM NINH BINH

CAPITAL: NINH BÌNH

Area: 1,558 km²

Located in the southern Red River Delta, Ninh Binh province is famous for a high density of natural and cultural attractions, including Trang An landscape complex (UNESCO World Heritage site), Cuc Phong National Park, historic monuments in the Hoa Lu ancient capital. Ninh Binh is also known for having a large catholic population. The province's economic activities include tourism, industrial manufacturing (mostly construction materials in seven large industrial zones), mining, service, and agriculture.

S

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.53 • Rank: 15/63



RESILIENCE (R) - moderate Score: 0.523 • Rank: 32/63



MULTI-HAZARD EXPOSURE - high Score: 0.636 • Rank: 16/63



VULNERABILITY (V) - high Score: 0.438 • Rank: 26/63



COPING CAPACITY (CC) - moderate Score: 0.484 • Rank: 29/63



Population (2017) 929,776



Population in Poverty 5.5%



Illiterate population 12.5%



Access to improved water 97.4%



Average life expectancy 73.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 16 / 63 PROVINCES

SCORE: 0.636



MHE 0.636

Raw MHE 0.542

Relative MHE 0.858

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood

54.9% **\$** 510056



Wildfire

0.0%



Earthquake

0.0%



Landslide 0.0%



Extreme Temperature

100.0%

2 929776



Surge



VULNERABILITY (V)

RANK: 26 / 63 PROVINCES

SCORE: 0.438

Vulnerability in Ninh Binh is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 14/63

-0.2%

85.9

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 39/63

73.4

(years)

Life Expectancy

14.3 Infant Mortality Rate (per 1,000

live births)

5.5% Acute Malnutrition

(Children <5)

37.9

persons)

Tuberculosis Incidence (per 100,000

287.1

Malaria Prevalance (per 100,000 persons)

53.75

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 47/63

97.4%

Access

Households with Safe Water

75.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 22/63

12.5% Adult Illiteracy

Rate

96.6% School Attendance

Rate

87.0% Households 5.0%

Rank: 28/63

without Internet

Housholds without TV



Economic Constraints

48.6 5.5%

Economic Dependency Ratio

Poverty

Gender Inequality

0.12 0.4

Income

F M School Enrollment Rate* Inequality*

Rank: 17/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 29/63 0.6% 3.5% 3.8%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate



COPING CAPACITY (CC)

RANK: 29 / 63 PROVINCES

SCORE: 0.484

Ninh Binh exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 62/63

7.03 3,960 24.65 Time Cost* Income per Purchasir

Income per Purchasing Capita (in 1,000 Power VND)

4.94 7.7

Business Entry Costs*
Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Rank: 20/63
6.13 6.1 6.09

Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 11/63

20.6% Protected Area



Infrastructure Capacity

Rank: 25/63



Health Care Capacity Rank: 22/63

 97.4%
 30.72
 6.79
 12.82
 9.2

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 33/63

2,356 31.36
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 44/63

81.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 32 / 63 PROVINCES

SCORE: 0.523

Ninh Binh's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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













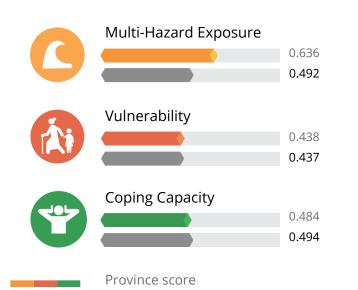


MULTI-HAZARD RISK

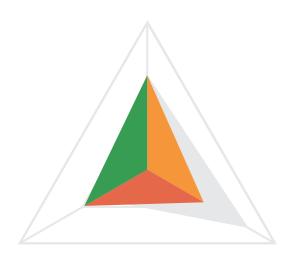
15 / 63 Rank within provinces Score: 0.53

Ninh Binh's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

NINH THUAN

NDPBA PROVINCE PROFILE



VIỆT NAM NINH THUAN

CAPITAL: PHAN RANG-THÁP CHÀM

Area: 3,531 km²

Located in the South Central Coast, Ninh Thuan is known as the driest province in Viet Nam with average rainfall of only 700-800mm per year. The province is a well-know tourist destination with natural scenery, beautiful beaches, and historical relics of Champa ancient kingdom. Ninh Thuan is the home of Cham and Raglay ethnic culture. As one of the poorest and least industrialized provinces, prominent products of Ninh Thuan include grape fruits, salt production, fishing, and some manufacturing. The province's agriculture is vulnerable to frequent drought, but Ninh Thuan has high potential for solar and wind power generation.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.41 • Rank: 52/63



RESILIENCE (R) - low Score: 0.51 • Rank: 42/63



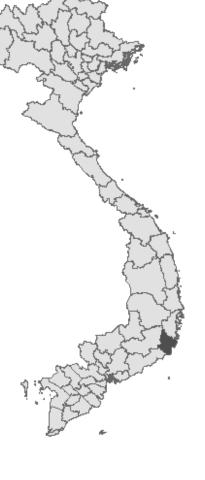
MULTI-HAZARD EXPOSURE - very low Score: 0.249 • Rank: 58/63



VULNERABILITY (V) - high Score: 0.454 • Rank: 21/63



COPING CAPACITY (CC) - moderate Score: 0.474 • Rank: 37/63





Population (2017) **602,115**



Population in Poverty 8.2%



Illiterate population 2.2%



Access to improved water 92.4%



Average life expectancy 72.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 58 / 63 PROVINCES

SCORE: 0.249



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

602278

₩

Flood **32.2%**

193655

(1)

Wildfire

14.7%

88453



Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature

0.0%

2 0



Surge

0.4%



VULNERABILITY (V)

RANK: 21 / 63 PROVINCES

SCORE: 0.454

Vulnerability in Ninh Thuan is primarily driven by Gender Inequality and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 38/63

-0.2%

22.49

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 15/63

72.6

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

16.4

6.6% Acute

1193.2 Tuberculosis 182.88

Malaria Prevalance (per 100,000 57.3

Malnutrition (Children <5) Incidence (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 41/63

92.4% Households 81.2%

Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 35/63

2.2% Adult Illiteracy

Rate

82.6% School

86.0%

4.0%

Rate

Households Attendance without Internet

Housholds without TV



Economic Constraints

Rank: 24/63

Rank: 3/63

47.7

8.2%

Economic Dependency Ratio

Poverty



Gender Inequality

0.54 0.18

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 48/63

0.9% Average Annual Population Change

2.9% Average Annual Urban Population Change

0.8% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 37 / 63 PROVINCES

high (good).

SCORE: 0.474

Ninh Thuan exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 59/63

7.1 3,635 Time Cost* Income per 22.84 Purchasing 6 Business 7.84

Capita (in 1,000 Power Support Services*

Entry Costs*



Governance

Rank: 23/63 6.44 6.01 5.16

Law and Order*

Informal Transparency* Charges*



Environmental Capacity

VND)

Rank: 18/63

15.2%

Protected Area



Infrastructure Capacity

Rank: 41/63



Health Care Capacity Rank: 28/63

97.1% Immunization Coverage

29.56 Healthbeds per 10,000 People

6.61 Physicians per 10,000 People 13.53 Nurses per 10,000 People

15.15 Distance to Hospital (km)



Transportation Capacity Rank: 37/63

1,615

24.54

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 49/63

79.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 42 / 63 PROVINCES

SCORE: 0.51

Ninh Thuan's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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







Vulnerable Health Status



Economic Capacity



Governance



MULTI-HAZARD RISK



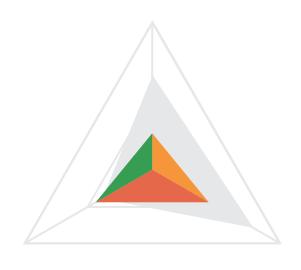
52 / 63
Rank within provinces
Score: 0.41

Ninh Thuan's score and ranking are due to very low Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

PHU THO

NDPBA PROVINCE PROFILE



VIỆT NAM PHU THO

CAPITAL: VIỆT TRÌ

Area: 4,091 km²

Neighboring Hanoi Capital to the northwest, Phu Tho is a midlands province linking the Red River Delta with Viet Nam's northern mountainous provinces. Lying at the confluence of the Red and Da river, the province is known as the capital of the ancient Van Lang kingdom of Viet people with Hung Kings temple complex now a national historical location. Phu Tho's economic activities include agroforestry, agriculture (with tea as main product) and certain mining and industrial manufacturing.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.463 • Rank: 38/63



RESILIENCE (R) - moderate Score: 0.519 • Rank: 33/63



MULTI-HAZARD EXPOSURE - low Score: 0.428 • Rank: 43/63



VULNERABILITY (V) - moderate Score: 0.436 • Rank: 28/63



COPING CAPACITY (CC) - moderate Score: 0.474 • Rank: 38/63



Population (2017) 1,408,176



Population in Poverty 8.0%



Illiterate population 6.8%



Access to improved water 90.2%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 43 / 63 PROVINCES

SCORE: 0.428



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

2 0



Flood 30.5% ▲ 428845



Wildfire

3.5%



Earthquake 26.8% **3**76850



0.0%



Extreme Temperature

100.0% **1**408176





VULNERABILITY (V)

RANK: 28 / 63 PROVINCES

SCORE: 0.436

Vulnerability in Phu Tho is primarily driven by Clean Water Access Vulnerability and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 12/63

0.0%

89.27

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 31/63

73.1

(years)

Life Expectancy

15.1 Infant Mortality Rate (per 1,000

live births)

6.4% Acute Malnutrition

(Children <5)

37.3 Tuberculosis

Incidence

persons)

(per 100,000

51.1

Malaria Prevalance (per 100,000 persons)

226.5

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 24/63

90.2%

Households with Safe Water

54.7% Households with Hygienic Toilet Access

Access

Information Access Vulnerability

Rank: 34/63

6.8% Adult Illiteracy

95.3% School

87.0% Households 5.0%

Rank: 26/63

Rank: 57/63

Rank: 24/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

46.7

Ratio

Rate

8.0%

Economic Dependency Poverty

Gender Inequality

0.04

0.21

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.

Population Pressures

0.6% 3.0%

Average Annual Population

7.9%

Average Annual Urban Population Change

Net Migration Rate

PDC Global

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 38 / 63 PROVINCES

high (good).

SCORE: 0.474

Phu Tho exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 47/63

6.14 3,858 Time Cost* Income per 6.62 Business 8.03

Purchasing Capita (in 1,000 Power Support Services*

14.8

Entry Costs*



Governance

Rank: 36/63

5.95 6.28 5.22 Law and Order* Informal Transparency* Charges*



Environmental Capacity

Rank: 42/63

4.2%

Protected Area



Infrastructure Capacity

Rank: 10/63



Health Care Capacity Rank: 6/63

99.5% 7.39 40.61 8.3 11.67 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 40/63

2,280 49.07

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 31/63

84.0%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 33 / 63 PROVINCES

SCORE: 0.519

Phu Tho's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores.

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







Environmental Stress



Economic Capacity



Governance



MULTI-HAZARD RISK

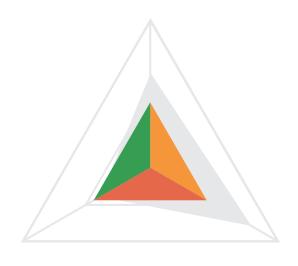
38 / 63
Rank within provinces
Score: 0,463

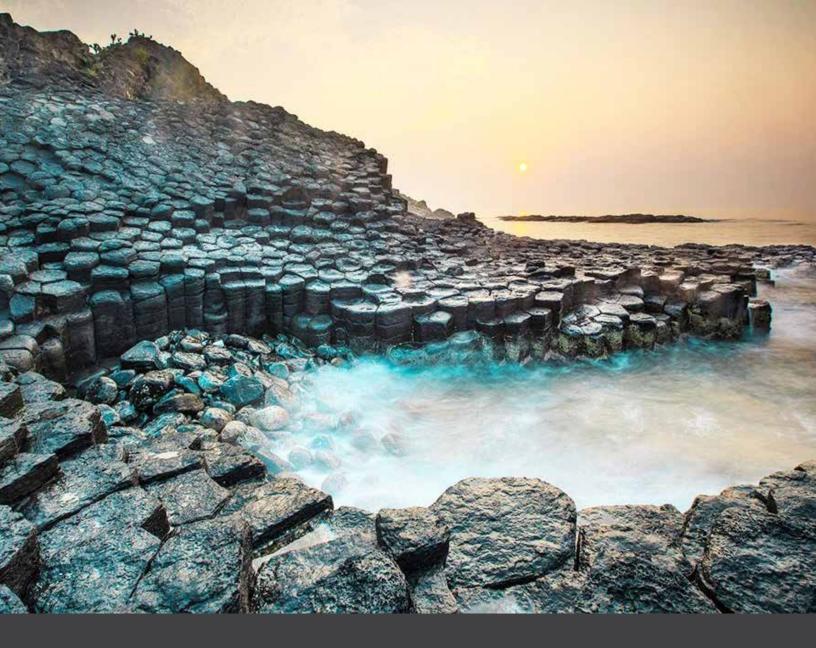
Phu Tho's score and ranking are due to low Multi-hazard exposure combined with moderate Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

PHU YEN

NDPBA PROVINCE PROFILE



VIỆT NAM PHU YEN

CAPITAL: TUY HÒA

Area: 5,298 km²

Phu Yen is the eastern-most province of Viet Nam's mainland. Characterized by mixed topography, mostly covered by mountains or hills in the west and a delta near coastal areas, the province has limited land for cultivation. Phu Yen is home to 30 ethnic groups including Cham, E De, Ba Na, Hre, Hoa, M'Nông, and Raglai people. Provincial economic activities are forestry, agriculture, fishing, and small industrial sector. The province is also known for having high tourism potential with many beautiful landscapes.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.537 • Rank: 12/63



RESILIENCE (R) - low Score: 0.513 • Rank: 39/63



MULTI-HAZARD EXPOSURE - very high Score: 0.638 • Rank: 13/63



VULNERABILITY (V) - moderate Score: 0.408 • Rank: 38/63



COPING CAPACITY (CC) - low Score: 0.434 • Rank: 48/63



Population (2017) 918,332



Population in Poverty 9.3%



Illiterate population 2.9%



Access to improved water 93.0%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 13 / 63 PROVINCES

SCORE: 0.638



Raw MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 19.7% **181245**



Wildfire

36.7%





Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

100.0% **9**18332



Surge



VULNERABILITY (V)

RANK: 38 / 63 PROVINCES

SCORE: 0.408

Vulnerability in Phu Yen is primarily driven by Population Pressures and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 42/63

2.2%

28.67

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 30/63

73.1

15.2

7.6%

47.9

135.22 Malaria

Prevalance (per 100,000 persons)

22.6 HIV Prevalance (per 100,000

persons)

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

Clean Water Vulnerability

Rank: 32/63

93.0%

62.9% Households with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 40/63

2.9% Adult Illiteracy

Rate

93.4% School Attendance

Rate

85.0% Households

without Internet

5.0% Housholds without TV

Economic Constraints

Rank: 25/63

46.4

9.3%

Economic Dependency Ratio

Poverty



Gender Inequality

0.03 0.36

F M School Income Enrollment Rate* Inequality*

Rank: 44/63

*Values closer to 1 represent greater gender parity.

Rank: 16/63



Population Pressures

0.7% Average Annual Population

4.9% Average Annual Urban Population

Change

3.4%

Net Migration Rate

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 48 / 63 PROVINCES

high (good).

SCORE: 0.434

Phu Yen exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 24/63

4,295 25.41

6.61

8.05

Income per Purchasing Capita (in 1,000 Power VND)

Business Support Services* Entry Costs*



Governance

6.3

Time Cost*

Rank: 54/63 5.15 5.31 5.89

Law and Order*

Informal Charges* Transparency*



Environmental Capacity

Rank: 34/63

6.6%

Protected Area



Infrastructure Capacity

♦

Rank: 49/63



Health Care Capacity Rank: 44/63

98.1% Immunization Coverage 23.79 Healthbeds per

10,000 People

5.14
Physicians per 10,000 People

11.75 Nurses per

10,000 People

17.01 Distance to Hospital (km)



Transportation Capacity Rank: 48/63

2,238

72.18

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 36/63

83.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 39 / 63 PROVINCES

SCORE: 0.513

Phu Yen's score and ranking are due to moderate Vulnerability combined with low Coping Capacity scores.

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







Clean Water Access Vulnerability



Governance



Transportation Capacity

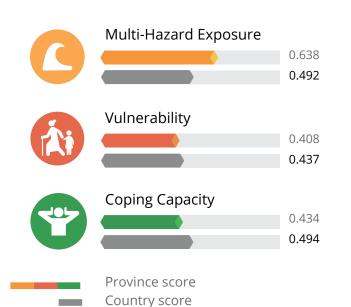


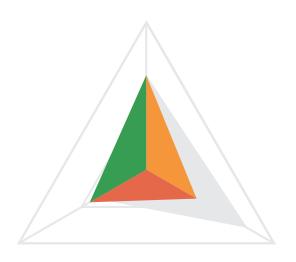
MULTI-HAZARD RISK

12 / 63
Rank within provinces
Score: 0.537

Phu Yen's score and ranking are due to very high Multi-hazard exposure combined with moderate Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

AN GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM AN GIANG

CAPITAL: LONG XUYÊN

Area: 3,675 km²

An Giang is located in the upper reaches of the Mekong Delta sharing a 100km border with Cambodia to the northwest. With the exception of the west, the fairly flat terrain with many irrigated canals has led the province to being one of the largest rice producing centers in the Delta. An Giang has a largest population in the Delta - home of Kinh people and other ethnic groups such as Khmer and Chams and has large proportion of Muslim population in the country.

he ce

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.518 • Rank: 19/63



RESILIENCE (R) - moderate Score: 0.517 • Rank: 35/63



MULTI-HAZARD EXPOSURE - high Score: 0.587 • Rank: 25/63



VULNERABILITY (V) - high Score: 0.457 • Rank: 20/63



COPING CAPACITY (CC) - high Score: 0.491 • Rank: 25/63



Population (2017) **2,385,356**



Population in Poverty 3.9%



Illiterate population 9.5%



Access to improved water 82.6%



Average life expectancy 73.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 25 / 63 PROVINCES

SCORE: 0.587



MHE 0.587 Raw MHE 0.726 Relative MHE 0.541

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood
81.8% **1**950937

Wildfire 3.8% ▲ 89660



Earthquake
0.0%
0

MÈ

0.0%

Landslide

Extreme Temperature 0.0%



Surge **0.0%**



VULNERABILITY (V)

RANK: 20 / 63 PROVINCES

SCORE: 0.457

Vulnerability in An Giang is primarily driven by Gender Inequality and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 31/63

-1.7%

26.85

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 32/63

73.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

14.4

6.2% Acute Malnutrition

(Children <5)

122.3 Tuberculosis Incidence

persons)

(per 100,000

0.79 Malaria

Malaria Prevalance (per 100,000 persons) 243.1 HIV Prevalance (per 100,000

persons)

0

Clean Water Vulnerability

Rank: 34/63

82.6%

Households with Safe Water

Access

77.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 12/63

9.5%

Rate

Adult Illiteracy

80.5% School 87.0% Households without Internet 7.0% Housholds without TV



Economic Constraints

Rate

43.8 3.9%

Economic Poverty

Economic
Dependency
Ratio

Rank: 47/63



Gender Inequality

R

Rank: 8/63

0.25

0.29

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 50/63

0.2%
Average Annual
Population
Change

2.1%
Average
Annual Urban
Population
Change

9.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 25 / 63 PROVINCES

high (good).

SCORE: 0.491

An Giang exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 30/63

6.88 3,476 34.42

5.99 Business 8.67

Income per Purchasing Business Capita (in 1,000 Power Support VND) Services*

Entry Costs*



Governance

Time Cost*

Rank: 16/63
6.15
5.2
6.92
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 33/63



Health Care Capacity Rank: 47/63

 97.2%
 24.61
 4.63
 11.6
 13.03

 Immunization Coverage
 Healthbeds per 10,000 People 10,



Transportation Capacity Rank: 14/63

3,342 13.75

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 37/63

82.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 35 / 63 PROVINCES

SCORE: 0.517

An Giang's score and ranking are due to high Vulnerability combined with high Coping Capacity scores.

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







Information Access Vulnerability



Health Care Capacity



Economic Capacity

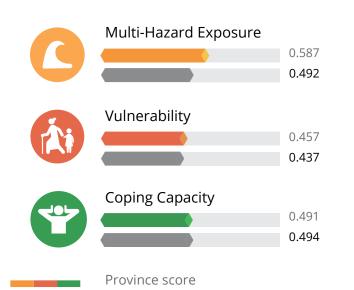


MULTI-HAZARD RISK

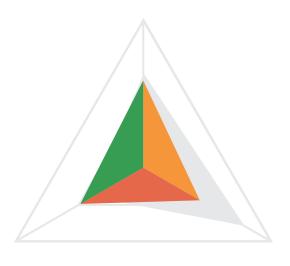
19 / 63 Rank within provinces Score: 0.518

An Giang's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

BA RIA-VUNG TAU

NDPBA PROVINCE PROFILE



VIỆT NAM BA RIA-VUNG TAU

CAPITAL: BÀ RỊA

Area: 2,004 km²

Ba Ria - Vung Tau province is located on the coast of Viet Nam's southeast region, including Con Dao islands. The provincial economic activities are mostly industrial including petroleum, electricity, petrochemicals, steel and cement production and followed by tourism, commerce and fishing. Vung Tau is one of the country's tourist destinations for its popular beaches and numerous newly-built resorts.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.342 • Rank: 62/63



RESILIENCE (R) - very high Score: 0.602 • Rank: 10/63



MULTI-HAZARD EXPOSURE - very low Score: 0.229 • Rank: 60/63



VULNERABILITY (V) - very low Score: 0.346 • Rank: 57/63



COPING CAPACITY (CC) - high Score: 0.551 • Rank: 14/63



Population (2017) 1,107,517



Population in Poverty 0.7%



Illiterate population 3.2%



Access to improved water 99.0%



Average life expectancy **76.10 years**

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 60 / 63 PROVINCES

SCORE: 0.229



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 0.0%

Wildfire 12.5% **1**38036

Earthquake

0.0%

Landslide 0.0%

Extreme Temperature

0.0%

Surge



VULNERABILITY (V)

RANK: 57 / 63 PROVINCES

SCORE: 0.346

Vulnerability in Ba Ria-Vung Tau is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 21/63

-1.4%

53.6

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 54/63

76.1

Life Expectancy (years)

8.1
Infant Mortality
Rate (per 1,000
live births)

5.6%

Acute Malnutrition (Children <5) 71.2 Tuberculosis

Incidence

persons)

(per 100,000

Malaria Prevalance (per 100,000 persons)

22.37

449.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 58/63

Access

99.0% Households with Safe Water 96.7% Households with Hygienic Toilet



Information Access Vulnerability

Access

Rank: 58/63

3.2% Adult Illiteracy

Rate

93.9% School Attendance

Rate

73.0% Households without Internet 4.0% Housholds without TV



Economic Constraints

1.2 0.7%

Rank: 59/63

Rank: 2/63

Rank: 40/63

41.2 Economic Dependency

Poverty



Gender Inequality

0.3 0.36

Income F M School Inequality* Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

1.5% 2.6%

0.7%

Average Annual Urban Population Change Net Migration Rate

Average Annual Population

Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 14 / 63 PROVINCES

high (good).

SCORE: 0.551

Ba Ria-Vung Tau exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 4/63

6.42 5,478 Time Cost*

7.08 Purchasing

8.19

Income per Capita (in 1,000 VND)

Business Support Services* Entry Costs*



Governance

Rank: 35/63 5.55 5.04

Law and Order*

Informal Charges*

6.36 Transparency*

44.04

Power



Environmental Capacity

Rank: 25/63

10.3%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 63/63

92.6% Immunization 18.07

4.18 Physicians per 18.59

Healthbeds per Coverage 10,000 People

Nurses per 10,000 People 10,000 People

10.31

Distance to Hospital (km)



Transportation Capacity Rank: 5/63

6,224

22.35

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 4/63

92.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 10 / 63 PROVINCES

SCORE: 0.602

Ba Ria-Vung Tau's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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







Environmental Stress



Health Care Capacity



Governance



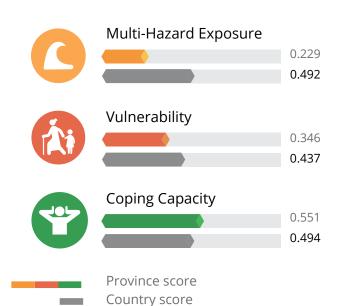
MULTI-HAZARD RISK



62 / 63 Rank within provinces Score: 0.342

Ba Ria-Vung Tau's score and ranking are due to very low Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

BAC GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM BAC GIANG

CAPITAL: BẮC GIANG

Area: 4,508 km²

Bac Giang province is located in the northeast region of Viet Nam as the transition zone between the mountainous region in the North and the Red River Delta in the South. The province's land area is primarily dedicated to agriculture and forestry and Bac Giang is known as a large producer of pineapples and lychees. Being the home to 20 ethnic groups, this province also preserves the special cultural and historical traditions.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.452 • Rank: 43/63



RESILIENCE (R) - moderate Score: 0.534 • Rank: 30/63



MULTI-HAZARD EXPOSURE - low Score: 0.424 • Rank: 45/63



VULNERABILITY (V) - moderate Score: 0.409 • Rank: 36/63



COPING CAPACITY (CC) - moderate Score: 0.478 • Rank: 34/63



Population (2017) 1,667,141



Population in Poverty 7.9%



Illiterate population 2.3%



Access to improved water 94.9%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 45 / 63 PROVINCES

SCORE: 0.424



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind
1 2 70%

2 211242



Flood **37.1%**

4 619096



Wildfire

0.8%

13474



Earthquake 0.0%

≜ n



Landslide 0.0%

2 0



Extreme Temperature

100.0%

1667141



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 36 / 63 PROVINCES

SCORE: 0.409

Vulnerability in Bac Giang is primarily driven by Clean Water Access Vulnerability and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 11/63

3.5% 112.39

Forest Change

Livestock Density (per sq km)

Vulnerable Health Status

Rank: 27/63

73.1 Life Expectancy

(years)

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

7.8% Acute Malnutrition

(Children <5)

43.8 Tuberculosis Incidence (per 100,000 persons)

5.85

Malaria Prevalance (per 100,000 persons)

137.5

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 26/63

94.9%

46.7% Households Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 56/63

2.3% Adult Illiteracy

Rate

98.2% School Attendance 87.0% Households without Internet

3.0% Housholds without TV



Economic Constraints

Rate

7.9%

Rank: 34/63

44.3 Economic Dependency

Poverty



Gender Inequality

Rank: 47/63

0.02

0.36

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 41/63

0.7% Average Annual Population Change

3.5% Average Annual Urban Population Change

1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 34 / 63 PROVINCES

high (good).

SCORE: 0.478

Bac Giang exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 52/63

5.7 Time Cost* 4,486 12.02

6.06

Services*

7.82

Income per Capita (in 1,000 VND) Purchasing Power

Transparency*

Business Entry Costs*
Support



Governance

Law and Order*

Rank: 27/63 6.1 5.51 6.73



Environmental Capacity

Informal

Charges*

Rank: 41/63

4.8%

Protected Area



Infrastructure Capacity

Rank: 20/63



Health Care Capacity Rank: 18/63

99.6% Immunization 27.4 Healthbeds per 7.69

11.45

12.98

Coverage

10,000 People

Physicians per 10,000 People

Nurses per 10,000 People Distance to Hospital (km)



Transportation Capacity Rank: 43/63

1,846

42.62

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 17/63

87.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 30 / 63 PROVINCES

SCORE: 0.534

Bac Giang's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores.

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







Environmental Stress



Economic Capacity



Governance

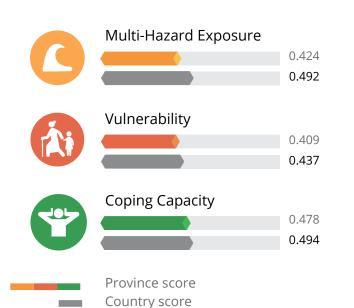


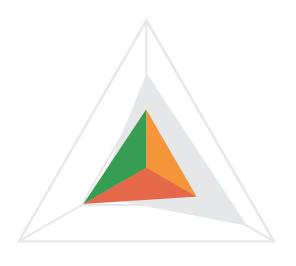
MULTI-HAZARD RISK

43 / 63
Rank within provinces
Score: 0.452

Bac Giang's score and ranking are due to low Multi-hazard exposure combined with moderate Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

BAC KAN

NDPBA PROVINCE PROFILE



VIỆT NAM BAC KAN

CAPITAL: BẮC KẠN

Area: 5,699 km²

Located in northeastern Viet Nam, Bac Kan is a mountainous province with about 95% forest cover and rich mineral resources. One of the least populated provinces in Viet Nam, the province is the home of Kinh, Tay, Nung, and Dao people. Bac Kan's economy centers on mining, forest products, agriculture, and some degree of tourism offered by its mountains, lakes and the Ba Be national park.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.396 • Rank: 55/63



RESILIENCE (R) - low Score: 0.48 • Rank: 51/63



MULTI-HAZARD EXPOSURE - very low Score: 0.149 • Rank: 62/63



VULNERABILITY (V) - high Score: 0.468 • Rank: 16/63



COPING CAPACITY (CC) - very low Score: 0.429 • Rank: 52/63



Population (2017) **320,597**



Population in Poverty 17.1%



Illiterate population 6.1%



Access to improved water 45.8%



Average life expectancy 72.10 years

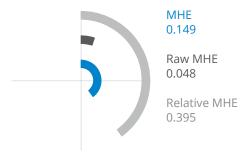
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 62 / 63 PROVINCES

SCORE: 0.149



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

2 0

₩

9.4%

(1)

Wildfire 0.3%

839



Earthquake 0.0%

≗ ∩

MÈ

Landslide 38.0%

Extreme Temperature

100.0%

2 320597





VULNERABILITY (V)

RANK: 16 / 63 PROVINCES

SCORE: 0.468

Vulnerability in Bac Kan is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 59/63

5.0%

20.6

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 18/63

72.1

(years)

Life Expectancy

17.6 Infant Mortality Rate (per 1,000

live births)

7.0% Acute Malnutrition

(Children <5)

20.5 Tuberculosis

Incidence

persons)

(per 100,000

Malaria Prevalance

7.81

persons)

(per 100,000

454.3

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 7/63

45.8% Households

Access

with Safe Water

40.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 33/63

6.1% Adult Illiteracy

Rate

School Attendance

99.9%

88.0% Households

without Internet

9.0% Housholds without TV



Economic Constraints

Rate

Rank: 16/63

40.9

17.1%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 26/63

0.21

0.17

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 55/63

0.9% Average Annual Population Change

3.3% Average Annual Urban Population Change

0.3% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 52 / 63 PROVINCES

high (good).

SCORE: 0.429

Bac Kan exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 61/63

4.83 4,929
Time Cost* Income p

12.9

6.32

6.25

Income per Purchasing Capita (in 1,000 Power VND)

Business Support Services* Entry Costs*



Governance

Rank: 52/63

Law and Order*

6.06

4.28 Informal Charges* 6.65
Transparency*



Environmental Capacity

Rank: 32/63

7.2%

Protected Area



Infrastructure Capacity



Rank: 8/63



Health Care Capacity Rank: 2/63

97.2% Immunization Coverage 37.81 Healthbeds per 10,000 People 12.72 Physicians per 10,000 People 19.88 Nurses per

10,000 People

12.37 Distance to Hospital (km)



Transportation Capacity Rank: 47/63

1,356

38.74

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 33/63

83.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 51 / 63 PROVINCES

SCORE: 0.48

Bac Kan's score and ranking are due to high Vulnerability combined with very low Coping Capacity scores.

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







Gender Inequality



Economic Capacity



Governance

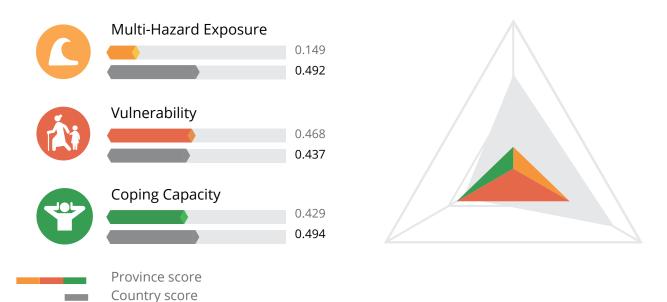


MULTI-HAZARD RISK

55 / 63
Rank within provinces
Score: 0.396

Bac Kan's score and ranking are due to very low Multi-hazard exposure combined with high Vulnerability and very low Coping Capacity scores.

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





VIỆT NAM

BAC LIEU

NDPBA PROVINCE PROFILE



VIỆT NAM BAC LIEU

CAPITAL: BAC LIÊU

Area: 2,544 km²

Bac Lieu is a coastal province located in the southern part of the Mekong Delta with mostly lowland terrain and many large irrigated canals. Prominent provincial economic activities include rice farming, fishing, food processing, and clothing manufacturing. Viet Nam's largest wind power farm is recently built off shore of the Bac Lieu province, which has also become an tourism attraction. Bac Lieu is home to many ethnic Khmer people, the province is well known for its traditional folk music of Vong Co.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.424 • Rank: 50/63



RESILIENCE (R) - high Score: 0.538 • Rank: 27/63



MULTI-HAZARD EXPOSURE - low Score: 0.349 • Rank: 48/63



VULNERABILITY (V) - low Score: 0.4 • Rank: 44/63



COPING CAPACITY (CC) - moderate Score: 0.476 • Rank: 35/63





Population (2017) 948,284



Population in Poverty 8.4%



Illiterate population 5.9%



Access to improved water 99.7%



Average life expectancy 74.30 years

www.pdc.org

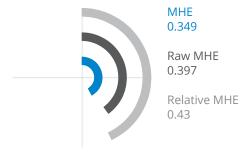
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 48 / 63 PROVINCES

SCORE: 0.349



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:

















VULNERABILITY (V)

RANK: 44 / 63 PROVINCES

SCORE: 0.4

Vulnerability in Bac Lieu is primarily driven by Gender Inequality and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 52/63

3.0%

21.58

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 22/63

74.3

(years)

Life Expectancy

12.1 Infant Mortality Rate (per 1,000

live births)

9.3% Acute Malnutrition

(Children <5)

73.7 Tuberculosis

Incidence

persons)

(per 100,000

2.74

Malaria Prevalance (per 100,000 persons)

273.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 43/63

99.7%

Households with Safe Water

Access

54.0% Households with Hygienic Toilet Access

Information Access Vulnerability

Rank: 17/63

5.9%

Adult Illiteracy Rate

82.3% School Attendance 91.0% Households without Internet

3.0% Housholds without TV

Economic Constraints

Rate



Rank: 52/63

Rank: 21/63

38.2

8.4%

Economic Dependency Ratio

Poverty



Gender Inequality

0.25

0.16

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 33/63 0.9% 6.3% 1.2%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 35 / 63 PROVINCES

high (good).

SCORE: 0.476

Bac Lieu exhibits weaker Coping Capacity in the areas of Communications Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 17/63

6.7 4,002

41.85 5.77
Purchasing Busines

8.58

Income per Capita (in 1,000 VND) Business Support Services* Entry Costs*



Governance

Law and Order*

Rank: 17/63 5.68 6.38 6.47

Power

Transparency*



Environmental Capacity

Informal

Charges*

Rank: 52/63

1.0%

Protected Area



Infrastructure Capacity

Rank: 56/63



Health Care Capacity Rank: 50/63

 95.1%
 23.1
 6.12
 11.58
 10.32

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 38/63

1,805 33.91

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 58/63

72.2% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 27 / 63 PROVINCES

SCORE: 0.538

Bac Lieu'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:







Information Access Vulnerability



Communications Capacity



Health Care Capacity

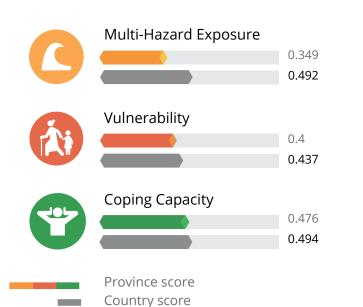


MULTI-HAZARD RISK

50 / 63 Rank within provinces Score: 0.424

Bac Lieu's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

BAC NINH

NDPBA PROVINCE PROFILE



VIỆT NAM BAC NINH

CAPITAL: BẮC NINH

Area: 949 km²

Neighboring Hanoi Capital to the east, Bac Ninh is one of the smallest but most industrialized provinces in Viet Nam. With rather even and flat terrain, the province attracted large amounts of manufacturing investors including Canon, Samsung, Foxconn, and Nokia. With over 15 industrial parks, agricultural land is rapidly decreasing. Bac Ninh is also well known by being the home of Quan Ho folk music and other cultural and historical values.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.469 • Rank: 35/63



RESILIENCE (R) - moderate Score: 0.535 • Rank: 29/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.476 • Rank: 37/63



VULNERABILITY (V) - moderate Score: 0.428 • Rank: 32/63



COPING CAPACITY (CC) - high Score: 0.498 • Rank: 22/63



Population (2017) 1,068,880



Population in Poverty 2.1%



Illiterate population 2.5%



Access to improved water 99.1%



Average life expectancy 74.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 37 / 63 PROVINCES

SCORE: 0.476



0.476 Raw MHE 0.496

Relative MHE 0.582

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

15.5%



Flood

75.4% 805836



Wildfire

0.0%

2 0



Earthquake

0.0%



Landslide 0.0%

2 0



Extreme Temperature

100.0%

1068880



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 32 / 63 PROVINCES

SCORE: 0.428

Vulnerability in Bac Ninh is primarily driven by Population Pressures and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 5/63

0.0%

151.99

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 37/63

74 Life Exp (years)

Life Expectancy

12.8 Infant Mortality 8.4% Acute 20.3 Tuberculosis 13.35 Malaria 164.1

Infant Mortality Rate (per 1,000 live births)

Malnutrition (Children <5)

Tuberculosis Malaria Incidence Prevalance (per 100,000 (per 100,000 persons) persons) HIV Prevalance (per 100,000 persons)

www.pdc.org



Clean Water Vulnerability

Rank: 52/63

99.1% Households 81.1% Households with Hygienic Toilet

with Safe Water Access

Information Access Vulnerability

Access

Rank: 57/63

2.5%

Adult Illiteracy

98.6% School Attendance 77.0% Households without Internet 6.0% Housholds without TV



Economic Constraints

Rank: 40/63

49.4

2.1%

Rate

Economic Dependency Ratio Poverty



Gender Inequality

Rank: 46/63

0.12

0.19

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 2/63

1.7% Average Annual Population Change 10.6% Average Annual Urban Population

Change

12.8% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 22 / 63 PROVINCES

high (good).

SCORE: 0.498

Bac Ninh exhibits weaker Coping Capacity in the areas of Governance and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 14/63

6.65 5,156
Time Cost* Income per

29.73 Purchasing

Transparency*

6.86

7.27

Income per Purchasing
Capita (in 1,000 Power
VND)

Support Services*





Governance

Law and Order*

Rank: 34/63 5.39 5.9 5.93



Environmental Capacity

Informal

Charges*

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 15/63

99.8% Immunization Coverage 28.01 Healthbeds per 10,000 People 7.28
Physicians per 10,000 People

9.41 Nurses per 10,000 People 3.62 Distance to

Hospital (km)



Transportation Capacity Rank: 27/63

2,284

16.96

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 9/63

89.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 29 / 63 PROVINCES

SCORE: 0.535

Bac Ninh's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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







Environmental Stress



Governance



Environmental Capacity

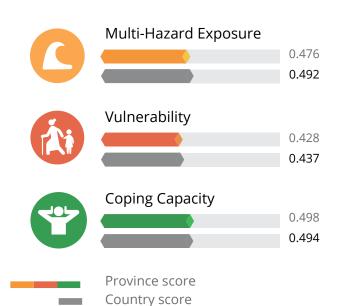


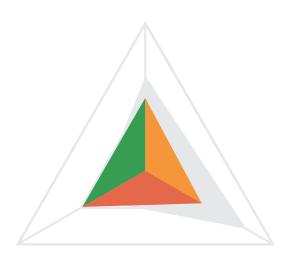
MULTI-HAZARD RISK

35 / 63 Rank within provinces Score: 0.469

Bac Ninh's score and ranking are due to moderate Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

BEN TRE

NDPBA PROVINCE PROFILE



VIỆT NAM BEN TRE

CAPITAL: BÉN TRE

Area: 2,360 km²

Ben Tre province is located in the eastern part of the Mekong Delta, between the two main branches of Tien Giang river. Possessing a complex network of rivers and canals, Ben Tre has a major advantage for agriculture productions and ecotourism, however is vulnerable to frequent salinization, flooding and sea level rise. The province is also known for being the homeland of coconut farms and products.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.39 • Rank: 57/63



RESILIENCE (R) - high Score: 0.547 • Rank: 24/63



MULTI-HAZARD EXPOSURE - very low Score: 0.265 • Rank: 56/63



VULNERABILITY (V) - moderate Score: 0.437 • Rank: 27/63



COPING CAPACITY (CC) - high Score: 0.53 • Rank: 19/63



Population (2017) 1,290,699



Population in Poverty 8.6%



Illiterate population 5.4%



Access to improved water 80.0%



Average life expectancy 75.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 56 / 63 PROVINCES

SCORE: 0.265



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

100.07 1289426



15.5%

M

Wildfire 0.0%

2 0

Earthquake 0.0%

Landslide 0.0%

Extreme Temperature

0.0%





VULNERABILITY (V)

RANK: 27 / 63 PROVINCES

SCORE: 0.437

Vulnerability in Ben Tre is primarily driven by Gender Inequality and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 15/63

1.4%

91.57

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 59/63

75.3

Life Expectancy (years)

9.8 Infant Mortality Rate (per 1,000

live births)

6.0% Acute Malnutrition (Children <5) 63.9 Tuberculosis Incidence

(per 100,000

persons)

0.24 Malaria Prevalance (per 100,000 persons)

134.9 HIV Prevalance (per 100,000

persons)

Clean Water Vulnerability

Rank: 19/63

80.0% 57.5%

Households with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 30/63

Rank: 39/63

5.4%

Adult Illiteracy

Rate

91.6% School Attendance 84.0% Households without Internet

6.0% Housholds without TV



Economic Constraints

Rate

42.9 8.6%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 9/63

0.13

0.49

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 63/63

0.1% Average Annual Population Change

Average Annual Urban Population Change

1.1%

3.7% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 19 / 63 PROVINCES

high (good).

SCORE: 0.53

Ben Tre exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 40/63

7.61 3,640
Time Cost* Income p

VND)

Income per Purchasing Capita (in 1,000 Power

22.28

6.87
Business
Support
Services*

7.88

ess Entry Costs*



Governance

Rank: 6/63

6.78
6.39
6.21
Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 48/63

1.5%

Protected Area



Infrastructure Capacity

Rank: 22/63



Health Care Capacity Rank: 35/63

95.5% 30.58 5.59 11.49 6.82

Immunization Healthbeds per Coverage 10,000 People 10,000



Transportation Capacity Rank: 24/63

2,563 13.62

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 11/63

88.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 24 / 63 PROVINCES

SCORE: 0.547

Ben Tre's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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



Gender Inequality



Clean Water Access Vulnerability



Economic Capacity



Health Care Capacity



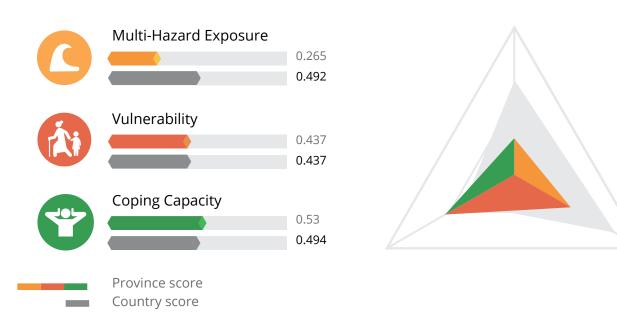
MULTI-HAZARD RISK

Re

57 / 63
Rank within provinces
Score: 0.39

Ben Tre's score and ranking are due to very low Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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





VIỆT NAM

BINH DINH

NDPBA PROVINCE PROFILE



VIỆT NAM BINH DINH

CAPITAL: QUI NHƠN

Area: 6,436 km²

Located in the south central coast of Viet Nam, Binh Dinh is characterized by mixed topography: mostly covered by mountains or hills in the west and lowlands near coastal areas. As one of the main gateways to the Central Highlands and its port, the province is the region's third largest industrial center (mainly based on furniture manufacturing) and also has strong agricultural, forestry, livestock, and fishing sectors. Rich in historical heritages, Binh Dinh is known by being the center of the old Cham Culture.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.517 • Rank: 20/63



RESILIENCE (R) - moderate Score: 0.536 • Rank: 28/63



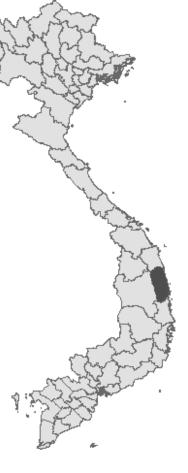
MULTI-HAZARD EXPOSURE - high Score: 0.624 • Rank: 19/63



VULNERABILITY (V) - moderate Score: 0.415 • Rank: 35/63



COPING CAPACITY (CC) - high Score: 0.487 • Rank: 26/63





Population (2017) 1,572,836



Population in Poverty 9.1%



Illiterate population 3.9%



Access to improved water 96.1%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 19 / 63 PROVINCES

SCORE: 0.624



MHE 0.624 Raw MHE 0.651 Relative MHE 0.686

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1570997



14.8%

W

Wildfire 5.6%

2 88109



Earthquake 0.0%

2 0



Landslide 0.0%

Extreme Temperature

100.0% \$\frac{1}{2}\$ 1572836



Surge

0.3%



VULNERABILITY (V)

RANK: 35 / 63 PROVINCES

SCORE: 0.415

Vulnerability in Binh Dinh is primarily driven by Gender Inequality and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 22/63

2.7%

61.27

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 46/63

73.1

(years)

Life Expectancy

15.1 Infant Mortality Rate (per 1,000

live births)

5.0% Acute

(Children <5)

39.2 Tuberculosis Malnutrition Incidence

26.08

Malaria Prevalance (per 100,000 persons)

34.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 40/63

(per 100,000

persons)

96.1% Households

Access

with Safe Water

69.7% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 44/63

Rank: 19/63

Rank: 5/63

3.9% Adult Illiteracy

Rate

Rate

96.3% School Attendance 86.0% Households 5.0%

without Internet

Housholds without TV



Economic Constraints

49.2

9.1%

Economic Dependency Ratio

Poverty



Gender Inequality

0.26 0.3

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 59/63

0.3% Average Annual Population Change

Average Annual Urban Population Change

2.2%

1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 26 / 63 PROVINCES

high (good).

SCORE: 0.487

Binh Dinh exhibits weaker Coping Capacity in the areas of Transportation Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 43/63

6.48 4,261
Time Cost* Income per

Income per Purchasing Capita (in 1,000 Power

30.14

5.82 7.
Business Ent

7.75

Capita (in 1,000 VND)

Support Services* Entry Costs*



Governance

Rank: 11/63

6.31 6.46
Law and Order* Informa

Informal Charges* 6.67
Transparency*



Environmental Capacity

Rank: 40/63

4.9%

Protected Area



Infrastructure Capacity



Rank: 51/63



Health Care Capacity Rank: 31/63

99.6% Immunization Coverage 22.45
Healthbeds per 10,000 People

5.17 Physicians per

10,000 People

14.02 Nurses per 10,000 People 18.2 Distance to Hospital (km)



Transportation Capacity Rank: 59/63

4,140

160.2

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 34/63

83.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 28 / 63 PROVINCES

SCORE: 0.536

Binh Dinh's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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



Inequality









Economic Capacity



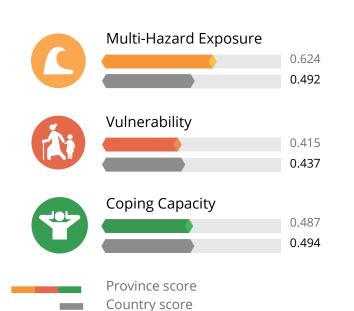
MULTI-HAZARD RISK

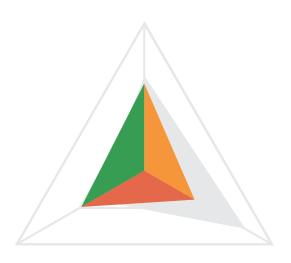


20 / 63 Rank within provinces Score: 0.517

Binh Dinh's score and ranking are due to high Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

BINH DUONG

NDPBA PROVINCE PROFILE



VIỆT NAM BINH DUONG

CAPITAL: THỦ DẦU MỘT

Area: 2,806 km²

Neighboring Ho Chi Minh City to the north, Binh Duong is now the largest hub of industrial manufacturing in southern Viet Nam with 28 industrial parks. The plain terrain comprised with bazan and alluvial deposits and with a network of rivers and canals makes the province a good for industrial crop plantation and its products. Binh Duong is also known as land of new opportunities, attracting an influx of young and capable people from other provinces.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.479 • Rank: 30/63



RESILIENCE (R) - very high Score: 0.6 • Rank: 12/63



MULTI-HAZARD EXPOSURE - high Score: 0.636 • Rank: 14/63



VULNERABILITY (V) - low Score: 0.387 • Rank: 48/63



COPING CAPACITY (CC) - very high Score: 0.587 • Rank: 8/63



Population (2017) 2,290,486



Population in Poverty 0.0%



Illiterate population 2.7%



Access to improved water 99.8%



Average life expectancy 75.70 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 14 / 63 PROVINCES

SCORE: 0.636



MHE 0.636 Raw MHE 0.701 Relative MHE 0.51

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 2290486



Flood 10.0%

229511



Wildfire

29.7%

2 680308



Earthquake

0.0%



Landslide 0.0%

4 0



Extreme Temperature

64.1%

1467831



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 48 / 63 PROVINCES

SCORE: 0.387

Vulnerability in Binh Duong is primarily driven by Population Pressures and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 23/63

1.8%

52.1

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

9

Rank: 49/63

75.7

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

7.6% Acute

Tuberculosis Malnutrition Incidence (Children <5) (per 100,000 persons)

61.4

4.4

Malaria Prevalance (per 100,000 persons)

150.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 63/63

99.8% Households

Access

98.7% Households with with Safe Water Hygienic Toilet Access



Information Access Vulnerability

Rank: 16/63

Rank: 63/63

Rank: 30/63

2.7% Adult Illiteracy

Rate

School

83.7%

85.0% Households 12.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

30.3 0.0%

Economic Dependency Poverty



Gender Inequality

0.07 0.38

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 1/63

7.4% Average Annual Population

Change

34.5% Average Annual Urban Population Change

42.0% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 8 / 63 PROVINCES

high (good).

SCORE: 0.587

Binh Duong exhibits weaker Coping Capacity in the areas of Health Care Capacity and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 6/63

7.45 5,364
Time Cost* Income pe

6.69

7.66

Income per Capita (in 1,000 VND)

54.64 Purchasing Power

Business Support Services* Entry Costs*



Governance

Rank: 13/63 6.39 5.38 6.52

Law and Order*

Informal Charges* Transparency*



Environmental Capacity

Rank: 49/63

1.5%

Protected Area



Infrastructure Capacity



Rank: 28/63



Health Care Capacity Rank: 60/63

98.3% Immunization Coverage 17.77 Healthbeds per 10,000 People 3.69
Physicians per 10,000 People

7.02 Nurses per 10,000 People 14.06 Distance to Hospital (km)



Transportation Capacity Rank: 4/63

6,560

19.94

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 2/63

93.0%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 12 / 63 PROVINCES

SCORE: 0.6

Binh Duong's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Information Access Vulnerability



Health Care Capacity



Environmental Capacity



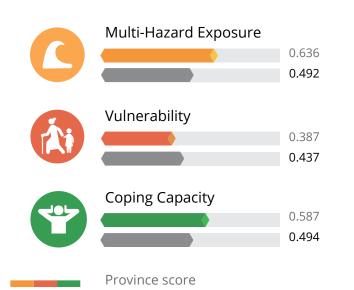
MULTI-HAZARD RISK



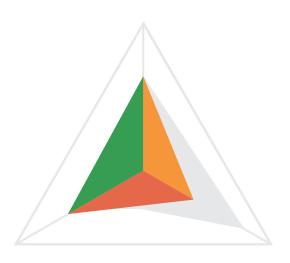
30 / 63 Rank within provinces Score: 0.479

Binh Duong's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

BINH PHUOC

NDPBA PROVINCE PROFILE



VIỆT NAM BINH PHUOC

CAPITAL: ĐỒNG XOÀI

Area: 7,236 km²

Binh Phuoc is a province located in the southeast region of Viet Nam, to the north of Ho Chi Minh City and shares a border with Cambodia on the north and northwest. The terrain in Binh Phuoc is relatively flat with an elevation of between 50 and 200 meters and forests covering about 49% of total land. A predominantly rural province, Binh Phuoc's prominent products are cashew nuts and rubber and food processing.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.527 • Rank: 17/63



RESILIENCE (R) - moderate Score: 0.518 • Rank: 34/63



MULTI-HAZARD EXPOSURE - high Score: 0.616 • Rank: 20/63



VULNERABILITY (V) - low Score: 0.401 • Rank: 43/63



COPING CAPACITY (CC) - low Score: 0.437 • Rank: 46/63



Population (2017) 1,003,114



Population in Poverty 6.0%



Illiterate population 6.6%



Access to improved water 90.8%



Average life expectancy 73.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 20 / 63 PROVINCES

SCORE: 0.616



MHE 0.616 Raw MHE 0.477

Relative MHE 0.582

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1 1003008



2.6%



Wildfire

52.5%



Earthquake 0.0%

MÈ

Landslide 0.0%



Extreme Temperature

88.3%

885565



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 43 / 63 PROVINCES

SCORE: 0.401

Vulnerability in Binh Phuoc is primarily driven by Population Pressures and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 61/63

2.9%

12.6

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 35/63

73.5

Life Expectancy (years)

Infant Mortality Rate (per 1,000

live births)

73.7%

6.0%

(Children <5)

Acute Malnutrition

170.49 48.4 Tuberculosis

Incidence

persons)

(per 100,000

Malaria Prevalance (per 100,000 persons)

186.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

14

Rank: 37/63

90.8% Households

Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 20/63

6.6% Adult Illiteracy 87.8% School Attendance 84.0% Households 6.0%

Rate

without Internet

Housholds without TV



Economic Constraints

Rate

Rank: 32/63

47

6.0%

Economic Dependency Ratio

Poverty



Gender Inequality

0.08 0.3

Income

F M School Enrollment Rate* Inequality*

Rank: 39/63

*Values closer to 1 represent greater gender parity.

Rank: 13/63



Population Pressures

1.8% Average Annual Population

Change

6.2% Average Annual Urban Population

Change

0.5%

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 46 / 63 PROVINCES

high (good).

SCORE: 0.437

Binh Phuoc exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 39/63

5.76 4,403
Time Cost* Income p

5.51

7.95

Income per Capita (in 1,000 VND) Purchasing Business
Power Support
Services*

Entry Costs*

Governance

Rank: 60/63

4.02 4.95
Law and Order* Informal

Informal Charges* 6.36 Transparency*

31.52



Environmental Capacity

Rank: 8/63

29.7%

Protected Area



Infrastructure Capacity

Rank: 40/63



Health Care Capacity Rank: 56/63

93.7% Immunization 4.26

11.92

12.22

Coverage

Healthbeds per 10,000 People

28.15

Physicians per Nurses per 10,000 People 10,000 People

Distance to Hospital (km)



Transportation Capacity Rank: 26/63

4,330

53.52

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 8/63

90.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 34 / 63 PROVINCES

SCORE: 0.518

Binh Phuoc's score and ranking are due to low Vulnerability combined with low Coping Capacity scores.

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







Information Access Vulnerability



Governance



Health Care Capacity

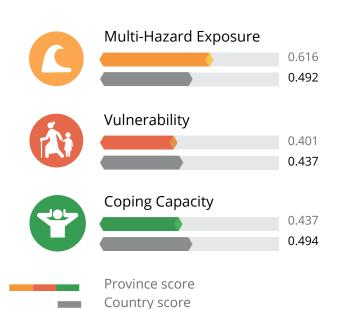


MULTI-HAZARD RISK

17 / 63
Rank within provinces
Score: 0.527

Binh Phuoc's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

BINH THUAN

NDPBA PROVINCE PROFILE



VIỆT NAM BINH THUAN

CAPITAL: PHAN THIẾT

Area: 8,296 km²

Located on the Viet Nam's South Central Coast, Binh Thuan has a long coastline of over 192km and is well known for its scenery and beaches. The province's economy is mostly based on tourism, salt production, fishing and agricultural cultivation and its products. Binh Thuan is also known for titanium reserves and significant potential for solar and wind power generation. The province is vulnerable to frequent drought and strong seasonal sea waves.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.463 • Rank: 39/63



RESILIENCE (R) - high Score: 0.539 • Rank: 26/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.466 • Rank: 38/63



VULNERABILITY (V) - low Score: 0.409 • Rank: 37/63



COPING CAPACITY (CC) - moderate Score: 0.487 • Rank: 27/63



Population (2017) 1,228,312



Population in Poverty 3.8%



Illiterate population 6.7%



Access to improved water 96.0%



Average life expectancy 74.10 years

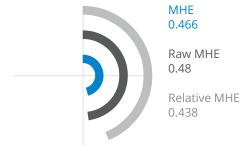
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 38 / 63 PROVINCES

SCORE: 0.466



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0% ♣ 1220713





Wildfire 22.6% 277536







Extreme Temperature 45.5% \$ 558359





VULNERABILITY (V)

RANK: 37 / 63 PROVINCES

SCORE: 0.409

Vulnerability in Binh Thuan is primarily driven by Gender Inequality and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 49/63

2.7%

21.92

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 38/63

74.1

(years)

Life Expectancy

12.5 Infant Mortality Rate (per 1,000

live births)

5.8% Acute Malnutrition

(Children <5)

121.6 Tuberculosis Incidence

(per 100,000

persons)

46.3 Malaria Prevalance

(per 100,000

persons)

99.2

HIV Prevalance (per 100,000 persons)

Clean Water Vulnerability

Rank: 48/63

96.0%

Households

82.5% Households with Hygienic Toilet Access

with Safe Water Access

Rate

Information Access Vulnerability

Rank: 36/63

6.7%

Adult Illiteracy

90.3% School Attendance 84.0% Households without Internet

4.0% Housholds without TV

Rank: 56/63

Rank: 1/63



Economic Constraints

Rate

42.4

3.8%

Economic Dependency Ratio

Poverty



Gender Inequality

0.24 0.49

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 49/63 0.7% 1.9% 2.1%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 27 / 63 PROVINCES

high (good).

SCORE: 0.487

Binh Thuan exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 16/63

6.22 4,032

29.88 6.95

8.19

Income per Capita (in 1,000 Purchasing Power

Transparency*

Business I Support Services*

Entry Costs*



Governance

Law and Order*

Rank: 42/63 4.82 5.58 6.42



Environmental Capacity

Informal

Charges*

Rank: 29/63

8.9%

Protected Area



Infrastructure Capacity

Rank: 34/63



Health Care Capacity Rank: 46/63

 95.3%
 30.07
 5.13
 12.65
 14.36

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 23/63

4,044
Road Density

37.62

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 30/63

84.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 26 / 63 PROVINCES

SCORE: 0.539

Binh Thuan'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:







Vulnerable Health Status



Governance



Health Care Capacity

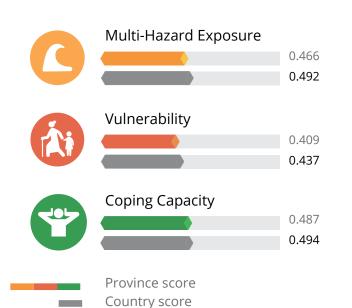


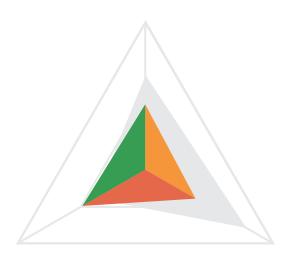
MULTI-HAZARD RISK

39 / 63 Rank within provinces Score: 0.463

Binh Thuan's score and ranking are due to moderate Multi-hazard exposure combined with low Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM —— CA MAU

NDPBA PROVINCE PROFILE



VIỆT NAM CA MAU

CAPITAL: CÀ MAU

Area: 5,303 km²

Located in the Mekong Delta region, Ca Mau is the southernmost province of Viet Nam, bordering to the west by the Gulf of Thailand, and to the south and east by the East Sea. Surrounded by sea and accompanied by a complex rivers and canals network, the province is well-known for swampland and mangrove forests (e.g., U Minh biosphere reserve and Mai Cà Mau national park). Ca Mau's economy is based on fishing, aquaculture, agriculture and ecotourism, while industry is mostly seafood processing.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.363 • Rank: 60/63



RESILIENCE (R) - very high Score: 0.601 • Rank: 11/63



MULTI-HAZARD EXPOSURE - very low Score: 0.29 • Rank: 54/63



VULNERABILITY (V) - very low Score: 0.354 • Rank: 54/63



COPING CAPACITY (CC) - very high Score: 0.555 • Rank: 13/63



Population (2017) 1,272,333



Population in Poverty 4.7%



Illiterate population 4.4%



Access to improved water 99.3%



Average life expectancy 74.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 54 / 63 PROVINCES

SCORE: 0.29



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1269014

₩

Flood
20.5%
260908

(1)

Wildfire

3.0% ▲ 37550

-

Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature

0.0%

. 41





VULNERABILITY (V)

RANK: 54 / 63 PROVINCES

SCORE: 0.354

Vulnerability in Ca Mau is primarily driven by Information Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 62/63

2.5%

6.7

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 34/63

74.6

(years)

Life Expectancy

11.3 Infant Mortality Rate (per 1,000

live births)

8.6% Acute Malnutrition

(Children <5)

74.5 Tuberculosis

Incidence

persons)

(per 100,000

5.67

Malaria Prevalance (per 100,000 persons)

202.4

HIV Prevalance (per 100,000 persons)

www.pdc.org

Clean Water Vulnerability

Rank: 45/63

99.3%

Access

Households with Safe Water

59.2% Households with

Hygienic Toilet Access



Information Access Vulnerability

Rank: 13/63

4.4% Adult Illiteracy

Rate

77.8% School Attendance

Rate

89.0% Households without Internet

6.0% Housholds without TV

Economic Constraints



Rank: 50/63

42.4

4.7%

Economic Dependency Ratio

Poverty



Gender Inequality

0.17 0.06

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 47/63

Rank: 53/63

0.3% Average Annual Population Change

1.8% Average Annual Urban Population Change

7.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 13 / 63 PROVINCES

high (good).

SCORE: 0.555

Ca Mau exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 21/63

7.01 4,125

38.2 Purchasing 6.3

7.97

Income per Purchasii Capita (in 1,000 Power VND) Business Support Services* Entry Costs*



Governance

Rank: 30/63 5.45 6.42 5.81

Law and Order*

Informal Charges* Transparency*



Environmental Capacity

Rank: 6/63

32.5%

Protected Area



Infrastructure Capacity

Rank: 14/63



Health Care Capacity Rank: 36/63

98.4% Immunization 26.24 Healthbeds per

10,000 People

4.9
Physicians per 10,000 People

10.15 Nurses per 10,000 People 9.32 Distance to Hospital (km)



Coverage

Transportation Capacity Rank: 15/63

4,366

35.02

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 5/63

91.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 11 / 63 PROVINCES

SCORE: 0.601

Ca Mau's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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







Vulnerable Health Status



Governance



Health Care Capacity



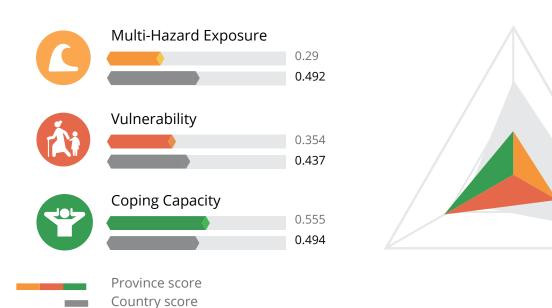
MULTI-HAZARD RISK

60 Rank

60 / 63
Rank within provinces
Score: 0.363

Ca Mau's score and ranking are due to very low Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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





VIỆT NAM

CAN THO

NDPBA PROVINCE PROFILE



VIỆT NAM **CAN THO**

CAPITAL: CAN

Area: 1,496 km²

The fourth largest city in Viet Nam, Can Tho city is the center of the Mekong Delta in terms of economics, culture, science, and technology. Located on the south bank of the Hau River, the city is noted for its floating market, rice paper-making village, and picturesque rural canals. As the main transportation hub for the Lower Mekong Delta region, Can Tho's economic development is growing fast mainly based on industry and service.

RISK AND VULNERABILITY **COMPONENT SCORE**



MULTI-HAZARD RISK - low Score: 0.438 • Rank: 46/63



RESILIENCE (R) - very high Score: 0.602 • Rank: 9/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.517 • Rank: 29/63



VULNERABILITY (V) - low Score: 0.375 • Rank: 50/63



COPING CAPACITY (CC) - very high Score: 0.58 • Rank: 9/63



Population (2017) 1,285,754



Population in Poverty 3.1%



Illiterate population 5.8%



Access to improved water 86.5%



Average life expectancy 75.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 29 / 63 PROVINCES

SCORE: 0.517



MHE 0.517 Raw MHE 0.559 Relative MHE 0.6

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

ॐ

95.0% ▲ 1221008

Wildfire
0.0%

■ 0

_-----

0.0%

Earthquake

Landslide 0.0%

Extreme Temperature
0.0%



Surge **0.0% 0**



VULNERABILITY (V)

RANK: 50 / 63 PROVINCES

SCORE: 0.375

Vulnerability in Can Tho is primarily driven by Population Pressures and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 48/63

2.6%

22.29

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 52/63

75.6

Life Expectancy (years)

9.3 Infant Mortality Rate (per 1,000 5.9% Acute

(Children <5)

103.2 Tuberculosis Malnutrition Incidence

(per 100,000

persons)

0.24

Malaria Prevalance (per 100,000 persons)

410.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 30/63

Access

86.5% Households with Safe Water

69.0% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 29/63

5.8%

Rate

Adult Illiteracy

85.4% School Attendance

77.0% Households without Internet

7.0% Housholds without TV



Economic Constraints

Rate

Rank: 58/63

38.9

3.1%

Economic Dependency Poverty



Gender Inequality

0.12 0.23

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.

Rank: 12/63

Rank: 38/63



Population Pressures

0.9% Average Annual Population

Change

4.5% Average Annual Urban Population

Change

4.6% Net Migration Rate

PDC Global 76

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 9 / 63 PROVINCES

high (good).

SCORE: 0.58

Can Tho exhibits weaker Coping Capacity in the areas of Environmental Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 9/63

6.78 4,288 Time Cost*

52.08 6.84 Purchasing Business 7.86

Income per Capita (in 1,000

Power Support Services* Entry Costs*



Governance

Rank: 14/63

6.51 6.17 Informal 6.32 Transparency*

Law and Order*

Charges*



Environmental Capacity

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 4/63



Health Care Capacity Rank: 19/63

99.1% Immunization Coverage

25.43 Healthbeds per 10,000 People

7.06 Physicians per 10,000 People 11.75 Nurses per 10,000 People 6.97 Distance to Hospital (km)



Transportation Capacity Rank: 9/63

4,468

12.46

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 10/63

89.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 9 / 63 PROVINCES

SCORE: 0.602

Can Tho's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Clean Water Access Vulnerability



Environmental Capacity







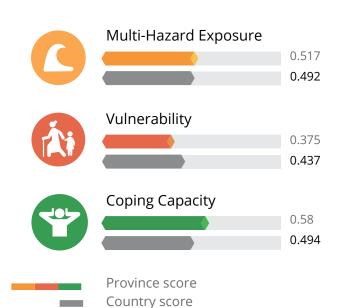
MULTI-HAZARD RISK

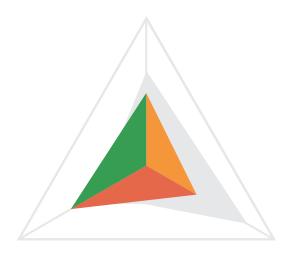
Ra Ra

46 / 63
Rank within provinces
Score: 0.438

Can Tho's score and ranking are due to moderate Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

CAO BANG

NDPBA PROVINCE PROFILE



VIỆT NAM CAO BANG

CAPITAL: CAO BĂNG

Area: 7,949 km²

Cao Bang is located in the northern part of Viet Nam sharing a border with China to the north. The province is covered with mountains and hills and is home to many people from ethnic minority groups, namely Tay, Nung, Dao, and Hmong with distinctive cultural heritages. Cao Bang is one of the poorest region in northern Viet Nam with the economy centered mostly on agriculture and forestry.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.452 • Rank: 42/63



RESILIENCE (R) - very low Score: 0.406 • Rank: 60/63



MULTI-HAZARD EXPOSURE - very low Score: 0.168 • Rank: 61/63



VULNERABILITY (V) - very high Score: 0.579 • Rank: 5/63



COPING CAPACITY (CC) - very low Score: 0.391 • Rank: 60/63



Population (2017) **542,733**



Population in Poverty 24.4%



Illiterate population 14.5%



Access to improved water 35.8%



Average life expectancy 70.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 61 / 63 PROVINCES

SCORE: 0.168



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

Flood 14.1%

2 76765

Wildfire 7.1%



0.0%

Landslide

Extreme Temperature

100.0% **\$** 542733





VULNERABILITY (V)

RANK: 5 / 63 PROVINCES

SCORE: 0.579

Vulnerability in Cao Bang is primarily driven by Clean Water Access Vulnerability and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 34/63

1.4%

36.38

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 9/63

70

Infant Mortality

23.9

6.9% Acute

24.6 Tuberculosis 212.42 Malaria Prevalance 407.7

Life Expectancy (years)

Rate (per 1,000 live births)

Malnutrition (Children <5) Incidence (per 100,000 persons)

HIV Prevalance (per 100,000 (per 100,000 persons) persons)



Clean Water Vulnerability

Rank: 3/63

35.8%

32.0% Households with Households with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 4/63

14.5% Adult Illiteracy

Rate

77.0% School Attendance

Rate

87.0% Households without Internet

22.0% Housholds without TV



Economic Constraints

47 24.4%

Poverty

Economic Dependency Rank: 7/63



Gender Inequality

0.07 0.3

F M School Income Enrollment Rate* Inequality*

Rank: 41/63

Rank: 56/63

*Values closer to 1 represent greater gender parity.



Population Pressures

0.4% 6.4% Average Annual

Average Annual Urban Population Change Population Change

0.1% Net Migration

Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 60 / 63 PROVINCES

high (good).

SCORE: 0.391

Cao Bang exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 32/63

5.03 4,945
Time Cost* Income p

10.27 Purchasing 7.18

7.28

Income per Pur Capita (in 1,000 Pov VND) Business Support Services*



Entry Costs*



Governance

Rank: 61/63

5.61 Law and Order* 4.1
Informal
Charges*

5.72 Transparency*



Environmental Capacity

Rank: 43/63

3.4%

Protected Area



Infrastructure Capacity



Rank: 32/63



Health Care Capacity Rank: 4/63

95.5% Immunization Coverage 42.52 Healthbeds per

10,000 People

13.46 Physicians per 10,000 People 22.78 Nurses per

10,000 People

21.32 Distance to Hospital (km)



Transportation Capacity Rank: 53/63

1,808

76.97

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 57/63

73.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 60 / 63 PROVINCES

SCORE: 0.406

Cao Bang's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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



Clean Water Access Vulnerability



Information Access Vulnerability



Governance



Transportation Capacity



MULTI-HAZARD RISK

42 / Rank with Score: 0

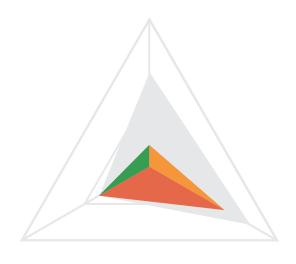
42 / 63
Rank within provinces
Score: 0.452

Cao Bang's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

DA NANG

NDPBA PROVINCE PROFILE



VIỆT NAM DA NANG

CAPITAL: HÅI CHÂU DISTRICT

Area: 1,065 km²

Located on the coast of the East Sea at the mouth of the Han River, Da Nang city is the commercial and educational center of central Viet Nam and the fifth largest city in the country. As one of the most important port cities in Viet Nam, Da Nang has the highest urbanization rate and rapid industrial development with six industrial parks. With rich scenery and cultural heritages and heavy investment, the tourism sector is a vital component of Da Nang's economy. The city consists of both coastal and mountainous terrain, and is susceptible to damage from typhoons and flooding during the wet season.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.333 • Rank: 63/63



RESILIENCE (R) - very high Score: 0.749 • Rank: 1/63



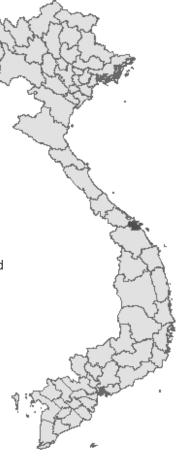
MULTI-HAZARD EXPOSURE - moderate Score: 0.496 • Rank: 32/63



VULNERABILITY (V) - very low Score: 0.288 • Rank: 63/63



COPING CAPACITY (CC) - very high Score: 0.786 • Rank: 1/63





Population (2017) 1,008,358



Population in Poverty 0.8%



Illiterate population 2.5%



Access to improved water 99.3%



Average life expectancy 75.80 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 32 / 63 PROVINCES

SCORE: 0.496



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:

















VULNERABILITY (V)

RANK: 63 / 63 PROVINCES

SCORE: 0.288

Vulnerability in Da Nang is primarily driven by Population Pressures and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 50/63

2.5%

20.79

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 62/63

75.8 (years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

4.0% Acute Malnutrition

(Children <5)

80.7 Tuberculosis Incidence

(per 100,000

persons)

2.68

Malaria Prevalance (per 100,000 persons)

73.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

8.8

Rank: 61/63

Access

99.3% Households with Safe Water

98.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rate

Rank: 60/63

2.5%

Adult Illiteracy

98.2% School

56.0% Households 7.0%

Rank: 57/63

Rank: 19/63

gender parity.

Rank: 7/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints



0.8%

Economic Dependency Poverty



Gender Inequality

0.2

0.24

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater



Population Pressures

2.7% 3.3%

4.9%

Net Migration Rate

Average Annual Population Change

Average Annual Urban Population Change

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 1 / 63 PROVINCES

high (good).

SCORE: 0.786

Da Nang exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 2/63

7.76 Time Cost* 59.26
Purchasing

6.93

8.55 Entry Costs*

5,522 Income per Capita (in 1,000 VND)

Business Support Services*





Rank: 4/63

6.74 Law and Order* 6.29 Informal Charges* 6.46 Transparency*

En

Environmental Capacity

Rank: 4/63

44.3%

Protected Area



Infrastructure Capacity

Rank: 1/63



Health Care Capacity Rank: 1/63

99.2% Immunization Coverage 46.76 Healthbeds per

10,000 People

9.25 Physicians per 10,000 People 17.75 Nurses per

10,000 People

12.61
Distance to
Hospital (km)



Transportation Capacity Rank: 17/63

3,435

22.95

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 1/63

93.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 1 / 63 PROVINCES

SCORE: 0.749

Da Nang's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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









Population Pressures

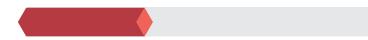
Gender Inequality

Transportation Capacity

Governance



MULTI-HAZARD RISK



63 / 63 Rank within provinces Score: 0.333

Da Nang's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

DAK LAK

NDPBA PROVINCE PROFILE



VIỆT NAM DAK LAK

CAPITAL: BUÔN MA THUỘT

Area: 13,898 km²

Located in the center of Viet Nam's Central Highland, Dak Lak is on a plateau of around 400-800m and shares a border with Cambodia to the west. The region is known for the diverse yet deeply-rooted traditions and cultures - home to a high number of indigenous people namely E \Box e, Ja rai, M'nong. Prominent outputs of the province are coffee, fruit, rubber, tea and pepper while tourism and hydropower also play a role in Dak Lak's economy.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.513 • Rank: 21/63



RESILIENCE (R) - very low Score: 0.479 • Rank: 52/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.499 • Rank: 31/63



VULNERABILITY (V) - very high Score: 0.501 • Rank: 12/63



COPING CAPACITY (CC) - low Score: 0.46 • Rank: 40/63



Population (2017) 1,941,816



Population in Poverty 10.0%



Illiterate population 7.1%



Access to improved water 79.4%



Average life expectancy **70.10 years**

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 31 / 63 PROVINCES

SCORE: 0.499



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

100.09 **1** 1941806 **₩**

Flood
6.2%
▲ 120498

(1)

Wildfire

44.5%

2 864155



Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature

16.1% **3** 313341





VULNERABILITY (V)

RANK: 12 / 63 PROVINCES

SCORE: 0.501

Vulnerability in Dak Lak is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 28/63

-3.2%

24.57

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

24

Rank: 13/63

70.1

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

7.2% Acute Malnutrition

(Children <5)

30.6 Tuberculosis

Incidence

persons)

(per 100,000

125.18

Malaria Prevalance (per 100,000 persons)

93.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 14/63

79.4%

Households

with Safe Water Access

48.0% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 26/63

Rank: 22/63

Rank: 32/63

7.1%

Rate

Adult Illiteracy

89.2% School Attendance 82.0% Households without Internet

6.0% Housholds without TV



Economic Constraints

Rate

46.5 10.0%

Economic

Dependency Ratio

Poverty



Gender Inequality

Rank: 16/63

0.14 0.39

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

1.2% 2.0% 2.3%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 40 / 63 PROVINCES

high (good).

SCORE: 0.46

Dak Lak exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 50/63

6.02 3,957

6.8

6.99

Income per Purchasing Capita (in 1,000 Power VND)

Business Support Services* Entry Costs*



Governance

Rank: 39/63 5.84 4.88 6.34

Law and Order*

Informal Charges* 6.34 Transparency*

28.14



Environmental Capacity

Rank: 12/63

19.0%

Protected Area



Infrastructure Capacity

Rank: 37/63



Health Care Capacity Rank: 54/63

93.9% Immunization Coverage 25.64 Healthbeds per 10,000 People 5.87
Physicians per 10,000 People

11.17 Nurses per

10,000 People

14.39 Distance to Hospital (km)



Transportation Capacity Rank: 18/63

4,967

44.56

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 21/63

87.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 52 / 63 PROVINCES

SCORE: 0.479

Dak Lak's score and ranking are due to very high Vulnerability combined with low Coping Capacity scores.

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









Clean Water Access Vulnerability

Gender Inequality

Health Care Capacity

Economic Capacity

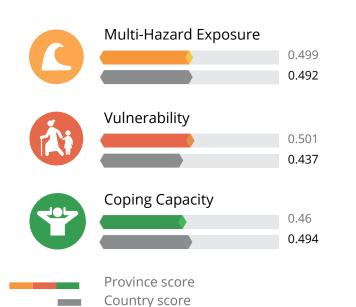


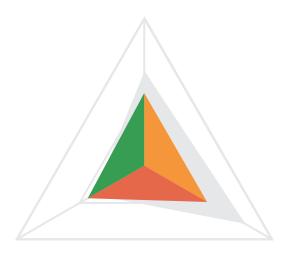
MULTI-HAZARD RISK

21 / 63
Rank within provinces
Score: 0.513

Dak Lak's score and ranking are due to moderate Multi-hazard exposure combined with very high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

DAK NONG

NDPBA PROVINCE PROFILE



VIỆT NAM DAK NONG

CAPITAL: GIA NGHĨA

Area: 6,846 km²

Dak Nong province is located in the southwestern part of the Central Highland of Viet Nam, adjacent to Cambodia to the west. Dak Nong is quite similar to Dak Lak in terms of geography and culture. The relatively flat cultivated surface with mainly bazan makes Dak Nong favorable for long-day industrial crops. Coffee, pepper and rubber are the most important products of the province.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.488 • Rank: 28/63



RESILIENCE (R) - very low Score: 0.423 • Rank: 58/63



MULTI-HAZARD EXPOSURE - very low Score: 0.309 • Rank: 52/63



VULNERABILITY (V) - very high Score: 0.513 • Rank: 9/63



COPING CAPACITY (CC) - very low Score: 0.359 • Rank: 62/63



Population (2017) **607,165**



Population in Poverty 15.7%



Illiterate population 6.3%



Access to improved water 89.3%



Average life expectancy 69.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 52 / 63 PROVINCES

SCORE: 0.309



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

\$

5.3% \$31912 (1)

Wildfire 60.7% ▲ 368489



0.0%

Earthquake

MÈ.

Landslide 0.0%

Extreme Temperature
0.0%





VULNERABILITY (V)

RANK: 9 / 63 PROVINCES

SCORE: 0.513

Vulnerability in Dak Nong is primarily driven by Economic Constraints and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 56/63

-2.1%

7.64

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 12/63

69.2 (years)

Life Expectancy

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

7.1% Acute Malnutrition

(Children <5)

27.1 Tuberculosis

Incidence

persons)

(per 100,000

Malaria Prevalance (per 100,000 persons)

109.57

93.5

HIV Prevalance (per 100,000 persons)

www.pdc.org



Clean Water Vulnerability

Rank: 27/63

Access

89.3% Households

58.4% Households with with Safe Water Hygienic Toilet Access

Information Access Vulnerability

Rank: 18/63

Rank: 10/63

6.3% Adult Illiteracy

Rate

87.6% School Attendance

Rate

87.0% Households

without Internet

6.0% Housholds without TV

Economic Constraints

15.7%

54.1 Economic Dependency

Poverty

Gender Inequality

Rank: 24/63

0.11

Ratio

0.34

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 10/63

3.9% Average Annual Population Change

4.5% Average Annual Urban Population Change

1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 62 / 63 PROVINCES

high (good).

SCORE: 0.359

Dak Nong exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 56/63

6.18 4,599
Time Cost* Income p

4,599 18.6
Income per Purchasing Capita (in 1,000 Power

6.19
Business
Support

7.06 Entry Costs*

Support Services*



Governance

Rank: 62/63

4.27 4.11 5.94
Law and Order* Informal Charges* Transparency*

VND)



Environmental Capacity

Rank: 13/63

18.7%

Protected Area



Infrastructure Capacity

Rank: 53/63



Health Care Capacity Rank: 61/63

 94.2%
 19.32
 4.06
 10.24
 16.24

 Immunization Coverage
 Healthbeds per 10,000 People 10



Transportation Capacity Rank: 32/63

3,160 45.45

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 25/63

86.2% Households with Phone Access

(Landline/Mobile)



RESILIENCE (R)

RANK: 58 / 63 PROVINCES

SCORE: 0.423

Dak Nong's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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









Economic Constraints

Vulnerable Health Status

Governance

Health Care Capacity



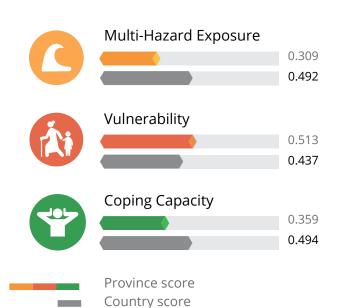
MULTI-HAZARD RISK



28 / 63 Rank within provinces Score: 0.488

Dak Nong's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

DIEN BIEN

NDPBA PROVINCE PROFILE



VIỆT NAM **DIEN BIEN**

CAPITAL: ĐIỆN BIÊN PHỦ

Area: 11.093 km²

Dien Bien is a mountainous province located in the Northwest region of Viet Nam, adjacent China to the northwest and Laos to the west. Dien Bien is well known for its vast Muong Thanh valley, where famous Dien Bien rice is grown. Besides agriculture and forest products, the province's economy is also based on tourism and international trade for its important position as main gateway to the northwest region and its historical / cultural riches. Currently, Dien Bien is the home of 21 ethnic groups, including Thai, Hmong, Klnh, Dao, and Kho Mu people.





MULTI-HAZARD RISK - very high Score: 0.649 • Rank: 1/63



RESILIENCE (R) - very low Score: 0.382 • Rank: 62/63



MULTI-HAZARD EXPOSURE - very high Score: 0.711 • Rank: 4/63



VULNERABILITY (V) - very high Score: 0.647 • Rank: 2/63



COPING CAPACITY (CC) - very low

Score: 0.411 • Rank: 58/63





Population (2017) 559,711



Population in Poverty 29.1%



Illiterate population 24.9%



Access to improved water 31.8%



Average life expectancy 67.20 years

^{*}For more information on data and components please visit: https://bit.lv/2LgVoUO



MULTI-HAZARD EXPOSURE

RANK: 4 / 63 PROVINCES

SCORE: 0.711



MHE 0.711 Raw MHE 0.353 Relative MHE 0.744

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

≜ 0

€

Flood
24.0%

13/167

(1)

Wildfire 84.7% ■ 474294



Earthquake 92.5% 517975

MÈ

Landslide 12.7% ▲ 71224

Extreme Temperature 99.2% \$555063



Surge **0.0%**



VULNERABILITY (V)

RANK: 2 / 63 PROVINCES

SCORE: 0.647

Vulnerability in Dien Bien is primarily driven by Economic Constraints and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 46/63

1.1%

20.44

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 4/63

67.2

Life Expectancy (years)

33.8 Infant Mortality Rate (per 1,000

live births)

28.6%

7.5% Acute Malnutrition (Children <5)

12.6 Tuberculosis Incidence (per 100,000

persons)

54.93 Malaria Prevalance

persons)

(per 100,000 persons)

850.6 HIV Prevalance (per 100,000



Clean Water Vulnerability

Rank: 2/63

31.8%

Households with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 3/63

Rank: 1/63

24.9% Adult Illiteracy

Rate

83.9% School Attendance 88.0% Households without Internet

30.0% Housholds without TV



Economic Constraints

Rate

62.8 29.1%

Economic Dependency Poverty



Gender Inequality

Rank: 49/63

0.08 0.26

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 45/63

2.5% Average Annual Population Change

1.7% Average Annual Urban Population Change

0.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 58 / 63 PROVINCES

high (good).

SCORE: 0.411

Dien Bien exhibits weaker Coping Capacity in the areas of Communications Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 13/63

6.23 5,954
Time Cost* Income of

6.93

Busines

7.74

Income per Purchasing Capita (in 1,000 Power VND)

12.64

Business Support Services* Entry Costs*



Governance

Rank: 38/63 6 4.47 6.36

Law and Order* Informal Charges*

mal Transparency*



Environmental Capacity

Rank: 38/63

5.6%

Protected Area



Infrastructure Capacity

Rank: 63/63



Health Care Capacity Rank: 39/63

89.4% Immunization

35.46 Healthbeds per 9.42

16.11

25.33

Coverage

10,000 People

Physicians per Nurses per 10,000 People 10,000 People

Distance to Hospital (km)



Transportation Capacity Rank: 62/63

1,171

133.49

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 63/63

57.0%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 62 / 63 PROVINCES

SCORE: 0.382

Dien Bien's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Clean Water Access Vulnerability



Communications Capacity



Transportation Capacity

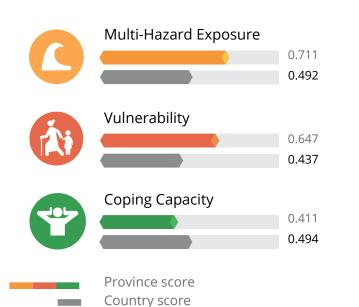


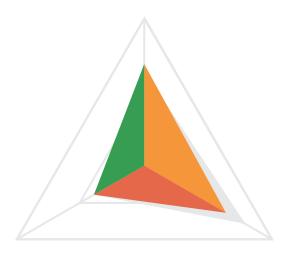
MULTI-HAZARD RISK

1 / 63
Rank within provinces
Score: 0.649

Dien Bien's score and ranking are due to very high Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

DONG NAI

NDPBA PROVINCE PROFILE



VIỆT NAM DONG NAI

CAPITAL: BIÊN HÒA

Area: 6,092 km²

Neighboring Ho Chi Minh City to the northeast, Dong Nai is an important province in the Southern economic main hub and is second only to Bình Dang in both population growth and net migration. The province is a main manufacturing center with about 100 major plants and enterprises. The plain terrain with mostly bazan and alluvial soil provides good conditions for growing fruits and industrial plants.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.41 • Rank: 53/63



RESILIENCE (R) - very high Score: 0.631 • Rank: 4/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.49 • Rank: 33/63



VULNERABILITY (V) - very low Score: 0.357 • Rank: 53/63



COPING CAPACITY (CC) - very high Score: 0.618 • Rank: 6/63



Population (2017) 2,928,784



Population in Poverty 0.8%



Illiterate population 2.9%



Access to improved water 97.8%



Average life expectancy 76.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 33 / 63 PROVINCES

SCORE: 0.49



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 2928505



10.1%

294775



Wildfire

32.8%

2 959791



Earthquake 0.0%

2 0



Landslide 0.0%



Extreme Temperature

0.4%

10381



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 53 / 63 PROVINCES

SCORE: 0.357

Vulnerability in Dong Nai is primarily driven by Population Pressures and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 20/63

2.1%

73.41

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

7.7

Rank: 56/63

76.4

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births) 7.0% Acute Malnutrition

(Children <5)

51.7
Tuberculosis Incidence

persons)

(per 100,000

6.62

Malaria Prevalance (per 100,000 persons) 216.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 55/63

Access

97.8% Households with Safe Water 95.8% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 53/63

Rank: 61/63

2.9% Adult Illiteracy

Rate

94.0% School Attendance 77.0% Households 5.0%

nce without Internet

Housholds without TV



Economic Constraints

Rate

38.5 0.8%

Economic Dependency

Poverty



Gender Inequality

Rank: 15/63

0.11

0.43

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 4/63 8% 3.9% 14.1%

2.8%
Average Annual Population Change

Average Annual Urban Population Change 14.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 6 / 63 PROVINCES

high (good).

SCORE: 0.618

Dong Nai exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 7/63

6.51 5,321
Time Cost* Income per

42.23
Purchasing
Power

6.75

8.05 Entry Costs*

Support Services*



Governance

Rank: 33/63 5.77 5.01 6.24

Law and Order*

Informal Charges*

VND)

Capita (in 1,000

Transparency*



Environmental Capacity

Rank: 3/63

44.7%

Protected Area



Infrastructure Capacity

Rank: 6/63



Health Care Capacity Rank: 30/63

99.4% Immunization Coverage 25.82 Healthbeds per 10,000 People 4.69
Physicians per 10,000 People

11.43 Nurses per 10,000 People 11.73
Distance to
Hospital (km)



Transportation Capacity Rank: 3/63

7,545

25.99

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 7/63

90.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 4 / 63 PROVINCES

SCORE: 0.631

Dong Nai's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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









Population Pressures

Gender Inequality

Governance

Health Care Capacity



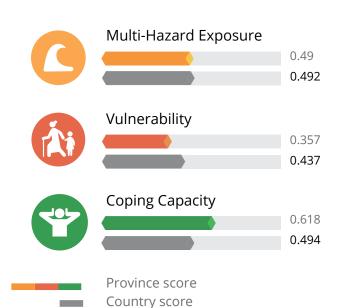
MULTI-HAZARD RISK

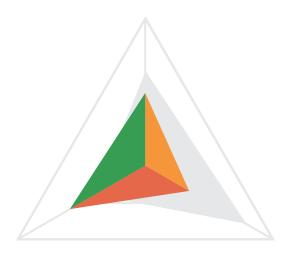


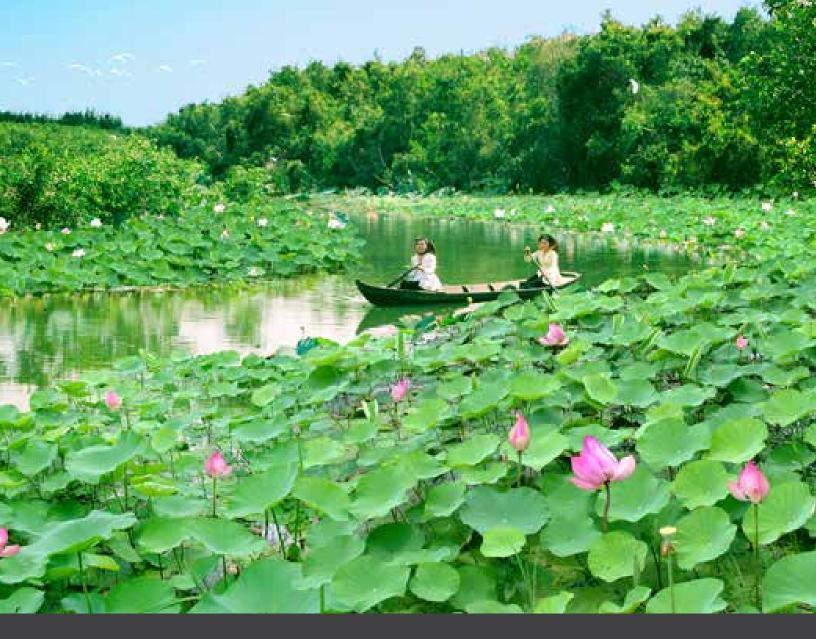
53 / 63 Rank within provinces Score: 0.41

Dong Nai's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

DONG THAP

NDPBA PROVINCE PROFILE



VIỆT NAM DONG THAP

CAPITAL: CAO LÃNH

Area: 3,522 km²

Dong Thap province is located in the Mekong Delta region of Southern Viet Nam, bordering with Cambodia to the northwest. Possessing good soil, climate, and large river, canal and spring systems, Dong Thap is a major supplier of aquaculture and agriculture products, including fruit, flowers, and rice (3rd largest paddy field in the country). The province is also well known for its submerged in-land ecosystem of Dong Thap Muoi and Tram Chim National Park.

ioi

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.45 • Rank: 44/63



RESILIENCE (R) - very high Score: 0.62 • Rank: 6/63



MULTI-HAZARD EXPOSURE - high Score: 0.59 • Rank: 24/63



VULNERABILITY (V) - low Score: 0.404 • Rank: 41/63



COPING CAPACITY (CC) - very high Score: 0.645 • Rank: 4/63



Population (2017) 1,825,101



Population in Poverty 7.2%



Illiterate population 6.4%



Access to improved water 69.0%



Average life expectancy 74.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 24 / 63 PROVINCES

SCORE: 0.59



MHE 0.59 Raw MHE 0.665 Relative MHE 0.595

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

92.3%

Flood



Wildfire
6.7%
▲ 122614



0.0%

Earthquake

Landslide 0.0%

Extreme Temperature1.7%31316





VULNERABILITY (V)

RANK: 41 / 63 PROVINCES

SCORE: 0.404

Vulnerability in Dong Thap is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 63/63

17.0%

22.18

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 40/63

74.4

(years)

Life Expectancy

11.9 Infant Mortality Rate (per 1,000

live births)

6.7% Acute

(Children <5)

99.6 Tuberculosis Malnutrition Incidence

(per 100,000

persons)

1.72 Malaria

Prevalance (per 100,000 persons)

271.2

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 17/63

69.0% Households

60.5% Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 21/63

Rank: 45/63

Rank: 13/63

Rank: 52/63

6.4%

Rate

Adult Illiteracy

88.2% School

88.0% Households 4.0% Housholds

Attendance Rate

without Internet

without TV



Economic Constraints

40.7

7.2%

Economic Dependency Ratio

Poverty



Gender Inequality

0.24 0.25

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

0.3% 1.4% 7.3%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 4 / 63 PROVINCES

high (good).

SCORE: 0.645

Dong Thap exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 23/63

8.69 3,446 Time Cost*

Purchasing

35.5

Power

8.3

Income per Capita (in 1,000 Business Support Services*

6.7

Entry Costs*



Governance

Rank: 1/63 6.86 7.25 Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 45/63

3.0%

7.1

Protected Area



Infrastructure Capacity

Rank: 13/63



Health Care Capacity Rank: 29/63

25.44 8.87 97.4% 5.64 12.45 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 7/63

4,700 11.07

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 28/63

85.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 6 / 63 PROVINCES

SCORE: 0.62

Dong Thap's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Gender Inequality



Economic Capacity



Health Care Capacity



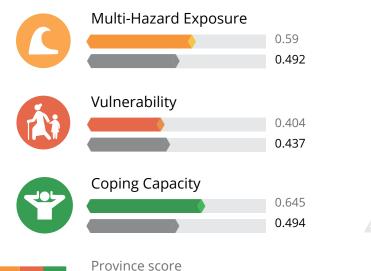
MULTI-HAZARD RISK



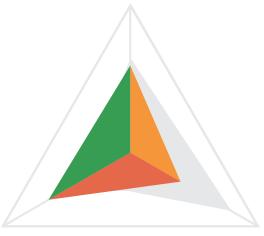
44 / 63 Rank within provinces Score: 0.45

Dong Thap's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM —

NDPBA PROVINCE PROFILE



VIỆT NAM GIA LAI

CAPITAL: PLEIKU

Area: 18,202 km²

Located in the north of Viet Nam's Central Highland, Gia Lai shares a border with Cambodia to the west - with a mix of mountains, plateaus, and valleys. The province is the home to a number of indigenous people namely Ja rai, Ba Na, and E \(\text{=e}, \) with a long history and old ethnic culture. Currently, Gia Lai is a main supplier of rubber, coffee, fruit and other agriculture products with high hydropower generation potential.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.531 • Rank: 14/63



RESILIENCE (R) - very low Score: 0.426 • Rank: 57/63



MULTI-HAZARD EXPOSURE - low Score: 0.446 • Rank: 41/63



VULNERABILITY (V) - very high Score: 0.565 • Rank: 6/63



COPING CAPACITY (CC) - very low Score: 0.418 • Rank: 55/63



Population (2017) 1,460,930



Population in Poverty 15.7%



Illiterate population 16.0%



Access to improved water 83.8%



Average life expectancy 68.70 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 41 / 63 PROVINCES

SCORE: 0.446



MHE

Raw MHE 0.502

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 8.2%

Wildfire

22.1%



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature

34.0%

496673



Surge



VULNERABILITY (V)

RANK: 6 / 63 PROVINCES

SCORE: 0.565

Vulnerability in Gia Lai is primarily driven by Vulnerable Health Status and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 30/63

-3.2%

22.37

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 6/63

68.7

(years)

Life Expectancy

26.3

8.9% Acute

27.2

321.21 Malaria

59.5

Infant Mortality Rate (per 1,000 live births)

Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 20/63

83.8%

55.6% Households Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 10/63

Rank: 8/63

Rank: 14/63

Rank: 34/63

16.0%

75.6% School

84.0%

6.0%

Adult Illiteracy Rate

Attendance Rate

Households without Internet

Housholds without TV



Economic Constraints

54.6

Ratio

15.7%

Economic Dependency Poverty



Gender Inequality

0.4

Income Inequality*

Change

0.14

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

1.9% Average Annual Population

3.0% Average Annual Urban Population Change

0.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 55 / 63 PROVINCES

high (good).

SCORE: 0.418

Gia Lai exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 36/63

5.23 3,946 Time Cost*

29.14 Purchasing 7.19 Business

7.13

Income per VND)

Capita (in 1,000 Power

Support Services* Entry Costs*



Governance

Rank: 50/63

5.7 Law and Order*

4.86 Informal Charges* 6.46 Transparency*



Environmental Capacity

Rank: 23/63

10.7%

Protected Area



Infrastructure Capacity

Rank: 54/63



Health Care Capacity Rank: 55/63

93.6% Immunization Coverage

24.64 Healthbeds per 10,000 People

5.91 Physicians per

10,000 People

13.13 Nurses per

10,000 People

18.41 Distance to Hospital (km)



Transportation Capacity Rank: 52/63

4,418

123.92

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 29/63

84.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 57 / 63 PROVINCES

SCORE: 0.426

Gia Lai's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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











Health Care Capacity

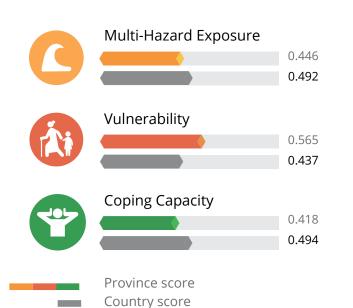


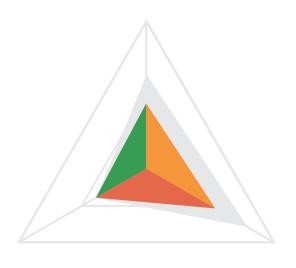
MULTI-HAZARD RISK

14 / 63 Rank within provinces Score: 0.531

Gia Lai's score and ranking are due to low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

HA GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM HA GIANG

CAPITAL: HÀ GIANG

Area: 9,415 km²

As the northern-most province of Viet Nam, Ha Giang belongs to the mountainous region and shares a border with China to the north. Hà Giang is one of the poorest provinces of Viet Nam with economic activities revolved around small-scale agriculture and forestry due to its mountainous topography and limited infrastructure. As the home of more than 20 ethnic minority groups, most notably the Hmong, Tay, Dao, Nung, and Lo Lo people, the province is well-known by the rich culture and traditional value.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.495 • Rank: 26/63



RESILIENCE (R) - very low Score: 0.407 • Rank: 59/63



MULTI-HAZARD EXPOSURE - very low Score: 0.298 • Rank: 53/63



VULNERABILITY (V) - very high Score: 0.641 • Rank: 3/63



COPING CAPACITY (CC) - low Score: 0.454 • Rank: 42/63



Population (2017) 823,893



Population in Poverty 24.2%



Illiterate population 25.1%



Access to improved water 31.7%



Average life expectancy 67.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 53 / 63 PROVINCES

SCORE: 0.298



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

ॐ

17.7%

(1)

7.5% 61449



Earthquake
0.0%

MÈ

Landslide 26.2%

Extreme Temperature 95.4% 2786114



0.0%



VULNERABILITY (V)

RANK: 3 / 63 PROVINCES

SCORE: 0.641

Vulnerability in Ha Giang is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 27/63

0.0%

37.53

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 2/63

67.2 (years)

Life Expectancy

Infant Mortality Rate (per 1,000 9.8% Acute Malnutrition

(Children <5)

25 Tuberculosis

Incidence

persons)

(per 100,000

23.2 Malaria Prevalance 151.4

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

33.6

live births)

Rank: 5/63

31.7%

Access

Households with Safe Water

37.5% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 1/63

25.1% Adult Illiteracy

Rate

79.8% School

90.0% Households 25.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

57.3

24.2%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 58/63

Rank: 3/63

0.1

0.11

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 11/63

1.8% Average Annual Population Change

5.4% Average Annual Urban Population Change

1.5% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 42 / 63 PROVINCES

high (good).

SCORE: 0.454

Ha Giang exhibits weaker Coping Capacity in the areas of Communications Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 37/63

7.27 5,070
Time Cost* Income per

6.26 Business 7.91

Income per Purchasing Bus Capita (in 1,000 Power Sup VND) Power Ser

7.85

Business Support Services* Entry Costs*



Governance

Rank: 21/63

7.01 4.49
Law and Order* Informal Charges*

6.18
Transparency*



Environmental Capacity

Rank: 36/63

6.5%

Protected Area



Infrastructure Capacity

Rank: 60/63



Health Care Capacity Rank: 32/63

92.7% Immunization Coverage 34.5 Healthbeds per 10,000 People 8.34
Physicians per 10,000 People

17.27 Nurses per 10,000 People 18.29 Distance to Hospital (km)

Transportation Capacity Rank: 54/63

2,013

92.91

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 59/63

70.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 59 / 63 PROVINCES

SCORE: 0.407

Ha Giang's score and ranking are due to very high Vulnerability combined with low Coping Capacity scores.

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







Economic Constraints



Communications Capacity



Transportation Capacity



MULTI-HAZARD RISK

Rar

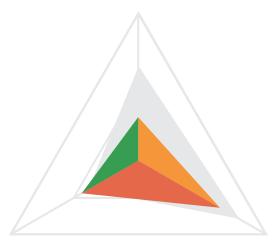
26 / 63 Rank within provinces Score: 0.495

Ha Giang's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and low Coping Capacity scores.

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



Country score





VIỆT NAM

HANAM

NDPBA PROVINCE PROFILE



VIỆT NAM HA NAM

CAPITAL: PHỦ LÝ

Area: 988 km²

Neighboring Hanoi Capital to the south, Ha Nam is a province in the Red River Delta. With lowland terrain and a wide irrigation network, the province's economy is traditionally based on agriculture, aquaculture, poultry, and handicraft production. With Hanoi expansion, Ha Nam is rapidly developing with new urban complex, education institutions, and industrial parks.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.56 • Rank: 8/63



RESILIENCE (R) - low Score: 0.513 • Rank: 40/63



MULTI-HAZARD EXPOSURE - very high Score: 0.706 • Rank: 5/63



VULNERABILITY (V) - moderate Score: 0.407 • Rank: 39/63



COPING CAPACITY (CC) - very low Score: 0.433 • Rank: 51/63



Population (2017) 823,794



Population in Poverty 5.5%



Illiterate population 1.8%



Access to improved water 99.6%



Average life expectancy 74.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 5 / 63 PROVINCES

SCORE: 0.706



MHE 0.706 Raw MHE 0.542

> Relative MHE 1

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

.0%

Flood
87.9%

2 724493

(3)

Wildfire
0.0%
▲ 0



Earthquake
0.0%

Landslide 0.0%

Extreme Temperature
100.0%

823794



0.0%



VULNERABILITY (V)

RANK: 39 / 63 PROVINCES

SCORE: 0.407

Vulnerability in Ha Nam is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 9/63

1.5%

136.15

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 44/63

74.3

Life Expectancy (years)

12 Infant Mortality Rate (per 1,000

live births)

6.4%
Acute
Malnutrition
(Children <5)

43.7
Tuberculosis
Incidence

(per 100,000

persons)

44.53 Malaria Prevalance (per 100,000

persons)

116.7 HIV Prevalance (per 100,000 persons)

www.pdc.org

Clean Water Vulnerability

Rank: 50/63

99.6%

Households with Safe Water

Access

74.6% Households with Hygienic Toilet



Information Access Vulnerability

Access

Rank: 52/63

1.8%

Rate

Adult Illiteracy

98.2% School Attendance 91.0% Households without Internet 4.0% Housholds without TV



Economic Constraints



Rank: 38/63

Rank: 22/63

gender parity.

46.4

5.5% Poverty

Rate

Economic Dependency Ratio

Gender Inequality



0.13 0.35

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater



Population Pressures

Rank: 6/63

0.1%
Average Annual
Population
Change

9.6%
Average
Annual Urban
Population
Change

3.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 51 / 63 PROVINCES

high (good).

SCORE: 0.433

Ha Nam exhibits weaker Coping Capacity in the areas of Economic Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 57/63

7.03 3,824
Time Cost* Income per

17.49 Purchasing 6.21

7.77 Entry Costs*

Capita (in 1,000 Power Support Services*



Governance

Rank: 26/63
5.77 5.36 6.35
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 56/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 29/63



Health Care Capacity Rank: 9/63

99.5% 31.51 6.15 13.84 5

 Immunization
 Healthbeds per Coverage
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to 10,000 People
 Hospital (km)



Transportation Capacity Rank: 44/63

1,232 20.42

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 55/63

74.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 40 / 63 PROVINCES

SCORE: 0.513

Ha Nam's score and ranking are due to moderate Vulnerability combined with very low Coping Capacity scores.

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







Population Pressures



Economic Capacity



Communications Capacity

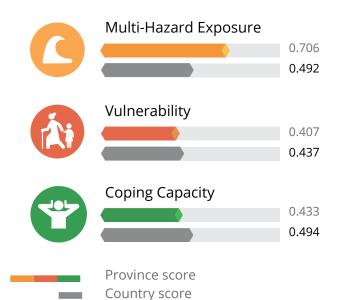


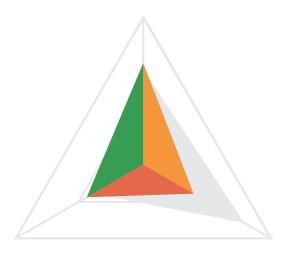
MULTI-HAZARD RISK

8 / 63 Rank within provinces Score: 0.56

Ha Nam's score and ranking are due to very high Multi-hazard exposure combined with moderate Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

HA NOI

NDPBA PROVINCE PROFILE



VIỆT NAM HA NOI

CAPITAL: HOÀN KIẾM DISTRICT

Area: 3,989 km²

Located at the center of the Red River Delta, Ha Noi - the Capital city of Viet Nam -, is the country's second largest city in population (about 7.7 million people in 2015). The city has a long history of more than 1,000 years and is rich in culture and natural landscapes, including certain landmarks for tourists such as the old quarter, colonial Hanoi, Thang Long imperial citadel, lakes, Ba Vi sacred peaks and many traditional handicrafts and villages. Hanoi rapidly urbanized as its economy gradually transformed from agriculture to trade, tourism, service, and industry-based.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.472 • Rank: 34/63



RESILIENCE (R) - very high Score: 0.611 • Rank: 7/63



MULTI-HAZARD EXPOSURE - very high Score: 0.639 • Rank: 12/63



VULNERABILITY (V) - very low Score: 0.32 • Rank: 60/63



COPING CAPACITY (CC) - high Score: 0.542 • Rank: 16/63



Population (2017) **7,402,247**



Population in Poverty 1.8%



Illiterate population 1.5%



Access to improved water 99.4%



Average life expectancy 75.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 12 / 63 PROVINCES

SCORE: 0.639



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

6.8%

\$ 500109



Flood

35.3%

2610232



Wildfire

0.2%

1352



Earthquake

0.6%

45299



Landslide

0.1%

\$ 5233



Extreme Temperature

100.0%

4 7402247



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 60 / 63 PROVINCES

SCORE: 0.32

Vulnerability in Ha Noi is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 4/63

-3.6%

143.79

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 61/63

75.2

(years)

Life Expectancy

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

5.8% Acute Malnutrition (Children <5)

26.4 Tuberculosis Incidence

persons)

0.23 Malaria Prevalance (per 100,000 (per 100,000 persons)

300.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 57/63

Access

99.4% Households with Safe Water

92.3% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 63/63

1.5%

Adult Illiteracy Rate

98.5% School Attendance

Rate

56.0% Households without Internet

4.0% Housholds without TV



Economic Constraints

Rank: 51/63

45.6

1.8%

Economic Dependency Poverty



Gender Inequality

Rank: 45/63

0.12 0.2

Income

F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 14/63

2.3% Average Annual Population

Change

Average Annual Urban Population

5.1%

Change

0.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 16 / 63 PROVINCES

high (good).

SCORE: 0.542

Ha Noi exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 5/63

7.19 5,703 Time Cost* Income p 52.13 7.68
Purchasing Business

6.72

Income per Capita (in 1,000 VND) Purchasing Business
Power Support
Services*

Entry Costs*



Governance

Rank: 47/63

4.88

4.4

6.31

Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 44/63

3.1%

Protected Area



Infrastructure Capacity

Rank: 15/63



Health Care Capacity Rank: 59/63

95.0% 15.01 4.94 10.1 6.78

Immunization Healthbeds per Coverage 10,000 People 10,000



Transportation Capacity Rank: 2/63

12,143

Road Density Distance to Airport (km per sq. km) or Seaport (km)

15.99



Communications Capacity Rank: 6/63

91.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 7 / 63 PROVINCES

SCORE: 0.611

Ha Noi's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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



Stress







Population Prėssures

Health Care Capacity

Governance

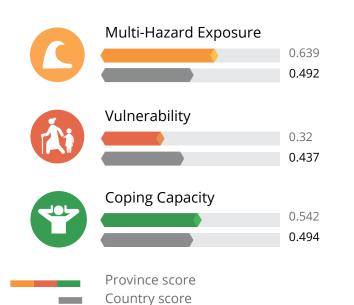


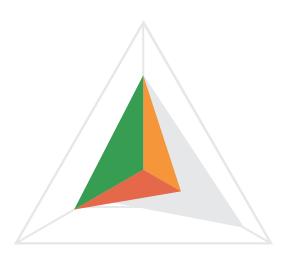
MULTI-HAZARD RISK

34 / 63 Rank within provinces Score: 0.472

Ha Noi's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

HA TINH

NDPBA PROVINCE PROFILE



VIỆT NAM HA TINH

CAPITAL: HÀ TĨNH

Area: 6,654 km²

Ha Tinh province is located in the North Central Coast of Viet Nam, sharing a border with Laos to the west. The deep-cut terrain with harsh climate conditions accompanied with frequent typhoons makes the province one of the poorest provinces in Viet Nam. Ha Tinh's economy is mostly based on agriculture, mining, fishing, and food processing. The recently established Vung Ang economic zone with a deep seaport, steel mill, and thermal power plant is expected to transform the province's economy.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.539 • Rank: 11/63



RESILIENCE (R) - low Score: 0.498 • Rank: 44/63



MULTI-HAZARD EXPOSURE - high Score: 0.613 • Rank: 21/63



VULNERABILITY (V) - high Score: 0.452 • Rank: 23/63



COPING CAPACITY (CC) - low Score: 0.448 • Rank: 44/63



Population (2017) 1,252,519



Population in Poverty 13.3%



Illiterate population 2.4%



Access to improved water 93.8%



Average life expectancy 72.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 21 / 63 PROVINCES

SCORE: 0.613



MHE 0.613

Raw MHE 0.589

Relative MHE 0.711

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood 21.0% ▲ 263331



Wildfire **8.7% ♣** 109313



0.0%

Earthquake



Landslide
0.0%



Extreme Temperature 100.0% ▲ 1252519



Surge **0.0%**



VULNERABILITY (V)

RANK: 23 / 63 PROVINCES

SCORE: 0.452

Vulnerability in Ha Tinh is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 25/63

0.3%

43.72

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 23/63

72.3

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

17.1

6.5% Acute Malnutrition

(Children <5)

44.5 Tuberculosis Incidence (per 100,000

persons)

91.29

Malaria Prevalance (per 100,000 persons)

67.5

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 22/63

93.8%

Households with Safe Water Access

45.0% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 39/63

2.4% Adult Illiteracy

Rate

Rate

98.1% School Attendance 87.0% Households without Internet 9.0% Housholds without TV



Economic Constraints

54.8

13.3%

Economic Dependency Poverty



Gender Inequality

0.23

0.11

F M School Income Enrollment Rate* Inequality*

Rank: 43/63

Rank: 11/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 46/63

0.1% Average Annual Population Change

4.7% Average Annual Urban Population Change

4.3% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 44 / 63 PROVINCES

high (good).

SCORE: 0.448

Ha Tinh exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 26/63

5.65 4,207
Time Cost* Income per

6.9 Business 7.56

Income per Purchasing
Capita (in 1,000 Power
VND)

29.62

Business Entry Costs* Support Services*



Governance

Rank: 53/63 5.75 4.76 6.16

Law and Order* Informal Charges*

Transparency*



Environmental Capacity

Rank: 19/63

13.1%

Protected Area



Infrastructure Capacity

Rank: 47/63



Health Care Capacity Rank: 34/63

98.3% Immunization Coverage 30.28 Healthbeds per 10,000 People 7.19
Physicians per 10,000 People

12.72 Nurses per

10,000 People

28.67
Distance to Hospital (km)



Transportation Capacity Rank: 56/63

3,792

133.13

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 24/63

86.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 44 / 63 PROVINCES

SCORE: 0.498

Ha Tinh's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Economic Constraints



Governance



Transportation Capacity

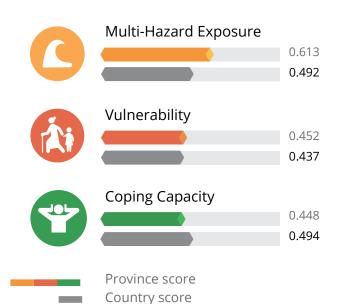


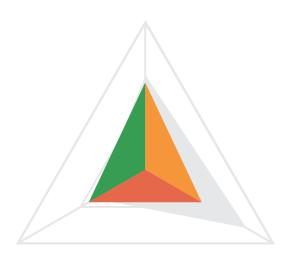
MULTI-HAZARD RISK

11 / 63
Rank within provinces
Score: 0.539

Ha Tinh's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

HAI DUONG

NDPBA PROVINCE PROFILE



VIỆT NAM HAI DUONG

CAPITAL: HẢI DƯƠNG

Area: 1,924 km²

Hai Duong province is landlocked in the center of the Red River Delta. With favorable conditions for natural resources, land area and transportation, Hologong is one of the most industrialized and developed provinces in Viet Nam. The province mainly focuses on developing agriculture and industrial production, attracting domestic and international investment in over 50 industrial areas. Well-known products include lychees and the traditional mung bean sweet.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.528 • Rank: 16/63



RESILIENCE (R) - high Score: 0.552 • Rank: 22/63



MULTI-HAZARD EXPOSURE - very high Score: 0.687 • Rank: 8/63



VULNERABILITY (V) - very low Score: 0.331 • Rank: 58/63



COPING CAPACITY (CC) - low Score: 0.435 • Rank: 47/63



Population (2017) 1,767,185



Population in Poverty 3.5%



Illiterate population 1.8%



Access to improved water 99.7%



Average life expectancy 74.40 years

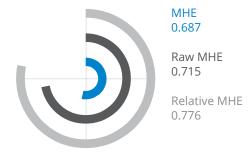
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 8 / 63 PROVINCES

SCORE: 0.687



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:

















VULNERABILITY (V)

RANK: 58 / 63 PROVINCES

SCORE: 0.331

Vulnerability in Hai Duong is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 13/63

1.6%

98.96

Livestock Density Forest Change (per sq km)



Vulnerable Health Status

Rank: 55/63

27.7

(per 100,000

persons)

74.4

Life Expectancy (years)

11.7 Infant Mortality Rate (per 1,000

live births)

4.7% Acute

(Children <5)

Malnutrition

1.59 Tuberculosis Incidence

Malaria Prevalance (per 100,000 persons)

184.2

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 53/63

99.7%

Access

Households with Safe Water

76.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 59/63

Rate

1.8% Adult Illiteracy

98.2% School Attendance

Rate

83.0% Households

4.0%

Housholds without TV without Internet



Economic Constraints



Rank: 49/63

43.8

3.5%

Economic Dependency Poverty



Gender Inequality

Rank: 36/63

0.12

0.26

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 27/63

0.5% Average Annual Population

Change

6.1% Average Annual Urban Population Change

1.0% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 47 / 63 PROVINCES

high (good).

SCORE: 0.435

Hai Duong exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 45/63

6.32 4,417

21.32

6.17

7.67

Income per Capita (in 1,000 VND)

Purchasing Business
Power Support
Services*

Entry Costs*



Governance

Rank: 56/63

Law and Order*

5.63

5.46 Informal Charges* 5.45 Transparency*



Environmental Capacity

Rank: 53/63

1.0%

Protected Area



Infrastructure Capacity

Rank: 11/63



Health Care Capacity Rank: 12/63

99.1% Immunization Coverage 30.23 Healthbeds per

10,000 People

6.24
Physicians per 10,000 People

15.68 Nurses per 10,000 People 8.3
Distance to
Hospital (km)



Transportation Capacity Rank: 22/63

2,848

16.43

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 45/63

80.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 22 / 63 PROVINCES

SCORE: 0.552

Hai Duong's score and ranking are due to very low Vulnerability combined with low Coping Capacity scores.

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







Population Pressures



Governance



Economic Capacity

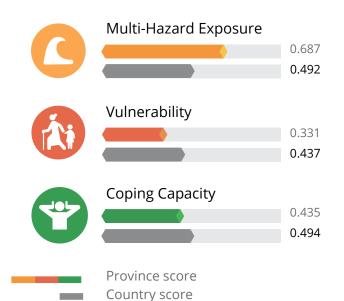


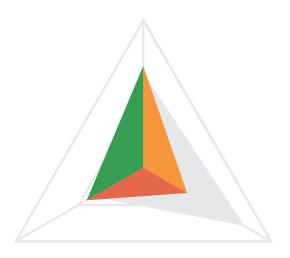
MULTI-HAZARD RISK

16 / 63 Rank within provinces Score: 0.528

Hai Duong's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

HAI PHONG

NDPBA PROVINCE PROFILE



VIỆT NAM HAI PHONG

CAPITAL: HÖNG BÀNG DISTRICT

Area: 1,575 km²

Located at the mouth of the Cam River and a part of the Red River Delta, Hai Phong is the largest port city in northern Viet Nam and a major industrial city. Many larger manufactures such as LG, Bridgestone, Fuji, Xerox, Kyocera, and Vinfast are operating in the province's five largest industrial zones. With flat terrain a coastal location, agriculture and fisheries still play an important role in the province's economy. Hai Phong is also known for it's Cat Ba archipelago a part of the UNESCO World Biosphere Reserve.





MULTI-HAZARD RISK - low Score: 0.457 • Rank: 40/63



RESILIENCE (R) - very high Score: 0.629 • Rank: 5/63



MULTI-HAZARD EXPOSURE - high Score: 0.628 • Rank: 18/63



VULNERABILITY (V) - very low Score: 0.3 • Rank: 61/63



COPING CAPACITY (CC) - very high Score: 0.558 • Rank: 11/63





Population (2017) 2,038,579



Population in Poverty 2.9%



Illiterate population 1.8%



Access to improved water 99.8%



Average life expectancy 74.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 18 / 63 PROVINCES

SCORE: 0.628



MHE 0.628 Raw MHE 0.719 Relative MHE 0.653

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.1%

₩

8.2% **1**68111 (1)

Wildfire 0.0%



Earthquake
0.0%
0.0%

MÈ

0.0% **2** 0

Landslide

Extreme Temperature 98.5%
2008643



Surge 0.4% 8780



VULNERABILITY (V)

RANK: 61 / 63 PROVINCES

SCORE: 0.3

Vulnerability in Hai Phong is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 16/63

0.6%

86.34

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

12

Rank: 48/63

74.3

(years)

Life Expectancy

Infant Mortality Rate (per 1,000

live births)

5.4% Acute Malnutrition

(Children <5)

34.4 Tuberculosis Incidence (per 100,000

persons)

3.19 Malaria

Prevalance (per 100,000 persons)

374.2

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 60/63

99.8%

88.2% Households Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 62/63

1.8% Adult Illiteracy

Rate

98.7% School

71.0% Households 4.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints



44.8 Economic Dependency

2.9% Poverty

Gender Inequality

0.17 0.16

F M School Income Enrollment Rate* Inequality*

Rank: 37/63

Rank: 48/63

*Values closer to 1 represent greater gender parity.

Rank: 36/63



Population Pressures

1.1%

Change

Average Annual Urban Average Annual Population Population Change

2.7%

1.4%

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

39.35

Transparency*

RANK: 11 / 63 PROVINCES

high (good).

SCORE: 0.558

Hai Phong exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 10/63

5.71 4,868

6.74
Business

7.94

Income per Purchasing Capita (in 1,000 Power VND)

Business Support Services* Entry Costs*



Governance

Law and Order*

Time Cost*

Rank: 51/63 5.48 6.02 5.73



Environmental Capacity

Informal

Charges*

Rank: 14/63

16.1%

Protected Area



Infrastructure Capacity

Rank: 3/63



Health Care Capacity Rank: 7/63

97.9% Immunization Coverage 33.74 Healthbeds per

10,000 People

7.84
Physicians per

10,000 People

16.28 Nurses per

10,000 People

4.41
Distance to
Hospital (km)



Transportation Capacity Rank: 16/63

2,925

11.9

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 15/63

87.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 5 / 63 PROVINCES

SCORE: 0.629

Hai Phong's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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













Economic Capacity



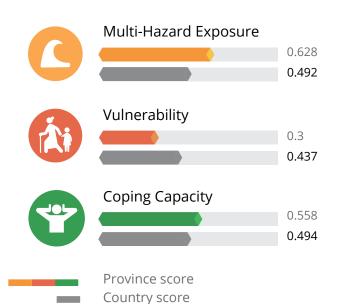
MULTI-HAZARD RISK

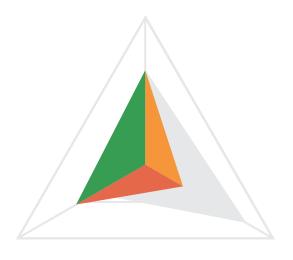
Prėssures

40 / 63 Rank within provinces Score: 0.457

Hai Phong's score and ranking are due to high Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

HAU GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM HAU GIANG

CAPITAL: VI THANH

Area: 1,682 km²

Hau Giang province is located in the middle of the Mekong Delta. The province shares the same lowland topography features of the surrounding region with a complex river and canal network. Prominent provincial economic activities include rice, fruit tree and aquaculture. Hau Giang is also famous for floating markets. As a landlocked province, Hau Giang is facing difficulty in diversifying and developing its economy.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.478 • Rank: 32/63



RESILIENCE (R) - moderate Score: 0.528 • Rank: 31/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.49 • Rank: 34/63



VULNERABILITY (V) - moderate Score: 0.428 • Rank: 33/63



COPING CAPACITY (CC) - moderate Score: 0.485 • Rank: 28/63



Population (2017) 824,882



Population in Poverty 9.9%



Illiterate population 5.7%



Access to improved water 87.0%



Average life expectancy 75.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 34 / 63 PROVINCES

SCORE: 0.49



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

00.0%

Flood 88.2% \$ 727421 (1)

Wildfire
0.0%



Landslide 0.0%

Extreme Temperature
21.9%

180291





VULNERABILITY (V)

RANK: 33 / 63 PROVINCES

SCORE: 0.428

Vulnerability in Hau Giang is primarily driven by Clean Water Access Vulnerability and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 53/63

2.6%

20.34

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 53/63

75.2

Life Expectancy (years)

Infant Mortality Rate (per 1,000 6.1% Acute

Malnutrition (Children <5) 107.5 0.13 Tuberculosis

Malaria Incidence Prevalance (per 100,000 (per 100,000 persons) persons)

145.6

HIV Prevalance (per 100,000 persons)

www.pdc.org



Clean Water Vulnerability

10.1

live births)

Rank: 16/63

87.0% Households 44.6% Households with Hygienic Toilet

Access

with Safe Water Access

Information Access Vulnerability



Rank: 14/63

5.7%

Adult Illiteracy

82.1% School Attendance 92.0%

4.0%

Rate

Households without Internet

Housholds without TV



Economic Constraints

Rank: 42/63

38.7

Rate

9.9%

Economic Dependency Ratio

Poverty



Gender Inequality

0.16 0.19

F M School Income Enrollment Rate* Inequality*

Rank: 35/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 19/63 0.3% 6.1%

Average Annual Population Change

Average Annual Urban Population Change

4.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 28 / 63 PROVINCES

high (good).

SCORE: 0.485

Hau Giang exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 54/63

7.89 3,579

36.18 Purchasing

5.53 7.91

Entry Costs*

Time Cost*

Income per Purcha Capita (in 1,000 Power VND) Business Support Services*



Governance

Rank: 12/63

6.14
Law and Order*

6.09 Informal Charges* 6.11 Transparency*



Environmental Capacity

Rank: 47/63

1.7%

Protected Area



Infrastructure Capacity



Rank: 31/63



Health Care Capacity Rank: 27/63

97.3% Immunization Coverage 29 Healthbeds per 10,000 People 5.58
Physicians per 10,000 People

11.67 Nurses per

10,000 People

5.74 Distance to

Hospital (km)



Transportation Capacity Rank: 30/63

2,500

30.85

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 46/63

79.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 31 / 63 PROVINCES

SCORE: 0.528

Hau Giang's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores.

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



Clean Water Access Vulnerability



Information Access Vulnerability



Economic Capacity



Health Care Capacity



MULTI-HAZARD RISK

32 / 63 Rank within provinces Score: 0.478

Hau Giang's score and ranking are due to moderate Multi-hazard exposure combined with moderate Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

HO CHI MINH CITY

NDPBA PROVINCE PROFILE



VIỆT NAM HO CHI MINH CITY

CAPITAL: DISTRICT 1

Area: 2,033 km²

Located in the southeastern region of Viet Nam, Ho Chi Minh City (also known as former Saigon) is the most populous city in Viet Nam (about 8.4 million in 2017). The sity is the economic center of Viet Nam, accounting for 20.2% of its GDP and 27.9% of its industrial output in 2005 and is the country's most vibrant and fast growing city. Ho Chi Minh city is now facing a number of modern metropolitan problems such as traffic congestion, pollution, and social problems. Located on the Saigon River and on the lowland near the sea, Ho Chi Minh City is vulnerable to severe flooding for heavy rains, tides, and uncontrolled housing development.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.39 • Rank: 58/63



RESILIENCE (R) - very high Score: 0.696 • Rank: 2/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.561 • Rank: 27/63



VULNERABILITY (V) - very low Score: 0.292 • Rank: 62/63



COPING CAPACITY (CC) - very high Score: 0.684 • Rank: 2/63



Population (2017) **8,393,295**



Population in Poverty 0.0%



Illiterate population 3.2%



Access to improved water 99.4%



Average life expectancy 76.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 27 / 63 PROVINCES

SCORE: 0.561



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 8.2%

Wildfire 1.2%

0.0%

Earthquake

Landslide 0.0%

Extreme Temperature

4.5% **381576**

Surge



VULNERABILITY (V)

RANK: 62 / 63 PROVINCES

SCORE: 0.292

Vulnerability in Ho Chi Minh City is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 10/63

-2.9%

78.63

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 63/63

76.1

Life Expectancy (years)

7.7
Infant Mortality
Rate (per 1,000
live births)

2.6% Acute Malnutrition (Children <5) 88.2 Tuberculosis Incidence (per 100,000 persons) 0.71

Malaria Prevalance (per 100,000 persons) 685.4

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 62/63

00.4

Access

99.4% Households with Safe Water 99.3% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 31/63

Rank: 62/63

3.2% Adult Illiteracy

Rate

94.4% School Attendance 96.0% Households without Internet 4.0% Housholds without TV



Economic Constraints

Rate

34.2 0.0%

34.2 Economic

Poverty

Dependency Ratio

....,

Gender Inequality



Rank: 55/63

0.13

0.13

Income F M School Inequality* Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 17/63 3.0% 2.9% 1.6%

Average Annual Population Change

Average Annual Urban Population Change Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 2 / 63 PROVINCES

high (good).

SCORE: 0.684

Ho Chi Minh City exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 1/63

7.1 5,991

5,991 87.5
Income per Purchasing Capita (in 1,000 Power

7.82
Business
Support
Services*

7.44 Entry Costs*

nanc

Governance

Rank: 40/63
5.13 4.97 6.16

Law and Order* Informal Charges*

nal Transparency*



Environmental Capacity

Rank: 9/63

28.4%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 13/63

98.3% 35.58 5.96 13 6.13

Immunization Healthbeds per Coverage 10,000 People 10,000 Pe



Transportation Capacity Rank: 1/63

14,158

Road Density Distance to Airport (km per sq. km) or Seaport (km)

11.29



Communications Capacity Rank: 3/63

92.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 2 / 63 PROVINCES

SCORE: 0.696

Ho Chi Minh City's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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







Population Pressures



Governance



Health Care Capacity



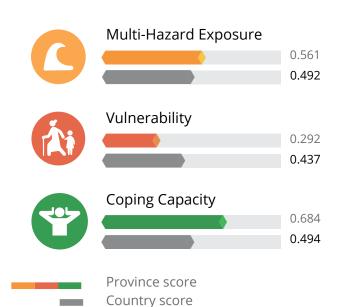
MULTI-HAZARD RISK

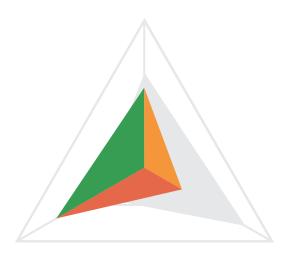
Sa Ran

58 / 63 Rank within provinces Score: 0.39

Ho Chi Minh City's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM

HOA BINH

NDPBA PROVINCE PROFILE



VIỆT NAM HOA BINH

CAPITAL: HÒA BÌNH

Area: 5,071 km²

Neighboring Hanoi Capital to the west, Hoa Binh is a mountainous province located in the Northwest region of Viet Nam. Hoa Binh is known as the home to the Muong people (about 63% of total population) and other ethnic groups of Kinh, Thai, Dao, Tay, and Hmong. Given favorable natural conditions and cultural diversity, the province's economy is mostly based on agroforestry, specialized crops, ecotourism, and hydropower.

vn le

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.521 • Rank: 18/63



RESILIENCE (R) - moderate Score: 0.515 • Rank: 37/63



MULTI-HAZARD EXPOSURE - high Score: 0.592 • Rank: 23/63



VULNERABILITY (V) - low Score: 0.397 • Rank: 45/63



COPING CAPACITY (CC) - very low Score: 0.427 • Rank: 54/63



Population (2017) **853,037**



Population in Poverty 15.7%



Illiterate population 2.0%



Access to improved water 60.0%



Average life expectancy 72.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 23 / 63 PROVINCES

SCORE: 0.592



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 26.4%

224865



10.0% \$4900



Wildfire

4.5%

38105



Earthquake 97.4%



Landslide 5.8% 49600



Extreme Temperature 100.0%

\$ 853037



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 45 / 63 PROVINCES

SCORE: 0.397

Vulnerability in Hoa Binh is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 32/63

3.0%

44.37

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 26/63

72.4

(years)

Life Expectancy

17.4 Infant Mortality Rate (per 1,000 5.8% Acute Malnutrition

(Children <5)

29

(per 100,000

persons)

100.81 Tuberculosis Malaria Incidence

164.1

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 8/63

60.0%

Households with Safe Water

Access

42.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 50/63

2.0% Adult Illiteracy

Rate

97.8% School Attendance

Rate

89.0% Households without Internet

5.0% Housholds without TV



Economic Constraints

Rank: 15/63

42.7

15.7%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 60/63

0.01

0.21

Income F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.

178



Population Pressures

Rank: 62/63

0.2% Average Annual Population

Change

Average Annual Urban Population

0.8%

Change

1.1% Net Migration Rate



COPING CAPACITY (CC)

RANK: 54 / 63 PROVINCES

SCORE: 0.427

Hoa Binh exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 60/63

5.1 4,138 12.14 Time Cost*

Purchasing Income per Capita (in 1,000 Power VND)

5.94 7.6 Business Entry Costs* Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Law and Order*

Rank: 55/63 6.77 5.63 4.14

Transparency*



Environmental Capacity

Informal

Charges*

Rank: 20/63

12.3%

Protected Area



Infrastructure Capacity

Rank: 18/63



Health Care Capacity Rank: 16/63

97.3% 9.28 33.89 14.35 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 42/63

2,003 46.56 Road Density

Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 23/63

86.6% Households with

Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 37 / 63 PROVINCES

SCORE: 0.515

Hoa Binh's score and ranking are due to low Vulnerability combined with very low Coping Capacity scores.

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







Economic Constraints



Economic Capacity







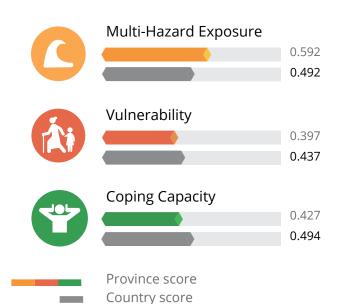
MULTI-HAZARD RISK

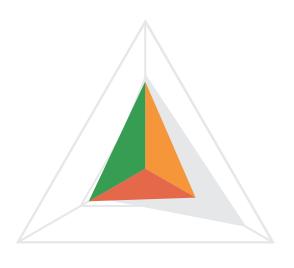


18 / 63 Rank within provinces Score: 0.521

Hoa Binh's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

HUNG YEN

NDPBA PROVINCE PROFILE



VIỆT NAM HUNG YEN

CAPITAL: HƯNG YÊN

Area: 1,069 km²

Neighboring Hanoi Capital to the southeast, Hung Yen province is located in the center of the Red River Delta. With delta topography features and plentiful water resource, the land is favorable for agriculture production. Hung Yen has been rapidly industrialized in recent years with 10 industrial parks in operation. With Hanoi expansion, the province is now rapidly developing new urban complexes and education institutions.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.552 • Rank: 9/63



RESILIENCE (R) - very low Score: 0.47 • Rank: 53/63



MULTI-HAZARD EXPOSURE - high Score: 0.595 • Rank: 22/63



VULNERABILITY (V) - low Score: 0.405 • Rank: 40/63



COPING CAPACITY (CC) - very low Score: 0.344 • Rank: 63/63



Population (2017) 1,203,304



Population in Poverty 3.5%



Illiterate population 5.2%



Access to improved water 99.9%



Average life expectancy 74.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 22 / 63 PROVINCES

SCORE: 0.595



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 77.4%

\$ 931848



Flood 41.7%



Wildfire 6.4%

2 77023



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

100.0% \$\frac{1}{203304}



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 40 / 63 PROVINCES

SCORE: 0.405

Vulnerability in Hung Yen is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 1/63

0.0%

187.94

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 50/63

74.2

(years)

Life Expectancy

12.2 Infant Mortality Rate (per 1,000

live births)

6.5% Acute Malnutrition

(Children <5)

34.9 Tuberculosis Incidence

(per 100,000

persons)

0.26 Malaria

Prevalance

93.3

persons)

HIV Prevalance

(per 100,000

(per 100,000 persons)

Clean Water Vulnerability

Rank: 56/63

99.9%

78.6%

Households Households with with Safe Water Hygienic Toilet Access Access

Information Access Vulnerability

Rank: 41/63

5.2%

Rate

Adult Illiteracy

98.5% School

87.0% Households 5.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

Rank: 41/63

Rank: 42/63

gender parity.

46.5

3.5%

Economic Dependency Ratio

Poverty



Gender Inequality

0.12 0.21

Income

F M School Enrollment Rate* *Values closer to 1 represent greater



Population Pressures

Rank: 44/63 0.5% 2.4% 3.3%

Average Annual Population Change

Inequality*

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 63 / 63 PROVINCES

high (good).

SCORE: 0.344

Hung Yen exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 53/63

5.25 4,349
Time Cost* Income r

18.03 6.38

7.35

Income per Capita (in 1,000 VND) Purchasing Power Business Support Services* Entry Costs*



Governance

Rank: 63/63

5.37 Law and Order* 4.21
Informal
Charges*

5.62 Transparency*

Environmental Capacity

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

♦

Rank: 30/63



Health Care Capacity Rank: 21/63

97.8% Immunization Coverage 28.62 Healthbeds per

10,000 People

6.08
Physicians per 10,000 People

13.12 Nurses per 10,000 People 4.74
Distance to
Hospital (km)



Transportation Capacity Rank: 45/63

1,238

23.41

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 43/63

81.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 53 / 63 PROVINCES

SCORE: 0.47

Hung Yen's score and ranking are due to low Vulnerability combined with very low Coping Capacity scores.

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







Population Prėssures



Governance



Economic Capacity

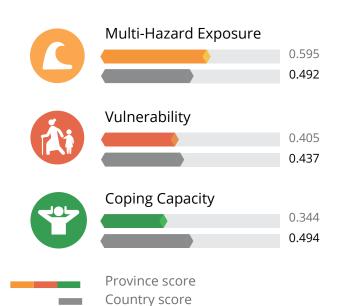


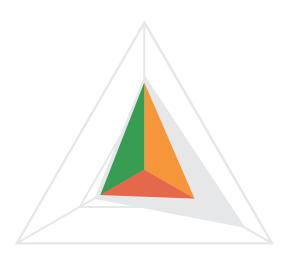
MULTI-HAZARD RISK

9 / 63 Rank within provinces Score: 0.552

Hung Yen's score and ranking are due to high Multi-hazard exposure combined with low Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

KHANH HOA

NDPBA PROVINCE PROFILE



VIỆT NAM KHANH HOA

CAPITAL: NHA TRANG

Area: 4,851 km²

Lying along the coastline of South Central Viet Nam, Khanh Hoa province is well-known for its tourism attractions including beautiful natural landscapes and sand beaches, along with historical sites of the Cham ancient culture. The most famous places are Nha Trang, Van Phong, and Cam Ranh bays, of which Van Phong is one of the three Viet Nam's Exclusive Economic Zones. Khanh Hoa's economic activities include agriculture, industry, and services. Tourism is an important part of the province's economy and Khanh Hoa also has a number of marine protection areas.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.425 • Rank: 49/63



RESILIENCE (R) - high Score: 0.575 • Rank: 18/63



MULTI-HAZARD EXPOSURE - low Score: 0.424 • Rank: 44/63



VULNERABILITY (V) - low Score: 0.395 • Rank: 46/63



COPING CAPACITY (CC) - high Score: 0.546 • Rank: 15/63



Population (2017) 1,263,412



Population in Poverty 5.0%



Illiterate population 8.7%



Access to improved water 91.8%



Average life expectancy 73.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 44 / 63 PROVINCES

SCORE: 0.424



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1260273



17.3%



Wildfire **26.9%**

2 339805



Earthquake 0.0%



0.0%



Extreme Temperature

20.1%

254174



1 1 0/6

13430



VULNERABILITY (V)

RANK: 46 / 63 PROVINCES

SCORE: 0.395

Vulnerability in Khanh Hoa is primarily driven by Gender Inequality and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 51/63

1.1%

16.33

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 24/63

73.5

(years)

Life Expectancy

Infant Mortality

7.0%

66.7 Tuberculosis Incidence

(per 100,000

persons)

101.43

Malaria Prevalance 191.7

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 46/63

91.8% Households 87.8%

Households with with Safe Water Hygienic Toilet Access Access

Information Access Vulnerability

Rank: 51/63

Rank: 46/63

8.7% Adult Illiteracy

93.9% School

75.0% Households

3.0% Housholds

Attendance Rate

without Internet

without TV



Economic Constraints

42.6

Rate

5.0%

Economic Dependency Ratio

Poverty



Gender Inequality

0.17

0.43

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater



Population Pressures

0.8% 2.7% Rank: 22/63

Rank: 7/63

gender parity.

Average Annual Population Change

Average Annual Urban Population Change

7.9% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 15 / 63 PROVINCES

high (good).

SCORE: 0.546

Khanh Hoa exhibits weaker Coping Capacity in the areas of Governance and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 8/63

6.23 4,144
Time Cost* Income per

51.38 Purchasing

Transparency*

Power

6.9

8.05 Entry Costs*

Support Services*



Governance

Law and Order*

Rank: 29/63 5.46 5.6 6.66

Capita (in 1,000



Environmental Capacity

Informal

Charges*

Rank: 31/63

7.2%

Protected Area



Infrastructure Capacity

Rank: 26/63



Health Care Capacity Rank: 42/63

97.4% Immunization Coverage 27.43
Healthbeds per 10,000 People

5.16 Physicians per 10,000 People 14.21 Nurses per 10,000 People 21.21 Distance to Hospital (km)

Transportation Capacity Rank: 20/63

3,749

29.58

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 26/63

85.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 18 / 63 PROVINCES

SCORE: 0.575

Khanh Hoa's score and ranking are due to low Vulnerability combined with high Coping Capacity scores.

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



Inequality



Prėssures





Governance

Health Care Capacity

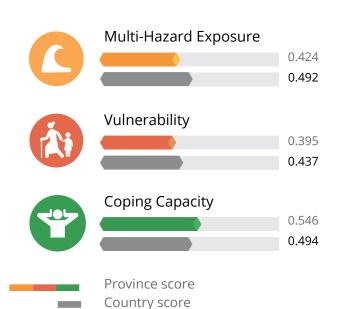


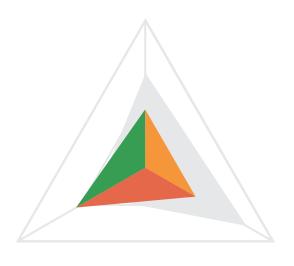
MULTI-HAZARD RISK

49 / 63
Rank within provinces
Score: 0.425

Khanh Hoa's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM KIEN GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM **KIEN GIANG**

CAPITAL: RACH GIÁ

Area: 6,524 km²

Kien Giang is a coastal province located in the west of the Mekong Delta sharing a border with Cambodia to the northwest and facing the Gulf of Thailand in the southwest. Covered mostly by agricultural land and long coastline, fishing, aquaculture, and rice production are leading economic activities of Kien Giang. Among all the province's attractive landscapes, Phu Quoc island is particularly famous for tourism and the traditional high-quality fish sauce. Recently, Phu Quoc became one of the three Viet Nam's Exclusive Economic Zones.





MULTI-HAZARD RISK - very low Score: 0.42 • Rank: 51/63



RESILIENCE (R) - high Score: 0.588 • Rank: 14/63



MULTI-HAZARD EXPOSURE - low Score: 0.435 • Rank: 42/63



VULNERABILITY (V) - high Score: 0.466 • Rank: 17/63



COPING CAPACITY (CC) - very high

Score: 0.641 • Rank: 5/63



Population (2017) 1,819,127



Population in Poverty 3.6%



Illiterate population 12.1%



Access to improved water 91.9%



Average life expectancy 74.20 years

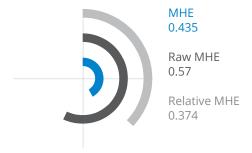
^{*}For more information on data and components please visit: https://bit.lv/2LgVoUO



MULTI-HAZARD EXPOSURE

RANK: 42 / 63 PROVINCES

SCORE: 0.435



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1794166



Flood 44.0%



Wildfire 7.1%

128925



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

0.0%





VULNERABILITY (V)

RANK: 17 / 63 PROVINCES

SCORE: 0.466

Vulnerability in Kien Giang is primarily driven by Information Access Vulnerability and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 29/63

-5.9%

15.07

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 41/63

74.2

Life Expectancy (years)

12.6 Infant Mortality 6.7%

94.1

0.63 Malaria Prevalance 196.9

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

HIV Prevalance (per 100,000 (per 100,000 persons) persons)



Clean Water Vulnerability

Rank: 21/63

91.9% Households 48.4%

Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 7/63

12.1% Adult Illiteracy

Rate

77.4% School Attendance

Rate

90.0% Households without Internet

8.0% Housholds without TV



Economic Constraints



Rank: 54/63

43.3

3.6%

Economic Dependency Poverty



Gender Inequality

0.24 0.2

Income

F M School Enrollment Rate* Rank: 18/63

*Values closer to 1 represent greater

Population Pressures

Inequality*

Rank: 42/63

gender parity.

0.9% Average Annual Population Change

2.1% Average Annual Urban Population Change

2.0% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 5 / 63 PROVINCES

high (good).

SCORE: 0.641

Kien Giang exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 11/63

7.56 4,130
Time Cost* Income per

4,130 35.97
Income per Capita (in 1,000 Power

7.1
Business
Support
Services*

8.39

Business Entry Costs*
Support



Governance

Rank: 15/63
6.15 6.85 5.78
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 2/63

49.8%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 26/63

 97.6%
 28.37
 5.76
 13.69
 11.07

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 10/63

4,749 21.05

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 13/63

88.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 14 / 63 PROVINCES

SCORE: 0.588

Kien Giang's score and ranking are due to high Vulnerability combined with very high Coping Capacity scores.

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







Clean Water Access Vulnerability



Health Care Capacity



Governance



MULTI-HAZARD RISK

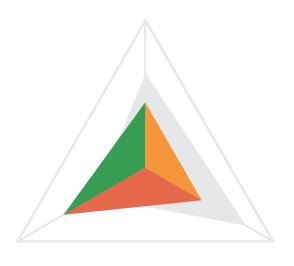
51 / 63
Rank within provinces
Score: 0.42

Kien Giang's score and ranking are due to low Multi-hazard exposure combined with high Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

KON TUM

NDPBA PROVINCE PROFILE



VIỆT NAM KON TUM

CAPITAL: KON TUM

Area: 8,718 km²

As the northern-most province of the Viet Nam's Central Highland, Kon Tum shares borders with Laos and Cambodia. With more than 50% forest cover and interleaved terrain of mountains and plateau, the province's economy is based on forest products and agriculture. Kon Tum is known for its diversified indigenous culture of Ba Na, Brau, Gie Trieng, Jarai, Ro Mam and, Xo Dang ethnic groups, valuable plants (e.g., Ngoc Linh ginseng) and plentiful birds species.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.592 • Rank: 4/63



RESILIENCE (R) - very low Score: 0.391 • Rank: 61/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.559 • Rank: 28/63



VULNERABILITY (V) - very high Score: 0.633 • Rank: 4/63



COPING CAPACITY (CC) - very low Score: 0.414 • Rank: 56/63



Population (2017) **525,874**



Population in Poverty 16.5%



Illiterate population 40.8%



Access to improved water 69.7%



Average life expectancy 66.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 28 / 63 PROVINCES

SCORE: 0.559



MHE 0.559 Raw MHE 0.283 Relative MHE 0.593

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

♣ 525842

\$

Flood 14.9%

(1)

Wildfire 66.8% **3**51211



Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature 78.6% 413233



Surge 0.0%



VULNERABILITY (V)

RANK: 4 / 63 PROVINCES

SCORE: 0.633

Vulnerability in Kon Tum is primarily driven by Vulnerable Health Status and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 57/63

-1.0%

8.96

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 3/63

66 (years)

Life Expectancy

38.1 Infant Mortality Rate (per 1,000 7.6% Acute Malnutrition (Children <5) 44.7 Tuberculosis Incidence

(per 100,000

persons)

148.03 Malaria Prevalance

persons)

(per 100,000 persons)

51.5 HIV Prevalance (per 100,000

Clean Water Vulnerability

live births)

53.2%

Rank: 12/63

69.7%

Households with Households with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 6/63

Rank: 5/63

40.8% Adult Illiteracy

Rate

85.5% School Attendance 86.0% Households without Internet

12.0% Housholds without TV

Economic Constraints

Rate

58.5 16.5%

Economic Dependency Poverty

Gender Inequality

Rank: 10/63

0.1

Ratio

0.52

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.

Population Pressures

Rank: 3/63

2.9% Average Annual Population

Change

3.8%

Change

Average Annual Urban Population

15.1% Net Migration Rate



COPING CAPACITY (CC)

RANK: 56 / 63 PROVINCES

SCORE: 0.414

Kon Tum exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 20/63

5.55 5,076 Time Cost* Income per

VND)

Informal

Charges*

6.32 Purchasing Business Power Support Services*

Transparency*

23.92

7.79 Entry Costs* *Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Law and Order*

Rank: 59/63 6.33 5.05 4.46

Capita (in 1,000

Environmental Capacity

Rank: 26/63

9.9%

Protected Area



Infrastructure Capacity

Rank: 57/63



Health Care Capacity Rank: 14/63

95.9% 9.38 37.9 20.4 23.25 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 60/63

2,613 Road Density (km per sq. km)

142.43 Distance to Airport or Seaport (km)



Communications Capacity Rank: 61/63

68.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 61 / 63 PROVINCES

SCORE: 0.391

Kon Tum's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Clean Water Access Vulnerability



Transportation Capacity



Governance



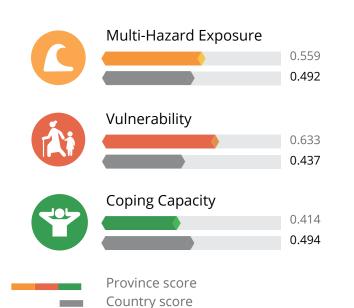
MULTI-HAZARD RISK

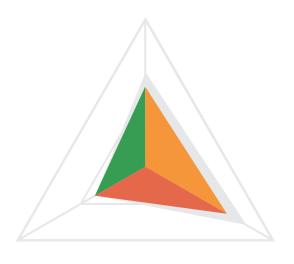
4 / Rank

4 / 63
Rank within provinces
Score: 0.592

Kon Tum's score and ranking are due to moderate Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM _____

NDPBA PROVINCE PROFILE



VIỆT NAM LAI CHAU

CAPITAL: LAI CHÂU

Area: 10,636 km²

Located in the Northwest region of Viet Nam, Lai Chau shares a border with China to the north. The province's terrain is comprised of high and steep mountains and hills alternated with deep and narrow valleys, which are prone to frequent flash flood and landslide. Lai Chau is sparsely populated with Tai, Hmong, Kinh, Giay, and Dao people and one of the poorest provinces of the country.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.567 • Rank: 6/63



RESILIENCE (R) - very low Score: 0.348 • Rank: 63/63



MULTI-HAZARD EXPOSURE - low Score: 0.396 • Rank: 46/63



VULNERABILITY (V) - very high Score: 0.667 • Rank: 1/63



COPING CAPACITY (CC) - very low Score: 0.362 • Rank: 61/63



Population (2017) 426,354



Population in Poverty 31.5%



Illiterate population 7.4%



Access to improved water 22.6%



Average life expectancy 65.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 46 / 63 PROVINCES

SCORE: 0.396



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%





Wildfire 78.9% ▲ 336485



Earthquake 93.0% ▲ 396700





Extreme Temperature
21.0%

89601





VULNERABILITY (V)

RANK: 1 / 63 PROVINCES

SCORE: 0.667

Vulnerability in Lai Chau is primarily driven by Economic Constraints and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 58/63

1.3%

13.44

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 1/63

65.1 (years)

Life Expectancy

Infant Mortality Rate (per 1,000 6.9% Acute

Malnutrition

(Children <5)

21.2 Tuberculosis

Malaria

512.4

Incidence (per 100,000 persons)

Prevalance (per 100,000 persons)

174.81

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

41.9

live births)

Rank: 1/63

Access

22.6% Households with Safe Water

30.0% Households with Hygienic Toilet

Access



Information Access Vulnerability

Rank: 2/63

Rank: 1/63

7.4%

Adult Illiteracy

74.1% School

91.0% Households 29.0%

Rate

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

65.7 31.5%

Economic Dependency

Poverty

Gender Inequality

Rank: 56/63

0.07

Ratio

0.17

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 8/63 1.9% 5.8%

Average Annual Population Change

Average Annual Urban Population Change

1.4% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 61 / 63 PROVINCES

high (good).

SCORE: 0.362

Lai Chau exhibits weaker Coping Capacity in the areas of Transportation Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 38/63

5.71 4,860 Time Cost*

8.08 Purchasing

Transparency*

6.28 8.04

Business

Income per Capita (in 1,000 Power Support Services*





Governance

Law and Order*

Rank: 44/63 6.82 4.12 6.16



Environmental Capacity

VND)

Informal

Charges*

Rank: 46/63

2.3%

Protected Area



Infrastructure Capacity

Rank: 62/63



Health Care Capacity Rank: 23/63

93.3% 36.99 7.85 23.74 18.75 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 63/63

949 167.14 Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 62/63

62.8% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 63 / 63 PROVINCES

SCORE: 0.348

Lai Chau's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Clean Water Access Vulnerability



Transportation Capacity



Communications Capacity



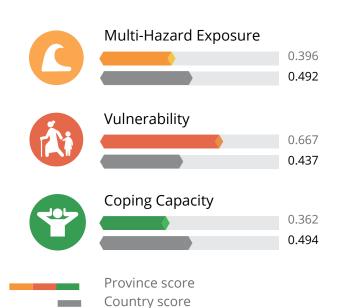
MULTI-HAZARD RISK

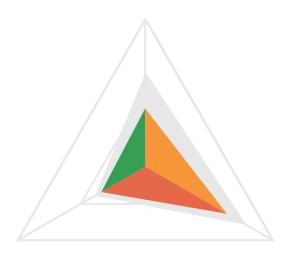
Ran

6 / 63
Rank within provinces
Score: 0.567

Lai Chau's score and ranking are due to low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

LAM DONG

NDPBA PROVINCE PROFILE



VIỆT NAM LAM DONG

CAPITAL: ĐÀ LẠT

Area: 10,279 km²

As the southern-most province of the Viet Nam's Central Highland, Lam Dong is a popular tourism destination for its abundant natural landscapes and cool weather all year round. The province also has deeply-rooted culture of indigenous people such as Co Ho, Ma, and Chu Ru ethnic groups. Da Lat, the capital city of the province, is attracting more than three million tourists each year. Besides tourism, the provincial economy is also based on hydropower generation and agriculture plantation. Main products include tea, coffee, and vegetables. Lam Dong is well known for high-tech agriculture.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.384 • Rank: 59/63



RESILIENCE (R) - very high Score: 0.588 • Rank: 13/63



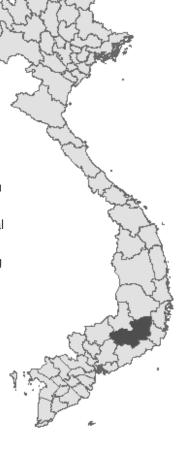
MULTI-HAZARD EXPOSURE - low Score: 0.328 • Rank: 50/63



VULNERABILITY (V) - low Score: 0.379 • Rank: 49/63



COPING CAPACITY (CC) - very high Score: 0.555 • Rank: 12/63





Population (2017) 1,363,189



Population in Poverty 6.0%



Illiterate population 3.3%



Access to improved water 84.1%



Average life expectancy 72.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 50 / 63 PROVINCES

SCORE: 0.328



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1363189



10.5%



Wildfire

20.7%



Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature

0.0%

2 0





VULNERABILITY (V)

RANK: 49 / 63 PROVINCES

SCORE: 0.379

Vulnerability in Lam Dong is primarily driven by Clean Water Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 40/63

-2.3%

15.53

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 20/63

72.6

Life Expectancy

Infant Mortality

7.7%

22.7 Tuberculosis 38.07

111.6

(years)

Rate (per 1,000 live births)

16.3

Acute Malnutrition (Children <5)

Incidence (per 100,000 persons)

Malaria Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 36/63

84.1% Households

80.8% Households with with Safe Water Hygienic Toilet Access

Information Access Vulnerability

Rank: 48/63

3.3%

Access

Adult Illiteracy Rate

90.2% School

76.0% Households 5.0%

Rank: 33/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

6.0%

46.9 Economic

Dependency Ratio

Poverty

Gender Inequality

0.02 0.34

Income

F M School Enrollment Rate* Inequality*

Rank: 50/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 31/63 1.3% 2.9% 1.6%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 12 / 63 PROVINCES

high (good).

SCORE: 0.555

Lam Dong exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 28/63

6.56 4,611
Time Cost* Income per

6.62 Business 7.51

Income per Purchasing Capita (in 1,000 Power VND)

Support Services* Entry Costs*



Governance

Rank: 24/63 6.03 5.16 6.65

Law and Order*

Informal Charges* 6.65 Transparency*

25.96



Environmental Capacity

Rank: 7/63

31.4%

Protected Area



Infrastructure Capacity

Rank: 16/63



Health Care Capacity Rank: 37/63

98.7% Immunization Coverage 23.98 Healthbeds per 10,000 People 6.09
Physicians per 10,000 People

13.17 Nurses per

10,000 People

23.08 Distance to Hospital (km)



Transportation Capacity Rank: 8/63

6,630

33.91

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 22/63

86.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 13 / 63 PROVINCES

SCORE: 0.588

Lam Dong's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Vulnerable Health Status



Economic Capacity



Health Care Capacity

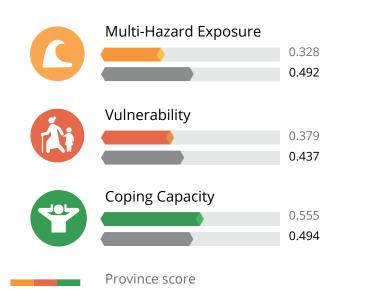


MULTI-HAZARD RISK

59 / 63
Rank within provinces
Score: 0.384

Lam Dong's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

LANG SON

NDPBA PROVINCE PROFILE



VIỆT NAM LANG SON

CAPITAL: LANG SON

Area: 9,723 km²

Located in the Northeast region of Viet Nam and 80% of total area covered by mountains and forests, Lang Son is strategically important by sharing two international border gates with China and being accessible by highway and rail to Hanoi capital. The provincial economy is mainly based on international trade (with China), service, agriculture, and forestry, and in recent years is mineral resources exploitation. Lang Son is the home to seven main ethnic groups namely Nung, Tay, Kinh, Dao, Hoa, San Chay, and Hmong people.





MULTI-HAZARD RISK - low Score: 0.44 • Rank: 45/63



RESILIENCE (R) - very low Score: 0.458 • Rank: 54/63



MULTI-HAZARD EXPOSURE - very low Score: 0.235 • Rank: 59/63



VULNERABILITY (V) - very high Score: 0.486 • Rank: 13/63



COPING CAPACITY (CC) - very low Score: 0.403 • Rank: 59/63





Population (2017) **785,291**



Population in Poverty 16.2%



Illiterate population 16.7%



Access to improved water 55.8%



Average life expectancy 71.90 years

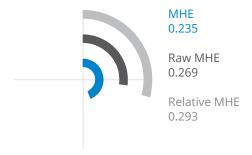
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 59 / 63 PROVINCES

SCORE: 0.235



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

5.8%

45425



Flood

16.6% ▲ 129969



Wildfire

6.3%

49467



Earthquake

0.0%



Landslide

1.5% 11457



Extreme Temperature

100.0%

2 785291



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 13 / 63 PROVINCES

SCORE: 0.486

Vulnerability in Lang Son is primarily driven by Clean Water Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

3.5% 22.65

Forest Change Livestock Density (per sq km)



Vulnerable Health Status

Rank: 10/63

71.9 18.3 Life Expectancy

(years)

Infant Mortality Rate (per 1,000 live births)

10.4% Acute Malnutrition

(Children <5)

47.5 Tuberculosis Incidence (per 100,000 persons)

20.98 Malaria

Prevalance (per 100,000 persons) persons)

220.4 HIV Prevalance (per 100,000



Clean Water Vulnerability

Rank: 6/63

Rank: 55/63

34.8% 55.8%

Households with Households with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 15/63

16.7%

Adult Illiteracy Rate

96.4% School Attendance 88.0% Households without Internet

8.0%

Rank: 17/63

Housholds without TV



Economic Constraints

Rate

41.6

16.2%

Economic Dependency Poverty

0.34



Gender Inequality

Rank: 48/63

0.03

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 57/63

0.5% Average Annual Population Change

Average Annual Urban Population Change

0.9%

2.9% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 59 / 63 PROVINCES

high (good).

SCORE: 0.403

Lang Son exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 46/63

5.96 4,703
Time Cost* Income p

19.29

6.72

6.92

Income per Purchasing Business
Capita (in 1,000 Power Support
VND) Services*

Entry Costs*



Governance

Rank: 58/63

5.36 Law and Order* 4.48
Informal
Charges*

6.13
Transparency*



Environmental Capacity

Rank: 50/63

1.4%

Protected Area



Infrastructure Capacity



Rank: 35/63



Health Care Capacity Rank: 8/63

98.4% Immunization Coverage 34.01 Healthbeds per

10,000 People

8.72 Physicians per

10,000 People

16.78 Nurses per 10,000 People 14.65
Distance to
Hospital (km)



Transportation Capacity Rank: 55/63

1,727

85.42

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 48/63

79.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 54 / 63 PROVINCES

SCORE: 0.458

Lang Son's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Vulnerable Health Status



Governance



Transportation Capacity

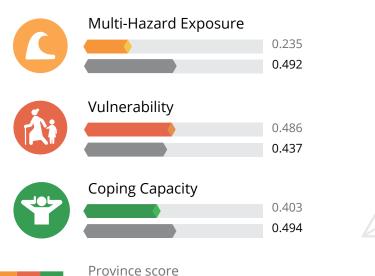


MULTI-HAZARD RISK

45 / 63
Rank within provinces
Score: 0.44

Lang Son's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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



Country score





NDPBA PROVINCE PROFILE



VIỆT NAM LAO CAI

CAPITAL: LÀO CAI

Area: 7,464 km²

Lao Cai province is located in the Northwest mountainous region of Viet Nam, sharing a border with China to the north. The province is home to 25 ethnic groups including the minority people of Hmong, Tay, Dao, Giay, and Nùng. Lao Cai possesses diverse natural environment including Fansipan peak (highest in the country) and Hoang Lien national park. The province's economy is based on international trade (with China), agriculture, forestry, mining, and tourism. Sa Pa town is a famous tourist destination in Viet Nam.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.346 • Rank: 61/63



RESILIENCE (R) - low Score: 0.495 • Rank: 46/63



MULTI-HAZARD EXPOSURE - very low Score: 0.028 • Rank: 63/63



VULNERABILITY (V) - very high Score: 0.507 • Rank: 11/63



COPING CAPACITY (CC) - high Score: 0.497 • Rank: 23/63



Population (2017) **725,854**



Population in Poverty 21.4%



Illiterate population 4.8%



Access to improved water 41.2%



Average life expectancy 68.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 63 / 63 PROVINCES

SCORE: 0.028



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%





Wildfire 21.8% ▲ 158552



Landslide

36.1%

▲ 262115



Extreme Temperature
4.3%

31318





VULNERABILITY (V)

RANK: 11 / 63 PROVINCES

SCORE: 0.507

Vulnerability in Lao Cai is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 36/63

1.2%

32.9

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 11/63

68.6

Life Expectancy (years)

28.8 Infant Mortality Rate (per 1,000

live births)

5.8% Acute Malnutrition

(Children <5)

21.6

Tuberculosis

Incidence

persons)

(per 100,000

Malaria Prevalance (per 100,000 persons)

27.36

316.1

HIV Prevalance (per 100,000 persons)

www.pdc.org

Clean Water Vulnerability

Rank: 10/63

41.2%

Households with Safe Water Access

53.1% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 8/63

Rank: 6/63

Rank: 63/63

4.8% Adult Illiteracy

Rate

87.6% School

98.0% Households

12.0% Housholds

Attendance Rate

without Internet

without TV



Economic Constraints

21.4%

51.5 Economic

Poverty

Dependency

Gender Inequality

0

0.04

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 26/63 1.6% 2.9% 2.0%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate



COPING CAPACITY (CC)

RANK: 23 / 63 PROVINCES

SCORE: 0.497

Lao Cai exhibits weaker Coping Capacity in the areas of Transportation Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 15/63

6.12 5,143 18.78
Time Cost* Income per Purchasir

Income per Purchasing Capita (in 1,000 Power VND)

7.35 7.37

Business Entry Costs*
Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Rank: 28/63 6.32 5.57 6.34

Law and Order* Informal Charges*

Transparency*



Environmental Capacity

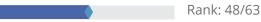
Rank: 33/63

6.9%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 5/63

96.6% 44.87 8.07 21.45 14.7

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 61/63

2,330 137.78
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 60/63

70.4% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 46 / 63 PROVINCES

SCORE: 0.495

Lao Cai's score and ranking are due to very high Vulnerability combined with high Coping Capacity scores.

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



Clean Water Access Vulnerability



Economic Constraints



Transportation Capacity



Communications Capacity



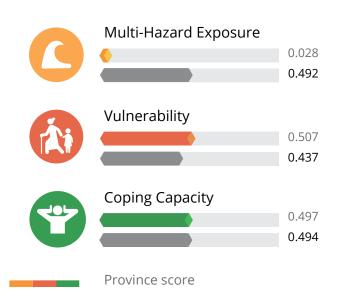
MULTI-HAZARD RISK

Ra Sc

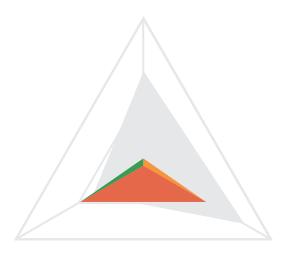
61 / 63
Rank within provinces
Score: 0.346

Lao Cai's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM LONG AN

NDPBA PROVINCE PROFILE



VIỆT NAM LONG AN

CAPITAL: TÂN AN

Area: 4,683 km²

Neighboring Ho Chi Minh City to the south and west, Long An is a province in the Mekong Delta, sharing a border with Cambodia to the west and facing East Sea to the east. The relatively flat terrain with the complex river and canal system of Long An provides good conditions for agriculture and aquaculture. The province is one of the main rice and fruit producers in Viet Nam. Long An has rapidly industrialized with around 35 industrial parks in operation. Being a low-lying coastal region, the province is susceptible to floods and rises in sea level.





MULTI-HAZARD RISK - moderate Score: 0.481 • Rank: 29/63



RESILIENCE (R) - very high Score: 0.608 • Rank: 8/63



MULTI-HAZARD EXPOSURE - very high Score: 0.658 • Rank: 10/63



VULNERABILITY (V) - low Score: 0.389 • Rank: 47/63



COPING CAPACITY (CC) - very high Score: 0.604 • Rank: 7/63



Population (2017) 1,572,531



Population in Poverty 5.0%



Illiterate population 2.0%



Access to improved water 96.5%



Average life expectancy 75.40 years

www.pdc.org

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 10 / 63 PROVINCES

SCORE: 0.658



MHE 0.658 Raw MHE 0.655 Relative MHE 0.698

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

€

91.5% 1439610

Flood



Wildfire 14.9% ▲ 233628



0.0%

Earthquake



Landslide
0.0%



Extreme Temperature
26.3%
413937



Surge **0.2%**



VULNERABILITY (V)

RANK: 47 / 63 PROVINCES

SCORE: 0.389

Vulnerability in Long An is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 18/63

-10.5%

28.84

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 58/63

75.4

(years)

Life Expectancy

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

5.6% Acute Malnutrition

(Children <5)

73.9 Tuberculosis Incidence (per 100,000

persons)

0.68

Malaria Prevalance (per 100,000 persons)

146.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 42/63

96.5% Households 71.1%

with Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 45/63

2.0%

Rate

Adult Illiteracy

91.0% School Attendance

89.0% Households without Internet

3.0% Housholds without TV

Economic Constraints

Rate



41.5 Poverty

Economic Dependency Ratio

5.0%



Gender Inequality

0.15 0.43

Income F M School Enrollment Rate* Inequality*

Rank: 11/63

Rank: 55/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 51/63 3.0% 1.3%

0.7% Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 7 / 63 PROVINCES

high (good).

SCORE: 0.604

Long An exhibits weaker Coping Capacity in the areas of Health Care Capacity and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 12/63

7.6 4,407

32.23

6.49

Business

Support Services* 8.71

Income per Capita (in 1,000 VND) Purchasing Power Entry Costs*



Governance

Rank: 3/63
7.2 6.83 6.52

Law and Order*

Informal Charges* Transparency*



Environmental Capacity

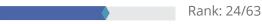
Rank: 51/63

1.1%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 45/63

97.4% Immunization Coverage 25.53 Healthbeds per 10,000 People 5.66 Physicians per 10,000 People 11.95 Nurses per

10,000 People

19.29 Distance to Hospital (km)

Transportation Capacity Rank: 6/63

6,714

27.12

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 40/63

82.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 8 / 63 PROVINCES

SCORE: 0.608

Long An's score and ranking are due to low Vulnerability combined with very high Coping Capacity scores.

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







Environmental Stress



Health Care Capacity



Environmental Capacity



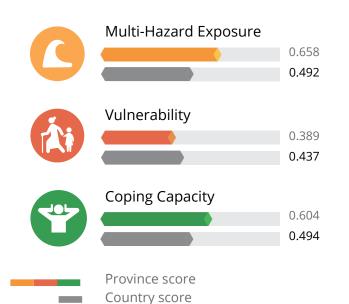
MULTI-HAZARD RISK

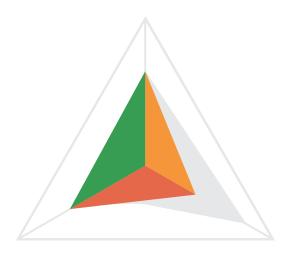


29 / 63
Rank within provinces
Score: 0.481

Long An's score and ranking are due to very high Multi-hazard exposure combined with low Vulnerability and very high Coping Capacity scores.

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







VIỆT NAM DINH

NDPBA PROVINCE PROFILE



VIỆT NAM NAM DINH

CAPITAL: NAM ĐỊNH

Area: 1,845 km²

Located in the southeastern part of the Red River Delta, Nam Dinh is a province with rich historical and cultural heritages. The province's terrain is comprised of hollow delta, coastal delta, and sand banks, with three big river systems and five river mouths along the sea coast. Xuan Thuy national park is a RAMSA biosphere reserve. The provincial economy is based on agriculture, forestry, service, and industrial manufacturing (in six industrial zones and 17 industrial clusters).



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.561 • Rank: 7/63



RESILIENCE (R) - high Score: 0.553 • Rank: 21/63



MULTI-HAZARD EXPOSURE - very high Score: 0.789 • Rank: 2/63



VULNERABILITY (V) - very low Score: 0.349 • Rank: 55/63



COPING CAPACITY (CC) - low Score: 0.454 • Rank: 41/63



Population (2017) 1,897,975



Population in Poverty 3.8%



Illiterate population 3.0%



Access to improved water 99.9%



Average life expectancy 74.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 2 / 63 PROVINCES

SCORE: 0.789



MHE

Raw MHE

Relative MHE 0.919

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 68.4%

Wildfire 0.0%



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature 100.0% **1897975**



Surge



VULNERABILITY (V)

RANK: 55 / 63 PROVINCES

SCORE: 0.349

Vulnerability in Nam Dinh is primarily driven by Environmental Stress and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 7/63

-1.8%

134.69

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 45/63

74.1 (years)

Life Expectancy

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

5.4% Acute Malnutrition (Children <5) 51 Tuberculosis Incidence

(per 100,000

persons)

27.74 Malaria Prevalance (per 100,000 persons)

212.8

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 59/63

Access

99.9% Households with Safe Water 86.5% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 49/63

3.0% Adult Illiteracy

Rate

Rate

99.7% School Attendance without Internet

87.0% Households

5.0% Housholds without TV



Economic Constraints

48.5 3.8%

Economic Dependency

Poverty



Gender Inequality

0.22 0.16

F M School Income Enrollment Rate* Inequality*

Rank: 32/63

Rank: 36/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 61/63

0.0% Average Annual Population Change

1.9% Average Annual Urban Population Change

4.7% Net Migration Rate



COPING CAPACITY (CC)

RANK: 41 / 63 PROVINCES

SCORE: 0.454

Nam Dinh exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.

7.62

Entry Costs*



Economic Capacity

Rank: 55/63

6.69 4,176

VND)

14.61 6.35 Purchasing

Income per Business Capita (in 1,000 Power Support Services*

is considered low (poor) and 10 is considered high (good).

*Values represent a sub-index score where 1



Governance

Time Cost*

Rank: 48/63 5.33 6.73 4.62 Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 5/63

33.0% Protected Area



Infrastructure Capacity

Rank: 42/63



Health Care Capacity Rank: 40/63

97.0% 27.73 4.62 10.02 6.19 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 34/63

1,784 15.85 Road Density Distance to Airport (km per sq. km) or Seaport (km)

Communications Capacity Rank: 41/63

82.2% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 21 / 63 PROVINCES

SCORE: 0.553

Nam Dinh's score and ranking are due to very low Vulnerability combined with low Coping Capacity scores.

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









Environmental Stress

Gender Inequality

Governance

Economic Capacity



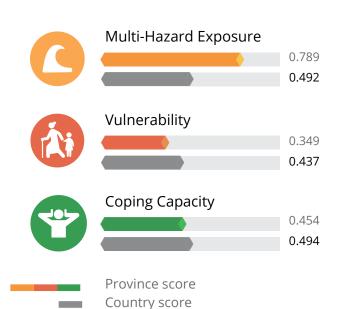
MULTI-HAZARD RISK

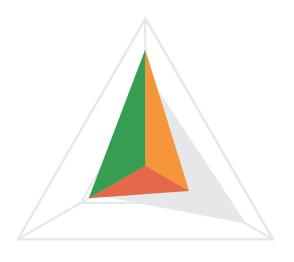
R

7 / 63
Rank within provinces
Score: 0.561

Nam Dinh's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

NGHE AN

NDPBA PROVINCE PROFILE



VIỆT NAM NGHE AN

CAPITAL: VINH

Area: 18,637 km²

Nghe An is the largest province located in the North Central Coastal region of Viet Nam, sharing a border with Laos to the west. The province is two thirds natural forested area and has a large reserve of minerals, especially limestone. Nghe An is rich in natural resources, scenery, and beaches with a long history and deep-rooted culture in Vi Dam folk music. The province's economy is based on agriculture, forestry, mining, and an industrial focus with 13 large industrial zones, producing cement, white stone, sugar, and milk.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.568 • Rank: 5/63



RESILIENCE (R) - moderate Score: 0.539 • Rank: 25/63



MULTI-HAZARD EXPOSURE - very high Score: 0.781 • Rank: 3/63



VULNERABILITY (V) - moderate Score: 0.432 • Rank: 29/63



COPING CAPACITY (CC) - high Score: 0.51 • Rank: 21/63



Population (2017) 3,123,992



Population in Poverty 12.3%



Illiterate population 2.2%



Access to improved water 86.5%



Average life expectancy 72.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 3 / 63 PROVINCES

SCORE: 0.781



MHE 0.781

Raw MHE 0.88

Relative MHE 0.745

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

3111836



Flood 22.7%



Wildfire

8.1%



Earthquake 0.0%

MÈ

6.5% 203873

Extreme Temperature

100.0% **1** 3123992



Surge

0.0%



VULNERABILITY (V)

RANK: 29 / 63 PROVINCES

SCORE: 0.432

Vulnerability in Nghe An is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 33/63

2.9%

43.35

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 33/63

72.5

(years)

Life Expectancy

16.8 Infant Mortality Rate (per 1,000

live births)

5.8% Acute Malnutrition (Children <5) 33.5
Tuberculosis
Incidence

(per 100,000

persons)

Malaria Prevalance (per 100,000 persons)

19.89

214.7

HIV Prevalance (per 100,000 persons)

www.pdc.org

0

Clean Water Vulnerability

Rank: 13/63

86.5%

Households with Safe Water Access 41.3% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 46/63

2.2% Adult Illiteracy

v :

97.7% School Attendance 86.0% Households without Internet 7.0% Housholds without TV



Economic Constraints

Rate

Rate

Rank: 21/63

44.5 Economic Dependency 12.3% Poverty

oď

Gender Inequality

Rank: 40/63

0.11 0.23

Income F M School Inequality* Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 37/63 0.6% 3.9% 1.1%

Average Annual Population Change Average Annual Urban Population Change 1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 21 / 63 PROVINCES

high (good).

SCORE: 0.51

Nghe An exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 19/63

6.72 4,576
Time Cost* Income per

15.48
Purchasing

7.45
Business

7.85 Entry Costs*

Support Services*



Governance

Rank: 45/63

Capita (in 1,000

5.13 4.68
Law and Order* Informal Charges*

6.38
Transparency*



Environmental Capacity

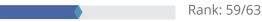
♦ Rank: 1/63

78.6%

Protected Area



Infrastructure Capacity





Health Care Capacity Rank: 53/63

 94.3%
 30.3
 5.31
 12.9
 18.14

 Immunization Coverage
 Healthbeds per 10,000 People 10,0



Transportation Capacity Rank: 58/63

5,719 1

Road Density Di

167.31 Distance to Airo

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 32/63

83.9%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 25 / 63 PROVINCES

SCORE: 0.539

Nghe An's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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



Clean Water Access Vulnerability



Economic Constraints



Transportation Capacity



Governance

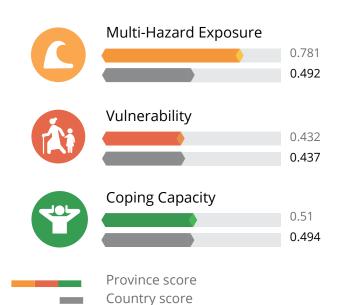


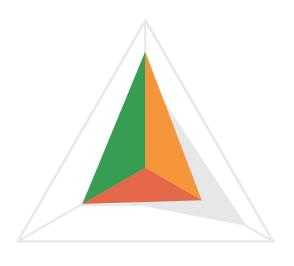
MULTI-HAZARD RISK

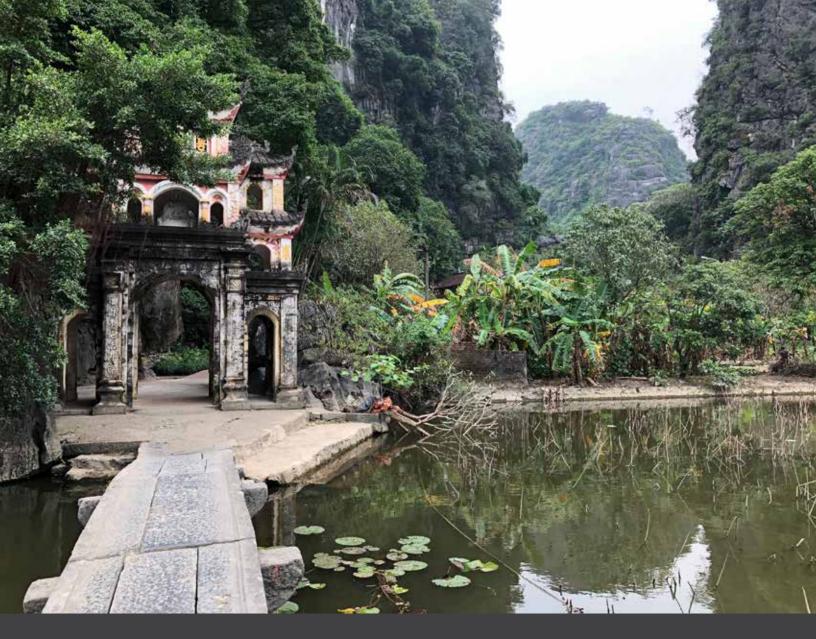
5 / 63
Rank within provinces
Score: 0.568

Nghe An's score and ranking are due to very high Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

NINH BINH

NDPBA PROVINCE PROFILE



VIỆT NAM NINH BINH

CAPITAL: NINH BÌNH

Area: 1,558 km²

Located in the southern Red River Delta, Ninh Binh province is famous for a high density of natural and cultural attractions, including Trang An landscape complex (UNESCO World Heritage site), Cuc Phong National Park, historic monuments in the Hoa Lu ancient capital. Ninh Binh is also known for having a large catholic population. The province's economic activities include tourism, industrial manufacturing (mostly construction materials in seven large industrial zones), mining, service, and agriculture.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.53 • Rank: 15/63



RESILIENCE (R) - moderate Score: 0.523 • Rank: 32/63



MULTI-HAZARD EXPOSURE - high Score: 0.636 • Rank: 16/63



VULNERABILITY (V) - high Score: 0.438 • Rank: 26/63



COPING CAPACITY (CC) - moderate Score: 0.484 • Rank: 29/63





Population (2017) 929,776



Population in Poverty 5.5%



Illiterate population 12.5%



Access to improved water 97.4%



Average life expectancy 73.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 16 / 63 PROVINCES

SCORE: 0.636



MHE 0.636

Raw MHE 0.542

Relative MHE 0.858

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 929872



54.9% \$ 510056



Wildfire

0.0%

4 349



Earthquake 0.0%

MÈ

0.0%

Extreme Temperature

100.0%

2 929776



Surge

0.1%

\$ 586



VULNERABILITY (V)

RANK: 26 / 63 PROVINCES

SCORE: 0.438

Vulnerability in Ninh Binh is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 14/63

-0.2%

85.9

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 39/63

73.4

(years)

Life Expectancy

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

5.5% Acute Malnutrition

(Children <5)

37.9 Tuberculosis

Incidence

persons)

(per 100,000

53.75

Malaria Prevalance (per 100,000 persons)

287.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 47/63

97.4%

Access

Households with Safe Water

75.6% Households with Hygienic Toilet



Information Access Vulnerability

Access

Rank: 22/63

12.5%

Adult Illiteracy Rate

96.6% School

87.0% Households 5.0%

Rank: 28/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

48.6

Economic Dependency Ratio

5.5% Poverty

Gender Inequality

0.12

0.4

Income Inequality* F M School Enrollment Rate* Rank: 17/63

*Values closer to 1 represent greater

Population Pressures

Rank: 29/63

gender parity.



0.6% Average Annual Population Change

3.8% Average Annual Urban Population Change

3.5% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 29 / 63 PROVINCES

high (good).

SCORE: 0.484

Ninh Binh exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 62/63

7.03 3,960 24.65 Time Cost* Income per Purchasin

Income per Purchasing Capita (in 1,000 Power VND)

Business Entry Cost
Support

4.94

Services*

7.7 Entry Costs*



Governance

Rank: 20/63
6.13 6.1 6.09
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 11/63

20.6% Protected Area



Infrastructure Capacity

Rank: 25/63



Health Care Capacity Rank: 22/63

97.4% 30.72 6.79 12.82 9.2

Immunization Coverage Healthbeds per 10,000 People 10,000



Transportation Capacity Rank: 33/63

2,356 31.36

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 44/63

81.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 32 / 63 PROVINCES

SCORE: 0.523

Ninh Binh's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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















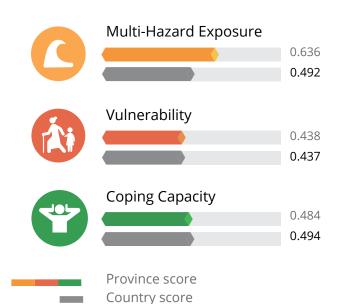
MULTI-HAZARD RISK

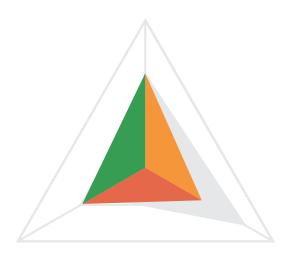
Stress

15 / 63 Rank within provinces Score: 0.53

Ninh Binh's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

NINH THUAN

NDPBA PROVINCE PROFILE



VIỆT NAM NINH THUAN

CAPITAL: PHAN RANG-THÁP CHÀM

Area: 3,531 km²

Located in the South Central Coast, Ninh Thuan is known as the driest province in Viet Nam with average rainfall of only 700-800mm per year. The province is a well-know tourist destination with natural scenery, beautiful beaches, and historical relics of Champa ancient kingdom. Ninh Thuan is the home of Cham and Raglay ethnic culture. As one of the poorest and least industrialized provinces, prominent products of Ninh Thuan include grape fruits, salt production, fishing, and some manufacturing. The province's agriculture is vulnerable to frequent drought, but Ninh Thuan has high potential for solar and wind power generation.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.41 • Rank: 52/63



RESILIENCE (R) - low Score: 0.51 • Rank: 42/63



MULTI-HAZARD EXPOSURE - very low Score: 0.249 • Rank: 58/63



VULNERABILITY (V) - high Score: 0.454 • Rank: 21/63



COPING CAPACITY (CC) - moderate Score: 0.474 • Rank: 37/63





Population (2017) 602,115



Population in Poverty 8.2%



Illiterate population 2.2%



Access to improved water 92.4%



Average life expectancy 72.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 58 / 63 PROVINCES

SCORE: 0.249



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:

















VULNERABILITY (V)

RANK: 21 / 63 PROVINCES

SCORE: 0.454

Vulnerability in Ninh Thuan is primarily driven by Gender Inequality and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 38/63

-0.2%

22.49

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 15/63

72.6

(years)

Life Expectancy

Infant Mortality Rate (per 1,000

16.4

live births)

6.6% Acute Malnutrition

(Children <5)

1193.2 Tuberculosis

Malaria Incidence Prevalance (per 100,000 (per 100,000 persons) persons)

182.88

57.3

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 41/63

92.4%

Households with Safe Water Access

81.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 35/63

2.2% Adult Illiteracy

Rate

82.6% School

Rate

86.0% Households 4.0%

Rank: 24/63

Attendance without Internet

Housholds without TV



Economic Constraints

47.7

8.2%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 3/63

0.18

0.54

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 48/63

0.9% Average Annual Population Change

2.9% Average Annual Urban Population

Change

0.8% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 37 / 63 PROVINCES

high (good).

SCORE: 0.474

Ninh Thuan exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 59/63

7.1 3,635
Time Cost* Income per

3,635 22.84 Income per Capita (in 1,000 Power Power

6 Business 7.84 Entry Costs*

Support Services*



Governance

Rank: 23/63 6.01 5.16 6.44

Law and Order*

Informal Charges*

VND)

Transparency*



Environmental Capacity

Rank: 18/63

15.2%

Protected Area



Infrastructure Capacity

♦

Rank: 41/63



Health Care Capacity Rank: 28/63

97.1% Immunization Coverage 29.56 Healthbeds per 10,000 People 6.61
Physicians per

10,000 People

13.53 Nurses per 10,000 People 15.15 Distance to Hospital (km)

Transportation Capacity Rank: 37/63



1,615

24.54

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 49/63

79.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 42 / 63 PROVINCES

SCORE: 0.51

Ninh Thuan's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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







Vulnerable Health Status



Economic Capacity



Governance



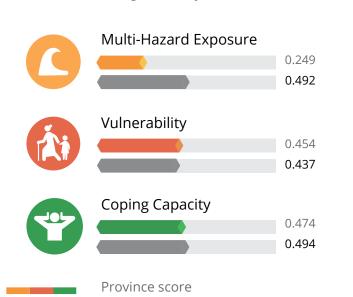
MULTI-HAZARD RISK



52 / 63 Rank within provinces Score: 0.41

Ninh Thuan's score and ranking are due to very low Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

PHU THO

NDPBA PROVINCE PROFILE



VIỆT NAM PHU THO

CAPITAL: VIỆT TRÌ

Area: 4,091 km²

Neighboring Hanoi Capital to the northwest, Phu Tho is a midlands province linking the Red River Delta with Viet Nam's northern mountainous provinces. Lying at the confluence of the Red and Da river, the province is known as the capital of the ancient Van Lang kingdom of Viet people with Hung Kings temple complex now a national historical location. Phu Tho's economic activities include agroforestry, agriculture (with tea as main product) and certain mining and industrial manufacturing.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.463 • Rank: 38/63



RESILIENCE (R) - moderate Score: 0.519 • Rank: 33/63



MULTI-HAZARD EXPOSURE - low Score: 0.428 • Rank: 43/63



VULNERABILITY (V) - moderate Score: 0.436 • Rank: 28/63



COPING CAPACITY (CC) - moderate Score: 0.474 • Rank: 38/63



Population (2017) 1,408,176



Population in Poverty 8.0%



Illiterate population 6.8%



Access to improved water 90.2%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 43 / 63 PROVINCES

SCORE: 0.428



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%



30.5% **4**28845



3.5% 49233



Earthquake 26.8% **376850**



Landslide
0.0%

♣ 0



Extreme Temperature 100.0% ▲ 1408176



Surge **0.0%**



VULNERABILITY (V)

RANK: 28 / 63 PROVINCES

SCORE: 0.436

Vulnerability in Phu Tho is primarily driven by Clean Water Access Vulnerability and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 12/63

0.0%

89.27

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 31/63

73.1 Life Exp (years)

Life Expectancy

15.1 Infant Mortality Rate (per 1,000

live births)

6.4% Acute Malnutrition

(Children <5)

37.3
Tuberculosis
Incidence

(per 100,000

persons)

51.1

Malaria Prevalance (per 100,000 persons) 226.5

HIV Prevalance (per 100,000 persons)

www.pdc.org



Clean Water Vulnerability

Rank: 24/63

90.2%

Households with Safe Water

Access

54.7% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 34/63

6.8%
Adult Illiterac

Adult Illiteracy

95.3% School 87.0% Households 5.0% Houshol

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

Ratio

5.7 8.0%

46.7 Economic Dependency

Poverty



Gender Inequality

0.04 0.21

7.04 0.2

Income F M School Inequality* Enrollment Rate*

Rank: 57/63

Rank: 26/63

*Values closer to 1 represent greater gender parity.



Population Pressures

D.6% 3.0%

Rank: 24/63

0.6%
Average Annual Population Change

Average Annual Urban Population Change 7.9% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 38 / 63 PROVINCES

high (good).

SCORE: 0.474

Phu Tho exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 47/63

6.14 3,858
Time Cost* Income per

3,858 14.8
Income per Capita (in 1,000 Power

6.62 Business 8.03

Business Entry Costs* Support Services*



Governance

Rank: 36/63

6.28 5.22 Law and Order* Informal

Informal Charges* 5.95 Transparency*

Environmental Capacity

Rai

Rank: 42/63

4.2%

Protected Area



Infrastructure Capacity

Rank: 10/63



Health Care Capacity Rank: 6/63

99.5% Immunization Coverage 40.61 Healthbeds per 10,000 People 8.3 Physicians per

10,000 People

11.67 Nurses per 10,000 People 7.39
Distance to Hospital (km)



Transportation Capacity Rank: 40/63

2,280

49.07

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 31/63

84.0%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 33 / 63 PROVINCES

SCORE: 0.519

Phu Tho's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores.

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







Environmental Stress



Economic Capacity



Governance



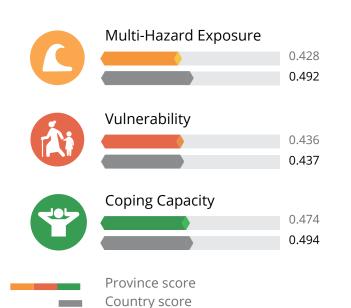
MULTI-HAZARD RISK

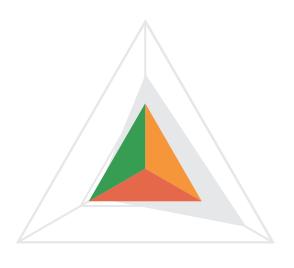
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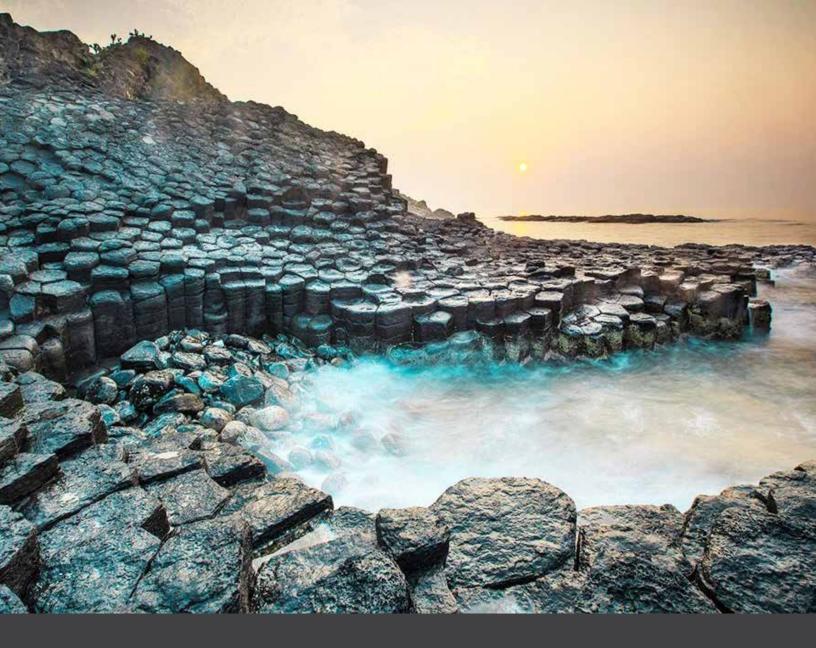
38 / 63
Rank within provinces
Score: 0.463

Phu Tho's score and ranking are due to low Multi-hazard exposure combined with moderate Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

PHU YEN

NDPBA PROVINCE PROFILE



VIỆT NAM PHU YEN

CAPITAL: TUY HÒA

Area: 5,298 km²

Phu Yen is the eastern-most province of Viet Nam's mainland. Characterized by mixed topography, mostly covered by mountains or hills in the west and a delta near coastal areas, the province has limited land for cultivation. Phu Yen is home to 30 ethnic groups including Cham, E De, Ba Na, Hre, Hoa, M'Nông, and Raglai people. Provincial economic activities are forestry, agriculture, fishing, and small industrial sector. The province is also known for having high tourism potential with many beautiful landscapes.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.537 • Rank: 12/63



RESILIENCE (R) - low Score: 0.513 • Rank: 39/63



MULTI-HAZARD EXPOSURE - very high Score: 0.638 • Rank: 13/63



VULNERABILITY (V) - moderate Score: 0.408 • Rank: 38/63



COPING CAPACITY (CC) - low Score: 0.434 • Rank: 48/63



Population (2017) 918,332



Population in Poverty 9.3%



Illiterate population 2.9%



Access to improved water 93.0%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 13 / 63 PROVINCES

SCORE: 0.638



MHE 0.638

Raw MHE 0.493

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

100.09 4 916705

Earthquake



Flood 19.7%



Wildfire 36.7% ▲ 336865



0.0%





Extreme Temperature
100.0%

918332



Surge **0.1%**



VULNERABILITY (V)

RANK: 38 / 63 PROVINCES

SCORE: 0.408

Vulnerability in Phu Yen is primarily driven by Population Pressures and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 42/63

2.2%

28.67

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 30/63

73.1

Life Expectancy

15.2 Infant Mortality Rate (per 1,000 7.6% Acute

47.9 Tuberculosis Incidence

(per 100,000

persons)

Malaria Prevalance (per 100,000

135.22

persons)

22.6

HIV Prevalance (per 100,000 persons)

(years)

Malnutrition live births) (Children <5)

Rank: 32/63



Clean Water Vulnerability

93.0% 62.9%

Households with Safe Water

Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 40/63

2.9%

Rate

Adult Illiteracy

93.4% School

85.0% Households 5.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

Rank: 25/63

46.4

9.3%

Economic Dependency Ratio

Inequality*

Population

Change

Poverty



Gender Inequality

0.03

0.36 Income

F M School Enrollment Rate*

Rank: 44/63

*Values closer to 1 represent greater gender parity.



Population Pressures

0.7% 4.9% Average Annual

Average Annual Urban Population Change

Rank: 16/63

3.4% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 48 / 63 PROVINCES

high (good).

SCORE: 0.434

Phu Yen exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 24/63

6.61

4,295

25.41 Purchasing

Power

Transparency*

8.05

Income per Capita (in 1,000 VND) sing Business Support Services* Entry Costs*



Governance

Law and Order*

6.3

Time Cost*

Rank: 54/63 5.15 5.31 5.89



Environmental Capacity

Informal

Charges*

Rank: 34/63

6.6%

Protected Area



Infrastructure Capacity

Rank: 49/63



Health Care Capacity Rank: 44/63

 98.1%
 23.79
 5.14
 11.75
 17.01

 Immunization Coverage
 Healthbeds per 10,000 People 10



Transportation Capacity Rank: 48/63

2,238

Road Density (km per sq. km)

Distance to Airport or Seaport (km)

72.18



Communications Capacity Rank: 36/63

83.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 39 / 63 PROVINCES

SCORE: 0.513

Phu Yen's score and ranking are due to moderate Vulnerability combined with low Coping Capacity scores.

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







Clean Water Access Vulnerability



Governance



Transportation Capacity

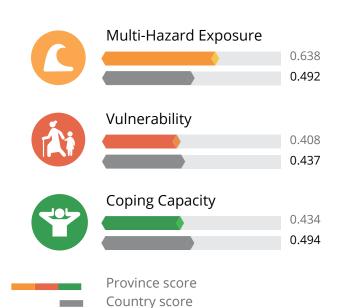


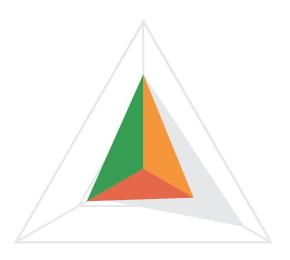
MULTI-HAZARD RISK

12 / 63
Rank within provinces
Score: 0.537

Phu Yen's score and ranking are due to very high Multi-hazard exposure combined with moderate Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

QUANG BINH

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG BINH

CAPITAL: ĐỒNG HỚI

Area: 8,813 km²

Quang Binh is a coastal province located in the upper middle portion of Viet Nam, sharing a border with Laos to the west. The province's topography is quite narrow, steep and mainly mountainous making Quang Binh one of the poorest provinces in Viet Nam. Quang Binh's economy is based on agriculture, fishery, and small sector business. Endowed with many natural landscapes and biodiversity, the province's tourism sector is growing fast with Phong Nha Ke Bang National Park a newly recognized UNESCO world heritage site.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.534 • Rank: 13/63



RESILIENCE (R) - very low Score: 0.481 • Rank: 50/63



MULTI-HAZARD EXPOSURE - high Score: 0.565 • Rank: 26/63



VULNERABILITY (V) - high Score: 0.453 • Rank: 22/63



COPING CAPACITY (CC) - very low Score: 0.414 • Rank: 57/63





Population (2017) 893,753



Population in Poverty 12.5%



Illiterate population 5.2%



Access to improved water 89.1%



Average life expectancy 72.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 26 / 63 PROVINCES

SCORE: 0.565



MHE 0.565 Raw MHE 0.492 Relative MHE 0.729

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 23.6%

Wildfire 6.7%



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature 100.0% **8** 893753





VULNERABILITY (V)

RANK: 22 / 63 PROVINCES

SCORE: 0.453

Vulnerability in Quang Binh is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 45/63

0.9%

21.88

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

17

Rank: 29/63

72.4

(years)

Life Expectancy

Infant Mortality

6.5%

50.1

107.22 Malaria Prevalance 35.3

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 25/63

89.1%

Access

57.1% Households Households with with Safe Water Hygienic Toilet

Access



Information Access Vulnerability

Rank: 38/63

5.2%

Adult Illiteracy

97.2% School Attendance 86.0% Households without Internet

6.0% Housholds

without TV

Economic Constraints

Rank: 13/63

49.6

Rate

12.5%

Rate

Economic Dependency Poverty



Gender Inequality

Rank: 27/63

0.17

0.24

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 20/63

0.5% Average Annual Population

Change

Average Annual Urban Population

4.9%

Change

3.8% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 57 / 63 PROVINCES

high (good).

SCORE: 0.414

Quang Binh exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 25/63

6.18 4,477
Time Cost* Income pe

20.79 6.45
Purchasing Busines

8.17

Income per Capita (in 1,000 sing Business Support Services* Entry Costs*

Governance

Rank: 57/63

5.63 5.16
Law and Order* Informal

ormal Ti

5.67
Transparency*

Power

r* Informal Charges*



Environmental Capacity

Rank: 16/63

15.7%

Protected Area



Infrastructure Capacity

Rank: 61/63



Health Care Capacity Rank: 62/63

86.3% Immunization Coverage 22.93 Healthbeds per 10,000 People 5.22 Physicians per 10,000 People 10.87 Nurses per 10,000 People 25.21 Distance to Hospital (km)



Transportation Capacity Rank: 39/63

2,404

52.04

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 47/63

79.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 50 / 63 PROVINCES

SCORE: 0.481

Quang Binh's score and ranking are due to high Vulnerability combined with very low Coping Capacity scores.

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



Clean Water Access Vulnerability



Economic Constraints



Health Care Capacity



Governance

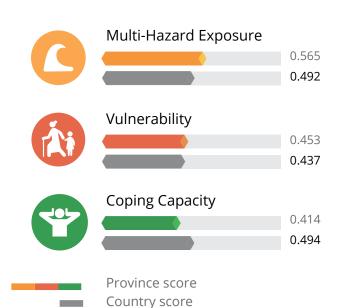


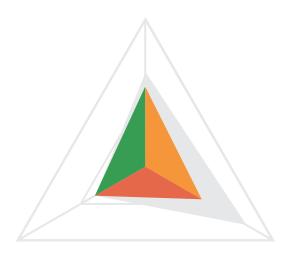
MULTI-HAZARD RISK

13 / 63
Rank within provinces
Score: 0.534

Quang Binh's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

QUANG NAM

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG NAM

CAPITAL: TAM KY

Area: 11,391 km²

Quang Nam is located in the middle of Central Viet Nam, bordering Laos to the west and facing the East Sea in the East. The province has forested mountains and hills covering 72 percent of its surface along with rivers running from the Truong Son Range to the sea. Quang Nam known for natural scenery, beaches and historical and cultural sites including two UNESCO World Heritage Sites: the ancient town of Hoi An and the My Son temple. Besides the tourism, province's economy is growing rapidly with a focus on hydropower and industry sectors, especially the Chu Lai Economic Zone.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.511 • Rank: 22/63



RESILIENCE (R) - high Score: 0.551 • Rank: 23/63



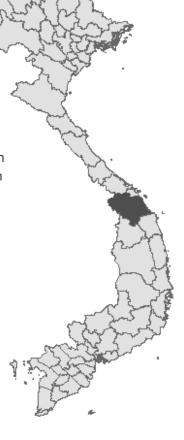
MULTI-HAZARD EXPOSURE - high Score: 0.636 • Rank: 15/63



VULNERABILITY (V) - moderate Score: 0.428 • Rank: 31/63



COPING CAPACITY (CC) - high Score: 0.53 • Rank: 18/63





Population (2017) 1,501,998



Population in Poverty 10.6%



Illiterate population 6.3%



Access to improved water 86.1%



Average life expectancy 72.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 15 / 63 PROVINCES

SCORE: 0.636



MHE 0.636 Raw MHE 0.653

Relative MHE 0.736

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood 27.0% ▲ 405289



0.8% ■ 11700



Earthquake
0.0%



Landslide
0.0%



Extreme Temperature 100.0% ▲ 1501998



Surge
0.1%

1718



VULNERABILITY (V)

RANK: 31 / 63 PROVINCES

SCORE: 0.428

Vulnerability in Quang Nam is primarily driven by Gender Inequality and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 43/63

1.6%

26.04

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 28/63

72.5

(years)

Life Expectancy

16.6 Infant Mortality Rate (per 1,000

live births)

6.8% Acute Malnutrition

(Children <5)

63.5
Tuberculosis Incidence

(per 100,000

persons)

20.65 Malaria

Prevalance (per 100,000 persons) 47.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 38/63

86.1%

Households with Safe Water Access 82.5% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 23/63

6.3% Adult Illiteracy 98.7% School 88.0%

10.0%

Rate

School Households Attendance without Internet Housholds without TV



Economic Constraints

Rate

Rank: 18/63

47.7

10.6%

Economic Dependency Ratio Poverty



Gender Inequality

Rank: 25/63

0.14

0.3

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 30/63

0.5%
Average Annual Population

Change

4.9%
Average
Annual Urban
Population

Change

1.6%

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 18 / 63 PROVINCES

high (good).

SCORE: 0.53

Quang Nam exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 31/63

6.71 4,156
Time Cost* Income per

21.33 6.44 Busines

8.2 Entry Costs*

Purchasing Business
Power Support
Services*



Governance

Rank: 8/63
6.99 5.53 6.8
Law and Order* Informal Transparency*

Capita (in 1,000

VND)



Environmental Capacity

Charges*

Rank: 15/63

16.1%

Protected Area



Infrastructure Capacity

Rank: 50/63



Health Care Capacity Rank: 58/63

 98.0%
 29.37
 5.12
 10.78
 39.12

 Immunization Coverage
 Healthbeds per 10,000 People 10



Transportation Capacity Rank: 13/63

8,683

66.39

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 51/63

77.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 23 / 63 PROVINCES

SCORE: 0.551

Quang Nam's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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







Economic Constraints



Health Care Capacity



Economic Capacity

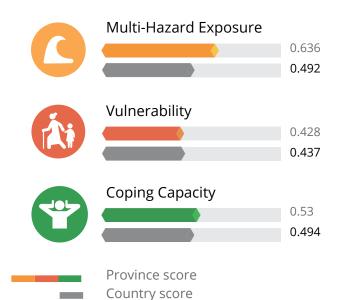


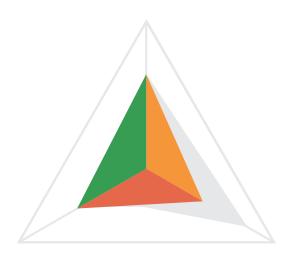
MULTI-HAZARD RISK

22 / 63 Rank within provinces Score: 0.511

Quang Nam's score and ranking are due to high Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

QUANG NGAI

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG NGAI

CAPITAL: QUẢNG NGÃI

Area: 5,540 km²

Quang Ngai is located in South Central Coastal region of Viet Nam with terrain dominated by a large plain along the coast and in the center of the province and by mountains and hills in the west. Despite its large agriculture area, Quang Ngai industry is more effective than other economic activities with the largest Viet Nam's refinery is in operation in Dung Quat Economic Zone. The province is also well-known for the vestiges from ancient Sa Huynh culture and beautiful landscapes, especially My Khe beach and Ly Son island.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.544 • Rank: 10/63



RESILIENCE (R) - low Score: 0.498 • Rank: 45/63



MULTI-HAZARD EXPOSURE - high Score: 0.628 • Rank: 17/63



VULNERABILITY (V) - high Score: 0.451 • Rank: 24/63



COPING CAPACITY (CC) - low Score: 0.446 • Rank: 45/63





Population (2017) 1,242,810



Population in Poverty 11.0%



Illiterate population 3.2%



Access to improved water 86.5%



Average life expectancy 72.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 17 / 63 PROVINCES

SCORE: 0.628



MHE 0.628 Raw MHE 0.584 Relative MHE 0.702

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

19.0% \$\frac{19.0\%}{236139}\$



Wildfire 16.4% 204311



Earthquake
0.0%
0





Extreme Temperature 100.0% ▲ 1242810



Surge **0.0%** 540



VULNERABILITY (V)

RANK: 24 / 63 PROVINCES

SCORE: 0.451

Vulnerability in Quang Ngai is primarily driven by Gender Inequality and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 24/63

4.8%

65.43

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 36/63

72 (years)

Life Expectancy

17.9 Infant Mortality Rate (per 1,000

live births)

5.8% Acute Malnutrition (Children <5) 43.4 Tuberculosis Incidence

(per 100,000

persons)

Malaria Prevalance (per 100,000 persons)

7.98

54.7 HIV Prevalance (per 100,000

persons)

Clean Water Vulnerability

Rank: 31/63

86.5%

Households with Safe Water

70.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 24/63

Rank: 20/63

Rank: 12/63

3.2%

Access

Adult Illiteracy Rate

94.2% School Attendance

Rate

90.0% Households without Internet 9.0% Housholds without TV



Economic Constraints

46.7 11.0%

Economic Dependency

Poverty

Gender Inequality

0.21

Ratio

0.33

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 58/63

0.3% Average Annual Population Change

2.0% Average Annual Urban Population

Change

2.0% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 45 / 63 PROVINCES

SCORE: 0.446

Quang Ngai exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.

6.74



Economic Capacity

Rank: 35/63

6.19 3,910 28.62
Time Cost* Income per Purchasing

Income per Purchasing Business
Capita (in 1,000 Power Support
VND) Services*

7.67 Entry Costs* high (good).



Governance

Rank: 18/63

6.38

5.59

Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 54/63

0.3% Protected Area



Infrastructure Capacity

Rank: 58/63



Health Care Capacity Rank: 49/63

 98.9%
 22.42
 5.06
 12.07
 23.88

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 46/63

5,027 107.36

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 56/63

73.8% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 45 / 63 PROVINCES

SCORE: 0.498

Quang Ngai's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Clean Water Access Vulnerability



Health Care Capacity



Economic Capacity

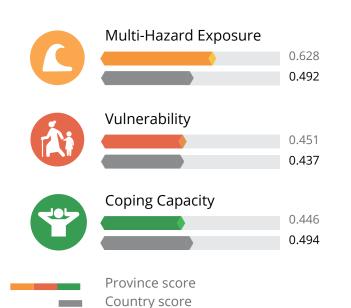


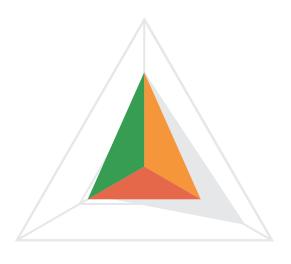
MULTI-HAZARD RISK

10 / 63
Rank within provinces
Score: 0.544

Quang Ngai's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

QUANG NINH

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG NINH

CAPITAL: HA LONG

Area: 6,789 km²

Quang Ninh is a mountainous province along the northeastern coast of Viet Nam, with more than 2,000 small islands and sharing a border with China to the north. The province has rich natural mineral resources and supplies 90% of coal for the country. Quang Ninh province is also known for being home to Ha Long Bay, a World Heritage Site. As a gateway to China, the province's economy benefits from international trade (Mong Cai Border Gate Economic Zone), tourism and rapid industrial development, especially in the Van Don Exclusive Economic Zone



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.396 • Rank: 56/63



RESILIENCE (R) - very high Score: 0.647 • Rank: 3/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.482 • Rank: 35/63



VULNERABILITY (V) - very low Score: 0.367 • Rank: 51/63



COPING CAPACITY (CC) - very high Score: 0.66 • Rank: 3/63



Population (2017) 1,275,836



Population in Poverty 4.0%



Illiterate population 7.8%



Access to improved water 92.5%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 35 / 63 PROVINCES

SCORE: 0.482



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.1%



Flood 0.0%



Wildfire 25.5%



0.0%



Landslide 0.0%



Extreme Temperature 57.0% **2** 727195



Surge



VULNERABILITY (V)

RANK: 51 / 63 PROVINCES

SCORE: 0.367

Vulnerability in Quang Ninh is primarily driven by Population Pressures and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 54/63

3.1%

21.32

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 17/63

73.1

(years)

/ **3.** I Life Expectancy

15.1 Infant Mortality Rate (per 1,000

live births)

8.8% Acute Malnutrition

(Children <5)

42.4
Tuberculosis

Incidence

persons)

(per 100,000

3.75 Malaria

Malaria Prevalance (per 100,000 persons) 436.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 39/63

92.5% Households 76.8%

With Safe Water Access

Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 61/63

Rank: 44/63

7.8%

Rate

Adult Illiteracy

98.0% School Attendance 73.0% Households

Households without Internet

2.0% Housholds without TV



Economic Constraints

Rate

45 4.0%

Economic Dependency

Poverty



Gender Inequality

() P

Rank: 34/63

0.21

Ratio

0.13

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 21/63

1.1% Average Annual Population Change 4.0%
Average
Annual Urban
Population
Change

2.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 3 / 63 PROVINCES

high (good).

SCORE: 0.66

Quang Ninh exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 3/63

Services*

7.73 5,144 Income per Time Cost*

44.08 7.52 Purchasing Business Support

8.93

Capita (in 1,000 VND)

Power

Entry Costs*



Governance

Rank: 10/63 6.8 5.63 5.79

Law and Order* Informal Charges*

Transparency*



Environmental Capacity

Rank: 35/63

6.6%

Protected Area



Infrastructure Capacity

Rank: 12/63



Health Care Capacity Rank: 24/63

95.6% Immunization Coverage

40.29 Healthbeds per 10,000 People

7.68 Physicians per

10,000 People

11.65 Nurses per 10,000 People

14.87 Distance to Hospital (km)



Transportation Capacity Rank: 19/63

3,548

26.12

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 20/63

87.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 3 / 63 PROVINCES

SCORE: 0.647

Quang Ninh's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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









Population Pressures

Vulnerable Health Status

Health Care Capacity

Governance

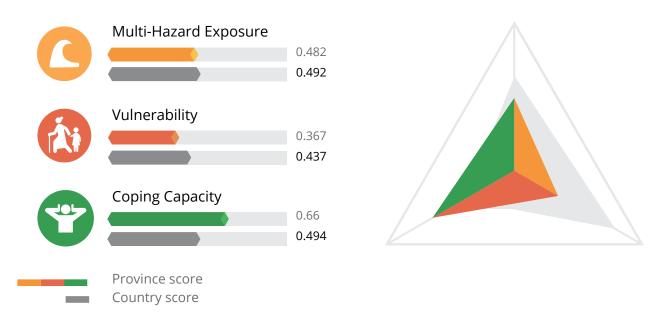


MULTI-HAZARD RISK

56 / 63
Rank within provinces
Score: 0.396

Quang Ninh's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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





VIỆT NAM

QUANG TRI

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG TRI

CAPITAL: ĐÔNG HÀ

Area: 5,061 km²

Quang Tri province is located in the North Central Coast region of Viet Nam, sharing a border with Laos to the west. The province's terrain is dominated by hills and mountains with a narrow coastal plain. One of the poorest provinces in Viet Nam, Quang Tri is affected by hot and dry south-west wind during the southwest monsoon season with frequent typhoons. The province was heavily impacted by the Viet Nam War and a number of the battle-field relics have become tourism attractions.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.478 • Rank: 31/63



RESILIENCE (R) - low Score: 0.513 • Rank: 41/63



MULTI-HAZARD EXPOSURE - low Score: 0.46 • Rank: 39/63



VULNERABILITY (V) - high Score: 0.457 • Rank: 19/63



COPING CAPACITY (CC) - moderate Score: 0.482 • Rank: 32/63



Population (2017) 678,597



Population in Poverty 10.7%



Illiterate population 11.5%



Access to improved water 87.6%



Average life expectancy 67.70 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 39 / 63 PROVINCES

SCORE: 0.46



MHE 0.46

Raw MHE 0.373

Relative MHE 0.627

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



0.0%



Wildfire 9.1% ♣ 61639



Earthquake
0.0%



Landslide
0.0%



Extreme Temperature 100.0% ▲ 678597



1.4%



VULNERABILITY (V)

RANK: 19 / 63 PROVINCES

SCORE: 0.457

Vulnerability in Quang Tri is primarily driven by Vulnerable Health Status and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 44/63

1.5%

24.71

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 8/63

67.7

Life Expectancy

31.9 Infant Mortality 7.0%

43

81.45 Malaria Prevalance 29.7

HIV Prevalance (per 100,000 persons)

www.pdc.org

(years)

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

(per 100,000 persons)

Clean Water Vulnerability

Rank: 33/63

87.6% Households with Safe Water

Access

71.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 28/63

11.5% Adult Illiteracy

Rate

94.2% School Attendance

Rate

81.0% Households without Internet

7.0% Housholds without TV



Economic Constraints

10.7%

57.5 Economic Dependency Ratio

Poverty

Gender Inequality

0.2 0.1

Income Inequality*

F M School Enrollment Rate* Rank: 51/63

Rank: 12/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 38/63 0.5% 1.9% 5.2%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 32 / 63 PROVINCES

high (good).

SCORE: 0.482

Quang Tri exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 29/63

6.31 4,369 Time Cost*

5.83

8.03

Income per Purchasing Capita (in 1,000 Power VND)

Business Support Services*

Entry Costs*



Governance

Rank: 46/63 5.39 4.16

Law and Order*

Informal Charges* 6.59 Transparency*

32.93



Environmental Capacity

Rank: 21/63

12.1%

Protected Area



Infrastructure Capacity

Rank: 19/63



Health Care Capacity Rank: 20/63

95.9% 33.4 7.74 17.33 Immunization

Coverage

Healthbeds per 10,000 People

Physicians per 10,000 People Nurses per 10,000 People

13.99 Distance to Hospital (km)



Transportation Capacity Rank: 29/63

3,138 42.6

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 38/63

82.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 41 / 63 PROVINCES

SCORE: 0.513

Quang Tri's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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



Health Status







Economic Constraints Governance

Economic Capacity

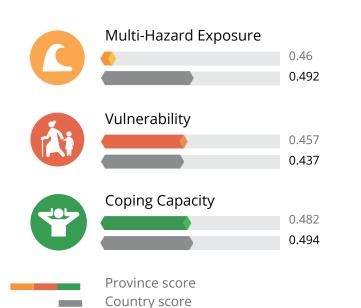


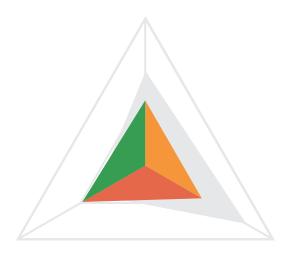
MULTI-HAZARD RISK

31 / 63 Rank within provinces Score: 0.478

Quang Tri's score and ranking are due to low Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

SOC TRANG

NDPBA PROVINCE PROFILE



VIỆT NAM SOC TRANG

CAPITAL: SÓC TRĂNG

Area: 3,382 km²

Soc Trang is a coastal province in the southeastern part of the Mekong Delta. The province is well-known for the Khmer culture and is the place where most of Khmer minority people live. Soc Trang's economy is based on agriculture (rice, fruit, aquaculture) resulting from its fertile soils, wide rivers network, and small industrial sector. The province still maintains some mangrove forest to reduce vulnerability to salinization and sea level rising.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.489 • Rank: 27/63



RESILIENCE (R) - low Score: 0.506 • Rank: 43/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.477 • Rank: 36/63



VULNERABILITY (V) - high Score: 0.473 • Rank: 15/63



COPING CAPACITY (CC) - moderate Score: 0.484 • Rank: 30/63



Population (2017) 1,367,107



Population in Poverty 12.0%



Illiterate population 22.3%



Access to improved water 94.5%



Average life expectancy 73.80 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 36 / 63 PROVINCES

SCORE: 0.477



MHE 0.477 Raw MHE 0.55 Relative MHE 0.527

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

54.8% \$ 748631



Wildfire
0.0%



Earthquake
0.0%
0



Landslide
0.0%



Extreme Temperature
23.4%

319613





VULNERABILITY (V)

RANK: 15 / 63 PROVINCES

SCORE: 0.473

Vulnerability in Soc Trang is primarily driven by Information Access Vulnerability and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 47/63

3.7%

28.08

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 42/63

73.8

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

6.0% Acute Malnutrition

(Children <5)

82.1

Tuberculosis Incidence (per 100,000

persons)

2.06

Malaria Prevalance (per 100,000 persons)

162.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

13.1

Rank: 28/63

94.5%

Households with Safe Water

Access

51.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 5/63

22.3%

Rate

Adult Illiteracy

76.6% School

89.0% Households 8.0%

Rank: 29/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

41.2

12.0%

Economic Dependency Poverty



Gender Inequality

Rank: 23/63

0.21

0.19

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 18/63

0.4% Average Annual Population Change

7.0% Average Annual Urban Population Change

1.3% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 30 / 63 PROVINCES

high (good).

SCORE: 0.484

Soc Trang exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 49/63

7.83 3,447
Time Cost* Income p

36.06 5.54 Purchasing Busines

8.25

Income per Capita (in 1,000 VND) Business Support Services* Entry Costs*



Governance

Rank: 7/63

Law and Order*

6.84 Informal Charges* 6.28 Transparency*

Power



Environmental Capacity

Rank: 57/63

0.0%

6.03

Protected Area



Infrastructure Capacity

Rank: 43/63



Health Care Capacity Rank: 48/63

98.4% Immunization Coverage 20.2 Healthbeds per

10,000 People

4.28
Physicians per 10,000 People

10.05 Nurses per 10,000 People 8.21
Distance to
Hospital (km)



Transportation Capacity Rank: 11/63

3,886

16.54

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 52/63

76.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 43 / 63 PROVINCES

SCORE: 0.506

Soc Trang's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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







Clean Water Access Vulnerability



Economic Capacity



Health Care Capacity

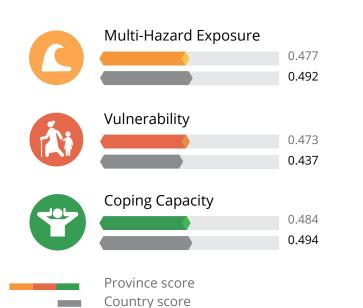


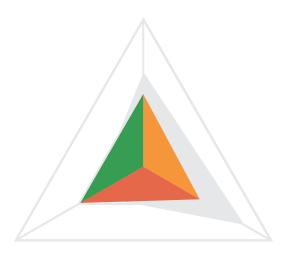
MULTI-HAZARD RISK

27 / 63
Rank within provinces
Score: 0.489

Soc Trang's score and ranking are due to moderate Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM ——
SON LA

NDPBA PROVINCE PROFILE



VIỆT NAM SON LA

CAPITAL: SON LA

Area: 16,317 km²

Son La is a mountainous province in the Northwestern region of Viet Nam, sharing a border with Laos to the south. Son La is home to 12 ethnic groups dominated by the Black and White Thai ethnic minorities. Son La Highland is most famous for its imposing Moc Chau Plateau, which is an ideal place for milk-cow breeding and tea and fruit planting. The province is also known for its hydropower potential and diverse mineral resourses. Son La Dam, the largest hydroelectric power station in Southeast Asia is located in this province.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.609 • Rank: 2/63



RESILIENCE (R) - very low Score: 0.433 • Rank: 56/63



MULTI-HAZARD EXPOSURE - very high Score: 0.694 • Rank: 7/63



VULNERABILITY (V) - very high Score: 0.561 • Rank: 8/63



COPING CAPACITY (CC) - very low Score: 0.428 • Rank: 53/63



Population (2017) 1,250,846



Population in Poverty 22.6%



Illiterate population 6.6%



Access to improved water 36.3%



Average life expectancy 70.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 7 / 63 PROVINCES

SCORE: 0.694



MHE 0.694 Raw MHE 0.556 Relative MHE 0.615

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%



Flood 8.0% ▲ 99754



Wildfire 60.3% ▲ 753797

1108514



Earthquake 96.8% 1210645



5.1% **5.1**% **4** 63437



Extreme Temperature 88.6%



0.0% 0.0%



VULNERABILITY (V)

RANK: 8 / 63 PROVINCES

SCORE: 0.561

Vulnerability in Son La is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 35/63

-0.8%

26.47

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 7/63

70.4

(years)

Life Expectancy

22.9 Infant Mortality Rate (per 1,000

10.3% Acute Malnutrition

(Children <5)

16.4

Tuberculosis

Incidence

persons)

(per 100,000

6.26 Malaria Prevalance (per 100,000 persons)

627.8

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 4/63

36.3% Households

with Safe Water Access

Households with Hygienic Toilet Access

35.4%



Information Access Vulnerability

Rank: 11/63

Rank: 4/63

6.6% Adult Illiteracy

Rate

87.7% School Attendance 91.0% Households 16.0%

Rate

without Internet

Housholds without TV



Economic Constraints

54.5 22.6%

Economic Dependency Poverty



Gender Inequality

Rank: 61/63

0.05

Ratio

0.11

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 25/63 1.7% 2.6%

Average Annual Population Change

Average Annual Urban Population

Change

2.4% Net Migration

Rate



COPING CAPACITY (CC)

RANK: 53 / 63 PROVINCES

SCORE: 0.428

Son La exhibits weaker Coping Capacity in the areas of Economic Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.

7.41

Entry Costs*



Economic Capacity

Rank: 42/63

5.89 4,988

VND)

Income per

12.82 Purchasing Capita (in 1,000 Power

Business Support Services*

6.43

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Time Cost*

Rank: 32/63 5.94 6.41 5.4

Law and Order* Informal Charges*

Transparency*



Environmental Capacity

Rank: 39/63

5.1%

Protected Area



Infrastructure Capacity

Rank: 55/63



Health Care Capacity Rank: 41/63

96.2% 29.96 5.69 12 15.78 Immunization Healthbeds per Physicians per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 51/63

1,366 54.1

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 54/63

75.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 56 / 63 PROVINCES

SCORE: 0.433

Son La's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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







Economic Constraints



Economic Capacity



Transportation Capacity

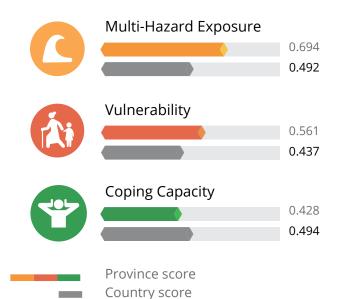


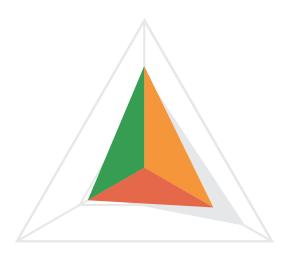
MULTI-HAZARD RISK

2 / 63
Rank within provinces
Score: 0.609

Son La's score and ranking are due to very high Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

TAY NINH

NDPBA PROVINCE PROFILE



VIỆT NAM TAY NINH

CAPITAL: TÂY NINH

Area: 4,233 km²

Neighboring Ho Chi Minh city to the northeast, Tay Ninh is a province of Viet Nam's southeast region, sharing a border with Cambodia to the north. As a multi-ethnic province, Tay Ninh is known as the capital of the Cao Dai Sect. Beside international trade, the province's economy is based on agriculture and food processing for abundant land resource.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.511 • Rank: 23/63



RESILIENCE (R) - high Score: 0.583 • Rank: 15/63



MULTI-HAZARD EXPOSURE - very high Score: 0.7 • Rank: 6/63



VULNERABILITY (V) - very low Score: 0.347 • Rank: 56/63



COPING CAPACITY (CC) - high Score: 0.514 • Rank: 20/63



Population (2017) 1,220,556



Population in Poverty 2.1%



Illiterate population 1.6%



Access to improved water 99.2%



Average life expectancy 74.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 6 / 63 PROVINCES

SCORE: 0.7



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.9%

26.8%

Flood

Wildfire 34.6% **422281**



Earthquake 0.0%

Landslide

0.0%

Extreme Temperature 100.0% **1**220556



Surge



VULNERABILITY (V)

RANK: 56 / 63 PROVINCES

SCORE: 0.347

Vulnerability in Tay Ninh is primarily driven by Population Pressures and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 39/63

2.0%

29.41

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 43/63

74.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

11.8

5.4%

(Children <5)

Acute Malnutrition

102.1 Tuberculosis Incidence

(per 100,000

persons)

8.88 Malaria Prevalance (per 100,000

persons)

236

HIV Prevalance (per 100,000 persons)

www.pdc.org



Clean Water Vulnerability

Rank: 51/63

99.2%

Access

Households with Safe Water

79.5% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 37/63

Rank: 60/63

1.6% Adult Illiteracy

Rate

85.1% School Attendance 86.0% Households

5.0% Housholds

Rate

without Internet

without TV



Economic Constraints

38.9

2.1%

Economic Dependency Poverty



Gender Inequality

Rank: 31/63

0.1

0.33

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 9/63

0.7% Average Annual Population

Change

Average Annual Urban Population

6.0%

Change

4.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 20 / 63 PROVINCES

high (good).

SCORE: 0.514

Tay Ninh exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 18/63

7.48 4,024
Time Cost* Income per

49.06
Purchasing
Power

6.61 Business 7.42 Entry Costs*

Support
Services*



Governance

Rank: 19/63 5.43 6.13 6.29

Law and Order* In

Informal Charges*

Capita (in 1,000

6.29 Transparency*



Environmental Capacity

Rank: 37/63

6.2%

Protected Area



Infrastructure Capacity

Rank: 45/63



Health Care Capacity Rank: 57/63

98.0% Immunization Coverage 20.2 Healthbeds per 10,000 People 3.63
Physicians per 10,000 People

8.74 Nurses per 10,000 People 11.5 Distance to Hospital (km)



Transportation Capacity Rank: 28/63

4,754

62.22

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 12/63

88.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 15 / 63 PROVINCES

SCORE: 0.583

Tay Ninh's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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









Population Pressures

Gender Inequality

Health Care Capacity

Economic Capacity



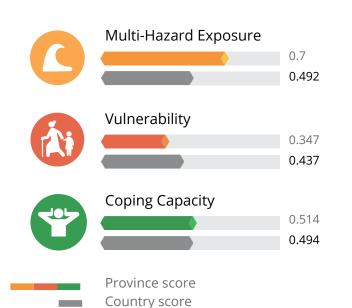
MULTI-HAZARD RISK

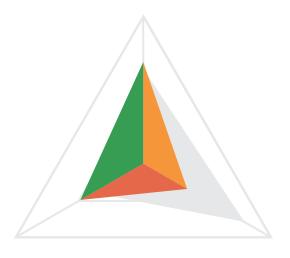


23 / 63 Rank within provinces Score: 0.511

Tay Ninh's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM BINH

NDPBA PROVINCE PROFILE



VIỆT NAM THAI BINH

CAPITAL: THÁI BÌNH

Area: 1,830 km²

Located in the eastern part of the Red River Delta, Thai Binh is a coastal province. With three faces surrounded by Red, Luoc, and Hoa rivers, fertile soil and other natural advantages for growing rice, the province has become the main rice granary of the country. The province's economic activities also include traditional handicraft, aquaculture and manufacturing in eight industrial parks.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.503 • Rank: 25/63



RESILIENCE (R) - high Score: 0.576 • Rank: 17/63



MULTI-HAZARD EXPOSURE - very high Score: 0.66 • Rank: 9/63



VULNERABILITY (V) - very low Score: 0.326 • Rank: 59/63



COPING CAPACITY (CC) - moderate Score: 0.478 • Rank: 33/63



Population (2017) 1,787,411



Population in Poverty 4.6%



Illiterate population 1.6%



Access to improved water 99.7%



Average life expectancy 75.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 9 / 63 PROVINCES

SCORE: 0.66



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood 24.3%

(1)

0.0%



Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature 100.0% ▲ 1787411



Surge 1.8%



VULNERABILITY (V)

RANK: 59 / 63 PROVINCES

SCORE: 0.326

Vulnerability in Thai Binh is primarily driven by Environmental Stress and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 6/63

3.7%

182.37

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 51/63

75.1

(years)

Life Expectancy

10.3 Infant Mortality 6.6% Acute

41.2 Tuberculosis Incidence

(per 100,000

persons)

1.12 Malaria 213.4

Rate (per 1,000 live births)

Malnutrition (Children <5)

Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 54/63

Access

99.7% Households with Safe Water

78.9% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 55/63

Rank: 35/63

1.6% Adult Illiteracy

Rate

98.5% School

91.0% Households 3.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

47.8

4.6%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 52/63

0.12

0.16

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 60/63

0.0% Average Annual Population Change

3.9% Average Annual Urban Population Change

1.4% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 33 / 63 PROVINCES

high (good).

SCORE: 0.478

Thai Binh exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 51/63

6.49 3,934 Time Cost*

15.78 6.52 Purchasing

7.84

Income per Capita (in 1,000 Business Support Services*

Entry Costs*



Governance

Rank: 31/63

5.51 5.1

6.54

Law and Order*

Informal Charges* Transparency*

Power



Environmental Capacity

Rank: 17/63

15.6%

Protected Area



Infrastructure Capacity

Rank: 27/63



Health Care Capacity Rank: 17/63

99.0% Immunization Coverage

30.2 Healthbeds per

10,000 People

7.37 Physicians per 10,000 People 9.22 Nurses per

10,000 People

5.3 Distance to Hospital (km)



Transportation Capacity Rank: 41/63

1,180

15.32

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 39/63

82.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 17 / 63 PROVINCES

SCORE: 0.576

Thai Binh's score and ranking are due to very low Vulnerability combined with moderate Coping Capacity scores.

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



Stress











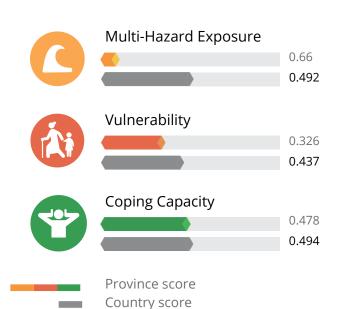


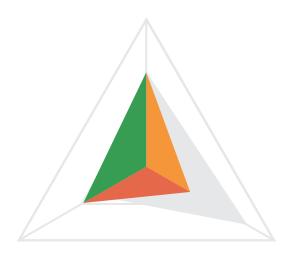
MULTI-HAZARD RISK

25 / 63 Rank within provinces Score: 0.503

Thai Binh's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM THAI NGUYEN

NDPBA PROVINCE PROFILE



VIỆT NAM THAI NGUYEN

CAPITAL: THÁI NGUYÊN

Area: 4,101 km²

Neighboring Hanoi Capital to the north, Thai Nguyen is considered the gateway and center for the Northeastern region of Viet Nam. Thai Nguyên is home to the eight main ethnic groups, including Kinh, Tay, Nung, San Diu, H'Mong, San Chay, Dao, and Hoa people. With mountainous, midland terrain, the province has rich mineral resources and favorable natural conditions for industrial plants. Green tea is the province's most famous product in Viet Nam. Thai Nguyen is known as a former iron and steel industry center with seven industrial zones in operation attracting large manufacturing investors such as Samsung Electronics.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.433 • Rank: 47/63



RESILIENCE (R) - low Score: 0.487 • Rank: 48/63



MULTI-HAZARD EXPOSURE - very low Score: 0.275 • Rank: 55/63



VULNERABILITY (V) - very high Score: 0.509 • Rank: 10/63



COPING CAPACITY (CC) - moderate Score: 0.483 • Rank: 31/63



Population (2017) 1,211,523



Population in Poverty 9.1%



Illiterate population 4.0%



Access to improved water 86.9%



Average life expectancy 73.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 55 / 63 PROVINCES

SCORE: 0.275



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

2 0

₩

Flood 20.2%

244387

(1)

Wildfire

1.1%

Earthquake 0.0%

e n

MÈ

0.0%

Landslide

Extreme Temperature

100.0% \$\blue{1} 1211523



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 10 / 63 PROVINCES

SCORE: 0.509

Vulnerability in Thai Nguyen is primarily driven by Environmental Stress and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 2/63

-17.4%

60.98

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 14/63

73.2 (years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

14.7

9.1% Acute Malnutrition

(Children <5)

34.6 Tuberculosis Incidence

persons)

(per 100,000

58.78 Malaria

HIV Prevalance (per 100,000 persons)

640

Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 18/63

86.9%

Households with Safe Water Access

50.7% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 47/63

Rank: 31/63

4.0% Adult Illiteracy

Rate

97.9% School Attendance 80.0% Households without Internet

7.0% Housholds without TV



Economic Constraints

Rate

43.8 9.1%

Economic Dependency Poverty



Gender Inequality

0.08 0.35

F M School Income Enrollment Rate* Inequality*

Rank: 33/63

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 5/63 5.7% 3.7%

1.1% Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 31 / 63 PROVINCES

high (good).

SCORE: 0.483

Thai Nguyen exhibits weaker Coping Capacity in the areas of Economic Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 58/63

6.17 Time Cost*

16.35 Purchasing Income per

Power

6 Business 7.27 Entry Costs*

Support Services*



Governance

Rank: 25/63 6.31 6.42 5.66

Law and Order*

Informal Charges*

4,550

VND)

Capita (in 1,000

Transparency*



Environmental Capacity

Rank: 28/63

9.0%

Protected Area



Infrastructure Capacity

Rank: 17/63



Health Care Capacity Rank: 11/63

97.1% Immunization Coverage

35.38 Healthbeds per 10,000 People

7.73 Physicians per 10,000 People 16.42 Nurses per 10,000 People 8.78 Distance to Hospital (km)



Transportation Capacity Rank: 50/63

1,411

54.89

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 16/63

87.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 48 / 63 PROVINCES

SCORE: 0.487

Thai Nguyen's score and ranking are due to very high Vulnerability combined with moderate Coping Capacity scores.

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







Clean Water Access Vulnerability



Economic Capacity



Transportation Capacity

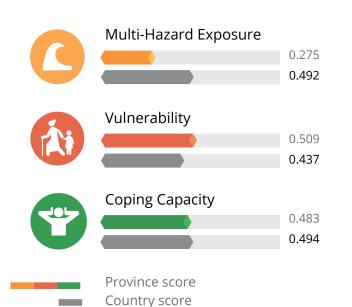


MULTI-HAZARD RISK

47 / 63
Rank within provinces
Score: 0.433

Thai Nguyen's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

THANH HOA

NDPBA PROVINCE PROFILE



VIỆT NAM THANH HOA

CAPITAL: THANH HÓA

Area: 12,642 km²

Thanh Hoa province is located in the transition between the North and North Central Coast regions of Viet Nam, sharing a border with Laos to the west and a long coastline to the east. Thanh Hoa is a relatively large province with a large population. The province is known as home to three ancient Viet Kingdoms. With abundant natural resources including mineral resources, plain area for agriculture and beautiful beaches, Thanh Hoa is vulnerable to floods and has not yet reached its economic potential.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.606 • Rank: 3/63



RESILIENCE (R) - moderate Score: 0.515 • Rank: 38/63



MULTI-HAZARD EXPOSURE - very high

Score: 0.849 • Rank: 1/63



VULNERABILITY (V) - high Score: 0.439 • Rank: 25/63



COPING CAPACITY (CC) - low Score: 0.469 • Rank: 39/63



Population (2017) 3,475,194



Population in Poverty 12.0%



Illiterate population 7.4%



Access to improved water 88.5%



Average life expectancy 73.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 1 / 63 PROVINCES

SCORE: 0.849



MHE 0.849

Raw MHE 0.942

Relative MHE 0.842

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

94.8%

3295850

√

Flood **28.8%**

1000714



Wildfire

3.9%

13447



Earthquake

23.4%

812468

ME

Landslide

4.2%

Extreme Temperature

100.0%

3475194



Surge

0.1%

2480



VULNERABILITY (V)

RANK: 25 / 63 PROVINCES

SCORE: 0.439

Vulnerability in Thanh Hoa is primarily driven by Clean Water Access Vulnerability and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 26/63

1.2%

44.94

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 25/63

73 Life Expectancy

(years)

15.5 Infant Mortality Rate (per 1,000 7.1% Acute Malnutrition

(Children <5)

43.4 Tuberculosis

Incidence

persons)

(per 100,000

27.37

Malaria Prevalance

persons)

(per 100,000

157.1 HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 23/63

88.5% Households

56.4% Households with with Safe Water Hygienic Toilet Access

Access

Information Access Vulnerability

Rank: 25/63

Rank: 23/63

7.4% Adult Illiteracy

Rate

96.2% School Attendance Rate

91.0% Households without Internet

5.0% Housholds without TV



Economic Constraints

43.8 12.0%

Economic Dependency Ratio

Poverty



Gender Inequality

0.06 0.25

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.

Rank: 54/63



Population Pressures

Rank: 15/63 0.2% 5.4% 6.4%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 39 / 63 PROVINCES

high (good).

SCORE: 0.469

Thanh Hoa exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 27/63

6.23 4,200
Time Cost* Income per

6.72 Business 8.3

Income per Purchasing Capita (in 1,000 Power VND)

17.52

Business Support Services* Entry Costs*



Governance

Rank: 43/63

5.74 4.57
Law and Order* Informal Charges*

57 6.36 ormal Transparency*



Environmental Capacity

Rank: 24/63

10.4%

Protected Area



Infrastructure Capacity

Rank: 39/63



Health Care Capacity Rank: 25/63

99.1% Immunization Coverage 30.3 Healthbeds per 10,000 People 6.48
Physicians per 10,000 People

9.62 Nurses per 10,000 People 12.6
Distance to
Hospital (km)



Transportation Capacity Rank: 31/63

6,035

82.49

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 53/63

75.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 38 / 63 PROVINCES

SCORE: 0.515

Thanh Hoa's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Population Pressures



Governance



Economic Capacity



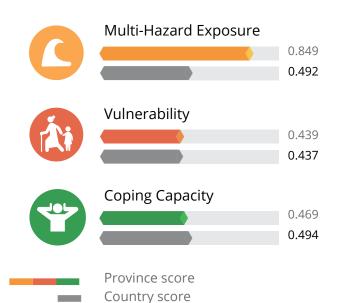
MULTI-HAZARD RISK

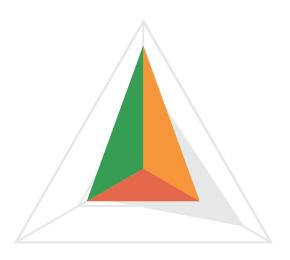
Rar

3 / 63 Rank within provinces Score: 0.606

Thanh Hoa's score and ranking are due to very high Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM THIEN HUE

NDPBA PROVINCE PROFILE



VIỆT NAM THUA THIEN HUE

CAPITAL: HUÉ

Area: 5,234 km²

Thua Thien Hue is a province in the North Central Coast region of Viet Nam, sharing a border with Laos to the west and having a 128km-long coastline. The province's capital, Hue, is well-known as the former imperial city of the Nguyen dynasty (an UNESCO world heritage site). The province is rich in both historical cultures, beautiful natural landscapes and biodiversity. Thua Thien Hue's economic activities include forestry, agriculture, fishery, mining, tourism, hydropower, and industrial manufacturing in 11 industrial and economic zones.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.503 • Rank: 24/63



RESILIENCE (R) - high Score: 0.567 • Rank: 19/63



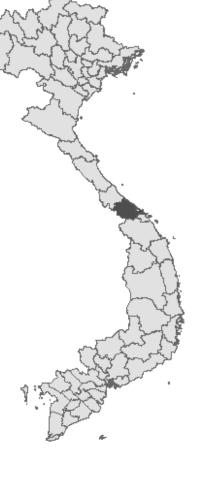
MULTI-HAZARD EXPOSURE - very high Score: 0.643 • Rank: 11/63



VULNERABILITY (V) - very low Score: 0.363 • Rank: 52/63



COPING CAPACITY (CC) - high Score: 0.497 • Rank: 24/63





Population (2017) 1,159,319



Population in Poverty 4.7%



Illiterate population 5.1%



Access to improved water 97.3%



Average life expectancy 71.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 11 / 63 PROVINCES

SCORE: 0.643



MHE 0.643 Raw MHE 0.596

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 42.9%



Wildfire 0.6%



0.0%

Earthquake



Extreme Temperature 100.0% **1159319**





VULNERABILITY (V)

RANK: 52 / 63 PROVINCES

SCORE: 0.363

Vulnerability in Thua Thien Hue is primarily driven by Gender Inequality and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 60/63

3.6%

16.18

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 21/63

71.3 (years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

5.8% Acute Malnutrition

(Children <5)

56.1 Tuberculosis Incidence

(per 100,000

persons)

9.1 Malaria Prevalance 64.2

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

20

Rank: 49/63

Access

97.3% Households with Safe Water 88.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 43/63

5.1% Adult Illiteracy

Rate

Rate

93.4% School Attendance

75.0% Households without Internet

Housholds without TV

Rank: 30/63

Rank: 28/63

8.0%



Economic Constraints

48.8

4.7%

Economic Dependency Ratio

Poverty



Gender Inequality

0.11

0.34

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 28/63 0.6% 1.0% 5.6%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 24 / 63 PROVINCES

high (good).

SCORE: 0.497

Thua Thien Hue exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 48/63

4,233 Income per

4,233 25.32 Income per Capita (in 1,000 Power Power

5.69
Business

7.93 Entry Costs*

Power Support Services*



Governance

6.41

Time Cost*

Rank: 22/63 6 5.68 6.53

Law and Order* Informal Charges*

Transparency*



Environmental Capacity

Rank: 10/63

23.8%

Protected Area



Infrastructure Capacity

Rank: 44/63



Health Care Capacity Rank: 52/63

98.6% Immunization Coverage 20.02 Healthbeds per 10,000 People 5.55 Physicians per 10,000 People 9.93 Nurses per 10,000 People 19.19 Distance to Hospital (km)

Transportation Capacity Rank: 35/63

3,752

62.33

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 27/63

85.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 19 / 63 PROVINCES

SCORE: 0.567

Thua Thien Hue's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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







Population Pressures



Economic Capacity



Health Care Capacity

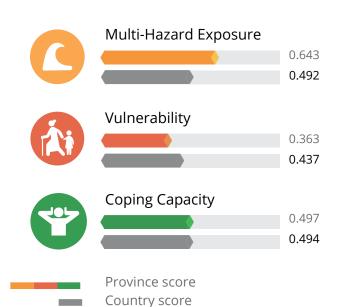


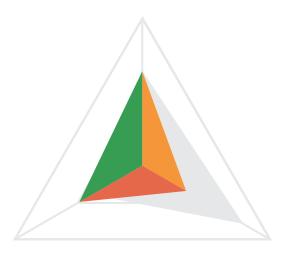
MULTI-HAZARD RISK

24 / 63
Rank within provinces
Score: 0.503

Thua Thien Hue's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

TIEN GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM TIEN GIANG

CAPITAL: Mỹ THO

Area: 2,488 km²

Tien Giang is a coastal province in the Mekong Delta region along the lower part of the Tien river. The province is considered a granary with the largest fruit producing area in the country. Tien Giang also has rich aquatic supply including freshwater fish, brackish fish, and saltwater fish. The service and industrial sector (in five large industrial parks) is growing in proportion in the province's economy.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.473 • Rank: 33/63



RESILIENCE (R) - moderate Score: 0.516 • Rank: 36/63



MULTI-HAZARD EXPOSURE - low Score: 0.453 • Rank: 40/63



VULNERABILITY (V) - low Score: 0.402 • Rank: 42/63



COPING CAPACITY (CC) - low Score: 0.434 • Rank: 49/63



Population (2017) 1,766,357



Population in Poverty 6.3%



Illiterate population 1.7%



Access to improved water 97.5%



Average life expectancy 75.60 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 40 / 63 PROVINCES

SCORE: 0.453



0.453 Raw MHE 0.587

Relative MHE 0.429

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1766330

\$

Flood **55.3%**

M

Wildfire

1.6%



Earthquake 0.0%

2 0

MÈ

Landslide 0.0%

Extreme Temperature

0.0%

2 0



Surge

0.0%

134



VULNERABILITY (V)

RANK: 42 / 63 PROVINCES

SCORE: 0.402

Vulnerability in Tien Giang is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 17/63

0.5%

80.78

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

9.1

Rank: 60/63

75.6

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births) 6.6%
Acute
Malnutrition
(Children <5)

62.3
Tuberculosis
Incidence
(per 100,000
persons)

0.58

Malaria Prevalance (per 100,000 persons) 83.3

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 44/63

97.5% Households 71.0% Households with Hygienic Toilet

with Safe Water Access Hygienic Access



Information Access Vulnerability

Rank: 42/63

1.7% Adult Illiteracy

Rate

9 Sc

91.0% School 89.0% Households 5.0% Houshol

Rank: 43/63

Attendance Rate without Internet

Housholds without TV



Economic Constraints

42.6

6.3%

Economic Dependency Ratio Poverty



Gender Inequality

0.13 0.52

Income F

F M School Enrollment Rate* *Values closer to 1 represent greater



Population Pressures

0.5% 2.0%

Rank: 43/63

Rank: 6/63

gender parity.

Average Annual Population Change

Inequality*

Average Annual Urban Population Change 4.6% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 49 / 63 PROVINCES

high (good).

SCORE: 0.434

Tien Giang exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 44/63

7.15 4,002

Income per Purchasing Capita (in 1,000 Power

26.56

6.57
Business
Support
Services*

7.48

siness Entry Costs*



Governance

Rank: 41/63

4.84 5.28 6.14
Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 55/63

0.0% Protected Area

Infrastructure Capacity

Rank: 23/63



Health Care Capacity Rank: 43/63

98.3% 21.06 4.99 10.33 8.49

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 12/63

3,469 11.23

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 18/63

87.6% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 36 / 63 PROVINCES

SCORE: 0.516

Tien Giang's score and ranking are due to low Vulnerability combined with low Coping Capacity scores.

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











Economic Capacity

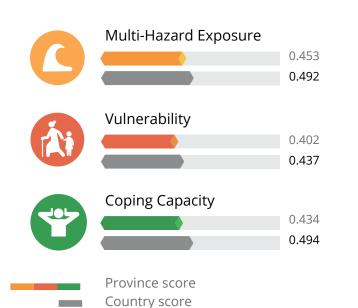


MULTI-HAZARD RISK

33 / 63 Rank within provinces Score: 0.473

Tien Giang's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

TRA VINH

NDPBA PROVINCE PROFILE



VIỆT NAM TRA VINH

CAPITAL: TRÀ VINH

Area: 2,287 km²

Tra Vinh is a coastal province situated in the southeastern part of the Mekong Delta at the mouth of Hau and Co Chien rivers. The province is known for being the home of Khmer culture - about 29% of total population is Khmer Krom people. Moderate climate and fertile soil make Tra Vinh favorable for agriculture, aquaculture, fish and shrimp breeding.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.466 • Rank: 36/63



RESILIENCE (R) - very low Score: 0.457 • Rank: 55/63



MULTI-HAZARD EXPOSURE - very low Score: 0.31 • Rank: 51/63



VULNERABILITY (V) - very high Score: 0.561 • Rank: 7/63



COPING CAPACITY (CC) - moderate Score: 0.474 • Rank: 36/63



Population (2017) 1,033,840



Population in Poverty 12.0%



Illiterate population 11.7%



Access to improved water 97.3%



Average life expectancy 74.20 years

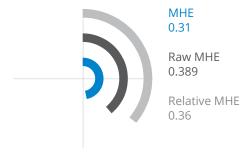
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 51 / 63 PROVINCES

SCORE: 0.31



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:

















VULNERABILITY (V)

RANK: 7 / 63 PROVINCES

SCORE: 0.561

Vulnerability in Tra Vinh is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 3/63

-14.7%

75.12

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 19/63

74.2

(years)

Life Expectancy

12.3 Infant Mortality Rate (per 1,000

live births)

11.2% Acute Malnutrition (Children <5) 68.6 Tuberculosis

Incidence

persons)

Malaria Prevalance (per 100,000 (per 100,000 persons)

0.78

94.7

HIV Prevalance (per 100,000 persons)

Clean Water Vulnerability

Rank: 29/63

97.3%

Households with Safe Water Access

43.8% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 9/63

11.7% Adult Illiteracy

Rate

86.1% School Attendance Rate

91.0% Households without Internet

10.0% Housholds without TV

Rank: 27/63



Economic Constraints

42.2 12.0%

Economic Dependency

Poverty

Gender Inequality

Rank: 4/63

0.18

Ratio

0.54

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 39/63

0.5% Average Annual Population

Change

Average Annual Urban Population

3.0%

Change

2.7% Net Migration Rate



COPING CAPACITY (CC)

RANK: 36 / 63 PROVINCES

SCORE: 0.474

Tra Vinh exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 63/63

7.91 3,320 17.86
Time Cost* Income per Purchasir

Income per Purchasing Capita (in 1,000 Power VND)

4.77 8.09
Business Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

6.72 7.82 6.33
Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 57/63

0.0% Protected Area



Infrastructure Capacity

Rank: 38/63



Health Care Capacity Rank: 38/63

98.1% 23.47 5.15 9.71 6.59

Immunization Healthbeds per Coverage 10,000 People 10,000



Transportation Capacity Rank: 21/63

2,799 12.85
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 50/63

77.9% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 55 / 63 PROVINCES

SCORE: 0.457

Tra Vinh's score and ranking are due to very high Vulnerability combined with moderate Coping Capacity scores.

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







Environmental Stress



Economic Capacity



Health Care Capacity

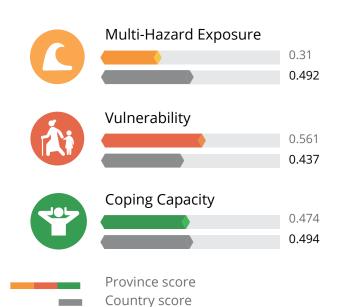


MULTI-HAZARD RISK

36 / 63 Rank within provinces Score: 0.466

Tra Vinh's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and moderate Coping Capacity scores.

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







VIỆT NAM

TUYEN QUANG

NDPBA PROVINCE PROFILE



VIỆT NAM TUYEN QUANG

CAPITAL: TUYÊN QUANG

Area: 6,866 km²

Tuyen Quang province is located in the Northeastern region of Viet Nam at the center of the Lo River valley. The province has widely varying topography covering high mountains, deep valleys, and an abundance of rivers, lakes and ponds. Tuyen Quang's economy is based on forestry, agriculture, fishery, mining, and primary industries. The province experiences cold winter with occasional mist, hoarfrost and is prone to cyclones and floods resulting from frequent intense rainstorms.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.425 • Rank: 48/63



RESILIENCE (R) - low Score: 0.488 • Rank: 47/63



MULTI-HAZARD EXPOSURE - very low Score: 0.252 • Rank: 57/63



VULNERABILITY (V) - high Score: 0.457 • Rank: 18/63



COPING CAPACITY (CC) - low Score: 0.433 • Rank: 50/63



Population (2017) **794,208**



Population in Poverty 14.7%



Illiterate population 5.5%



Access to improved water 74.7%



Average life expectancy 72.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 57 / 63 PROVINCES

SCORE: 0.252



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

2 0



Flood **24.0%**

190296



Wildfire

8.8% ♣ 70175



Earthquake 0.0%

≜ ∩



Landslide 1.6%

13103



Extreme Temperature

100.0% **2** 794208





VULNERABILITY (V)

RANK: 18 / 63 PROVINCES

SCORE: 0.457

Vulnerability in Tuyen Quang is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 37/63

2.1%

35.66

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 16/63

72 (years)

Life Expectancy

18.6 Infant Mortality Rate (per 1,000

live births)

8.6% Acute Malnutrition

(Children <5)

18.7 Tuberculosis Incidence

(per 100,000

persons)

7.96 Malaria Prevalance

115.5 HIV Prevalance (per 100,000

persons)

www.pdc.org

(per 100,000 persons)



Clean Water Vulnerability

Rank: 9/63

74.7%

Households with Households with Safe Water Access

Hygienic Toilet Access

38.9%



Information Access Vulnerability

Rank: 32/63

5.5%

Adult Illiteracy

96.1% School Attendance 90.0% Households without Internet

6.0% Housholds without TV

Economic Constraints

Rate



Rank: 14/63

46.2

Rate

14.7%

Economic Dependency Poverty



Gender Inequality

Rank: 59/63

0.06

0.17

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 35/63 0.7% 2.9% 2.4%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 50 / 63 PROVINCES

high (good).

SCORE: 0.433

Tuyen Quang exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 41/63

5.79 Time Cost* 15.17
Purchasing

6.13

Services*

8.29

Business Entry Costs*
Support



Governance

Rank: 37/63

5.95

4.58

4,249

Income per

Capita (in 1,000

6.59
Transparency*

Law and Order*

Informal Charges*

Environmental Capacity

Rank: 27/63



9.2% Protected Area

C

Infrastructure Capacity



Rank: 52/63



Health Care Capacity Rank: 51/63

97.3% Immunization Coverage 29.25 Healthbeds per

10,000 People

5.86 Physicians per 10,000 People 7.18 Nurses per

10,000 People

14.33 Distance to Hospital (km)



Transportation Capacity Rank: 49/63

1,484

55.82

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 35/63

83.7%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 47 / 63 PROVINCES

SCORE: 0.488

Tuyen Quang's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Economic Constraints



Governance



Economic Capacity

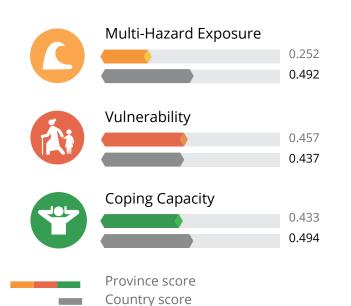


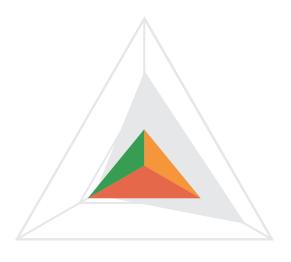
MULTI-HAZARD RISK

48 / 63
Rank within provinces
Score: 0.425

Tuyen Quang's score and ranking are due to very low Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

VINH LONG

NDPBA PROVINCE PROFILE



VIỆT NAM **VINH LONG**

CAPITAI: VĨNH I ONG

Area: 1,584 km²

Vinh Long province is located between the Hau and Tien rivers in center of the Mekong Delta. Vinh Long is home to about 20 ethnic groups, including Kinh, Khmer, Hoa, and Cham people. Flat terrain with rich alluvial soil and a complicated network of rivers and canals makes the province favorable for rice and fruits cultivation. Vinh Long is also wellknown for fishing.



RISK AND VULNERABILITY **COMPONENT SCORE**



MULTI-HAZARD RISK - moderate

Score: 0.464 • Rank: 37/63



RESILIENCE (R) - high

Score: 0.556 • Rank: 20/63



MULTI-HAZARD EXPOSURE - moderate

Score: 0.503 • Rank: 30/63



VULNERABILITY (V) - moderate

Score: 0.43 • Rank: 30/63



COPING CAPACITY (CC) - high

Score: 0.541 • Rank: 17/63



Population (2017)

1,079,952



Population in Poverty

5.4%



Illiterate population

6.3%



Access to improved water

70.0%



Average life expectancy

75.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 30 / 63 PROVINCES

SCORE: 0.503



0.503 Raw MHE 0.513

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

99.7% **1**076429

Flood

Wildfire 0.0%



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature 0.0%





VULNERABILITY (V)

RANK: 30 / 63 PROVINCES

SCORE: 0.43

Vulnerability in Vinh Long is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 19/63

1.5%

81.09

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

10.1

Rank: 57/63

80.9

Tuberculosis

(per 100,000

Incidence

persons)

75.1

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

4.8% Acute

Malnutrition (Children <5) 0.48

Malaria Prevalance (per 100,000 persons)

216.5

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 15/63

70.0% Households

Access

57.3% Households with with Safe Water Hygienic Toilet Access



Information Access Vulnerability

Rank: 27/63

6.3%

Rate

Adult Illiteracy

92.3% School Attendance 84.0% Households without Internet

7.0% Housholds without TV



Economic Constraints

Rate



Rank: 53/63

Rank: 20/63

41.4

5.4%

Economic Dependency Ratio

Poverty



Gender Inequality

0.18

0.27

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 54/63

0.2% Average Annual Population

Change

1.6% Average Annual Urban Population Change

5.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

32.83

Power

Purchasing

RANK: 17 / 63 PROVINCES

high (good).

SCORE: 0.541

Vinh Long exhibits weaker Coping Capacity in the areas of Environmental Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 22/63

7.4 3,441

6.73

8.47

Income per Capita (in 1,000 VND) Business Support Services* Entry Costs*



Governance

7.08 6.64 6.06
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 21/63



Health Care Capacity Rank: 33/63

98.3% 21.99 5.72 10.28 6.72

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 25/63

2,311 9.85

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 14/63

88.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 20 / 63 PROVINCES

SCORE: 0.556

Vinh Long's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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



Clean Water

Access Vulnerability









Economic Capacity



MULTI-HAZARD RISK

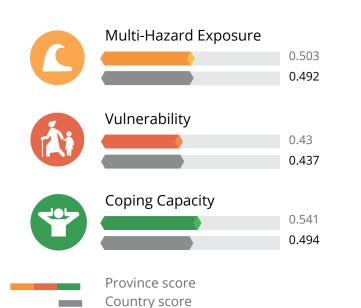


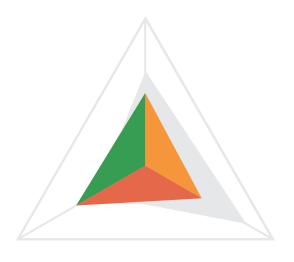
Gender Inequality

37 / 63
Rank within provinces
Score: 0.464

Vinh Long's score and ranking are due to moderate Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

VINH PHUC

NDPBA PROVINCE PROFILE



VIỆT NAM VINH PHUC

CAPITAL: VĨNH YÊN

Area: 1,509 km²

Neighboring Hanoi capital to the north, Vinh Phuc province is located in the transition area between midland mound, hill area, and the Red River Delta in northern Viet Nam. There are seven ethnic groups living together in the province as Kinh, San Diu, Dao, Cao Lan, and Muong. Vinh Phuc is one of the most industrialized provinces in Viet Nam, attracting major car makers such as Honda, Toyota, Nissan, and other manufacturing investors in 20 industrial parks.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.398 • Rank: 54/63



RESILIENCE (R) - high Score: 0.577 • Rank: 16/63



MULTI-HAZARD EXPOSURE - low Score: 0.349 • Rank: 47/63



VULNERABILITY (V) - moderate Score: 0.421 • Rank: 34/63



COPING CAPACITY (CC) - very high Score: 0.576 • Rank: 10/63



Population (2017) 1,099,692



Population in Poverty 3.7%



Illiterate population 2.2%



Access to improved water 94.9%



Average life expectancy 73.90 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 47 / 63 PROVINCES

SCORE: 0.349



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

£

48.3% \$ 531439

Flood

Wildfire 0.0%

Earthquake 0.0%

Landslide 0.0%

Extreme Temperature
100.0%

1099692

Surge 0.0% ▲ 0



VULNERABILITY (V)

RANK: 34 / 63 PROVINCES

SCORE: 0.421

Vulnerability in Vinh Phuc is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 8/63

4.1%

173.53

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 47/63

73.9

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

12.9

5.2% Acute Malnutrition

(Children <5)

5.9 Tuberculosis Incidence

(per 100,000

persons)

76.59 Malaria

Prevalance (per 100,000 persons)

115.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 35/63

94.9%

Access

Households with Safe Water

63.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 54/63

2.2% Adult Illiteracy

98.0% School Attendance

Rate

84.0% Households without Internet

5.0% Housholds without TV

Economic Constraints

Rank: 37/63

48.5

Rate

3.7%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 29/63

0.1

0.33

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 23/63

0.9% Average Annual Population

Change

4.8% Average Annual Urban Population

Change

1.4%

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 10 / 63 PROVINCES

high (good).

SCORE: 0.576

Vinh Phuc exhibits weaker Coping Capacity in the areas of Economic Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 34/63

7.27 4,332

30.45
Purchasing

6.81 7.1

Income per Capita (in 1,000 Business Support Services* Entry Costs*



Governance

Rank: 9/63
6.28 6.05 6.59
Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 22/63

12.0%

Protected Area



Infrastructure Capacity

Rank: 5/63



Health Care Capacity Rank: 3/63

98.5% 39.35 7.88

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People

14.96 Nurses per 10,000 People 5.79 Distance to Hospital (km)



Transportation Capacity Rank: 36/63

1,631

23.56

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 19/63

87.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 16 / 63 PROVINCES

SCORE: 0.577

Vinh Phuc's score and ranking are due to moderate Vulnerability combined with very high Coping Capacity scores.

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







Population Pressures



Economic Capacity



Transportation Capacity

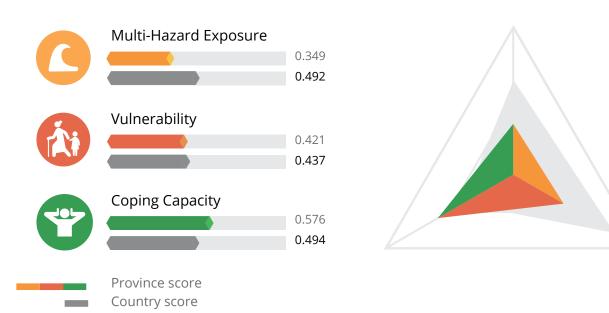


MULTI-HAZARD RISK

54 / 63
Rank within provinces
Score: 0.398

Vinh Phuc's score and ranking are due to low Multi-hazard exposure combined with moderate Vulnerability and very high Coping Capacity scores.

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





NDPBA PROVINCE PROFILE



VIỆT NAM YEN BAI

CAPITAL: YÊN BÁI

Area: 8,030 km²

Yen Bai is a mountainous province located in the northwestern Viet Nam, part of the Hoang Lien Son mountain range and the Red and Chay rivers systems. Forestry and farming are the main economic activities of the region. Thac Ba is a well-known artificial lake contributing to ecological tourism, water resources, and hydropower development. Yen Bai is home to about 30 ethnic groups, including Kinh, Dao, Tay, and H'Mong people. The province is vulnerable to floods and landslides caused by frequent typhoons and heavy rains.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.455 • Rank: 41/63



RESILIENCE (R) - low Score: 0.487 • Rank: 49/63



MULTI-HAZARD EXPOSURE - low Score: 0.338 • Rank: 49/63



VULNERABILITY (V) - high Score: 0.474 • Rank: 14/63



COPING CAPACITY (CC) - low Score: 0.449 • Rank: 43/63



Population (2017) 817,558



Population in Poverty 19.7%



Illiterate population 11.0%



Access to improved water 59.6%



Average life expectancy 68.80 years

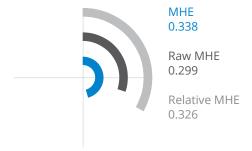
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 49 / 63 PROVINCES

SCORE: 0.338



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

Flood

16.1%

Wildfire 28.5%



Earthquake

Landslide

Extreme Temperature 94.7% **2** 774412





VULNERABILITY (V)

RANK: 14 / 63 PROVINCES

SCORE: 0.474

Vulnerability in Yen Bai is primarily driven by Clean Water Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 41/63

2.3%

29.17

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 5/63

68.8

Life Expectancy (years)

26.9 Infant Mortality Rate (per 1,000

live births)

9.8% Acute Malnutrition

(Children <5)

19.6 Tuberculosis

Incidence

persons)

(per 100,000

18.82

Malaria

486.5 HIV Prevalance (per 100,000

persons)

Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 11/63

59.6%

Households with Safe Water

Access

53.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 19/63

Rank: 9/63

11.0% Adult Illiteracy 92.5%

86.0% Households

7.0% Housholds

Rate

School Attendance Rate

without Internet

without TV



Economic Constraints

50.1

19.7%

Economic Dependency

Poverty



Gender Inequality

Rank: 62/63

0

0.11

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 53/63

1.0% Average Annual Population

Change

Average Annual Urban Population

1.4%

Change

1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 43 / 63 PROVINCES

high (good).

SCORE: 0.449

Yen Bai exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 33/63

5.89 4,527

14.33 6.94 Busines

7.65

Income per Capita (in 1,000 Business Support Services* Entry Costs*



Governance

Rank: 49/63

6.17 Law and Order*

Time Cost*

4.31
Informal
Charges*

6.16
Transparency*

Power

Environmental Capacity

Rank: 30/63

7.7%

Protected Area



Infrastructure Capacity

Rank: 36/63



Health Care Capacity Rank: 10/63

98.8% Immunization Coverage 37.36 Healthbeds per 10,000 People 7.43
Physicians per 10,000 People

15.8 Nurses per 10,000 People 17.16
Distance to Hospital (km)



Transportation Capacity Rank: 57/63

1,554

87.06

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 42/63

81.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 49 / 63 PROVINCES

SCORE: 0.487

Yen Bai's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Vulnerable Health Status



Transportation Capacity



Governance

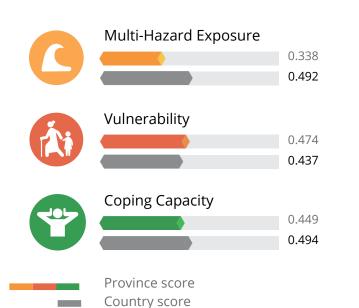


MULTI-HAZARD RISK

41 / 63
Rank within provinces
Score: 0.455

Yen Bai's score and ranking are due to low Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

QUANG BINH

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG BINH

CAPITAL: ĐỒNG HỚI

Area: 8,813 km²

Quang Binh is a coastal province located in the upper middle portion of Viet Nam, sharing a border with Laos to the west. The province's topography is quite narrow, steep and mainly mountainous making Quang Binh one of the poorest provinces in Viet Nam. Quang Binh's economy is based on agriculture, fishery, and small sector business. Endowed with many natural landscapes and biodiversity, the province's tourism sector is growing fast with Phong Nha Ke Bang National Park a newly recognized UNESCO world heritage site.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.534 • Rank: 13/63



RESILIENCE (R) - very low Score: 0.481 • Rank: 50/63



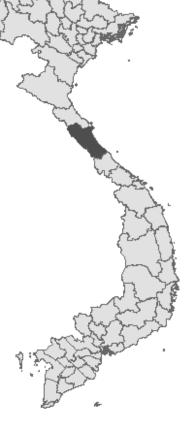
MULTI-HAZARD EXPOSURE - high Score: 0.565 • Rank: 26/63



VULNERABILITY (V) - high Score: 0.453 • Rank: 22/63



COPING CAPACITY (CC) - very low Score: 0.414 • Rank: 57/63





Population (2017) 893,753



Population in Poverty 12.5%



Illiterate population 5.2%



Access to improved water 89.1%



Average life expectancy 72.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 26 / 63 PROVINCES

SCORE: 0.565



MHE 0.565 Raw MHE 0.492

Relative MHE 0.729

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

2 893035



23.6%

% 3 Wildfire 6.7%

\$ 59449



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature

100.0% **a** 893753



Surge

1.5%



VULNERABILITY (V)

RANK: 22 / 63 PROVINCES

SCORE: 0.453

Vulnerability in Quang Binh is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 45/63

0.9%

21.88

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

17

Rank: 29/63

72.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

6.5% Acute

50.1 Tuberculosis

Incidence

persons)

(per 100,000

107.22 Malaria

Prevalance

35.3

Malnutrition (Children <5)

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 25/63

89.1%

Households with Safe Water Access

57.1% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 38/63

5.2%

Adult Illiteracy

Rate

97.2% School Attendance

86.0% Households

without Internet

6.0% Housholds without TV



Economic Constraints

Rate

Rank: 13/63

49.6 Economic Dependency

12.5% Poverty



Gender Inequality

Rank: 27/63

0.17

0.24

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 20/63 0.5% 4.9% 3.8%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 57 / 63 PROVINCES

high (good).

SCORE: 0.414

Quang Binh exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 25/63

6.18 4,477

20.79 Purchasing 8.17

Income per Purcha Capita (in 1,000 Power VND) Business Support Services*

6.45

Entry Costs*



Governance

Time Cost*

Rank: 57/63

5.63 5.16 5.67
Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 16/63

15.7% Protected Area



Infrastructure Capacity

Rank: 61/63



Health Care Capacity Rank: 62/63

 86.3%
 22.93
 5.22
 10.87
 25.21

 Immunization Coverage
 Healthbeds per 10,000 People 10



Transportation Capacity Rank: 39/63

2,404 52.04

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 47/63

79.7% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 50 / 63 PROVINCES

SCORE: 0.481

Quang Binh's score and ranking are due to high Vulnerability combined with very low Coping Capacity scores.

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







Economic Constraints



Health Care Capacity



Governance

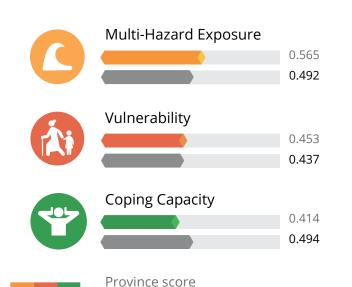


MULTI-HAZARD RISK

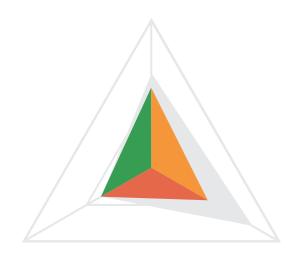
13 / 63 Rank within provinces Score: 0.534

Quang Binh's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and very low Coping Capacity scores.

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



Country score





VIỆT NAM

QUANG NAM

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG NAM

CAPITAL: TAM KY

Area: 11,391 km²

Quang Nam is located in the middle of Central Viet Nam, bordering Laos to the west and facing the East Sea in the East. The province has forested mountains and hills covering 72 percent of its surface along with rivers running from the Truong Son Range to the sea. Quang Nam known for natural scenery, beaches and historical and cultural sites including two UNESCO World Heritage Sites: the ancient town of Hoi An and the My Son temple. Besides the tourism, province's economy is growing rapidly with a focus on hydropower and industry sectors, especially the Chu Lai Economic Zone.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.511 • Rank: 22/63



RESILIENCE (R) - high Score: 0.551 • Rank: 23/63



MULTI-HAZARD EXPOSURE - high Score: 0.636 • Rank: 15/63



VULNERABILITY (V) - moderate Score: 0.428 • Rank: 31/63



COPING CAPACITY (CC) - high Score: 0.53 • Rank: 18/63



Population (2017) 1,501,998



Population in Poverty 10.6%



Illiterate population 6.3%



Access to improved water 86.1%



Average life expectancy 72.50 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 15 / 63 PROVINCES

SCORE: 0.636



MHE 0.636 Raw MHE 0.653

Relative MHE 0.736

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood 27.0% ▲ 405289



0.8% ■ 11700

1501998



Earthquake
0.0%



0.0%



Extreme Temperature 100.0%



Surge
0.1%

1718



VULNERABILITY (V)

RANK: 31 / 63 PROVINCES

SCORE: 0.428

Vulnerability in Quang Nam is primarily driven by Gender Inequality and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 43/63

1.6%

26.04

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 28/63

72.5

Life Expectancy (years)

Infant Mortality Rate (per 1,000 6.8% Acute

(Children <5)

63.5 Tuberculosis Malnutrition Incidence

(per 100,000

persons)

20.65

Malaria Prevalance (per 100,000 persons)

47.1

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

16.6

live births)

Rank: 38/63

86.1%

Households with Safe Water Access

82.5% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 23/63

6.3%

Adult Illiteracy Rate

98.7% School Attendance 88.0% Households 10.0%

Rate

without Internet

Housholds without TV



Economic Constraints

Rank: 18/63

47.7

10.6%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 25/63

0.14 0.3

Income

F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 30/63

0.5% Average Annual Population

Change

4.9% Average Annual Urban Population

Change

1.6% Net Migration

Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 18 / 63 PROVINCES

high (good).

SCORE: 0.53

Quang Nam exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 31/63

6.71 4,156 Time Cost* Income per 21.33 Purchasing Power

Transparency*

6.44 Business 8.2

Entry Costs* Support Services*



Governance

Law and Order*

Rank: 8/63 6.8 6.99 5.53

Capita (in 1,000

VND)

Informal

Charges*



Environmental Capacity

Rank: 15/63

16.1%

Protected Area



Infrastructure Capacity

Rank: 50/63



Health Care Capacity Rank: 58/63

98.0% 29.37 5.12 10.78 39.12 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 13/63

8,683 66.39

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 51/63

77.1% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 23 / 63 PROVINCES

SCORE: 0.551

Quang Nam's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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













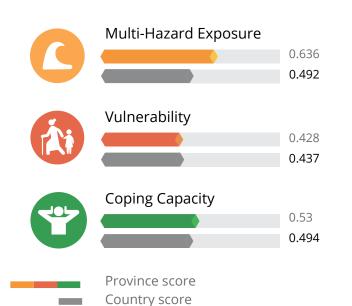


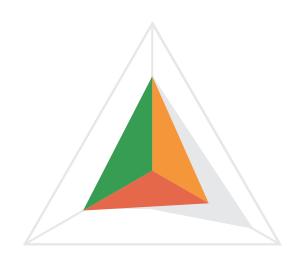
MULTI-HAZARD RISK

22 / 63 Rank within provinces Score: 0.511

Quang Nam's score and ranking are due to high Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

QUANG NGAI

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG NGAI

CAPITAL: QUẢNG NGÃI

Area: 5,540 km²

Quang Ngai is located in South Central Coastal region of Viet Nam with terrain dominated by a large plain along the coast and in the center of the province and by mountains and hills in the west. Despite its large agriculture area, Quang Ngai industry is more effective than other economic activities with the largest Viet Nam's refinery is in operation in Dung Quat Economic Zone. The province is also well-known for the vestiges from ancient Sa Huynh culture and beautiful landscapes, especially My Khe beach and Ly Son island.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.544 • Rank: 10/63



RESILIENCE (R) - low Score: 0.498 • Rank: 45/63



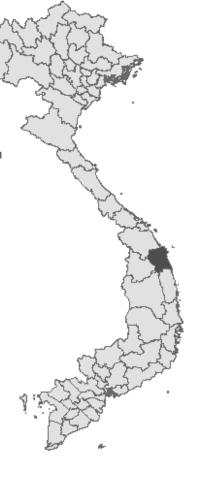
MULTI-HAZARD EXPOSURE - high Score: 0.628 • Rank: 17/63



VULNERABILITY (V) - high Score: 0.451 • Rank: 24/63



COPING CAPACITY (CC) - low Score: 0.446 • Rank: 45/63





Population (2017) 1,242,810



Population in Poverty 11.0%



Illiterate population 3.2%



Access to improved water 86.5%



Average life expectancy 72.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 17 / 63 PROVINCES

SCORE: 0.628



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1240274



19.0%

2 236139



Wildfire

16.4%

2 204311



Earthquake 0.0%

MÈ

0.0%

Extreme Temperature

100.0% **1**242810



Surge

0.0%



VULNERABILITY (V)

RANK: 24 / 63 PROVINCES

SCORE: 0.451

Vulnerability in Quang Ngai is primarily driven by Gender Inequality and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 24/63

4.8%

65.43

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 36/63

72

ncv

5.8%

6 43.4

7.98

Malaria Prevalance (per 100,000

persons)

54.7

HIV Prevalance (per 100,000 persons)

Life Expectancy (years)

Infant Mortality Rate (per 1,000 live births)

17.9

Acute Malnutrition (Children <5) Tuberculosis Incidence (per 100,000 persons)

y Rank: 31/63



Clean Water Vulnerability

Rank: 3

86.5% Households

70.4%
Households with
Hygienic Toilet

with Safe Water Access Hygienic Access



Information Access Vulnerability

Rank: 24/63

3.2% Adult Illiteracy

Rate

94.2% School

2% 90.0% Households

9.0% Houshol

Rank: 20/63

Attendance Rate

nce without Internet

Housholds without TV



Economic Constraints

46.7 11.0%

Economic Dependency Ratio Poverty



Gender Inequality

0.21 0.33

7.21

Income F M School Inequality* Enrollment Rate*

Rank: 12/63

Rank: 58/63

*Values closer to 1 represent greater gender parity.



Population Pressures

0.3% 2.0%

Average Annual Population

Change

Average Annual Urban Population Change 2.0%

Net Migration Rate



COPING CAPACITY (CC)

RANK: 45 / 63 PROVINCES

SCORE: 0.446

Quang Ngai exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 35/63

6.19 3,910 28.62
Time Cost* Income per Purchasir

Income per Purchasing Capita (in 1,000 Power VND)

6.74 7.67

Business Entry Costs*
Support Services*

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered high (good).



Governance

Rank: 18/63

6.38

5.59

Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 54/63

0.3% Protected Area



Infrastructure Capacity

Rank: 58/63



Health Care Capacity Rank: 49/63

 98.9%
 22.42
 5.06
 12.07
 23.88

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 46/63

5,027 107.36
Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 56/63

73.8% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 45 / 63 PROVINCES

SCORE: 0.498

Quang Ngai's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Clean Water Access Vulnerability



Health Care Capacity



Economic Capacity

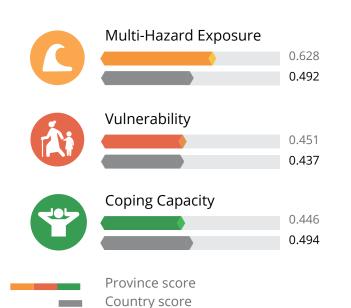


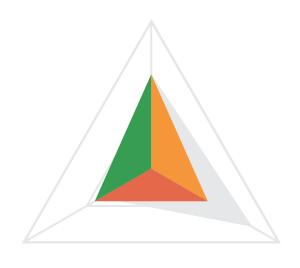
MULTI-HAZARD RISK

10 / 63
Rank within provinces
Score: 0.544

Quang Ngai's score and ranking are due to high Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM

QUANG NINH

NDPBA PROVINCE PROFILE



VIỆT NAM QUANG NINH

CAPITAL: HA LONG

Area: 6,789 km²

Quang Ninh is a mountainous province along the northeastern coast of Viet Nam, with more than 2,000 small islands and sharing a border with China to the north. The province has rich natural mineral resources and supplies 90% of coal for the country. Quang Ninh province is also known for being home to Ha Long Bay, a World Heritage Site. As a gateway to China, the province's economy benefits from international trade (Mong Cai Border Gate Economic Zone), tourism and rapid industrial development, especially in the Van Don Exclusive Economic Zone



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.396 • Rank: 56/63



RESILIENCE (R) - very high Score: 0.647 • Rank: 3/63



MULTI-HAZARD EXPOSURE - moderate Score: 0.482 • Rank: 35/63



VULNERABILITY (V) - very low Score: 0.367 • Rank: 51/63



COPING CAPACITY (CC) - very high Score: 0.66 • Rank: 3/63



Population (2017) 1,275,836



Population in Poverty 4.0%



Illiterate population 7.8%



Access to improved water 92.5%



Average life expectancy 73.10 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 35 / 63 PROVINCES

SCORE: 0.482



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.1%



0.0%



Wildfire 25.5%



Earthquake
0.0%

0.0%



Landslide 0.0%



Extreme Temperature 57.0% ♣ 727195



Surge 0.6% 7937



VULNERABILITY (V)

RANK: 51 / 63 PROVINCES

SCORE: 0.367

Vulnerability in Quang Ninh is primarily driven by Population Pressures and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 54/63

3.1%

21.32

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 17/63

73.1 (years)

Life Expectancy

15.1 Infant Mortality Rate (per 1,000 8.8% Acute Malnutrition

(Children <5)

42.4 Tuberculosis Incidence

persons)

(per 100,000

3.75

Malaria

436.1 HIV Prevalance (per 100,000

persons)

Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 39/63

92.5% Households 76.8%

live births)

Households with with Safe Water Hygienic Toilet Access

Access



Information Access Vulnerability

Rank: 61/63

7.8%

Rate

Adult Illiteracy

98.0% School

73.0% Households 2.0%

Rank: 44/63

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

45 4.0%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 34/63

0.21

0.13

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 21/63 1.1% 2.6% 4.0%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 3 / 63 PROVINCES

high (good).

SCORE: 0.66

Quang Ninh exhibits weaker Coping Capacity in the areas of Health Care Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 3/63

Services*

7.73 5,144 Income per Time Cost*

44.08 Purchasing Power

7.52 8.93

Business Entry Costs* Support



Governance

Rank: 10/63 5.63 5.79

Capita (in 1,000

VND)

Law and Order* Informal Charges* 6.8

Transparency*



Environmental Capacity

Rank: 35/63

6.6%

Protected Area



Infrastructure Capacity

Rank: 12/63



Health Care Capacity Rank: 24/63

40.29 14.87 95.6% 7.68 11.65 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 19/63

3,548 26.12

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 20/63

87.3% Households with

Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 3 / 63 PROVINCES

SCORE: 0.647

Quang Ninh's score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

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









Population Pressures

Vulnerable Health Status

Health Care Capacity

Governance

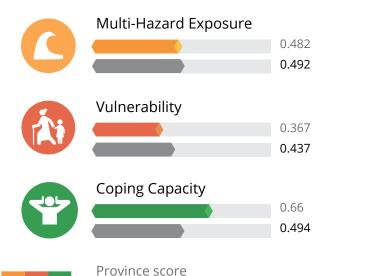


MULTI-HAZARD RISK

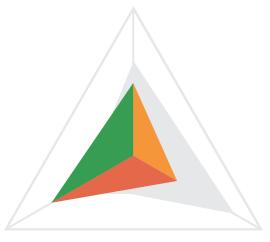
56 / 63
Rank within provinces
Score: 0.396

Quang Ninh's score and ranking are due to moderate Multi-hazard exposure combined with very low Vulnerability and very high Coping Capacity scores.

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



Country score





VIỆT NAM

QUANG TRI

NDPBA PROVINCE PROFILE

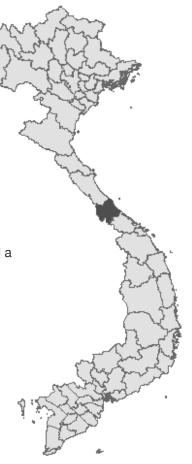


VIỆT NAM QUANG TRI

CAPITAL: ĐÔNG HÀ

Area: 5,061 km²

Quang Tri province is located in the North Central Coast region of Viet Nam, sharing a border with Laos to the west. The province's terrain is dominated by hills and mountains with a narrow coastal plain. One of the poorest provinces in Viet Nam, Quang Tri is affected by hot and dry south-west wind during the southwest monsoon season with frequent typhoons. The province was heavily impacted by the Viet Nam War and a number of the battle-field relics have become tourism attractions.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.478 • Rank: 31/63



RESILIENCE (R) - low Score: 0.513 • Rank: 41/63



MULTI-HAZARD EXPOSURE - low Score: 0.46 • Rank: 39/63



VULNERABILITY (V) - high Score: 0.457 • Rank: 19/63



COPING CAPACITY (CC) - moderate Score: 0.482 • Rank: 32/63



Population (2017) 678,597



Population in Poverty 10.7%



Illiterate population 11.5%



Access to improved water 87.6%



Average life expectancy 67.70 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 39 / 63 PROVINCES

SCORE: 0.46



MHE Raw MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

Flood 0.0%

Wildfire 9.1% **4** 61639



0.0%

Earthquake

Landslide 0.0%

Extreme Temperature 100.0% **4** 678597





VULNERABILITY (V)

RANK: 19 / 63 PROVINCES

SCORE: 0.457

Vulnerability in Quang Tri is primarily driven by Vulnerable Health Status and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 44/63

1.5%

24.71

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 8/63

67.7

Life Expectancy (years)

31.9 Infant Mortality 7.0%

43

81.45 Malaria

29.7

Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Tuberculosis Incidence Prevalance (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 33/63

87.6%

Households with Safe Water

Access

71.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 28/63

Rank: 12/63

11.5%

Adult Illiteracy Rate

94.2% School Attendance 81.0% Households without Internet

7.0% Housholds without TV



Economic Constraints

Rate

57.5

10.7%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 51/63

0.1

0.2

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 38/63

0.5% Average Annual Population

Change

1.9% Average Annual Urban Population Change

5.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 32 / 63 PROVINCES

high (good).

SCORE: 0.482

Quang Tri exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 29/63

6.31 4,369
Time Cost* Income per

5.83

8.03

Income per Purchasing Capita (in 1,000 Power VND)

Support Services* Entry Costs*



Governance

Rank: 46/63

Law and Order*

5.39

4.16
Informal
Charges*

6.59
Transparency*

32.93



Environmental Capacity

Rank: 21/63

12.1%

Protected Area



Infrastructure Capacity

Rank: 19/63



Health Care Capacity Rank: 20/63

95.9% Immunization 33.4 Healthbeds per 7.74

17.33

13.99

 Immunization
 Healthbeds per Coverage
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to 10,000 People
 Hospital (km)



Transportation Capacity Rank: 29/63

3,138

42.6

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 38/63

82.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 41 / 63 PROVINCES

SCORE: 0.513

Quang Tri's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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







Economic Constraints



Governance



Economic Capacity

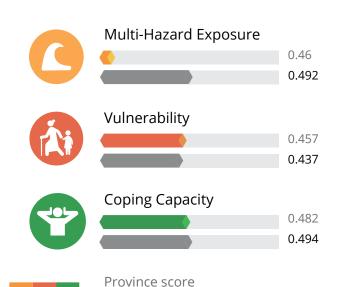


MULTI-HAZARD RISK

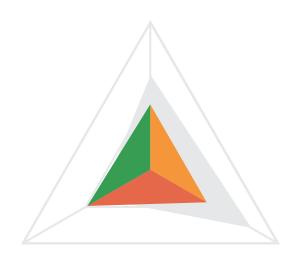
31 / 63
Rank within provinces
Score: 0.478

Quang Tri's score and ranking are due to low Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

SOC TRANG

NDPBA PROVINCE PROFILE



VIỆT NAM **SOC TRANG**

CAPITAL: SÓC TRĂNG

Area: 3,382 km²

Soc Trang is a coastal province in the southeastern part of the Mekong Delta. The province is well-known for the Khmer culture and is the place where most of Khmer minority people live. Soc Trang's economy is based on agriculture (rice, fruit, aquaculture) resulting from its fertile soils, wide rivers network, and small industrial sector. The province still maintains some mangrove forest to reduce vulnerability to salinization and sea level rising.



RISK AND VULNERABILITY **COMPONENT SCORE**



MULTI-HAZARD RISK - moderate Score: 0.489 • Rank: 27/63



RESILIENCE (R) - low Score: 0.506 • Rank: 43/63



MULTI-HAZARD EXPOSURE - moderate

Score: 0.477 • Rank: 36/63



VULNERABILITY (V) - high Score: 0.473 • Rank: 15/63



COPING CAPACITY (CC) - moderate

Score: 0.484 • Rank: 30/63



Population (2017) 1,367,107



Population in Poverty 12.0%



Illiterate population 22.3%



Access to improved water 94.5%



Average life expectancy 73.80 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 36 / 63 PROVINCES

SCORE: 0.477



MHE 0.477 Raw MHE 0.55

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1366976



Flood **54.8% ♣** 748631

(1)

Wildfire 0.0%

. 0



Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature

23.4% **2** 319613



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 15 / 63 PROVINCES

SCORE: 0.473

Vulnerability in Soc Trang is primarily driven by Information Access Vulnerability and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 47/63

3.7%

28.08

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 42/63

73.8

(years)

Life Expectancy

13.1 Infant Mortality Rate (per 1,000

live births)

6.0% Acute Malnutrition

(Children <5)

82.1 Tuberculosis

Incidence

persons)

(per 100,000

Malaria Prevalance (per 100,000 persons)

2.06

162.7

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 28/63

94.5%

51.4%

Households Households with with Safe Water Hygienic Toilet Access Access

Information Access Vulnerability

Rank: 5/63

22.3% Adult Illiteracy

Rate

76.6% School Attendance

Rate

89.0% Households 8.0%

Housholds without TV without Internet



Economic Constraints

41.2 12.0%

Economic Dependency

Poverty

Ratio

Gender Inequality

Rank: 23/63

Rank: 29/63

0.21

0.19

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.

Population Pressures

Rank: 18/63 0.4% 1.3% 7.0%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 30 / 63 PROVINCES

high (good).

SCORE: 0.484

Soc Trang exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 49/63

7.83 3,447 Time Cost*

36.06 5.54 8.25

Income per Capita (in 1,000 Purchasing Business Support Services*

Entry Costs*



Governance

Rank: 7/63

Law and Order*

6.84 Informal Charges* 6.28 Transparency*

Power



Environmental Capacity

Rank: 57/63

0.0%

6.03

Protected Area



Infrastructure Capacity

Rank: 43/63



Health Care Capacity Rank: 48/63

98.4% Immunization Coverage

20.2 Healthbeds per

10,000 People

4.28 Physicians per 10,000 People 10.05 Nurses per

10,000 People

8.21 Distance to Hospital (km)



Transportation Capacity Rank: 11/63

3,886

16.54

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 52/63

76.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 43 / 63 PROVINCES

SCORE: 0.506

Soc Trang's score and ranking are due to high Vulnerability combined with moderate Coping Capacity scores.

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



Information Access Vulnerability



Clean Water Access Vulnerability



Economic Capacity



Health Care Capacity

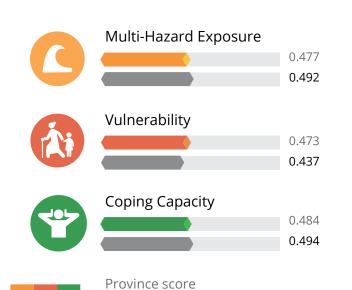


MULTI-HAZARD RISK

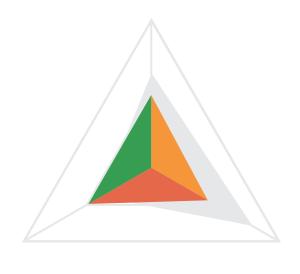
27 / 63
Rank within provinces
Score: 0.489

Soc Trang's score and ranking are due to moderate Multi-hazard exposure combined with high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM — SON LA

NDPBA PROVINCE PROFILE



VIỆT NAM SON LA

CAPITAL: SON LA

Area: 16,317 km²

Son La is a mountainous province in the Northwestern region of Viet Nam, sharing a border with Laos to the south. Son La is home to 12 ethnic groups dominated by the Black and White Thai ethnic minorities. Son La Highland is most famous for its imposing Moc Chau Plateau, which is an ideal place for milk-cow breeding and tea and fruit planting. The province is also known for its hydropower potential and diverse mineral resourses. Son La Dam, the largest hydroelectric power station in Southeast Asia is located in this province.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high Score: 0.609 • Rank: 2/63



RESILIENCE (R) - very low Score: 0.433 • Rank: 56/63



MULTI-HAZARD EXPOSURE - very high Score: 0.694 • Rank: 7/63



VULNERABILITY (V) - very high Score: 0.561 • Rank: 8/63



COPING CAPACITY (CC) - very low Score: 0.428 • Rank: 53/63



Population (2017) 1,250,846



Population in Poverty 22.6%



Illiterate population 6.6%



Access to improved water 36.3%



Average life expectancy 70.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 7 / 63 PROVINCES

SCORE: 0.694



MHE 0.694 Raw MHE 0.556 Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%



Flood 8.0% ▲ 99754



Wildfire 60.3% ▲ 753797



Earthquake 96.8% 1210645



Landslide 5.1% ♣ 63437



Extreme Temperature 88.6%

1108514



0.0%



VULNERABILITY (V)

RANK: 8 / 63 PROVINCES

SCORE: 0.561

Vulnerability in Son La is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 35/63

-0.8%

26.47

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 7/63

70.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 live births)

22.9

10.3% Acute Malnutrition

(Children <5)

16.4 Tuberculosis 6.26 Malaria 627.8

Incidence Prevalance (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 4/63

36.3%

Households with Safe Water

Access

35.4% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 11/63

Rank: 4/63

6.6% Adult Illiteracy

Rate

87.7% School Attendance 91.0% Households without Internet

16.0% Housholds without TV



Economic Constraints

Rate

54.5 22.6%

Economic Dependency

Poverty

Gender Inequality

Rank: 61/63

0.05

Ratio

0.11

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 25/63 1.7% 2.4% 2.6%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 53 / 63 PROVINCES

high (good).

SCORE: 0.428

Son La exhibits weaker Coping Capacity in the areas of Economic Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 42/63

5.89 4,988 Time Cost* Income p

VND)

4,988 12.82
Income per Purchasing Capita (in 1,000 Power

6.43
Business
Support
Services*

7.41

siness Entry Costs*



Governance

Rank: 32/63 5.94 5.4 6.41

Law and Order*

Informal T Charges*

b.4 I Transparency*



Environmental Capacity

Rank: 39/63

5.1%

Protected Area



Infrastructure Capacity

Rank: 55/63



Health Care Capacity Rank: 41/63

96.2% Immunization Coverage 29.96 Healthbeds per 10,000 People 5.69
Physicians per 10,000 People

12 Nurses per 10,000 People 15.78 Distance to Hospital (km)



Transportation Capacity Rank: 51/63

1,366

54.1

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 54/63

75.1%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 56 / 63 PROVINCES

SCORE: 0.433

Son La's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

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



Clean Water Access Vulnerability



Economic Constraints



Economic Capacity



Transportation Capacity

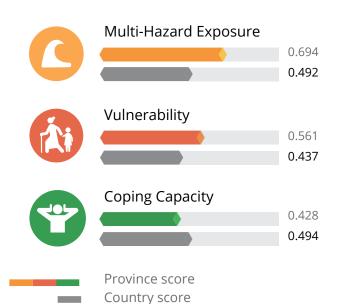


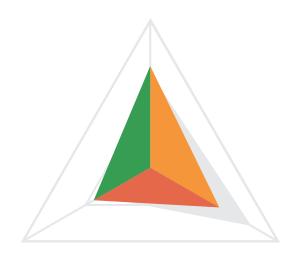
MULTI-HAZARD RISK

2 / 63
Rank within provinces
Score: 0.609

Son La's score and ranking are due to very high Multi-hazard exposure combined with very high Vulnerability and very low Coping Capacity scores.

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







VIỆT NAM

TAY NINH

NDPBA PROVINCE PROFILE



VIỆT NAM TAY NINH

CAPITAL: TÂY NINH

Area: 4,233 km²

Neighboring Ho Chi Minh city to the northeast, Tay Ninh is a province of Viet Nam's southeast region, sharing a border with Cambodia to the north. As a multi-ethnic province, Tay Ninh is known as the capital of the Cao Dai Sect. Beside international trade, the province's economy is based on agriculture and food processing for abundant land resource.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.511 • Rank: 23/63



RESILIENCE (R) - high Score: 0.583 • Rank: 15/63



MULTI-HAZARD EXPOSURE - very high Score: 0.7 • Rank: 6/63



VULNERABILITY (V) - very low Score: 0.347 • Rank: 56/63



COPING CAPACITY (CC) - high Score: 0.514 • Rank: 20/63



Population (2017) 1,220,556



Population in Poverty 2.1%



Illiterate population 1.6%



Access to improved water 99.2%



Average life expectancy 74.40 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 6 / 63 PROVINCES

SCORE: 0.7



MHE 0.7 Raw MHE 0.591 Relative MHE 0.741

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.9%

₩

Flood
26.8%



Wildfire 34.6% ▲ 422281



Earthquake
0.0%
0.0%





Extreme Temperature 100.0% ▲ 1220556



Surge 0.0% 0



VULNERABILITY (V)

RANK: 56 / 63 PROVINCES

SCORE: 0.347

Vulnerability in Tay Ninh is primarily driven by Population Pressures and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 39/63

2.0%

29.41

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 43/63

74.4

(years)

Life Expectancy

Infant Mortality Rate (per 1,000

11.8

live births)

79.5%

5.4% Acute Malnutrition

(Children <5)

102.1 Tuberculosis

Incidence

persons)

(per 100,000

8.88

Malaria

236

persons)

HIV Prevalance

(per 100,000

Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 51/63

99.2%

Households with Households with Safe Water Hygienic Toilet Access

Access

Information Access Vulnerability

Rank: 37/63

Rank: 60/63

1.6%

Adult Illiteracy Rate

85.1% School Attendance Rate

86.0% Households

without Internet

5.0% Housholds without TV



Economic Constraints



2.1%

38.9 Economic Dependency

Poverty



Gender Inequality

Rank: 31/63

0.1

0.33

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

0.7% 6.0% Rank: 9/63

Average Annual Population Change

Average Annual Urban

Population Change

4.2% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 20 / 63 PROVINCES

high (good).

SCORE: 0.514

Tay Ninh exhibits weaker Coping Capacity in the areas of Health Care Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 18/63

7.48 4,024 Time Cost* Income per 6.61 Business 7.42

Purchasing Capita (in 1,000 Power Support Services*

49.06

Entry Costs*



Governance

Rank: 19/63

5.43 6.13 Law and Order* Informal Charges* 6.29 Transparency*



Environmental Capacity

Rank: 37/63

6.2%

Protected Area



Infrastructure Capacity

Rank: 45/63



Health Care Capacity Rank: 57/63

98.0% 11.5 20.2 3.63 8.74 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 28/63

4,754 62.22

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 12/63

88.5%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 15 / 63 PROVINCES

SCORE: 0.583

Tay Ninh's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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









Population Pressures

Gender Inequality

Health Care Capacity

Economic Capacity

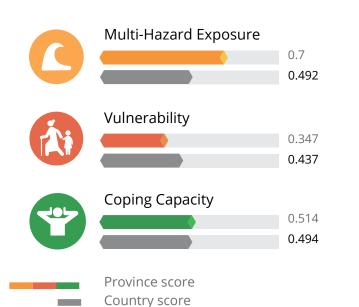


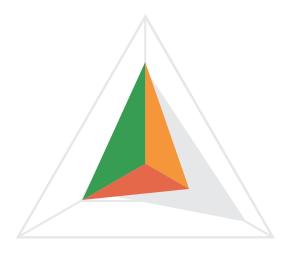
MULTI-HAZARD RISK

23 / 63
Rank within provinces
Score: 0.511

Tay Ninh's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM BINH

NDPBA PROVINCE PROFILE



VIỆT NAM THAI BINH

CAPITAL: THÁI BÌNH

Area: 1,830 km²

Located in the eastern part of the Red River Delta, Thai Binh is a coastal province. With three faces surrounded by Red, Luoc, and Hoa rivers, fertile soil and other natural advantages for growing rice, the province has become the main rice granary of the country. The province's economic activities also include traditional handicraft, aquaculture and manufacturing in eight industrial parks.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - high Score: 0.503 • Rank: 25/63



RESILIENCE (R) - high Score: 0.576 • Rank: 17/63



MULTI-HAZARD EXPOSURE - very high Score: 0.66 • Rank: 9/63



VULNERABILITY (V) - very low Score: 0.326 • Rank: 59/63



COPING CAPACITY (CC) - moderate Score: 0.478 • Rank: 33/63



Population (2017) 1,787,411



Population in Poverty 4.6%



Illiterate population 1.6%



Access to improved water 99.7%



Average life expectancy **75.10 years**

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 9 / 63 PROVINCES

SCORE: 0.66



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

₩

Flood 24.3%



0.0%



Earthquake 0.0%

MÈ

Landslide
0.0%

Extreme Temperature
100.0%

▲ 1787411



1.8%



VULNERABILITY (V)

RANK: 59 / 63 PROVINCES

SCORE: 0.326

Vulnerability in Thai Binh is primarily driven by Environmental Stress and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 6/63

3.7%

182.37

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 51/63

75.1

(years)

Life Expectancy

10.3 Infant Mortality 6.6% Acute

41.2

1.12 Malaria 213.4

Rate (per 1,000 live births)

Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

HIV Prevalance Prevalance (per 100,000 (per 100,000 persons) persons)



Clean Water Vulnerability

Rank: 54/63

Access

99.7% Households with Safe Water

78.9% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 55/63

1.6% Adult Illiteracy

98.5% School Attendance 91.0% Households without Internet

3.0% Housholds without TV



Economic Constraints



Rank: 35/63

47.8

Rate

4.6%

Rate

Economic Dependency Ratio

Poverty



Gender Inequality

0.12

0.16

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 60/63

Rank: 52/63

0.0% Average Annual Population

Change

3.9% Average Annual Urban 1.4%

Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 33 / 63 PROVINCES

high (good).

SCORE: 0.478

Thai Binh exhibits weaker Coping Capacity in the areas of Economic Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 51/63

6.49 3,934
Time Cost* Income per

3,934 15.78
Income per Capita (in 1,000 Power

6.52 Business 7.84 Entry Costs*

Support Services*



Governance

Rank: 31/63

5.51 5.1 6.54
Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 17/63

15.6%

Protected Area



Infrastructure Capacity

Rank: 27/63



Health Care Capacity Rank: 17/63

99.0% 30.2 7.37 9.22 5.3

Immunization Healthbeds per Coverage 10,000 People 10,000 People 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 41/63

1,180 15.32

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 39/63

82.7% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 17 / 63 PROVINCES

SCORE: 0.576

Thai Binh's score and ranking are due to very low Vulnerability combined with moderate Coping Capacity scores.

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

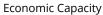






Constraints









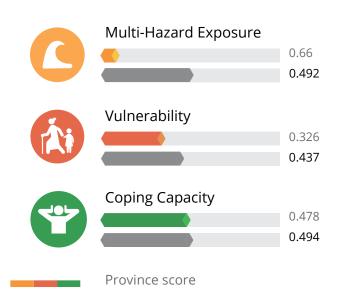


MULTI-HAZARD RISK

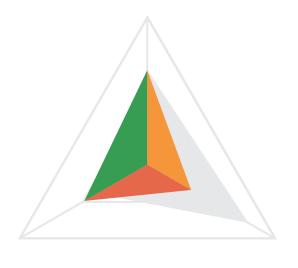
25 / 63 Rank within provinces Score: 0.503

Thai Binh's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM THAI NGUYEN

NDPBA PROVINCE PROFILE



VIỆT NAM THAI NGUYEN

CAPITAL: THÁI NGUYÊN

Area: 4,101 km²

Neighboring Hanoi Capital to the north, Thai Nguyen is considered the gateway and center for the Northeastern region of Viet Nam. Thai Nguyên is home to the eight main ethnic groups, including Kinh, Tay, Nung, San Diu, H'Mong, San Chay, Dao, and Hoa people. With mountainous, midland terrain, the province has rich mineral resources and favorable natural conditions for industrial plants. Green tea is the province's most famous product in Viet Nam. Thai Nguyen is known as a former iron and steel industry center with seven industrial zones in operation attracting large manufacturing investors such as Samsung Electronics.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.433 • Rank: 47/63



RESILIENCE (R) - low Score: 0.487 • Rank: 48/63



MULTI-HAZARD EXPOSURE - very low Score: 0.275 • Rank: 55/63



VULNERABILITY (V) - very high Score: 0.509 • Rank: 10/63



COPING CAPACITY (CC) - moderate Score: 0.483 • Rank: 31/63



Population (2017) 1,211,523



Population in Poverty 9.1%



Illiterate population 4.0%



Access to improved water 86.9%



Average life expectancy 73.20 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 55 / 63 PROVINCES

SCORE: 0.275



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

Flood 20.2%

Wildfire 1.1%



Earthquake 0.0%

Landslide 0.0%

Extreme Temperature

100.0% **1**211523



Surge



VULNERABILITY (V)

RANK: 10 / 63 PROVINCES

SCORE: 0.509

Vulnerability in Thai Nguyen is primarily driven by Environmental Stress and Clean Water Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 2/63

-17.4%

60.98

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 14/63

73.2

(years)

Life Expectancy

14.7 Infant Mortality 9.1% Acute

34.6

58.78

640

Rate (per 1,000 live births)

Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

Malaria Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 18/63

86.9% Households

50.7% Households with with Safe Water Hygienic Toilet Access Access



Information Access Vulnerability

Rank: 47/63

4.0% Adult Illiteracy Rate

97.9% School

80.0% Households 7.0%

Attendance Rate

without Internet

Housholds without TV



Economic Constraints

9.1%

43.8

Poverty

Economic Dependency Rank: 31/63



Gender Inequality

Rank: 33/63

0.08

0.35

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 5/63

1.1% Average Annual Population

Change

5.7%

Average Annual Urban Population

3.7% Net Migration Rate

Change

PDC Global

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 31 / 63 PROVINCES

high (good).

SCORE: 0.483

Thai Nguyen exhibits weaker Coping Capacity in the areas of Economic Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 58/63

6.17 4,550
Time Cost* Income per

4,550 16.35
Income per Capita (in 1,000 Power

Transparency*

6 Business 7.27 Entry Costs*

ver Support
Services*



Governance

Law and Order*

Rank: 25/63 6.42 5.66 6.31



Environmental Capacity

VND)

Informal

Charges*

Rank: 28/63

9.0%

Protected Area



Infrastructure Capacity

Rank: 17/63



Health Care Capacity Rank: 11/63

97.1% Immunization Coverage 35.38 Healthbeds per 10,000 People 7.73
Physicians per 10,000 People

16.42 Nurses per 10,000 People 8.78
Distance to
Hospital (km)



Transportation Capacity Rank: 50/63

1,411

Road Density (km per sq. km) 54.89
Distance to Airport or Seaport (km)



Communications Capacity Rank: 16/63

87.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 48 / 63 PROVINCES

SCORE: 0.487

Thai Nguyen's score and ranking are due to very high Vulnerability combined with moderate Coping Capacity scores.

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







Clean Water Access Vulnerability



Economic Capacity



Transportation Capacity

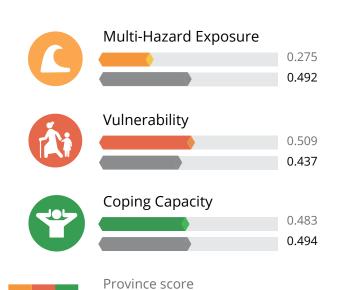


MULTI-HAZARD RISK

47 / 63
Rank within provinces
Score: 0.433

Thai Nguyen's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM

THANH HOA

NDPBA PROVINCE PROFILE



VIỆT NAM THANH HOA

CAPITAL: THANH HÓA

Area: 12,642 km²

Thanh Hoa province is located in the transition between the North and North Central Coast regions of Viet Nam, sharing a border with Laos to the west and a long coastline to the east. Thanh Hoa is a relatively large province with a large population. The province is known as home to three ancient Viet Kingdoms. With abundant natural resources including mineral resources, plain area for agriculture and beautiful beaches, Thanh Hoa is vulnerable to floods and has not yet reached its economic potential.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very high

Score: 0.606 • Rank: 3/63



RESILIENCE (R) - moderate

Score: 0.515 • Rank: 38/63



MULTI-HAZARD EXPOSURE - very high

Score: 0.849 • Rank: 1/63



VULNERABILITY (V) - high

Score: 0.439 • Rank: 25/63



COPING CAPACITY (CC) - low

Score: 0.469 • Rank: 39/63



Population (2017)

3,475,194



Population in Poverty

12.0%



Illiterate population

7.4%



Access to improved water

88.5%



Average life expectancy

73.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 1 / 63 PROVINCES

SCORE: 0.849



MHE 0.849

Raw MHE 0.942

Relative MHE 0.842

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

94.8%

₩

Flood

28.8% **1**000714



Wildfire

3.9%



Earthquake

23.4%

812468



Landslide

4.2%



Extreme Temperature

100.0%

3475194



Surge

0.1%

3



VULNERABILITY (V)

RANK: 25 / 63 PROVINCES

SCORE: 0.439

Vulnerability in Thanh Hoa is primarily driven by Clean Water Access Vulnerability and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 26/63

1.2%

44.94

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 25/63

73 (years)

Life Expectancy

Infant Mortality

7.1% Acute Malnutrition

(Children <5)

43.4 Tuberculosis Incidence

persons)

(per 100,000

27.37

Malaria Prevalance (per 100,000 persons)

157.1 HIV Prevalance (per 100,000 persons)

Clean Water Vulnerability

15.5

live births)

56.4%

Rate (per 1,000

Rank: 23/63

88.5%

Households Households with with Safe Water Hygienic Toilet Access

Access



Information Access Vulnerability

Rank: 25/63

7.4% Adult Illiteracy

Rate

96.2% School Attendance

Rate

91.0% Households 5.0%

Rank: 23/63

without Internet

Housholds without TV



Economic Constraints

43.8 12.0%

Economic Dependency

Ratio

Poverty

Gender Inequality

Rank: 54/63

0.06 0.25

Income

F M School Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 15/63 0.2% 5.4% 6.4%

Average Annual Population Change

Average Annual Urban Population Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 39 / 63 PROVINCES

high (good).

SCORE: 0.469

Thanh Hoa exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 27/63

6.23 4,200
Time Cost* Income per

17.52
Purchasing
Power

6.72
Business
Support
Services*

8.3

siness Entry Costs*



Governance

Rank: 43/63

Capita (in 1,000

VND)

5.74 4.57
Law and Order* Informal Charges*

mal Transparency*

6.36



Environmental Capacity

Rank: 24/63

10.4%

Protected Area



Infrastructure Capacity

Rank: 39/63



Health Care Capacity Rank: 25/63

99.1% Immunization Coverage 30.3 Healthbeds per 10,000 People 6.48
Physicians per 10,000 People

9.62 Nurses per 10,000 People 12.6
Distance to
Hospital (km)



Transportation Capacity Rank: 31/63

6,035

82.49

Road Density (km per sq. km) Distance to Airport or Seaport (km)



Communications Capacity Rank: 53/63

75.3%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 38 / 63 PROVINCES

SCORE: 0.515

Thanh Hoa's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Population Pressures



Governance



Economic Capacity

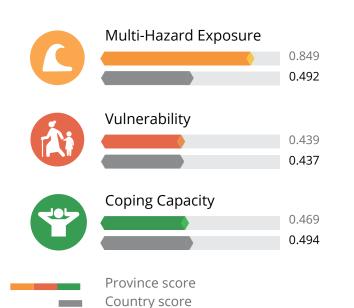


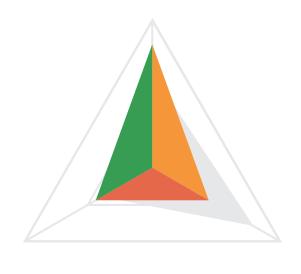
MULTI-HAZARD RISK

3 / 63
Rank within provinces
Score: 0.606

Thanh Hoa's score and ranking are due to very high Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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







VIỆT NAM THIEN HUE

NDPBA PROVINCE PROFILE



VIỆT NAM THUA THIEN HUE

CAPITAI: HUÉ

Area: 5,234 km²

Thua Thien Hue is a province in the North Central Coast region of Viet Nam, sharing a border with Laos to the west and having a 128km-long coastline. The province's capital, Hue, is well-known as the former imperial city of the Nguyen dynasty (an UNESCO world heritage site). The province is rich in both historical cultures, beautiful natural landscapes and biodiversity. Thua Thien Hue's economic activities include forestry, agriculture, fishery, mining, tourism, hydropower, and industrial manufacturing in 11 industrial and economic zones.





MULTI-HAZARD RISK - high Score: 0.503 • Rank: 24/63



RESILIENCE (R) - high Score: 0.567 • Rank: 19/63



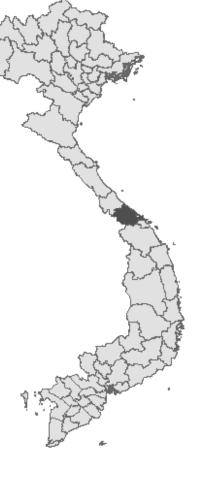
MULTI-HAZARD EXPOSURE - very high Score: 0.643 • Rank: 11/63



VULNERABILITY (V) - very low Score: 0.363 • Rank: 52/63



COPING CAPACITY (CC) - high Score: 0.497 • Rank: 24/63





Population (2017) 1,159,319



Population in Poverty 4.7%



Illiterate population 5.1%



Access to improved water 97.3%



Average life expectancy 71.30 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 11 / 63 PROVINCES

SCORE: 0.643



MHE 0.643 Raw MHE

Relative MHE

ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



Flood 42.9%



Wildfire

0.6%



Earthquake 0.0%



Landslide 0.0%



Extreme Temperature

100.0% **1**159319





VULNERABILITY (V)

RANK: 52 / 63 PROVINCES

SCORE: 0.363

Vulnerability in Thua Thien Hue is primarily driven by Gender Inequality and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 60/63

3.6%

16.18

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 21/63

71.3 (years)

Life Expectancy

5.8%

56.1

9.1

64.2

Infant Mortality Rate (per 1,000 live births)

Acute Malnutrition (Children <5)

Tuberculosis Incidence (per 100,000 persons)

Malaria Prevalance (per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

20

Rank: 49/63

Access

97.3% Households with Safe Water 88.2% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 43/63

5.1% Adult Illiteracy

Rate

93.4% School Attendance

75.0% Households without Internet

8.0% Housholds without TV



Economic Constraints

Rate

Rank: 30/63

48.8

4.7%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 28/63

0.11

0.34

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 28/63 5.6%

0.6% Average Annual Population Change

Average Annual Urban Population Change

1.0% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 24 / 63 PROVINCES

high (good).

SCORE: 0.497

Thua Thien Hue exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 48/63

6.41 4,233 Time Cost*

5.69

7.93

Income per Capita (in 1,000 Purchasing Business Power Support Services* Entry Costs*



Governance

Rank: 22/63

6 5.68 Law and Order* Informal 6.53

25.32

Charges*

Transparency*



Environmental Capacity

Rank: 10/63

23.8%

Protected Area



Infrastructure Capacity

Rank: 44/63



Health Care Capacity Rank: 52/63

98.6% Immunization Coverage

20.02 Healthbeds per

10,000 People

5.55 Physicians per 10,000 People

Nurses per

9.93

10,000 People

19.19 Distance to Hospital (km)



Transportation Capacity Rank: 35/63

3,752

62.33

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 27/63

85.8%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 19 / 63 PROVINCES

SCORE: 0.567

Thua Thien Hue's score and ranking are due to very low Vulnerability combined with high Coping Capacity scores.

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











Health Care Capacity

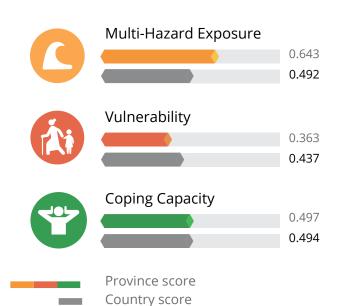


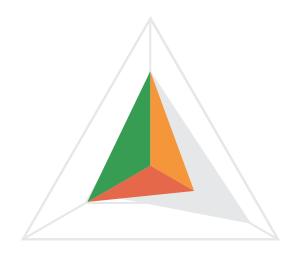
MULTI-HAZARD RISK

24 / 63 Rank within provinces Score: 0.503

Thua Thien Hue's score and ranking are due to very high Multi-hazard exposure combined with very low Vulnerability and high Coping Capacity scores.

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







VIỆT NAM

TIEN GIANG

NDPBA PROVINCE PROFILE



VIỆT NAM TIEN GIANG

CAPITAL: Mỹ THO

Area: 2,488 km²

Tien Giang is a coastal province in the Mekong Delta region along the lower part of the Tien river. The province is considered a granary with the largest fruit producing area in the country. Tien Giang also has rich aquatic supply including freshwater fish, brackish fish, and saltwater fish. The service and industrial sector (in five large industrial parks) is growing in proportion in the province's economy.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.473 • Rank: 33/63



RESILIENCE (R) - moderate Score: 0.516 • Rank: 36/63



MULTI-HAZARD EXPOSURE - low Score: 0.453 • Rank: 40/63



VULNERABILITY (V) - low Score: 0.402 • Rank: 42/63



COPING CAPACITY (CC) - low Score: 0.434 • Rank: 49/63



Population (2017) 1,766,357



Population in Poverty 6.3%



Illiterate population 1.7%



Access to improved water 97.5%



Average life expectancy 75.60 years

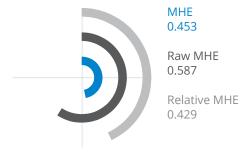
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 40 / 63 PROVINCES

SCORE: 0.453



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1766330



Flood 55.3% ♣ 976018



Wildfire

1.6% **2**8118



Earthquake 0.0%

MÈ

Landslide 0.0%



Extreme Temperature

0.0%



Surge

0.0%

134



VULNERABILITY (V)

RANK: 42 / 63 PROVINCES

SCORE: 0.402

Vulnerability in Tien Giang is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 17/63

0.5%

80.78

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 60/63

75.6

Life Expectancy (years)

9.1 Infant Mortality Rate (per 1,000 live births) 6.6% Acute Malnutrition (Children <5) 62.3
Tuberculosis
Incidence
(per 100,000

persons)

0.58 Malaria

Malaria Prevalance (per 100,000 persons) 83.3 HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 44/63

97.5%

71.0%

Households with With Safe Water Access Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 42/63

1.7% Adult Illiteracy

Rate

91.0% School Attendance

Rate

89.0% Households

without Internet

5.0% Housholds without TV



Economic Constraints

Rank: 43/63

42.6

6.3%

Economic Dependency Ratio Poverty



Gender Inequality

Rank: 6/63

0.13

0.52

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.

.....

Population Pressures

Rank: 43/63 0.5% 2.0% 4.6%

Average Annual Population Change

Average Annual Urban Population Change Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 49 / 63 PROVINCES

high (good).

SCORE: 0.434

Tien Giang exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 44/63

7.15 4,002 Time Cost* Income per 26.56 6.57
Purchasing Business

7.48

Capita (in 1,000 Power VND)

Support Services* Entry Costs*



Governance

Rank: 41/63

4.84 5.28 Law and Order* Informa

Informal Charges* 6.14 Transparency*



Environmental Capacity

Rank: 55/63

0.0%

Protected Area



Infrastructure Capacity



Rank: 23/63



Health Care Capacity Rank: 43/63

98.3% Immunization Coverage 21.06 Healthbeds per 10,000 People 4.99
Physicians per 10,000 People

10.33 Nurses per 10,000 People 8.49
Distance to
Hospital (km)



Transportation Capacity Rank: 12/63

3,469

11.23

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 18/63

87.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 36 / 63 PROVINCES

SCORE: 0.516

Tien Giang's score and ranking are due to low Vulnerability combined with low Coping Capacity scores.

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









Gender Inequality

Environmental Stress

Governance

Economic Capacity

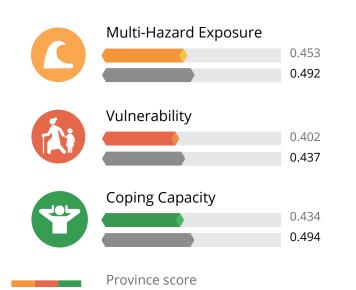


MULTI-HAZARD RISK

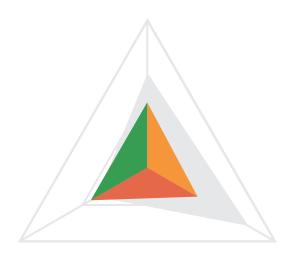
33 / 63
Rank within provinces
Score: 0.473

Tien Giang's score and ranking are due to low Multi-hazard exposure combined with low Vulnerability and low Coping Capacity scores.

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



Country score





VIỆT NAM

TRA VINH

NDPBA PROVINCE PROFILE



VIỆT NAM TRA VINH

CAPITAL: TRÀ VINH

Area: 2,287 km²

Tra Vinh is a coastal province situated in the southeastern part of the Mekong Delta at the mouth of Hau and Co Chien rivers. The province is known for being the home of Khmer culture - about 29% of total population is Khmer Krom people. Moderate climate and fertile soil make Tra Vinh favorable for agriculture, aquaculture, fish and shrimp breeding.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate Score: 0.466 • Rank: 36/63



RESILIENCE (R) - very low Score: 0.457 • Rank: 55/63



MULTI-HAZARD EXPOSURE - very low Score: 0.31 • Rank: 51/63



VULNERABILITY (V) - very high Score: 0.561 • Rank: 7/63



COPING CAPACITY (CC) - moderate Score: 0.474 • Rank: 36/63



Population (2017) 1,033,840



Population in Poverty 12.0%



Illiterate population 11.7%



Access to improved water 97.3%



Average life expectancy 74.20 years

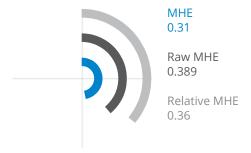
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 51 / 63 PROVINCES

SCORE: 0.31



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%

1033550



Flood

38.6% ▲ 399400



Wildfire

0.0%

≗ 0



Earthquake 0.0%

.



Landslide 0.0%

0.0



Extreme Temperature

0.7%

4 6780



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 7 / 63 PROVINCES

SCORE: 0.561

Vulnerability in Tra Vinh is primarily driven by Gender Inequality and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 3/63

-14.7%

75.12

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 19/63

74.2 (years)

Life Expectancy

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

11.2% Acute Malnutrition

(Children <5)

68.6 Tuberculosis

Incidence

persons)

(per 100,000

0.78 Malaria Prevalance 94.7

(per 100,000 persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 29/63

97.3%

Households with Safe Water

Access

43.8% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 9/63

11.7% Adult Illiteracy

Rate

86.1% 91.0% School Households Attendance

10.0%

Rank: 27/63

Housholds without TV without Internet



Economic Constraints

Rate

42.2

12.0%

Economic Dependency Ratio

Poverty



Gender Inequality

Rank: 4/63

0.18

0.54

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 39/63 0.5% 3.0%

Average Annual Population Change

Average Annual Urban Population

Change

2.7% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 36 / 63 PROVINCES

high (good).

SCORE: 0.474

Tra Vinh exhibits weaker Coping Capacity in the areas of Economic Capacity and Health Care Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.

4.77



Economic Capacity

Rank: 63/63

7.91 3,320 17.86 Time Cost* Income per

Purchasing Business Capita (in 1,000 Power Support Services*

8.09

Entry Costs*



Governance

Rank: 2/63 6.33 6.72 7.82 Law and Order* Informal Transparency* Charges*



Environmental Capacity

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 38/63



Health Care Capacity Rank: 38/63

6.59 98.1% 23.47 5.15 9.71 Immunization Healthbeds per Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 21/63

2,799 12.85 Road Density Distance to Airport (km per sq. km) or Seaport (km)

Communications Capacity Rank: 50/63

77.9% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 55 / 63 PROVINCES

SCORE: 0.457

Tra Vinh's score and ranking are due to very high Vulnerability combined with moderate Coping Capacity scores.

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







Environmental Stress



Economic Capacity



Health Care Capacity

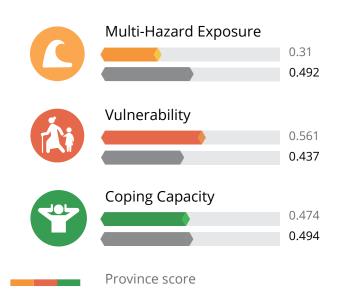


MULTI-HAZARD RISK

36 / 63
Rank within provinces
Score: 0.466

Tra Vinh's score and ranking are due to very low Multi-hazard exposure combined with very high Vulnerability and moderate Coping Capacity scores.

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



Country score





VIỆT NAM
TUYEN QUANG

NDPBA PROVINCE PROFILE



VIỆT NAM TUYEN QUANG

CAPITAL: TUYÊN QUANG

Area: 6,866 km²

Tuyen Quang province is located in the Northeastern region of Viet Nam at the center of the Lo River valley. The province has widely varying topography covering high mountains, deep valleys, and an abundance of rivers, lakes and ponds. Tuyen Quang's economy is based on forestry, agriculture, fishery, mining, and primary industries. The province experiences cold winter with occasional mist, hoarfrost and is prone to cyclones and floods resulting from frequent intense rainstorms.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.425 • Rank: 48/63



RESILIENCE (R) - low Score: 0.488 • Rank: 47/63



MULTI-HAZARD EXPOSURE - very low Score: 0.252 • Rank: 57/63



VULNERABILITY (V) - high Score: 0.457 • Rank: 18/63



COPING CAPACITY (CC) - low Score: 0.433 • Rank: 50/63



Population (2017) **794,208**



Population in Poverty 14.7%



Illiterate population 5.5%



Access to improved water 74.7%



Average life expectancy 72.00 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 57 / 63 PROVINCES

SCORE: 0.252



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 0.0%

2 0



Flood

24.0% 190296



Wildfire

8.8% ♣ 70175



Earthquake

0.0%

2 0



Landslide

1.6%

13103



Extreme Temperature

100.0%

2 794208



Surge

0.0%

2 0



VULNERABILITY (V)

RANK: 18 / 63 PROVINCES

SCORE: 0.457

Vulnerability in Tuyen Quang is primarily driven by Clean Water Access Vulnerability and Economic Constraints. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 37/63

2.1%

35.66

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 16/63

72 (years)

18.6 Life Expectancy

Infant Mortality Rate (per 1,000 8.6% 18.7 Acute

Malnutrition

(Children <5)

Tuberculosis Incidence (per 100,000

persons)

7.96 Malaria

persons)

Prevalance (per 100,000 persons)

115.5 HIV Prevalance (per 100,000



Clean Water Vulnerability

live births)

Rank: 9/63

74.7%

Households with Safe Water Access

38.9% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 32/63

Rank: 14/63

5.5%

Rate

Adult Illiteracy

96.1% School Attendance

90.0% Households without Internet

6.0% Housholds without TV



Economic Constraints

Rate

14.7%

46.2 Economic Dependency

Poverty



Gender Inequality

Rank: 59/63

0.06 0.17

F M School Income Enrollment Rate* Inequality*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 35/63

0.7% Average Annual Population Change

Average Annual Urban Population Change

2.9%

2.4% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 50 / 63 PROVINCES

high (good).

SCORE: 0.433

Tuyen Quang exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 41/63

5.79 4,249
Time Cost* Income per

4,249 15.17
Income per Capita (in 1,000 Power

6.13
Business
Support
Services*

8.29

Business Entry Costs*
Support



Governance

Rank: 37/63

5.95 4.58 6.59
Law and Order* Informal Charges* Transparency*



Environmental Capacity

Rank: 27/63

9.2%

Protected Area



Infrastructure Capacity

Rank: 52/63



Health Care Capacity Rank: 51/63

 97.3%
 29.25
 5.86
 7.18
 14.33

 Immunization Coverage
 Healthbeds per 10,000 People 10,



Transportation Capacity Rank: 49/63

1,484 55.82

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 35/63

83.7% Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 47 / 63 PROVINCES

SCORE: 0.488

Tuyen Quang's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Economic Constraints



Governance



Economic Capacity



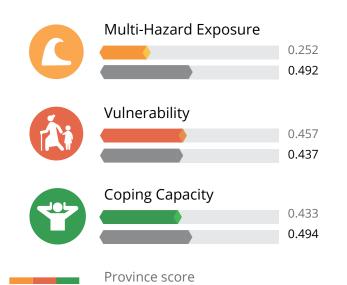
MULTI-HAZARD RISK

48 Rank

48 / 63
Rank within provinces
Score: 0.425

Tuyen Quang's score and ranking are due to very low Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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



Country score





VIỆT NAM

VINH LONG

NDPBA PROVINCE PROFILE



VIỆT NAM VINH LONG

CAPITAL: VĨNH LONG

Area: 1,584 km²

Vinh Long province is located between the Hau and Tien rivers in center of the Mekong Delta. Vinh Long is home to about 20 ethnic groups, including Kinh, Khmer, Hoa, and Cham people. Flat terrain with rich alluvial soil and a complicated network of rivers and canals makes the province favorable for rice and fruits cultivation. Vinh Long is also well-known for fishing.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - moderate

Score: 0.464 • Rank: 37/63



RESILIENCE (R) - high

Score: 0.556 • Rank: 20/63



MULTI-HAZARD EXPOSURE - moderate

Score: 0.503 • Rank: 30/63



VULNERABILITY (V) - moderate

Score: 0.43 • Rank: 30/63



COPING CAPACITY (CC) - high

Score: 0.541 • Rank: 17/63



Population (2017)

1,079,952



Population in Poverty

5.4%



Illiterate population

6.3%



Access to improved water

70.0%



Average life expectancy

75.10 years

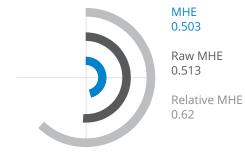
*For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 30 / 63 PROVINCES

SCORE: 0.503



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind 100.0%



99.7% **1**076429

Flood



Wildfire 0.0%



0.0%



Landslide 0.0%



Extreme Temperature

0.0%





VULNERABILITY (V)

RANK: 30 / 63 PROVINCES

SCORE: 0.43

Vulnerability in Vinh Long is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 19/63

1.5%

81.09

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 57/63

75.1

(years)

Life Expectancy

Infant Mortality Rate (per 1,000 4.8% Acute Malnutrition (Children <5) 80.9 Tuberculosis Incidence

(per 100,000

persons)

0.48 Malaria Prevalance (per 100,000 persons)

216.5 HIV Prevalance (per 100,000

persons)

Clean Water Vulnerability

10.1

live births)

Rank: 15/63

70.0% Households

57.3% Households with Hygienic Toilet Access

with Safe Water Access

Information Access Vulnerability



Rank: 27/63

6.3% Adult Illiteracy

Rate

92.3% School Attendance

Rate

84.0% Households without Internet

7.0% Housholds without TV



Economic Constraints



Rank: 53/63

Rank: 20/63

41.4

5.4%

Economic Dependency Ratio

Poverty



Gender Inequality

0.18

0.27

Income Inequality* F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 54/63 5.2% 1.6%

0.2% Average Annual Population Change

Average Annual Urban Population

Change

Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 17 / 63 PROVINCES

high (good).

SCORE: 0.541

Vinh Long exhibits weaker Coping Capacity in the areas of Environmental Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 22/63

7.4 3,441 Time Cost* Income per

32.83
Purchasing
Power

6.73 8

Support Services* 8.47 Entry Costs*



Governance

7.08 6.64 6.06

Law and Order* Informal Transparency*

Capita (in 1,000



Environmental Capacity

Charges*

Rank: 57/63

0.0%

Protected Area



Infrastructure Capacity

Rank: 21/63



Health Care Capacity Rank: 33/63

 98.3%
 21.99
 5.72
 10.28
 6.72

 Immunization Coverage
 Healthbeds per 10,000 People
 Physicians per 10,000 People
 Nurses per 10,000 People
 Distance to Hospital (km)



Transportation Capacity Rank: 25/63

2,311 9.85

Road Density Distance to Airport (km per sq. km) or Seaport (km)



Communications Capacity Rank: 14/63

88.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 20 / 63 PROVINCES

SCORE: 0.556

Vinh Long's score and ranking are due to moderate Vulnerability combined with high Coping Capacity scores.

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







Gender Inequality



Environmental Capacity



Economic Capacity

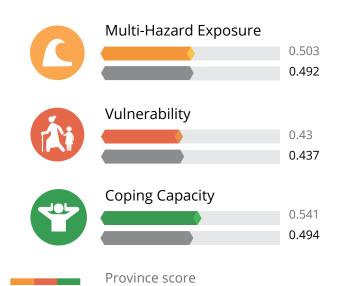


MULTI-HAZARD RISK

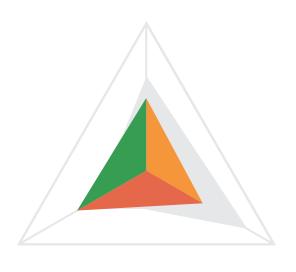
37 / 63
Rank within provinces
Score: 0.464

Vinh Long's score and ranking are due to moderate Multi-hazard exposure combined with moderate Vulnerability and high Coping Capacity scores.

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



Country score





VIỆT NAM

VINH PHUC

NDPBA PROVINCE PROFILE



VIỆT NAM VINH PHUC

CAPITAL: VĨNH YÊN

Area: 1,509 km²

Neighboring Hanoi capital to the north, Vinh Phuc province is located in the transition area between midland mound, hill area, and the Red River Delta in northern Viet Nam. There are seven ethnic groups living together in the province as Kinh, San Diu, Dao, Cao Lan, and Muong. Vinh Phuc is one of the most industrialized provinces in Viet Nam, attracting major car makers such as Honda, Toyota, Nissan, and other manufacturing investors in 20 industrial parks.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - very low Score: 0.398 • Rank: 54/63



RESILIENCE (R) - high Score: 0.577 • Rank: 16/63



MULTI-HAZARD EXPOSURE - low Score: 0.349 • Rank: 47/63



VULNERABILITY (V) - moderate Score: 0.421 • Rank: 34/63



COPING CAPACITY (CC) - very high Score: 0.576 • Rank: 10/63



Population (2017) 1,099,692



Population in Poverty 3.7%



Illiterate population 2.2%



Access to improved water 94.9%



Average life expectancy 73.90 years

^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 47 / 63 PROVINCES

SCORE: 0.349



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

2 0

₩

Flood 48.3%

W

Wildfire 0.0%

-//

Earthquake 0.0%

MÈ

Landslide 0.0%

Extreme Temperature 100.0% **2** 1099692



O.0%
0



VULNERABILITY (V)

RANK: 34 / 63 PROVINCES

SCORE: 0.421

Vulnerability in Vinh Phuc is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 8/63

4.1%

173.53

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 47/63

73.9

(years)

Life Expectancy

12.9 Infant Mortality Rate (per 1,000 5.2% Acute Malnutrition

(Children <5)

5.9
Tuberculosis Incidence

(per 100,000

persons)

76.59 Malaria

Malaria Prevalance (per 100,000 persons) 115.9

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

live births)

Rank: 35/63

94.9% Households

63.6%

with Safe Water Access Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 54/63

2.2% Adult Illiteracy

Rate

98.0% School Attendance 84.0% Households without Internet 5.0% Housholds without TV

Economic Constraints

Rate



Rank: 37/63

48.5

3.7%

Economic Dependency Ratio Poverty



Gender Inequality

0.1

0.33

Income Inequality* F M School Enrollment Rate* *Values closer to 1 represent greater gender parity.

Rank: 29/63

Rank: 23/63

Population Pressures

0.9% 4.8%

1.4%

Net Migration Rate

Average Annual Population Change Average Annual Urban Population Change

PDC Global

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 10 / 63 PROVINCES

high (good).

SCORE: 0.576

Vinh Phuc exhibits weaker Coping Capacity in the areas of Economic Capacity and Transportation Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 34/63

7.27 4,332 Time Cost*

30.45 Purchasing 6.81 Business 7.1

Income per Capita (in 1,000 VND)

Power

Support Services* Entry Costs*



Governance

Rank: 9/63 6.59 6.28 6.05 Law and Order* Informal Transparency*



Environmental Capacity

Charges*

Rank: 22/63

12.0%

Protected Area



Infrastructure Capacity

Rank: 5/63



Health Care Capacity Rank: 3/63

7.88

98.5% Immunization 39.35 Healthbeds per 14.96

5.79

Physicians per Nurses per Distance to Coverage 10,000 People 10,000 People 10,000 People Hospital (km)



Transportation Capacity Rank: 36/63

1,631

Road Density (km per sq. km)

Distance to Airport or Seaport (km)

23.56



Communications Capacity Rank: 19/63

87.4%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 16 / 63 PROVINCES

SCORE: 0.577

Vinh Phuc's score and ranking are due to moderate Vulnerability combined with very high Coping Capacity scores.

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







Population Pressures



Economic Capacity



Transportation Capacity

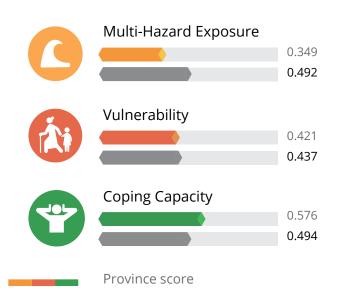


MULTI-HAZARD RISK

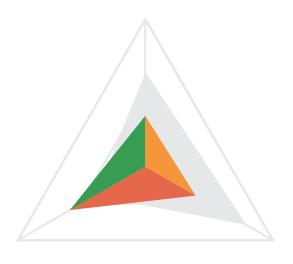
54 / 63
Rank within provinces
Score: 0.398

Vinh Phuc's score and ranking are due to low Multi-hazard exposure combined with moderate Vulnerability and very high Coping Capacity scores.

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



Country score





NDPBA PROVINCE PROFILE



VIỆT NAM YEN BAI

CAPITAL: YÊN BÁI

Area: 8,030 km²

Yen Bai is a mountainous province located in the northwestern Viet Nam, part of the Hoang Lien Son mountain range and the Red and Chay rivers systems. Forestry and farming are the main economic activities of the region. Thac Ba is a well-known artificial lake contributing to ecological tourism, water resources, and hydropower development. Yen Bai is home to about 30 ethnic groups, including Kinh, Dao, Tay, and H'Mong people. The province is vulnerable to floods and landslides caused by frequent typhoons and heavy rains.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK - low Score: 0.455 • Rank: 41/63



RESILIENCE (R) - low Score: 0.487 • Rank: 49/63



MULTI-HAZARD EXPOSURE - low Score: 0.338 • Rank: 49/63



VULNERABILITY (V) - high Score: 0.474 • Rank: 14/63



COPING CAPACITY (CC) - low Score: 0.449 • Rank: 43/63



Population (2017) 817,558



Population in Poverty 19.7%



Illiterate population 11.0%



Access to improved water 59.6%



Average life expectancy 68.80 years

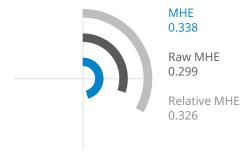
^{*}For more information on data and components please visit: https://bit.ly/2LqVoUO



MULTI-HAZARD EXPOSURE

RANK: 49 / 63 PROVINCES

SCORE: 0.338



ESTIMATED POPULATION EXPOSED TO EACH HAZARD:



Typhoon Wind

2 0



16.1%

131250



Wildfire

28.5%



Earthquake 1.7%

13993



Landslide

154226



Extreme Temperature

94.7% 774412



Surge

0.0%

Q 0



VULNERABILITY (V)

RANK: 14 / 63 PROVINCES

SCORE: 0.474

Vulnerability in Yen Bai is primarily driven by Clean Water Access Vulnerability and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

Rank: 41/63

2.3%

29.17

Forest Change

Livestock Density (per sq km)



Vulnerable Health Status

Rank: 5/63

68.8

Life Expectancy (years)

26.9 Infant Mortality 9.8% Acute

19.6 Tuberculosis

18.82 Malaria

Prevalance

486.5

Rate (per 1,000 live births)

Malnutrition (Children <5) Incidence (per 100,000 (per 100,000 persons) persons)

HIV Prevalance (per 100,000 persons)



Clean Water Vulnerability

Rank: 11/63

59.6% Households with Safe Water

Access

53.6% Households with Hygienic Toilet Access



Information Access Vulnerability

Rank: 19/63

Rank: 9/63

11.0% Adult Illiteracy

Rate

92.5% School

Rate

86.0% Households Attendance without Internet

7.0% Housholds without TV



Economic Constraints

50.1 19.7%

Economic Dependency

Poverty

Gender Inequality

Rank: 62/63

0 Income 0.11

Inequality*

F M School Enrollment Rate*

*Values closer to 1 represent greater gender parity.



Population Pressures

Rank: 53/63

1.0% Average Annual Population Change

Average Annual Urban Population

1.4%

Change

1.1% Net Migration Rate

*Values represent a sub-index score where 1 is considered low (poor) and 10 is considered



COPING CAPACITY (CC)

RANK: 43 / 63 PROVINCES

high (good).

SCORE: 0.449

Yen Bai exhibits weaker Coping Capacity in the areas of Transportation Capacity and Governance. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

Rank: 33/63

5.89 4,527
Time Cost* Income per

14.33 Purchasing

Power

6.94
Business
Support
Services*

7.65

Business Entry Costs*
Support



Governance

Rank: 49/63

6.17 4.31 Law and Order* Information

Informal Charges*

Capita (in 1,000

6.16 Transparency*



Environmental Capacity

Rank: 30/63

7.7%

Protected Area



Infrastructure Capacity

Rank: 36/63



Health Care Capacity Rank: 10/63

98.8% Immunization Coverage 37.36 Healthbeds per 10,000 People 7.43
Physicians per 10,000 People

15.8 Nurses per 10,000 People 17.16
Distance to Hospital (km)

Transportation Capacity Rank: 57/63

1,554

87.06

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity Rank: 42/63

81.6%

Households with Phone Access (Landline/Mobile)



RESILIENCE (R)

RANK: 49 / 63 PROVINCES

SCORE: 0.487

Yen Bai's score and ranking are due to high Vulnerability combined with low Coping Capacity scores.

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







Vulnerable Health Status



Transportation Capacity



Governance

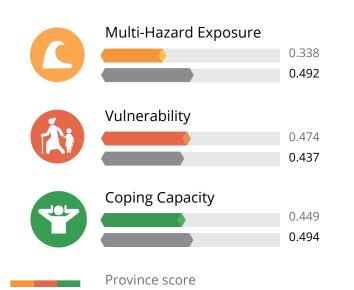


MULTI-HAZARD RISK

41 / 63
Rank within provinces
Score: 0.455

Yen Bai's score and ranking are due to low Multi-hazard exposure combined with high Vulnerability and low Coping Capacity scores.

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



Country score

