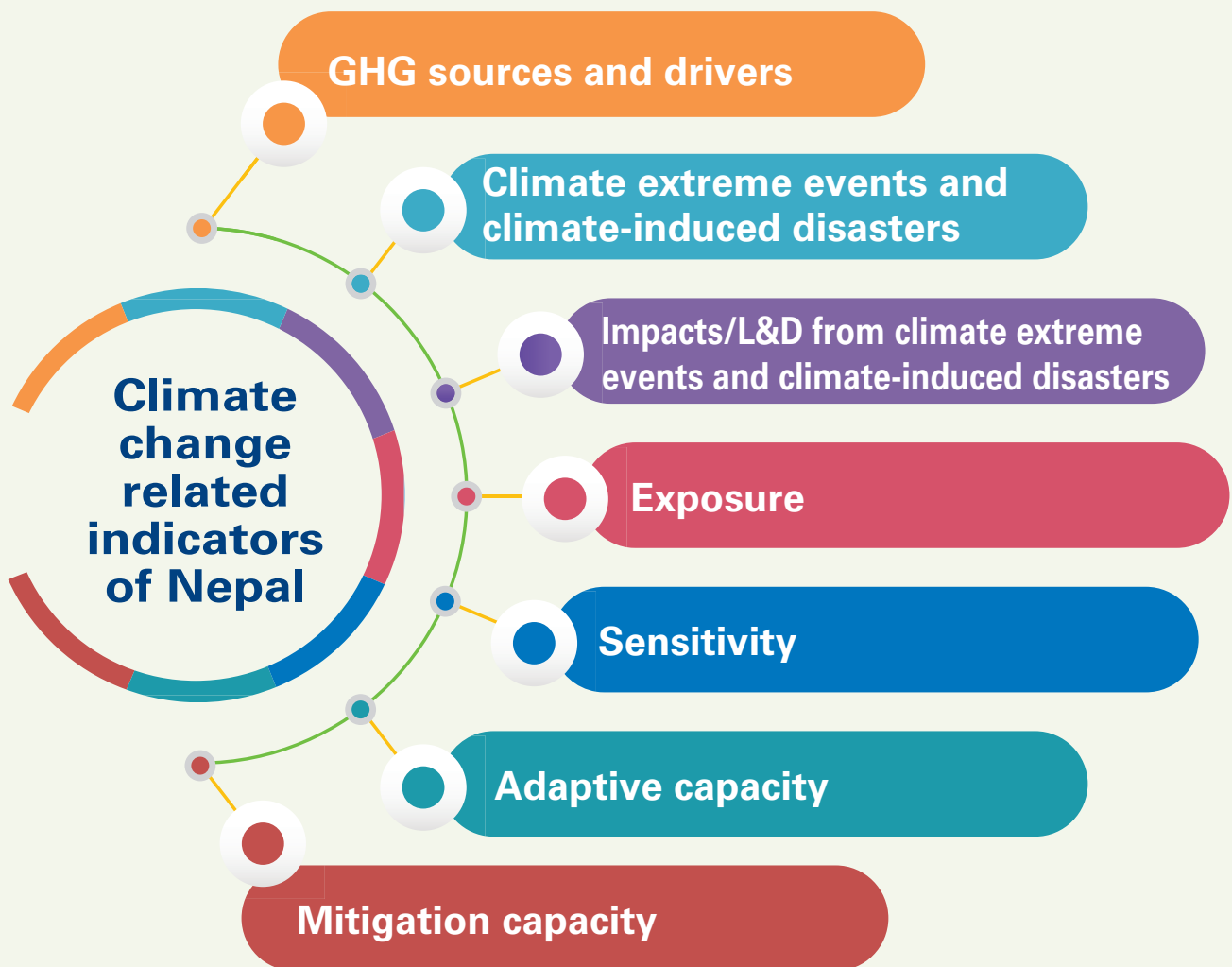




Government of Nepal  
National Planning Commission  
Central Bureau of Statistics  
Thapathali, Kathmandu

# CLIMATE CHANGE RELATED INDICATORS OF NEPAL



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Phone: 4245946, 4245947, 4245948  
Fax: 977-1-4227720  
E-mail: [environment@cbs.gov.np](mailto:environment@cbs.gov.np)  
Website: [www.cbs.gov.np](http://www.cbs.gov.np)

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Secretary

## Government of Nepal National Planning Commission



## Preface

Nepal is experiencing the impact of climate change, which is already causing serious threats to growth and development with its direct and indirect impact on the environment, as well as on the economy, society, and culture. The Government of Nepal (GoN) is committed to responding to the climate change risks and impacts through various national policies and actions as well as international climate commitments as per the Paris Agreement (2015).

Under the Paris Agreement, countries are required to report transparently on actions taken and progress in climate change adaptation and mitigation. In this regard, the United Nations Statistics Division (UNSD) has taken a global initiative to develop climate change statistics and indicators applicable to the countries. This aim was to link statistics and policy by encouraging national statistics offices to be more involved in the preparation of data related to climate change. The Central Bureau of Statistics (CBS) of the Government of Nepal has led the process of development of the national framework on climate change statistics and indicators for Nepal.

I am pleased to note, out of the framework developed CBS has completed the first-ever national-level climate change statistics and indicators report for Nepal based on the UNSD's global set of climate change indicators with currently available data. The national indicators have been customized based on the national context in seven themes i.e. emission, climate-induced disasters, impact, exposure, sensitivity, adaptive capacity, and mitigation capacity. I believe this is an important milestone initiative for decision-making by relevant national stakeholders and which will support the reporting requirements under the Environment Protection Act (2019) and United Nations Framework Convention on Climate Change (UNFCCC) Secretariat. This will also be equally useful to other concerned line ministries, academia, relevant authorities, and users of statistics. I understand that further work is required in the future to fill the critical data gaps that currently exist with collaboration, partnership, and capacity building with relevant national stakeholders.

On behalf of the National Planning Commission, I sincerely congratulate Mr. Nebin Lal Shrestha, Director-General of CBS, and the entire team who have contributed to this process to successfully establish climate change baseline statistics and indicators for Nepal. Furthermore, I would like to thank all the team members involved, including the technical committee, line ministries, Policy and Institutions Facility – Oxford Policy Management and the experts team including the UNSD team who have provided support and input to the process.

Kewal Prasad Bhandari  
Secretary  
National Planning Commission

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Email: [kewalpb@npc.gov.np](mailto:kewalpb@npc.gov.np), Phone No: 01-4211132, Fax: 01-4211700, Web: [www.npc.gov.np](http://www.npc.gov.np)  
Singhadurbar, Kathmandu

# Acknowledgment

Climate change is seen as a crucial challenge to the socio-economic prosperity of Nepal. With the ongoing impact, extreme events trend, and commitment made by Nepal to achieve a low carbon climate-resilient society, it is of utmost importance to better understand all aspects through monitoring, modeling, analysis, and reporting to decide on the best course of action.

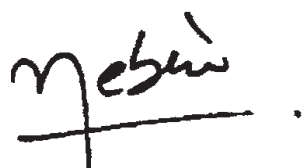
This report presents a set of climate change-related indicators and statistics for Nepal, based on the guidelines developed by the United Nations Statistics Division (UNSD). The Global set of Climate Change Statistics and Indicators provides a comprehensive statistical framework with statistics, indicators, and metadata, as well as supports the reporting requirements for countries under the Enhanced Transparency Framework, the Global Stocktake of the Paris Agreement, and climate-related SDG indicators.

I feel proud that this report is the first-ever effort to develop a national set of climate change indicators in Nepal that provide important national context on climate change relevant to addressing the current policy questions. The indicators presented in this report are customized and suited to the national needs, taking into account the broader impact, hazards, vulnerabilities, adaptation, and mitigation capacity.

I would like to thank Dr. Hem Raj Regmi, Deputy Director-General for his overall guidance in bringing out this publication. Mr. Sushil Kumar Sharma and Pramod Raj Regmi Directors, Environment Statistics Section deserve special thanks for shouldering the responsibility to accomplish the whole task of the data compilation and bringing out this publication in time. Statistics Officers Mr. Kul Prakash Neupane, Mr. Bhim Bahadur Shakha, and Statistics Assistant Ms. Kamala Nath also deserve thanks for their sincere involvement in data collection and management for this report.

Members of the Technical Committee have provided invaluable inputs in all phases of the preparation of this report. I am thankful to Mr. Raju Sapkota, under-secretary, Ministry of Forests and Environment, Dr. Ramesh Sapkota, Assistant professor at Tribhuvan University, and Dr. Bimal Raj Regmi, Regan Sapkota, Apar Paudyal, Dinesh Acharya, and Rojy Joshi from the Policy and Institutions Facility (PIF), Oxford Policy Management (OPM), who deserves our special appreciation for providing technical support for the preparation and publication of this report. I would also like to thank British Embassy in Kathmandu for providing financial support for this publication.

Finally, CBS welcomes constructive feedback from users, stakeholders, and all well-wishers to continually improve this publication in the future.



**Nebin Lal Shrestha**  
Director General  
Central Bureau of Statistics

# List of Acronyms

%	Percentage
°C	Degree Celsius
AEPC	Alternative Energy Promotion Centre
CBS	Centre Bureau of Statistics
CH <sub>4</sub>	Methane
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> eq	Carbon Dioxide equivalent
DCC	District Coordination Committee
DFRS	Department of Forest Research and Survey
DMG	Department of Mines and Geology
DNPWC	Department of National Parks and Wildlife Conservation
DoED	Department of Electricity Department
DoR	Department of Roads
DoS	Department of Survey
DoTM	Department of Transport Management
DWRI	Department of Water Resources and Irrigation
ETF	Enhanced Transparency Framework
FRTC	Forest Research and Training Centre
GHG	Greenhouse Gas
GoN	Government of Nepal
Ha	Hectare
HHs	Households
Hr	Hour
ICIMOD	The International Centre for Integrated Mountain Development

Kg	Kilogram
Km	Kilometer
kW	Kilowatt
L&D	Loss and Damage
LULC	Land Use and Land Cover
MCCCC	Ministerial Climate Change Coordination Committee
mm	Millimeter
MoALD	Ministry of Agriculture and Livestock Development
MoEWRI	Ministry of Energy, Water Resources and Irrigation
MoF	Ministry of Finance
MoFAGA	Ministry of Federal Affairs and General Administration
MoFE	Ministry of Forests and Environment
MoHA	Ministry of Home Affairs
MoHP	Ministry of Health and Population
MoICS	Ministry of Industry, Commerce, and Supplies
MoPIT	Ministry of Physical Infrastructure & Transport
MoUD	Ministry of Urban Development
MWatt	Megawatt
N <sub>2</sub> O	Nitrous Oxide
NAP	National Adaptation Plan
NDRRMA	National Disaster Risk Reduction and Management Authority
NEA	Nepal Electricity Authority
No.	Number
NPC	National Planning Commission
NPR	Nepalese Rupee
O <sub>3</sub>	Ozone
PCCCC	Provincial Climate Change Coordination Committee
PPM	Parts Per Million
RCP	Representative Concentration Pathways
TNC	Third National Communication
TU	Tribhuvan University
UNFCCC	United Nations Framework Convention on Climate Change
UNSD	United Nations Statistics Division
USD	United States Dollar
VRA	Vulnerability and Risk Assessment

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# Chapter 1

## Introduction

### 1.1 Background

Nepal has an extremely varied and complex climate, driven by uneven terrain and regional weather systems. Due to varied socio-economic, physical, geographical, and political conditions, Nepal is ranked as one of the most vulnerable countries to the impacts of climate change. In Nepal, the loss and damage resulting from climate change are unprecedented (MoPE, 2017). Impacts of climate change are observed in the form of heavy rainfall, resulting in floods, frequent and severe droughts, and heat waves. Nepal has taken bold steps in terms of the formulation of legal frameworks and policies to respond to the impact of climate change. With the adoption of the Paris Agreement in 2015, Nepal has raised its climate ambitions to implement the low carbon climate-resilient development pathways. At the event at the United Nations Framework Convention on Climate Change (UNFCCC) 26th Conference of Parties (COP 26) meeting, the Government of Nepal announced its world-leading commitment to i) remain cumulatively 'net zero carbon' from 2022-2045 and become carbon negative after that; ii) halt deforestation and increase forest cover to 45% by 2030 and iii) ensure all vulnerable people are protected from climate change by 2030.

The Paris Agreement (PA) is a legally binding international treaty on climate change. Implementation of the Paris Agreement requires economic and social transformation, based on the best available science. The Paris Agreement works on a 5-year cycle of increasingly ambitious climate action carried out by countries. With the Paris Agreement, countries established an Enhanced Transparency Framework (ETF). Under ETF, (starting in 2024) countries will report transparently on actions taken and progress in climate change mitigation, adaptation measures, and support provided or received. The Nationally Determined Contributions (NDCs) are the heart of the Paris agreement, where countries communicate actions they will take to reduce their Greenhouse Gas emissions to reach the goals of the Paris Agreement. Countries also communicate in the NDCs actions they will take to build resilience to adapt to the impacts of rising temperatures. Nepal has already set clear targets for climate action to adopt a path toward low carbon climate-resilient future as articulated in its Nationally Determined Contributions (NDCs), Long Term Low Greenhouse gas emission development strategy (LTS), and National Adaptation Plan (NAP).

In this context, the United Nations Statistics Division (UNSD) has prepared a Global Set of Climate Change Statistics and Indicators in conjunction with the UNFCCC to provide a comprehensive statistical framework with statistics, indicators, and metadata, as well as support the reporting requirements of countries under the ETF and the Global Stocktake of the Paris Agreement, as well as climate-related SDG indicators. Furthermore, the aim was to firmly link statistics and policy by encouraging national statistical offices to be more involved in the preparation of data related to climate change. All UN member states were invited to formulate climate change indicators of their own. The Central Bureau of Statistics (CBS) of the Government of Nepal has led the process of development of the national framework on climate change statistics and indicators for Nepal.

The Global Set is expected to provide a statistical framework with appropriate indicators to serve as guidance for countries to construct their own sets of indicators, given the need of the country's context and reporting requirements. The global set of climate change indicators is based on the five areas outlined by the Intergovernmental Panel on Climate Change (drivers, impacts, vulnerability, mitigation, and adaptation) where Nepal took its leadership to adopt and customize based on the national requirements thorough national level consultative process. The set of climate change indicators is classified in the seven areas as below:

- GHG sources and drivers
- Climate extreme events and climate-induced disasters
- Impacts/L&D from climate extreme events and climate-induced disasters
- Exposure
- Sensitivity
- Adaptive capacity
- Mitigation capacity

The areas were customized into the country's context as guided by the national strategic policy documents such as the National Climate change Policy, Vulnerability and Risk Assessment (VRA), Nationally Determined Contribution, and National Adaptation Plan (NAP). Moreover, the indicators presented in this report are customized and suited to the country's needs and context, taking into account the broader issues of climate change drivers, climate extreme events and disasters, impacts, climate change exposure, sensitivity, adaptation, and mitigation capacity.

The indicators of the GHG sources and drivers will provide information on the causative elements of climate change while the climate extremes, disasters, and impacts will inform about the change in the Impacts/L&D from climate extreme events and climate-induced disasters and impacts the country has been facing. Similarly, the exposure will inform about the system or unit that is likely to be impacted by climate change, and lastly, the indicators of sensitivity, adaptive capacity, and mitigation capacity provide scientific information on the sensitivity of the country and its capacity for adaptation and mitigation to reduce the impacts of climate change and opportunity to adopt low carbon and climate resilient development pathways. The overall report is expected to act as a knowledge product that enhances our understanding of climate change, its drivers, impacts, vulnerabilities, and risk as well as the mitigation potential of the country. They are designed so that the public, scientists, analysts, decision-makers, educators, and others can use climate change indicators information as a basis for:

- Effectively communicating relevant climate science information in a feasible, transparent, and handy way;
- Assessing change in climate-related information;
- Assisting science-based decision-making;

- Assisting various reporting and facilitation of the processes like UNFCCC mandated Biennial Update Report, Vulnerability and Risk Assessment, National Adaptation Plan;
- Use as a basis to continually improve and generate data based on the indicators in coordination with relevant national stakeholders

## 1.2 Terminologies

The common terminologies related to climate change used in this report are briefly described below.

**Adaptive Capacity:** The ability of systems, institutions, humans, and other organisms to adjust to potential damage, take advantage of opportunities, or respond to the consequences of climate change.

**Climate Change:** A change in the state of the climate that can be identified (e.g., by using statistical tests) by changes in the mean and/or the variability of its properties that persist for an extended period, typically decades or longer. Climate change may be due to natural internal processes or external forcings, or to persistent anthropogenic changes in the composition of the atmosphere or land use.

**Climate extreme events:** The occurrence of a value of a weather or climate variable above (or below) a threshold value near the upper (or lower) end of the observed values of the variable such as high temperatures (e.g., heatwave), or extremely heavy rainfall. In this report, very wet days, extreme wet days, consecutive wet days, number of rainy days, consecutive dry days, warm days, warm nights, warm spell duration, cold days, cool nights, cold spell duration, etc. are taken as climate extreme events.

**Climate projection:** A projection of response of the climate system to emissions or concentration scenarios of greenhouse gases and aerosols, or radiative forcing scenarios, often based upon simulations by climate models. Projections are distinguished from climate predictions. Projections are subject to substantial uncertainty as they are based on assumptions concerning future socio-economic and technological developments that may or may not be realized.

**Climate trends:** Patterns in climate variables such as temperature and precipitation observed in historic datasets.

**Climate-induced disasters:** The disasters that are induced, triggered, or exacerbated due to climate change is regarded as climate-induced disasters. In this report, flood, landslide, GLOF, drought, forest fire, fire, avalanche, cold waves, heat waves, heavy rainfall, snowstorms, thunderbolts, windstorms, hailstorms, and epidemics are taken as climate-induced disasters.

**Disaster:** Severe alterations in the normal functioning of a community or a society due to hazardous physical events interacting with vulnerable social conditions, leading to widespread adverse human, material, economic, or environmental effects that require an immediate emergency response to satisfy critical human needs and that may require external support for recovery.

**Exposure:** The presence of people, livelihoods, species or ecosystems, environmental functions, services, resources, infrastructure, or economic, social, or cultural assets in places and settings that could be adversely affected.

**Greenhouse gas:** Greenhouse Gas (GHG) is a gas that absorbs and emits radiant energy within the thermal infrared range, causing the greenhouse effect. The greenhouse effect plays a huge role to maintain the average temperature of Earth's surface. The primary greenhouse gases in Earth's atmosphere are water vapor (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and ozone (O<sub>3</sub>). The vast majority of anthropogenic carbon dioxide emissions come from the combustion of fossil fuels, principally coal, petroleum (including oil), and natural gas, with additional contributions from deforestation and other changes in land use which are called sources or the drivers of GHG.

**Hazard:** The potential occurrence of a natural or human-induced physical event or trend or physical impact that may cause loss of life, injury, or other health impacts, as well as damage and loss of property, infrastructure, livelihoods, service provision, ecosystems, and environmental resources. In this report, the term hazard usually refers to climate-related physical events or trends.

**Impacts:** The term impact is used primarily to refer to the effects on natural and human systems of extreme weather and climate events and climate change. Impacts generally refer to effects on lives, livelihoods, health, ecosystems, economies, societies, cultures, services, and infrastructure due to the interaction between climate changes or hazardous climatic events occurring within a specific period, and the vulnerability of an exposed society or system. Impacts are also referred to as consequences and outcomes. The impacts of climate change on geophysical systems, including floods, droughts, and sea-level rise, are a subset of impacts called physical impacts.

**Loss and Damage (L&D):** Represents the actual and/or potential negative manifestations of climate change on sudden-onset extreme events, such as heatwave and extreme rainfall, and slow-onset events such as snow loss, droughts, glacial retreat to which people in Nepal's mountains, hills, and Tarai are not able to cope with or adapt to as the country's natural ecosystem, infrastructure and institutions are overwhelmed leading to the losses of life, livelihoods, and cultural heritage."

**Mitigation Capacity:** A human intervention to reduce the sources or enhance the sinks of greenhouse gases is mitigation.

**Resilience:** The capacity of social, economic, and environmental systems to cope with a hazardous event or trend or disturbance, responding or reorganizing in ways that maintain their essential function, identity, and structure, while also maintaining the capacity for adaptation, learning, and transformation.

**Risk:** The potential for consequences where something of value is at stake and where the outcome is uncertain, recognizing the diversity of values. Risk is often represented as the probability of occurrence of hazardous events or trends multiplied by the impacts of these events or trends were to occur. Risk results from the interaction of vulnerability, exposure, and hazard. In this report, the term risk is used primarily to refer to the risk of climate change impacts.

**Sensitivity:** Predisposition of society and ecosystems to suffer harm as a consequence of intrinsic and context conditions making it plausible that such systems once impacted will collapse or experience major harm and damage due to the influence of a hazard event.

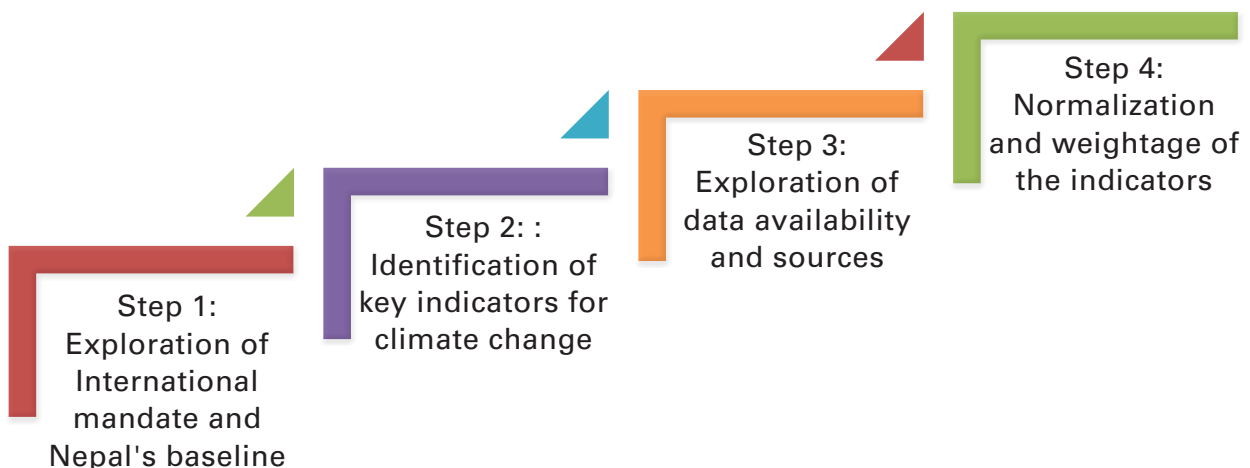
**Vulnerability:** The propensity or predisposition to be adversely affected. Vulnerability encompasses a variety of concepts including sensitivity or susceptibility to harm and lack of

# Chapter 2

## Framework for Identification of Climate Change Indicators

capacity to cope and adapt.

The approach for developing climate change indicators has been categorized into four steps: (i) Exploration of International mandate and Nepal's baseline, (ii) Identification of key indicators for climate change, and (iii) Exploration of data availability and sources, (iv) Normalization and



weightage of the indicators, as shown in Figure 1. The following is a description of each step:

**Figure 1: Climate change indicators identification framework**

### Step 1: Exploration of International mandate and Nepal's baseline

United Nations statistical division has prepared a global set of climate change indicators. Each country was asked to prepare its indicators based on the country's context and requirements. In this regard, a detailed examination and assessment of the UNSD's mandate for indicator selection have been carried out as the first stage in selecting climate change indicators. Moreover, to tailor the indicators to the Nepalese context, the country's

background and baseline setting were thoroughly examined. This process also provided aid to UNSD's global collection of indicators. In this process, various indicators related to seven areas of this assessment were explored and listed based on the country's context. The basis of selection and their relevant indicators were climate change policy, the third national communication report, the framework for vulnerability and risk assessment, and the indicators from the vulnerability and risk assessment.

## Step 2: Identification of key indicators for climate change

Indicators are measurable variables that are used to signify an element or quantity that is not quantified or measurable that can be used to track status, trends, and scenarios. In this assessment process, indicators are used to reflect interrelated areas of analysis such as drivers, impacts, exposure, sensitivity, and adaptive and mitigation capacity. The indicators are based on UNSD mandate and country context to understand climate change drivers, impacts, vulnerability, and risks as well as adaptive and mitigation capability to respond to it. Sectoral indicators which can be measured either independently or in the form of the index from a group of relevant indicators (normalized and weighted) have been identified to better understand and document climate change related information. To produce Specific, Measurable, Achievable, Realistic, and Time-bound (SMART) indicators, the following process-based individual and group processes were used:

- a. Review of the UNSD's global set of indicators;
- b. Review of indicators used in the Vulnerability and Risk Assessment of Nepal (2021), National Framework on Loss and Damage (L&D), National Adaptation Plan (2021), Nationally Determined Contributions (NDCs), and Third Communication Report (2021);
- c. Listing of indicators for exposure encompassing the system of concern;
- d. Listing of indicators for climate variables, extreme events, hazards, and climate-induced disasters;
- e. Listing of indicators for adaptive capacity and sensitivity of the exposed system (or elements) taking into account physical factors (e.g., presence of infrastructure) and socioeconomic factors (e.g., age, income, gender);
- f. Compiling indicators as a 'long-list', together with units of measurement;
- g. Revisiting indicators and narrowing them down was based on the relevancy, feasibility, availability, and importance of the indicators in the national context;
- h. Sharing of indicators with technical working group members and experts, and preparation of draft shortlist of indicators;
- i. Finalizing the indicators after incorporating constructive feedback from the sectoral and sub-sectoral working groups. Further, revising the final set from suggestions received during several iterative processes of consultations with experts and concerned stakeholders. Ultimately, a set of 260 indicators have been finalized.

Both quantitative, as well as qualitative indicators, have been taken into consideration in this process. Most of the indicators listed in this report are value quantifiable, but some indicators related to impacts are not. For example, non-economic loss and damage indicators are difficult to quantify but are very important to understand the magnitude and the frequency of the impacts hence listed as qualitative indicators. The qualitative data also help to better understand and describe risk, vulnerability, and impacts.

### Step 3: Exploration of data availability and sources

After the finalization of the indicators, the availability of the data and the potential sources were determined. It is necessary to gather essential datasets from reliable sources, thus, government institutions such as the Ministry of Forests and Environment, Central Bureau of Statistics, Department of Survey, Department of Hydrology and Meteorology other relevant ministries, academia, and institutions were taken as the major institution for the data source. For example, indicators related to climate trends and scenarios were based on data from the Department of Hydrology and Meteorology and the Ministry of Forests and Environment. Similarly, CBS and relevant ministries are the primary sources of socioeconomic data. Moreover, data related to impacts, loss, and damage has been collected from the Ministry of Home Affairs's DRR portal.

Some indicators categorized and listed in the above-mentioned seven areas are relevant in the climate change context. However, data for some of them are not currently available. Realizing their importance, such indicators have been listed in the finalized set of indicators.

### Step 4: Normalization and weightage of the indicators

A variety of indicators include quantitative measures such as rainfall in millimeters (mm), temperature in degrees Celsius (°C), and area in hectares (ha), as well as categorical measures such as types of forest. Standardization is required to make them compatible when comparing their importance and assigning weights. Hence, normalization of the indicators can be performed whenever necessary using a scale of 0 to 1 by using min-max normalization method as follows:

$$Z_{i,j} = \frac{X_{i,j} - X_i^{min}}{X_i^{max} - X_i^{min}}$$

where,

$Z_{i,j}$  = normalized value of the indicator of type i of region j

$X_{i,j}$  = value of the indicator of type i of region j

$X_i^{min}$  = minimum value of the indicator of type i

$X_i^{max}$  = maximum value of the indicator of type i.

Moreover, wherever required the indicator's weightage and composite values can be given. The criteria and weighting indices were defined using the Saaty scale to make a pair-wise comparison. Each feasible pair of criteria and rate one relative to the other on a scale of "equal significance" to "very significant" using the pair-wise comparison method were performed. The numerical weights can be determined by normalizing the eigenvector associated with the maximum eigenvalue of the ratio matrix by following the AHP method.

**Table 1: Saaty scale**

Intensity of importance	Definition
1	Equal importance
2	Equal to moderate importance
3	Moderate importance
4	Moderate to strong importance
5	Strong importance
6	Strong to very strong importance
7	Very strong importance
8	Very to extremely strong importance
9	Extreme importance

This step to calculate the index value based on the group of indicators can be applied whenever required. However, this method has not been applied in this work but the user can follow the index calculation method as mentioned above.



# Chapter 3

## Climate Change Related Indicators of Nepal

In this section, the climate change related indicators relevant to Nepal are presented. The indicators, listed, were identified through literature review, consultations, and guidance provided by climate change policy, the third national communication report, the framework for vulnerability and risk assessment, and the set of sectoral indicators from Vulnerability and Risk Assessment. These indicators can be used to quantify or qualify hazards, exposure, vulnerability, and risks of Nepal across major sectors identified by the climate change policy. Moreover, climate change related information and the analysis can be drawn at the various administrative boundary including federal, province, and local governments, the ecological regions, and climatic zones.

The indicators listed here can also be used to understand the change and assess the impact and loss, and damage. It also comprises the lists of vulnerability and risk including a description of the context, root causes, trends, and potential assumptions. There is however a limitation to the extent of indicators used in this report. The final set of climate change indicators was identified based on the framework mentioned in Figure 1. Table 2 provides climate change-related indicators in seven areas.

**Table 2: Climate change-related indicators of Nepal**

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
<b>A. GHG sources and drivers</b>					
<b>Total greenhouse gas emissions</b>					
1	A.1	Total direct greenhouse gas emissions per year	C02 eq	Available	
2	A.2	Total emissions of indirect greenhouse gases	C02 eq	Available	
3	A.3	Total direct gas emissions from AFOLU	C02 eq	Available	
4	A.4	Total indirect gas emissions from AFOLU	C02 eq	Available	
5	A.5	Total direct gas emissions from energy	C02 eq	Available	
6	A.6	Total indirect gas emissions from energy	C02 eq	Not available	
7	A.7	Total direct gas emissions from industrial process and product use	C02 eq	Available	
8	A.8	Total indirect gas emissions from industrial process and product use	C02 eq	Available	
9	A.9	Total direct gas emissions from agriculture (farming, livestock)	C02 eq	Not available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
10	A.10	Total indirect gas emissions from agriculture (farming, livestock)	CO2 eq	Not available	
11	A.11	Total direct gas emissions from waste	CO2 eq	Available	
12	A.12	Total indirect gas emissions from waste	CO2 eq	Not available	
13	A.13	Greenhouse gas emissions per capita	ton/capita/yr	Available	
<b>Energy production, supply and consumption</b>					
14	A.14	Total primary energy production from fossil fuels	%	Available	
15	A.15	Percentage of households using fuelwood	%	Available	
16	A.16	Electricity consumption per capita	kilowatt/hr	Available	
<b>Fossil fuels</b>					
17	A.17	Total import of fossil fuels	Kilo liter/ Metric ton	Available	Includes diesel, LPG, petrol, kerosene, ATF, others, etc.
18	A.18	Fossil fuel dependency	%	Available	
19	A.19	Fossil-fuel subsidies (production and consumption) as a percent of GDP	%	Not available	
<b>Population growth</b>					
20	A.20	Population growth rate	%	Available	
21	A.21	Urban population	%	Available	
22	A.22	Rural population	%	Available	
23	A.23	Immigration rate	%	Available	
<b>B. Climate extreme events and climate-induced disasters</b>					
<b>Climate extreme events (Trend and scenarios)</b>					
24	B.1	Annual maximum temperature trend	°C	Available	
25	B.2	Annual minimum temperature trend	°C	Available	
26	B.3	Annual precipitation trend	%	Available	
27	B.4	Trends of very wet days	%	Available	
28	B.5	Trends of extreme wet days	%	Available	
29	B.6	Trend of consecutive wet days	%	Available	
30	B.7	Trend of number of rainy days	%	Available	
31	B.8	Trend of consecutive dry days	%	Available	
32	B.9	Trend of warm days	%	Available	
33	B.10	Trend of warm nights	%	Available	
34	B.11	Trend of warm spell duration	%	Available	
35	B.12	Trend of cold days	%	Available	
36	B.13	Trend of cool nights	%	Available	
37	B.14	Trend of cold spell duration	%	Available	
38	B.15	Trend of snowstorms events rate	%	Not available	
39	B.16	Change in rate of thunderbolts events rate	%	Not available	
40	B.17	Change in rate of hailstorm events	%	Not available	
41	B.18	Change in the rate of floods events	%	Not available	
42	B.19	Change in the rate of landslide events	%	Not available	
43	B.20	Change in the rate of GLOF events	%	Not available	
44	B.21	Change in the rate of drought events	%	Not available	
45	B.22	Change in the rate of forest fire events	%	Not available	
46	B.23	Change in the rate of fire events	%	Not available	
47	B.24	Change in the rate of avalanche events	%	Not available	
48	B.25	Change in the rate of epidemics events	%	Not available	
<b>C. Impacts/L&amp;D from climate extreme events and climate-induced disasters</b>					
<b>Economic and non-economic loss and damage</b>					
49	C.1	Number of deaths, and missing people attributed to climate induced disasters	No.	Available	Drought, Forest fire, Snow storm, Heat wave, Avalanche, Cold wave, Heavy Rainfall, Wind storm, Epidemic, Thunderbolt, Fire, Landslide, Flood, GLOF
50	C.2	Injuries due to climate induced disasters	No.	Available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
51	C.3	Loss of private properties (buildings, lands) due to climate induced disasters	No.	Available	
52	C.4	Governmental houses damaged due to climate induced disasters	No.	Available	
53	C.5	Total direct economic loss to climate induced disasters as percentage of GDP	NPR	Available	
54	C.6	Non-economic losses of nature due to climate induced disasters	Cases	Not available	Includes loss of biodiversity, soil and nutrient, aesthetic value, tourism sites
55	C.7	Non- economic losses to human due to climate induced disasters	Cases	Not available	
56	C.8	Landlessness, forced migration and displacement due to climate induced disasters	Cases	Not available	
57	C.9	Harassment and sexual assaults during climate induced disasters	Cases	Not available	
<b>Impact on agriculture and food security</b>					
58	C.10	Change in agricultural production due to climate induced disasters	%	Not available	
59	C.11	Change in productive agriculture land due to climate induced disasters	%	Not available	
60	C.12	Change in livestock productivity due to climate induced disasters	%	Not available	
61	C.13	Change in fisheries production due to climate induced disasters	%	Not available	
62	C.14	Change in the outbreak of pests and diseases and the damage to agriculture	%	Not available	
63	C.15	Change in agro-biodiversity (loss of important gene, crops and varieties)	%	Not available	
64	C.16	Food insecure populations (severe)	%	Available	
65	C.17	Change in workload of women due to climate change	Hr/day	Not available	
<b>Impacts on Forest, Biodiversity and Watershed Management</b>					
66	C.18	Number of invasive species recorded	No.	Not available	
67	C.19	Proportion of forest area affected by forest fires	%	Not available	
68	C.20	Forest area degraded by landslide, drought and flood	Ha	Not available	
69	C.21	Loss of flora and fauna due to climate induced disasters	No.	Not available	
70	C.22	Number of species with range shift	No.	Not available	
71	C.23	Number of new pest and diseases due to climate change	No.	Not available	
72	C.24	Wetlands and watershed areas degraded by climate induced disasters	Ha	Not available	
<b>Impacts on Industry, Transportation and Physical Infrastructure</b>					
73	C.25	Road damaged by climate induced disasters	Km/year	Not available	
74	C.26	Bridges damaged by climate induced disasters per annum	No.	Not available	
75	C.27	Annual damage to public infrastructures due to climate induced disasters	NPR	Not available	Includes schools, health posts and hospitals, airport, helipads, trails, communication towers, drinking water pipes, transmission lines, public buildings, hydroplanes, irrigation canals, dams, camping sites
<b>Impacts on Water resources, energy</b>					
76	C.28	Dried springs and rivers recorded	No.	Not available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
77	C.29	Dried wetlands and other water bodies	m <sup>3</sup>	Not available	
78	C.30	Number of potentially dangerous glacial lakes	No.	Available	
79	C.31	Energy deficiency during lean period	MW	Not available	
<b>Impacts on Health and Sanitation</b>					
80	C.32	Change in fresh water availability	Volume/day/person	Not available	
81	C.33	Admitted patients from WASH cases during climate induced disaster	No.	Not available	
82	C.34	Number of Vector Borne Diseases	No.	Available	Includes Kala-azar mortality, Malaria, Dengue, Lymphatic filariasis, Japanese encephalitis
83	C.35	Number of Water Borne Diseases	No.	Available	Includes diarrhoeal diseases <5, child diarrhoea incidence, diarrhoeal disease mortality <5 yrs, Typhoid, Amoebic dysentery, bacillus dysentery, pseudomonas dysentery, cholera
84	C.36	Fatalities and injuries due to heat and cold waves	No.	Available	
<b>Impacts on Tourism, Natural and Cultural Heritage</b>					
85	C.37	Change in number of tourist inflow due to climate induced disasters	No.	Not available	
86	C.38	Damage to natural and cultural heritage and tourism sites due to climate induced disasters	No.	Not available	
87	C.39	Direct economic loss (damaged or destroyed) to cultural heritage due to climate induced disasters	USD	Not available	
<b>D. Exposure</b>					
<b>Agriculture and Food Security</b>					
88	D.1	Agricultural land area	Ha	Available	
89	D.2	Area under cereal crops	Ha	Available	
90	D.3	Area under cash crops	Ha	Available	
91	D.4	Area under pulses	Ha	Available	
92	D.5	Potential irrigable land	Km <sup>2</sup>	Available	
93	D.6	Total number of livestock	No.	Available	
94	D.7	Number of poultry farm	No.	Available	
95	D.8	Number of Fish farms and ponds	No.	Available	
<b>Forest Biodiversity and Watershed Management</b>					
96	D.9	Forest area	Km <sup>2</sup>	Available	
97	D.10	Protected area	Km <sup>2</sup>	Available	
98	D.11	Wetland area	Ha	Available	
99	D.12	Watershed area	Km <sup>2</sup>	Available	
<b>Human population</b>					
100	D.13	Total population	No.	Available	
101	D.14	Number of households	No.	Available	
102	D.15	Area of district	No.	Available	
<b>Water resources and energy</b>					
103	D.16	Area of glaciers	Ha	Available	
104	D.17	Area of glacier lakes	Km <sup>2</sup>	Available	
105	D.18	No. of glacier lakes	No.	Available	
106	D.19	Lakes and reservoirs area	Km <sup>2</sup>	Available	
107	D.20	Number of hydropower plants	No.	Available	
108	D.21	Ponds and springs	No.	Not available	
<b>Industry, Transportation, and Physical Infrastructure</b>					
109	D.22	Strategic Road Network	Km	Available	
110	D.23	Strategic bridges (including suspension)	No.	Available	
111	D.24	No. of airports and helipads	No.	Available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
112	D.25	Industries in operation	No.	Available	
<b>Tourism, Natural and Cultural Heritage</b>					
113	D.26	Cultural and Archeological sites	No.	Available	
<b>E. Sensitivity</b>					
<b>Agriculture and Food Security</b>					
114	E.1	Agriculture holdings with food insufficiency	%	Available	
115	E.2	Population dependent on farming for livelihood	No.	Available	
116	E.3	Types of farming systems (subsistence, commercial, state owned)	Normalized index	Not available	
117	E.4	Land under different crop systems (mixed, single)	Normalized index	Not available	
118	E.5	Water availability status of land (irrigated, semi-irrigated, rain fed)	Normalized index	Not available	
119	E.6	Average size of land holding	Ha	Available	
120	E.7	Access to land (landless, lease, landlord)	Normalized index	Not available	
121	E.8	Female headed households	%	Available	
<b>Forest Biodiversity and Watershed Management</b>					
122	E.9	Percentage of forest-dependent households	%	Available	
123	E.10	Types of forests	Normalized index	Available	
124	E.11	Condition of forest	Normalized index	Available	
125	E.12	Flora and fauna under IUCN redlist	No	Not available	
126	E.13	Indigenous people dependent on forest	HHs	Not available	
127	E.14	Marginalized households dependent on forest	HHs	Not available	
128	E.15	Status of wetlands, watershed, grassland and rangeland	Normalized index	Not available	
129	E.16	Change in Land use/Land cover	Normalized index	Available	
<b>Industry, Transportation and Physical Infrastructure</b>					
130	E.17	Houses with thatched roof	No.	Available	
131	E.18	Types of roads (blacktopped, earthen, gravel)	Km	Available	
132	E.19	Condition of road, bridges and other infrastructures (maintenance status)	Status	Not available	
133	E.20	Length of road having a slope greater than 30 degrees	Km	Available	Further analysis carried out on base data
134	E.21	Urban population living in slums or informal settlements	No.	Not available	
<b>Water resources and energy</b>					
135	E.22	Rate of glacial retreat	m/year	Available	
136	E.23	Drainage density		Available	
137	E.24	Change in net water yields	Metric liters	Available	
138	E.25	Types of generating systems (ROR, PROR, Storage)	No.	Not available	
139	E.26	Locations of hydropower plants in proximity to hazards	No.	Not available	
140	E.27	Transmission and distribution lines density		Not available	
<b>Health, drinking water and Sanitation and demography</b>					
141	E.28	Mortality from vector borne diseases	No.	Available	
142	E.29	Malnourished children (under 5)	No.	Available	
143	E.30	Differently able population	%	Available	
144	E.31	Population group (60+ years)	No.	Available	
145	E.32	Population of female	No.	Available	
146	E.33	Population of children	No.	Available	
147	E.34	Poverty incidence	%	Available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
<b>F. Adaptive capacity</b>					
<b>Climate change Policy and Institutions</b>					
148	F.1	Existence of policies and plans to address climate change issues at federal level	No.	Available	
149	F.2	Local governments with dedicated climate change programmes	No.	Not available	
150	F.3	Provincial governments with dedicated climate change programmes	No.	Available	
151	F.4	Number of units dedicated to environment management/climate change in government structures	No.	Available	
152	F.5	Governmental staff in the environmental management/climate change sector	No.	Not available	
153	F.6	Climate change related projects implemented at the local level	No.	Available	
154	F.7	Number of coordinating bodies at federal, provincial and local level	No.	Available	
155	F.8	Number of national implementation entities	No.	Available	
<b>Risk management, disaster forecasting and early warning systems</b>					
156	F.9	Local governments that have adopted and implemented local disaster risk and climate resilient plan	No.	Not available	
157	F.10	Early warning system coverage	%	Available	
158	F.11	Coverage of agro-advisory services	HHs	Not available	
159	F.12	Coverage of weather forecasting	%	Available	
160	F.13	Coverage of multi-hazards alter system	%	Not available	
161	F.14	Coverage fire brigades system	%	Available	
162	F.15	Meteorological monitoring network	No.	Available	
163	F.16	Air quality monitoring systems	No.	Available	
164	F.17	Flood monitoring systems	No.	Available	
165	F.18	Impact based forecasting measures	No.	Not available	
166	F.19	Human diseases surveillance and response measures	No.	Not available	
<b>Climate change public awareness and education</b>					
167	F.20	Households knowing climate change	%	Available	
168	F.21	Schools with climate change related information on curriculum	No.	Not available	
169	F.22	Climate change graduates per year (Bachelor, Masters, PhD)	No.	Not available	
<b>Technology and practices</b>					
170	F.23	Households covered by LAPA interventions	No.	Available	
171	F.24	Households benefitting from climate smart agriculture	No.	Not available	
172	F.25	Climate smart cities	No.	Not available	
173	F.26	Forest area under sustainable forest management	%	Not available	
174	F.27	Local government with bioengineering schemes	No.	Not available	
175	F.28	Local government with soil management schemes	No.	Not available	
176	F.29	Local government with water management schemes		Not available	
177	F.30	Number of palika with ecosystem-based adaptation projects	No.	Available	
178	F.31	Sustainable wetland and watershed management areas	Ha	Not available	
179	F.32	Local government with Disaster Risk Reduction and Management act/plan/policies	No.	Not available	
180	F.33	Electrification coverage	%	Available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
181	F.34	Bio-gas plants coverage by Households	%	Available	
182	F.35	Solar plants coverage by households	%	Available	
183	F.36	Traditional energy for cooking	HHs	Available	
184	F.37	Renewable energy for cooking	HHs	Available	
185	F.38	Renewable energy for lighting	HHs	Available	
186	F.39	Total capacity of pico/micro/mini hydro	kW	Available	
187	F.40	Improved water mills	No.	Available	
188	F.41	Number of potential GLOF sites where water draining is carried out	No.	Available	
<b>Institutions and good governance</b>					
189	F.42	Farmer cooperative	No.	Available	
190	F.43	HHs involved in women managed natural resources management groups (forest, water, agriculture)	No.	Not available	
191	F.44	Area covered by community-based forest management	%	Available	
192	F.45	Number of pro-poor women and IPs based enterprises	No.	Not available	
193	F.46	Environment and climate change related I/ NGOs	No.	Available	
194	F.47	Annual budget and other support targeted to poor, women and dalits, IPs	NRS	Not available	
<b>Socio-economic and demographic capabilities</b>					
195	F.48	Literacy rate	%	Available	
196	F.49	Economically active population	%	Available	
197	F.50	HDI	Index	Available	
198	F.51	GDI	Index	Available	
199	F.52	GDP	USD	Available	
200	F.53	Per Capita Income	USD	Available	
201	F.54	GNI	NRS	Available	
202	F.55	Gender inequality index	Index	Available	
<b>Access to services</b>					
203	F.56	Population with bank accounts	%	Available	
204	F.57	Percentage of households with radio	%	Available	
205	F.58	Percentage of households with television	%	Available	
206	F.59	Percentage of households with internet	%	Available	
207	F.60	Percentage of households with mobile phone	%	Available	
208	F.61	Road density		Available	
209	F.62	Nutrition program for mothers and children	No.	Not available	
210	F.63	No. of agriculture and livestock insurance (Beema Samiti, 2021)	No.	Available	
211	F.64	Farmer with soft loan facilities	No.	Not available	
212	F.65	Emergency healthcare services	No.	Available	
213	F.66	Number of HH with private toilet	No.	Available	
214	F.67	Improved Drinking water access to households	%	Available	
215	F.68	Number of HH with rainwater harvesting	No.	Available	
216	F.69	Compensation of poor and smallholder farmers in case of crop failure	%	Not available	
217	F.70	Government hospitals	No.	Available	
218	F.71	Primary health care centers	No.	Available	
219	F.72	Health posts	No.	Available	
220	F.73	Private/non-public health institutions	No.	Available	
221	F.74	Registered medical stores	No.	Available	
222	F.75	Health laboratories	No.	Available	
223	F.76	Water supply infrastructures and services: drinking water supply schemes	No.	Available	
224	F.77	Water and sludge treatment plants	No.	Available	

Ind No.	Code	Indicators	Unit	Data availability status	Remarks
<b>Financial access and security</b>					
225	F.78	Population with insurance facility	%	Available	
226	F.79	Insurance of crops, livestock and other agriculture products, investments	No	Not available	
227	F.80	Budget allocations to rescue, relief, and rehabilitation	NRP	Available	
228	F.81	Budget allocations to disaster preparedness	NPR	Available	
229	F.82	Proportion of climate change related budget	%	Available	
230	F.83	Share of government climate change adaptation expenditure	%	Not available	
231	F.84	Climate change funds received from the international entity	USD	Not available	
<b>G. Mitigation capacity</b>					
<b>Climate change mitigation policies, strategies and plans</b>					
232	G.1	Number of projects implemented related to NDC, LTS and other low carbon development plans	No.	Not available	
233	G.2	Reforming or phasing-out government support for fossil fuels	No.	Not available	
234	G.3	Share of climate change mitigation expenditure	%	Not available	
235	G.4	Government subsidies on EV and electrical devices	%	Not available	
236	G.5	Average trading carbon price	USD	Not available	
237	G.6	Pollution tax from petroleum products	NPR	Available	
238	G.7	PES mechanisms	USD	Not available	
<b>Renewable energy</b>					
239	G.8	Installed capacity of alternative energy	MW	Available	
240	G.9	Proportion of consumption of renewable energy	%	Available	
241	G.10	Proportion of consumption of hydro electricity	%	Available	
242	G.11	Rate of increase in the generation of renewable energy	%	Not available	
243	G.12	Total investments from the private sector on clean energy	NPR	Not available	
<b>Climate change mitigation technology and practice</b>					
244	G.13	Increase in forest area	Co2 eq	Not available	GHGs removal
245	G.14	Expansion of protected areas and conservation areas	Co2 eq	Not available	GHGs removal
246	G.15	Expansion of agroforestry	Co2 eq	Not available	GHGs removal
247	G.16	Management of peatlands (degraded wetlands)	No.	Not available	
248	G.17	Coverage of electric vehicle	%	Available	
249	G.18	Trend of using electric cooking	Co2 eq	Not available	GHGs removal
250	G.19	Trend of using clean energy in industry processes	Co2 eq	Not available	GHGs removal
251	G.20	Shift to clean energy use in brick industries	Co2 eq	Not available	GHGs removal
252	G.21	Adoption of technology in reduction in methane from crop production	Co2 eq	Not available	GHGs removal
253	G.22	Adoption of technology in reduction in methane from livestock production	Co2 eq	Not available	GHGs removal
254	G.23	Solid waste management	Co2 eq	Not available	GHGs removal
255	G.24	Technology that helps in lowering of GHG from aviation	Co2 eq	Not available	GHGs removal
256	G.25	Production of hydro electricity	MWatt	Available	
257	G.26	Production of bio-fuels	Kilo liter/ Metric ton	Not Available	
258	G.27	Saving of energy from energy efficiency schemes	MWatt	Not available	
259	G.28	Total clean energy export	MWatt	Not available	
260	G.29	Carbon trading under both voluntary and non-voluntary markets	USD	Not available	



# Chapter 4

## Conclusion and Way Forward

The list of indicators provided in this report provides an opportunity to advance the national climate action targets to achieve a low carbon climate-resilient society as articulated in the NAP, NDC, and LTS, as well as to improve the wider national capacity to respond to climate change.

The major outputs of this process include the following:

- Understanding climate change drivers and root causes (GHG emissions);
- Understanding climate change impacts in the major sectors, across ecological regions and geography, including loss and damage (both economic and non-economic loss and damage);
- Understanding climate change risk and vulnerability in major sectors including cross-cutting sectors, seven provinces covering different geographic regions types;
- Understanding the adaptation and mitigation capacity and potentials.

The indicators can be used in a variety of ways. The usefulness will be for i) communication and awareness-raising purposes; ii) integrating climate change indicators in development sectors and adoption in regular surveys and census processes; iii) establishing a monitoring and reporting framework for the implementation of NDC, LTS, NAP, and TNC and (iv) assisting science-based decision-making process.

The indicators proposed and used in this document are not all-inclusive or exhaustive. As a result, these indicators will be updated based on what has been learning and implementation.

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# Annex: Data

## A. Emission

Code	Indicators	Source	Data
A.1	Total direct greenhouse gas emissions per year (Co2 eq)	MoFE, 2021k	28166.06
A.2	Total emissions of indirect greenhouse gases (Co2 eq.)	MoFE, 2021k	195.51
A.3	Total Direct gas emissions from AFOLU (Co2 eq./Gg)	MoFE, 2021k	12121.33
A.4	Total indirect gas emissions from AFOLU (Gg)	MoFE, 2021k	189.31
A.5	Total direct gas emissions from energy (Co2 eq/Gg.)	MoFE, 2021k	14,751.66
A.7	Total direct gas emissions from industrial processes and product use (Co <sub>2</sub> eq./Gg)	MoFE, 2021k	368.4
A.8	Total indirect gas emissions from industrial process and product use (Gg)	MoFE, 2021k	6.20
A.11	Total direct gas emissions from waste (Co2 eq.)	MoFE, 2021k	924.67
A.13	Greenhouse gas emissions per capita (ton/yr)	MoFE, 2021k	1.06
A.14	Total primary energy production from fossil fuels (%)		5.03
A.15	Percentage of households using fuelwood (%)	CBS, 2011	64
A.16	Electricity consumption per capita (Kilowatt/hour)	MoF, 2021	260
A.17	Total petroleum products import (KL)	NOCL, 2021	2861502
A.18	Fossil fuel dependency (%)	CBS, 2011	16.2
A.20	Population growth (%)	CBS, 2021	0.93
A.21	Urban population (%)	CBS, 2021	66.08
A.22	Rural population (%)	CBS, 2021	33.92
A.23	Immigration (per thousand population)	CBS, 2011	0.46

## B. Climate change indicators: extreme events and climate-induced disasters

Code	B.1	B.2	B.3	B.4	B.5	B.6
District	Annual maximum temperature trend (°C)	Annual minimum temperature trend (°C)	Annual precipitation trend (mm)	Trends of very wet days (day/year)	Trends of extreme wet days (day/year)	Trends of consecutive wet days (day/year)
Source	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017
Achham	0.056	-0.0043	1.629	0	0	0.20
Arghakhachi	0.034	0.013	-3.048	-0.10	0	0.30
Baglung	0.055	0.003	2.384	0	-0.10	0.50
Baitadi	0.062	0	1.303	0.10	0	0.10
Bajhang	0.084	-0.018	-0.490	0	0	0.20
Bajura	0.077	-0.019	0.935	-0.10	-0.10	0.70
Banke	0.02	0.009	3.753	0.10	0	-0.10
Bara	0.01	0.023	-4.644	-0.10	0	0.30
Bardiya	0.024	0.012	7.865	0.20	0	0.10
Bhaktapur	0.044	0.02	-0.095	0	0	0.10
Bhojpur	0.057	0.007	-2.180	-0.10	0	0.80
Chitwan	0.027	0.025	1.320	0	0	0.10
Dadeldhura	0.047	0.003	0.643	0	0	0
Dailekh	0.072	-0.01	-1.183	-0.10	0	0.20
Dang	0.031	0.008	-2.273	0	0	-0.10
Darchula	0.087	-0.016	-1.035	0	0	0
Dhading	0.052	0.017	-3.861	-0.10	-0.10	-0.30
Dhankuta	0.059	0.014	-2.761	-0.10	-0.10	0.40
Dhanusa	0.024	0.029	4.136	0.10	0	0.30
Dolakha	0.063	-0.002	-7.721	-0.30	-0.10	-0.20
Dolpa	0.078	0	0.211	-0.20	-0.10	0.70
Doti	0.052	-0.003	1.949	0	0	0.20
Rukum East	0.064	0.008	-3.800	-0.10	0	0.20
Gorkha	0.076	0.002	-3.353	-0.40	-0.10	0.70
Gulmi	0.045	0.007	5.116	-0.10	-0.10	0.30
Humla	0.085	-0.028	-0.740	0	0	0.50
Ilam	0.067	-0.001	-9.567	-0.30	-0.10	0.90
Jajarkot	0.072	0	-2.945	-0.10	0	-0.10
Jhapa	0.044	0.005	1.495	-0.20	0	0.50
Jumla	0.086	-0.012	-0.579	0.10	0	-0.20
Kailali	0.023	0.016	3.443	-0.10	-0.10	0.80
Kalikot	0.082	0.011	-1.830	-0.10	0	0.20
Kanchanpur	0.018	-0.018	5.230	0.10	0	0.10
Kapilbastu	0.021	0.016	-2.176	-0.20	-0.10	0.40
Kaski	0.067	0.018	-11.441	0.10	0	0
Kathmandu	0.044	-0.002	11	-0.10	0	0.30
Kavrepalanchok	0.042	0.02	-2.455	-0.20	0	0.10
Khotang	0.057	0.01	-3.040	0	0	0.10
Lalitpur	0.045	0.017	-4.950	-0.10	-0.10	0.50
Lamjung	0.07	0.008	-6.470	-0.10	0	-0.10
Mahottari	0.019	0.027	2.790	-0.20	-0.10	0.50
Makawanpur	0.034	0.023	-5.130	0.10	0	0

The data of Bardahat Susta East and Bardahat Susta West, Rukum East and Rukum West are kept same in some places and averaged in others.

Code	B.1	B.2	B.3	B.4	B.5	B.6
District	Annual maximum temperature trend (°C)	Annual minimum temperature trend (°C)	Annual precipitation trend (mm)	Trends of very wet days (day/year)	Trends of extreme wet days (day/year)	Trends of consecutive wet days (day/year)
Source	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017
Manang	0.092	-0.03	-3.880	-0.10	0	0
Morang	0.04	0.014	0.040	-0.30	-0.10	0.10
Mugu	0.08	-0.011	-1.840	0.10	0	-0.50
Mustang	0.08	-0.014	-1.160	-0.30	-0.10	0.80
Myagdi	0.065	-0.004	2.180	-0.20	-0.10	-0.10
Bardahat Susta East	0.026	0.015	3.720	0.10	0	0.20
Nuwakot	0.045	0.021	-2.740	-0.10	0	-0.20
Okhaldhunga	0.057	0.008	-2.690	-0.10	0	0.20
Palpa	0.043	0.004	0.810	0	0	0
Panchthar	0.082	0.007	-1.390	0	0	0
Bardahat Susta West	0.026	0.015	3.720	0.10	0	0.20
Parbat	0.059	0.003	8.800	0.10	0	0.20
Parsa	0.017	0.023	-1.430	0.10	0	0.40
Pyuthan	0.04	0.009	-3.690	0	0	0.20
Ramechhap	0.056	0.005	-9.220	-0.10	-0.10	0.40
Rasuwa	0.069	-0.001	-2.600	-0.30	-0.10	-0.30
Rautahat	0.009	0.008	-1.790	0	0	-0.80
Rolpa	0.048	0.025	-5.190	-0.10	0	0.40
Rupandehi	0.021	0.017	-3.280	0	0	0.20
Salyan	0.051	0.012	-1.040	-0.20	-0.10	0.10
Sankhuwasabha	0.072	-0.007	-4.680	0	0	0.20
Saptari	0.03	0.023	-0.240	-0.10	0	0.20
Sarlahi	0.013	0.027	1.230	-0.20	0	0
Sindhuli	0.037	0.021	-8.140	-0.10	-0.10	0.30
Sindhupalchok	0.055	0.006	-0.190	0	0	0.30
Siraha	0.029	0.029	-1.620	-0.20	0	0
Solukhumbu	0.076	-0.01	-4.360	0.10	0	-0.60
Sunsari	0.033	0.019	0.720	0	0	0
Surkhet	0.044	0.006	0.280	0.20	0.10	-0.20
Syangja	0.047	0.009	8.990	0	0	-0.10
Tanahu	0.042	0.023	3.760	-0.10	-0.10	0.20
Taplejung	0.091	-0.01	-1.360	0.10	0	0.40
Terhathum	0.077	0.009	2.990	0	0	-0.10
Udayapur	0.043	0.02	-3.350	-0.40	-0.10	0.70
Rukum West	0.064	0.008	-3.800	-0.10	0	0.20

Code	B.7	B.8	B.9	B.10	B.11	B.12	B.13	B.14
District	Trends of number of rainy days (day/year)	Trends of consecutive dry days (day/year)	Trends of warm days (day/year)	Trends of warm nights (day/year)	Trends of warm spell duration (day/year)	Trends of cold days (day/year)	Trends of cool nights (day/year)	Trends of cold spell duration (day/year)
Source	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017
Achham	0.20	-0.20	0.80	-0.10	0.30	-0.8	0.3	0.3
Arghakhachi	0.30	-0.20	0.70	0.80	0.20	-0.4	0	0.2
Baglung	0.20	0.10	1.40	0.90	0.40	-0.9	0.2	0.2
Baitadi	0.10	0	1.20	0.70	0.40	-1	0.3	0.3
Bajhang	0.10	0.10	1.60	0	0.30	-1.2	0.6	0.3
Bajura	0.70	-0.60	1.40	-0.10	0.40	-1.1	0.6	0.3
Banke	0.10	-0.10	0.30	0.20	0.20	-0.1	-0.1	0
Bara	0.20	0.10	0.20	0.60	0	0.2	-0.5	-0.2
Bardiya	0.10	-0.20	0.20	0.50	0.20	-0.1	-0.1	0.1
Bhaktapur	0.10	0.10	1	0.90	0.30	-0.9	-0.3	-0.1
Bhojpur	0.50	-0.20	1.40	0.20	0.30	-1.1	-0.1	0
Chitwan	0	0.10	0.60	1	0.20	-0.2	-0.3	0
Dadeldhura	0.10	-0.10	0.70	0.80	0.30	-0.6	0.3	0.3
Dailekh	0.10	-0.10	1	-0.20	0.40	-1	0.2	0.2
Dang	-0.10	0.10	0.40	0.50	0.20	-0.4	0	0.2
Darchula	-0.10	0.30	1.70	0.10	0.40	-1.1	0.6	0.2
Dhading	-0.30	0.40	1.30	1.20	0.30	-0.8	-0.1	0
Dhankuta	0.30	-0.20	1.50	0.60	0.30	-1.1	-0.3	-0.1
Dhanusa	0.30	-0.20	0.40	0.70	0.10	-0.2	-0.5	-0.2
Dolakha	-0.20	0.20	1.50	0.50	0.30	-1.1	0.1	0.2
Dolpa	0.50	-0.30	1.50	1	0.20	-0.7	0.4	0.2
Doti	0.10	-0.10	0.80	0.30	0.30	-0.7	0.3	0.3
Rukum East	0.30	-0.20	0.50	0.40	0.20	-0.8	0.2	0.2
Gorkha	0.50	-0.40	1.30	1.10	0.30	-1.1	0.2	0.1
Gulmi	0.20	-0.10	1.60	0.20	0.40	-0.7	0.1	0.2
Humla	0.30	-0.20	1	0.60	0.30	-1.1	0.7	0.2
Ilam	1	-1	1.50	-0.10	0.20	-1.2	0	0.2
Jajarkot	0	0.10	1.60	0	0.30	-1.1	0.2	0.2
Jhapa	0.50	-0.40	1.30	0.60	0.40	-0.7	-0.3	-0.1
Jumla	-0.10	0.10	1	-0.20	0.10	-1.2	0.4	0.1
Kailali	0.70	-0.80	1.30	0.50	0.30	-0.1	0.1	0.2
Kalikota	0.10	0	1	0.80	0.30	-1.2	0.5	0.3
Kanchanpur	0.30	-0.10	0.30	0.60	0.10	0	-0.1	0.1
Kapilbastu	0	-0.20	1.40	-0.10	0.40	-0.1	-0.3	0
Kaski	0.20	0	0.20	0.70	0.20	-1.1	0.3	0.1
Kathmandu	0.20	0	0.40	0.60	0.10	-0.9	-0.2	0
Kavrepalanchok	0.10	0	1.50	0	0.30	-0.7	-0.3	-0.1
Khotang	0.10	0	1.10	1	0.30	-1	0	0.1
Lalitpur	0.40	-0.30	1.20	0.40	0.30	-0.8	-0.2	0
Lamjung	0	0.20	1.10	1	0.30	-1.2	0.1	0.1
Mahottari	0.30	-0.30	1.60	0.30	0.30	-0.1	-0.6	-0.1
Makawanpur	0	0	0.30	0.60	0	-0.3	-0.3	0
Manang	0	0	0.80	1.10	0.20	-1.3	0.5	0.2
Morang	-0.10	0.30	1.60	-0.40	0.30	-0.6	-0.4	-0.1



Code	B.7	B.8	B.9	B.10	B.11	B.12	B.13	B.14
District	Trends of number of rainy days (day/year)	Trends of consecutive dry days (day/year)	Trends of warm days (day/year)	Trends of warm nights (day/year)	Trends of warm spell duration (day/year)	Trends of cold days (day/year)	Trends of cool nights (day/year)	Trends of cold spell duration (day/year)
Source	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017	DHM, 2017
Mugu	-0.30	0.20	1	0.30	0.10	-1	0.6	0.2
Mustang	0.90	-1	1.30	0.50	0.30	-1	0.4	0.2
Myagdi	-0.20	0.30	1.50	0.20	0.20	-0.9	0.3	0.1
Bardahat Susta East	0.20	-0.10	0.70	0.40	0.20	0	-0.3	0
Nuwakot	-0.30	0.60	1	1.10	0.30	-0.8	-0.2	0
Okhaldhunga	0.20	-0.10	1.40	0.50	0.30	-1.1	0	0.1
Palpa	0.20	-0.20	1	0	0.30	-0.4	0	0.2
Panchthar	0	0	1.90	0.70	0.30	-1.4	0	0.2
Bardahat Susta West	0.20	-0.10	0.70	0.40	0.20	0	-0.3	0
Parbat	0.20	-0.10	0.70	0.40	0.20	-1.1	0.1	0.2
Parsa	0.30	0	1.40	0.30	0.30	0.1	-0.4	-0.2
Pyuthan	0.20	0	0.40	0.80	0.10	-0.6	0.1	0.1
Ramechhap	0.20	-0.20	0.70	0.90	0.20	-1	0	0.1
Rasuwa	-0.30	0.30	1.30	0.50	0.30	-1.1	0.1	0.1
Rautahat	-1.20	1.60	1.60	0.20	0.40	0.2	0.1	0.2
Rolpa	0.30	0	0	0.90	-0.10	-0.9	-0.5	-0.2
Rupandehi	0.20	-0.20	0.60	0.70	0.30	0	-0.3	0
Salyan	0.20	-0.20	1.70	0	0.40	-0.9	0	0.1
Sankhuwasabha	0.10	0	0.50	0.30	0.10	-1.2	0.3	0.1
Saptari	0.30	-0.10	0.10	0.60	0	-0.4	-0.5	-0.2
Sarlahi	0	0.20	0.70	0.70	0.20	0	-0.6	-0.2
Sindhuli	0.20	0	1.30	0.50	0.40	-0.5	-0.4	-0.1
Sindhupalchok	0.20	-0.10	0.50	0.60	0.20	-1	0	0
Siraha	-0.10	0.20	1.60	0	0.30	-0.3	-0.5	-0.2
Solukhumbu	-0.40	0.20	0.80	0.30	0.10	-1.2	0.4	0.1
Sunsari	0	0	0.50	0.30	0.30	-0.4	-0.5	-0.2
Surkhet	-0.10	0.20	1.20	0.40	0.20	-0.6	0.1	0.2
Syangja	0	0	1	1.20	0.20	-0.7	0	0.1
Tanahu	0	0	1.90	0.10	0.40	-0.5	-0.2	0.1
Taplejung	0.40	-0.30	1.90	0.50	0.40	-1.5	0.5	0.2
Terhathum	-0.10	0.10	0.90	0.40	0.20	-1.4	-0.1	0.1
Udayapur	0.50	-0.40	1.30	1.10	0.30	-0.6	-0.4	0
Rukum West	0.30	-0.20	0.50	0.40	0.20	-0.8	0.2	0.2

Code	B.1						B.3						B.4						B.5							
	Scenarios of average temperature						Scenarios of precipitation						Scenarios of very wet days						Scenarios of extreme wet days							
	RCP4.5 2030s		RCP8.5 2050s		MoFE, 2019		RCP4.5 2030s		RCP8.5 2050s		MoFE, 2019		RCP4.5 2030s		RCP8.5 2050s		MoFE, 2019		RCP4.5 2030s		RCP8.5 2050s		MoFE, 2019			
District																										
Source																										
Achham	0.98	1.40	1.11	1.88	0.29	8.08	6.62	14.06	-3.72	8.52	10.91	15.61	17.37	40.30	25.95	54.95										
Arghakhachi	1.02	1.37	1.14	1.97	1.9	8.73	7.03	11.65	1.90	14.11	13.21	19.14	26.06	49.47	41.39	68.46										
Baglung	0.92	1.32	1.03	1.82	3.31	10.41	9.12	14.49	4.54	19.47	16.66	23.71	29.56	49.11	36.58	70.52										
Baitadi	1.01	1.43	1.15	1.94	0.05	7.86	6.44	14.07	-3.74	9.10	11.06	14.88	19.67	41.49	25.31	59.87										
Bajhang	0.97	1.38	1.10	1.85	0.87	8.97	6.78	14.40	-3.85	9.13	10.80	14.50	19.81	39.57	23.63	56.18										
Bajura	0.95	1.35	1.08	1.81	0.57	8.47	6.53	14.03	-3.86	8.61	10.22	14.89	16.27	35.37	23.50	53.78										
Banke	1.09	1.47	1.21	2.06	1.66	8.64	6.42	12.69	-1.73	9.64	9.91	13.72	25.82	55.04	31.28	64.23										
Bara	0.86	1.16	1.06	1.77	2.21	9.54	7.05	11.41	1.74	12.96	8.61	13.17	29.41	37.42	25.31	53.12										
Bardiya	1.07	1.51	1.20	2.04	1.15	9.33	7.33	14.53	-2.07	10.63	10.44	14.59	20.11	45.52	27.68	57.05										
Bhaktapur	0.84	1.15	1.01	1.70	2.28	7.97	6.51	10.58	3.26	13.42	9.61	17.67	28.34	40.03	25.24	55.42										
Bhojpur	0.77	1.11	0.97	1.64	2.27	3.32	2.28	6.87	3.20	5.48	9.25	17.11	32.09	28.68	16.65	51.64										
Chitwan	0.87	1.16	1.05	1.78	0.41	6.92	4.72	7.69	-1.36	11.75	5.95	10.43	21.76	37.09	27.27	48.37										
Dadeldhura	1.05	1.49	1.19	2.01	0.07	8.04	6.39	14.25	-3.70	9.29	11.20	15.27	20.06	42.12	25.41	60.66										
Dailekh	0.96	1.38	1.10	1.85	-0.11	7.33	6.37	13.31	-3.61	9.10	11.84	16.39	15.81	39.58	25.24	54.60										
Dang	1.03	1.37	1.16	1.97	1.1	7.62	6.70	12.36	-1.88	10.12	11.64	15.98	22.08	50.28	34.92	65.51										
Darchula	0.99	1.41	1.13	1.90	0.53	8.67	6.55	13.98	-3.16	9.78	10.61	14.74	19.41	40.63	25.59	57.71										
Dhading	0.88	1.23	1.02	1.77	2.51	8.37	6.80	10.82	4.52	17.23	13.55	20.45	29.16	47.30	31.67	65.53										
Dhankuta	0.79	1.13	0.99	1.68	2.79	3.34	2.24	6.92	3.43	5.59	9.56	17.84	33.74	30.91	20.18	53.96										
Dhanusa	0.87	1.24	1.08	1.83	5.16	7.26	5.89	10.90	2.78	6.41	9.39	16.86	33.83	31.97	24.06	59.64										
Dolakha	0.82	1.15	1	1.68	3.55	6.15	4.82	10.48	5.74	10.57	10.92	20.16	29.77	38.31	21.13	60.67										
Dolpa	0.97	1.40	1.09	1.89	3.21	11.55	10.14	17.04	4.45	18.26	18.26	25.38	28.07	49.42	38.33	67.85										
Doti	1.01	1.44	1.15	1.94	0.22	8.05	6.58	14.05	-3.42	9.07	11.40	15.86	19.78	42.34	23.80	56.13										
Rukum East	0.93	1.34	1.07	1.82	1.69	9.15	8.55	15.38	0.94	13.71	17.43	22.57	21.65	44.82	33.71	63.30										
Gorkha	0.88	1.25	0.99	1.74	2.87	9.23	8.08	12.84	5.46	19.99	15.66	24.74	31.55	51.62	33.16	69.91										
Gulmi	0.97	1.35	1.09	1.92	2.85	9.36	7.74	12.05	3.74	16.64	13.70	19.78	27.96	49.58	37.80	69.09										
Humla	1.05	1.50	1.21	2.01	0.68	8.65	6.96	14.19	-3.53	9.64	10.93	16.43	15.50	34.40	21.19	48.90										
Ilam	0.79	1.13	0.99	1.66	3.51	3.77	2.07	7.41	4.45	6.52	9.65	18	38.72	33.50	25.47	54.81										
Jajarkot	0.93	1.32	1.07	1.79	-0.09	7.08	6.04	12.59	-3.27	9.98	12.22	17.20	16.58	39.22	24.85	54.84										

Code	B.1						B.3						B.4						B.5					
	Scenarios of average temperature (°C)						Scenarios of precipitation (%)						Scenarios of very wet days (%)						Scenarios of extreme wet days (%)					
	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s	RCP8.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s	RCP8.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP4.5 2050s	RCP4.5 MoFE, 2019	RCP8.5 2050s	RCP8.5 MoFE, 2019
District																								
Source																								
Jhapa	0.83	1.18	1.03	1.74	1.74	1.82	3.18	3.72	1.82	6.54	6.54	3.73	6.52	9.17	17.63	38.87	34.64	26.43	58.81					
Jumla	0.92	1.32	1.06	1.78	1.78	5.99	-0.32	6.91	5.99	12.26	12.26	-3.84	9.24	11.75	17.53	14.73	35.68	24.08	53.92					
Kailali	1.06	1.51	1.19	2.01	2.01	7.05	0.08	8.21	7.05	14.19	14.19	-2.83	10.03	11.72	16.68	18.31	42.12	25.37	55.65					
Kalikot	0.93	1.33	1.07	1.79	1.79	5.98	-0.16	7.23	5.98	12.90	12.90	-4.08	8.15	10.14	15.34	12.71	33.26	22.42	50.88					
Kanchanpur	1.09	1.53	1.24	2.09	2.09	6.15	-0.2	8.10	6.15	14.27	14.27	-3.76	9.72	11.37	16.06	20.01	39.97	22.52	61.21					
Kapilbastu	0.96	1.26	1.11	1.89	1.89	6.19	0.05	7.55	6.19	10.03	10.03	-0.89	11.67	8.90	14.53	19.72	41.28	40.58	56.92					
Kaski	0.86	1.25	0.97	1.72	1.72	9.47	3.4	10.66	9.47	14.63	14.63	5	20.42	16.28	24.84	31.59	51.49	36.98	73.52					
Kathmandu	0.86	1.18	1.02	1.73	1.73	6.35	2.33	8.03	6.35	10.40	10.40	3.37	14.06	11.17	18.78	29.73	42.65	27.50	57.76					
Kavrepalanchok	0.82	1.13	1.02	1.71	1.71	6.33	3.31	7.87	6.33	11.63	11.63	3.82	11.72	8.72	17.05	27.81	35.70	23.66	56.36					
Khotang	0.79	1.13	0.99	1.67	1.67	3.01	2.88	4.07	3.01	7.67	7.67	3.32	5.42	9.32	16.51	31.53	27.91	16.84	52.14					
Lalitpur	0.81	1.10	1.01	1.68	1.68	6.10	1.97	7.90	6.10	10.38	10.38	2.58	12.27	8.61	14.63	24.21	33.58	20.55	50.23					
Lamjung	0.85	1.23	0.96	1.70	1.70	8.69	3.13	9.88	8.69	13.38	13.38	5	20.01	14.90	24.07	31.79	51.06	35.68	72.48					
Mahottari	0.87	1.22	1.09	1.83	1.83	7.10	5.51	8.95	7.10	12.62	12.62	3.28	9.04	9.47	16.78	32.57	33.62	27.56	61.20					
Makawanpur	0.83	1.13	1.03	1.73	1.73	6.15	1.62	8.16	6.15	10.20	10.20	1.61	12.40	8.22	12.98	24.98	35.70	22.19	49.75					
Manang	0.88	1.29	0.99	1.75	1.75	9.49	3.03	10.59	9.49	15.29	15.29	6.05	21.27	17.50	27.28	32.09	53.15	31.67	68.09					
Morang	0.84	1.20	1.04	1.76	1.76	2.12	2.88	3.53	2.12	6.49	6.49	2.96	6.06	9.75	17.69	33.94	31.81	23.73	57.08					
Mugu	0.99	1.42	1.14	1.91	1.91	7.03	0.09	7.70	7.03	13.26	13.26	-1.62	11.51	12.86	18.97	17.26	37.59	25.26	51.49					
Mustang	0.94	1.37	1.06	1.86	1.86	10.18	3.67	12.28	10.18	16.60	16.60	6.25	21.42	18.51	27.31	31.60	54.33	36.89	70.56					
Myagdi	0.87	1.28	0.98	1.74	1.74	9.91	3.48	11.18	9.91	16.09	16.09	5.27	21.31	19.35	26.89	29.66	49.73	35.86	72.92					
Bardahat Susta East	0.90	1.20	1.07	1.84	1.84	5.43	0.54	7.44	5.43	8.47	8.47	-0.84	12.29	7.42	11.58	21.36	38.10	30.22	50.37					
Nuwakot	0.88	1.22	1.02	1.76	1.76	6.60	3.01	8.48	6.60	10.79	10.79	5.78	17.23	14.71	22.58	34.31	53.65	32.68	68.96					
Okhaldhunga	0.79	1.14	1	1.68	1.68	3.86	3.52	4.78	3.86	9.14	9.14	4.26	6.48	8.96	16.92	31.37	28.58	16.94	53.56					
Palpa	0.96	1.30	1.10	1.91	1.91	6.34	1.58	8.34	6.34	9.80	9.80	0.81	13.94	10.29	14.75	26.49	46.31	35.30	59.65					
Panchthar	0.77	1.11	0.98	1.64	1.64	2.21	3.52	3.68	2.21	7.79	7.79	4.76	6.72	10.57	19.36	38.37	33.74	25.98	54.89					
Bardahat Susta West	0.90	1.20	1.07	1.84	1.84	5.43	0.54	7.44	5.43	8.47	8.47	-0.84	12.29	7.42	11.58	21.36	38.10	30.22	50.37					
Parbat	0.91	1.28	1.02	1.81	1.81	8.69	3.32	10.12	8.69	13.02	13.02	4.12	17.88	13.78	20.54	30.62	51.68	38.07	71.28					

Code	B.1 Scenarios of average temperature (°C)						B.3 Scenarios of precipitation (%)						B.4 Scenarios of very wet days (%)						B.5 Scenarios of extreme wet days (%)																	
	RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2050s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2050s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2050s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2050s													
	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019											
Parsa	0.86	1.15	1.06	1.78	1.78	1.78	1.39	8.81	6.34	10.08	10.08	11.72	6.47	10.39	25.04	35.60	25.56	47.95	0.86	1.15	1.06	1.78	1.78	1.78	1.39	8.81	6.34	10.08	10.08	11.72	6.47	10.39	25.04	35.60	25.56	47.95
Pyuthan	1.01	1.39	1.13	1.96	1.96	1.96	2.62	9.30	8.37	13.78	13.78	15.12	15.34	21.24	26.43	49.05	39.49	70.28	1.01	1.39	1.13	1.96	1.96	1.96	2.62	9.30	8.37	13.78	13.78	15.12	15.34	21.24	26.43	49.05	39.49	70.28
Ramechhap	0.81	1.16	1.01	1.71	1.71	1.71	3.61	5.41	4.47	10.03	10.03	7.95	9.88	18.27	31.04	32.95	19.38	57.24	0.81	1.16	1.01	1.71	1.71	1.71	3.61	5.41	4.47	10.03	10.03	7.95	9.88	18.27	31.04	32.95	19.38	57.24
Rasuwa	0.88	1.26	1	1.74	1.74	1.74	4.33	9.60	7.91	13.09	13.09	22.78	19.15	29.21	35.62	57.55	31.62	76.24	0.88	1.26	1	1.74	1.74	1.74	4.33	9.60	7.91	13.09	13.09	22.78	19.15	29.21	35.62	57.55	31.62	76.24
Rautahat	0.85	1.16	1.05	1.76	1.76	1.76	2.64	9.68	6.73	11.21	11.21	12.78	8.74	13.96	31.53	38.96	27.07	55.85	0.85	1.16	1.05	1.76	1.76	1.76	2.64	9.68	6.73	11.21	11.21	12.78	8.74	13.96	31.53	38.96	27.07	55.85
Rolpa	0.98	1.38	1.11	1.90	1.90	1.90	2.1	8.91	8.30	14.53	14.53	13.55	16.88	22.21	24.04	48.11	34.31	65.80	0.98	1.38	1.11	1.90	1.90	1.90	2.1	8.91	8.30	14.53	14.53	13.55	16.88	22.21	24.04	48.11	34.31	65.80
Rupandehi	0.92	1.23	1.10	1.89	1.89	1.89	0.23	7.48	5.56	8.85	8.85	12.61	8.19	12.31	18.94	33.88	30.78	47.67	0.92	1.23	1.10	1.89	1.89	1.89	0.23	7.48	5.56	8.85	8.85	12.61	8.19	12.31	18.94	33.88	30.78	47.67
Salyan	0.99	1.40	1.12	1.91	1.91	1.91	0.77	7.73	6.35	12.93	12.93	9.88	13.28	17.09	21.86	46.76	27.64	59.72	0.99	1.40	1.12	1.91	1.91	1.91	0.77	7.73	6.35	12.93	12.93	9.88	13.28	17.09	21.86	46.76	27.64	59.72
Sankhuwasabha	0.80	1.14	1	1.68	1.68	1.68	2.1	3.42	2.22	7.13	7.13	4.43	8.71	10.44	33.72	34.44	19.85	57.92	0.80	1.14	1	1.68	1.68	1.68	2.1	3.42	2.22	7.13	7.13	4.43	8.71	10.44	33.72	34.44	19.85	57.92
Saptari	0.85	1.22	1.06	1.79	1.79	1.79	3.26	4.57	3.76	7.87	7.87	2.36	5.17	8.69	33.47	30.53	22.50	57.08	0.85	1.22	1.06	1.79	1.79	1.79	3.26	4.57	3.76	7.87	7.87	2.36	5.17	8.69	33.47	30.53	22.50	57.08
Sarlahi	0.85	1.17	1.06	1.77	1.77	1.77	4.17	9.83	6.87	12.27	12.27	3.17	11.46	8.72	30.69	36.47	29.01	60.08	0.85	1.17	1.06	1.77	1.77	1.77	4.17	9.83	6.87	12.27	12.27	3.17	11.46	8.72	30.69	36.47	29.01	60.08
Sindhuli	0.83	1.17	1.04	1.75	1.75	1.75	4.63	7.53	6.06	11.87	11.87	7.53	6.06	11.87	30.98	31.76	22.82	58.66	0.83	1.17	1.04	1.75	1.75	1.75	4.63	7.53	6.06	11.87	11.87	7.53	6.06	11.87	30.98	31.76	22.82	58.66
Sindhupalchok	0.85	1.20	1.01	1.72	1.72	1.72	4.42	8.92	6.86	12.32	12.32	7.43	16.39	13.81	32.41	50.62	28.97	68.91	0.85	1.20	1.01	1.72	1.72	1.72	4.42	8.92	6.86	12.32	12.32	7.43	16.39	13.81	32.41	50.62	28.97	68.91
Siraha	0.86	1.23	1.07	1.80	1.80	1.80	4.46	5.86	4.87	9.45	9.45	2.55	5.35	8.94	33.58	30.70	21.70	57.10	0.86	1.23	1.07	1.80	1.80	1.80	4.46	5.86	4.87	9.45	9.45	2.55	5.35	8.94	33.58	30.70	21.70	57.10
Solukhumbu	0.82	1.16	1.01	1.69	1.69	1.69	2.84	4.96	3.76	8.87	8.87	5.76	9.94	10.93	32.02	37.73	20.83	58.65	0.82	1.16	1.01	1.69	1.69	1.69	2.84	4.96	3.76	8.87	8.87	5.76	9.94	10.93	32.02	37.73	20.83	58.65
Sunsari	0.83	1.19	1.04	1.75	1.75	1.75	2.49	3.58	2.68	6.59	6.59	2.55	5.26	9.38	32.97	31.21	22.35	55.82	0.83	1.19	1.04	1.75	1.75	1.75	2.49	3.58	2.68	6.59	6.59	2.55	5.26	9.38	32.97	31.21	22.35	55.82
Surkhet	1	1.42	1.13	1.91	1.91	1.91	0.11	7.87	6.89	13.96	13.96	9.77	11.92	16.30	18.48	42.16	27.24	56.45	1	1.42	1.13	1.91	1.91	1.91	0.11	7.87	6.89	13.96	13.96	9.77	11.92	16.30	18.48	42.16	27.24	56.45
Syangja	0.93	1.29	1.05	1.85	1.85	1.85	2.97	9.52	7.80	11.54	11.54	3.22	16.37	12.32	29.16	51.81	37.59	67.99	0.93	1.29	1.05	1.85	1.85	1.85	2.97	9.52	7.80	11.54	11.54	3.22	16.37	12.32	29.16	51.81	37.59	67.99
Tanahu	0.91	1.25	1.04	1.82	1.82	1.82	2.5	8.86	6.91	10.40	10.40	2.30	15.99	11.07	27.45	49.72	36.62	64.10	0.91	1.25	1.04	1.82	1.82	1.82	2.5	8.86	6.91	10.40	10.40	2.30	15.99	11.07	27.45	49.72	36.62	64.10
Taplejung	0.84	1.19	1.04	1.74	1.74	1.74	3.45	4.31	2.68	8.32	8.32	5.97	9.63	11.01	36.99	36.25	29.55	60.71	0.84	1.19	1.04	1.74	1.74	1.74	3.45	4.31	2.68	8.32	8.32	5.97	9.63	11.01	36.99	36.25	29.55	60.71
Terhathum	0.77	1.11	0.98	1.64	1.64	1.64	3	3.27	1.99	7.23	7.23	4.35	6.32	10.38	37.23	33.84	23.79	55.99	0.77	1.11	0.98	1.64	1.64	1.64	3	3.27	1.99	7.23	7.23	4.35	6.32	10.38	37.23	33.84	23.79	55.99
Udayapur	0.81	1.17	1.02	1.72	1.72	1.72	3.37	4.58	3.55	7.93	7.93	2.86	5.16	9.39	31.60	28.21	19.11	54.44	0.81	1.17	1.02	1.72	1.72	1.72	3.37	4.58	3.55	7.93	7.93	2.86	5.16	9.39	31.60	28.21	19.11	54.44
Rukum West	0.93	1.34	1.07	1.82	1.82	1.82	1.69	9.15	8.55	15.38	15.38	0.94	13.71	17.43	21.65	44.82	33.71	63.30	0.93	1.34	1.07	1.82	1.82	1.82	1.69	9.15	8.55	15.38	15.38	0.94	13.71	17.43	21.65	44.82	33.71	63.30

Code	B.6						B.7						B.8							
	Scenarios of consecutive wet days (%)						Scenarios of number of rainy days (%)						Scenarios of consecutive dry days (%)							
	RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2030s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2050s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2030s		RCP8.5 2050s	
MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019
Achham	-3.84	-2.07	-1.89	-1.89	-1.03	-1.03	-2.07	-2.07	-1.89	-1.03	-1.03	-0.17	-0.17	6.03	3.69	3.69	-3.24	-3.24	-2.51	-2.51
Arghakhachi	-5.50	-2.45	-1.48	-1.48	0.12	0.12	-2.45	-2.45	-1.48	0.12	0.12	-0.13	-0.13	11.35	6.89	6.89	1.09	1.09	1.68	1.68
Baglung	0.83	-1.44	-0.74	-0.74	-0.43	-0.43	-1.44	-1.44	-0.74	-0.43	-0.43	0.08	0.08	6.93	4.43	4.43	-0.39	-0.39	-3.74	-3.74
Baitadi	-3.60	-1.99	-1.72	-1.72	-0.93	-0.93	-1.99	-1.99	-1.72	-0.93	-0.93	-0.37	-0.37	5.36	3.02	3.02	-3.18	-3.18	-3.06	-3.06
Bajhang	-3.50	-1.99	-1.83	-1.83	-1.04	-1.04	-1.99	-1.99	-1.83	-1.04	-1.04	-0.75	-0.75	6.85	3.91	3.91	-3.20	-3.20	-3.93	-3.93
Bajura	-3.01	-2.03	-1.81	-1.81	-1.12	-1.12	-2.03	-2.03	-1.81	-1.12	-1.12	-0.71	-0.71	7.12	3.13	3.13	-3.10	-3.10	-3.50	-3.50
Banke	-3.27	-2.01	-1.10	-1.10	-0.40	-0.40	-2.01	-2.01	-1.10	-0.40	-0.40	0.15	0.15	7.46	3.70	3.70	-0.53	-0.53	-0.05	-0.05
Bara	-13.62	-1.97	-0.64	-0.64	-1.07	-1.07	-1.97	-1.97	-0.64	-1.07	-1.07	-1.23	-1.23	7.90	5.03	5.03	1.70	1.70	-0.17	-0.17
Bardiya	-4.41	-2.05	-0.97	-0.97	-0.22	-0.22	-2.05	-2.05	-0.97	-0.22	-0.22	0.75	0.75	5.94	3.93	3.93	-1.10	-1.10	-0.54	-0.54
Bhaktapur	-3.42	-1.62	-1.05	-1.05	-1.14	-1.14	-1.62	-1.62	-1.05	-1.14	-1.14	-0.86	-0.86	9.48	3.12	3.12	-3.86	-3.86	-2.32	-2.32
Bhojpur	-6.90	-1.15	-0.39	-0.39	-1.52	-1.52	-1.15	-1.15	-0.39	-1.52	-1.52	-0.89	-0.89	2.91	1.63	1.63	-1.18	-1.18	-1.58	-1.58
Chitwan	-11.34	-2.25	-1.17	-1.17	-0.62	-0.62	-2.25	-2.25	-1.17	-0.62	-0.62	-0.86	-0.86	9.43	6.18	6.18	-1.99	-1.99	0.68	0.68
Dadeldhura	-5.16	-2.22	-1.67	-1.67	-0.87	-0.87	-2.22	-2.22	-1.67	-0.87	-0.87	-0.18	-0.18	4.41	1.63	1.63	-2.40	-2.40	-2.48	-2.48
Daitikh	-1.66	-1.96	-1.61	-1.61	-1.06	-1.06	-1.96	-1.96	-1.61	-1.06	-1.06	0.13	0.13	7.71	4.63	4.63	-1.43	-1.43	-2.62	-2.62
Dang	-2.36	-2.07	-1.23	-1.23	-0.33	-0.33	-2.07	-2.07	-1.23	-0.33	-0.33	-0.29	-0.29	11.30	6.10	6.10	-0.43	-0.43	-0.49	-0.49
Darchula	-2.20	-1.90	-1.59	-1.59	-0.86	-0.86	-1.90	-1.90	-1.59	-0.86	-0.86	-0.61	-0.61	4.55	2.18	2.18	-4.25	-4.25	-5	-5
Dhading	-2.54	-1.55	-0.80	-0.80	-0.62	-0.62	-1.55	-1.55	-0.80	-0.62	-0.62	-0.53	-0.53	8.25	5.14	5.14	-2.18	-2.18	-3.47	-3.47
Dhankuta	-8.34	-0.78	-0.36	-0.36	-1.87	-1.87	-0.78	-0.78	-0.36	-1.87	-1.87	-1.3	-1.3	1.96	-0.39	-0.39	-0.95	-0.95	-1.78	-1.78
Dhanusa	-16.26	-1.57	-1.14	-1.14	-2.14	-2.14	-1.57	-1.57	-1.14	-2.14	-2.14	-1.61	-1.61	4.90	0.09	0.09	2.39	2.39	-0.35	-0.35
Dolakha	-2.17	-1.08	-0.59	-0.59	-1.58	-1.58	-1.08	-1.08	-0.59	-1.58	-1.58	-0.74	-0.74	1.58	-3.88	-3.88	-2.70	-2.70	-4.18	-4.18
Dolpa	0.77	-2.32	-1.39	-1.39	-0.80	-0.80	-2.32	-2.32	-1.39	-0.80	-0.80	-0.26	-0.26	4.43	1.19	1.19	-4.15	-4.15	-5.18	-5.18
Doti	-3.61	-2.06	-1.79	-1.79	-0.89	-0.89	-2.06	-2.06	-1.79	-0.89	-0.89	-0.17	-0.17	5.51	3.34	3.34	-3.23	-3.23	-2.92	-2.92
Rukum East	0.27	-2	-1.25	-1.25	-0.75	-0.75	-2	-2	-1.25	-0.75	-0.75	0.22	0.22	7.69	1.71	1.71	-3.70	-3.70	-4.55	-4.55
Gorkha	-1.29	-1.50	-0.77	-0.77	-0.36	-0.36	-1.50	-1.50	-0.77	-0.36	-0.36	-0.25	-0.25	4.96	3.54	3.54	-2.07	-2.07	-4.34	-4.34
Gulmi	-2.04	-1.90	-1.07	-1.07	-0.34	-0.34	-1.90	-1.90	-1.07	-0.34	-0.34	-0.17	-0.17	10.24	6.68	6.68	1.50	1.50	-2.14	-2.14
Humla	-5.55	-2.66	-1.61	-1.61	-0.79	-0.79	-2.66	-2.66	-1.61	-0.79	-0.79	-0.88	-0.88	6.68	0.36	0.36	-5.34	-5.34	-6.03	-6.03
Ilam	-3.34	-1.11	-0.23	-0.23	-1.54	-1.54	-1.11	-1.11	-0.23	-1.54	-1.54	-0.79	-0.79	1.94	-2.31	-2.31	-4.18	-4.18	-6.08	-6.08
Jajarkot	-0.34	-1.98	-1.66	-1.66	-1.09	-1.09	-1.98	-1.98	-1.66	-1.09	-1.09	-0.08	-0.08	8.87	4.55	4.55	-2.46	-2.46	-3.17	-3.17
Jhapa	-3.21	-1.11	-0.55	-0.55	-1.76	-1.76	-1.11	-1.11	-0.55	-1.76	-1.76	-1	-1	2.94	-0.79	-0.79	-1.41	-1.41	-5.52	-5.52

Code	B.6						B.7						B.8							
	Scenarios of consecutive wet days (%)						Scenarios of number of rainy days (%)						Scenarios of consecutive dry days (%)							
	RCP4.5 2030s	RCP4.5 2050s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP4.5 2050s	RCP4.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP4.5 2050s	RCP4.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP4.5 2050s	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s
Jumla	-0.46	-1.81	-1.50	-1.10	-1.10	-1.81	-1.1	-1.5	-1.1	-0.44	6.97	0.78	-5.24	-5.96						
Kailali	-3.49	-2.08	-1.39	-0.25	-0.25	-2.08	-0.25	-1.39	-0.25	0.58	5.20	2.70	-2.31	-1.55						
Kalikot	-1.76	-1.77	-1.71	-1.18	-1.18	-1.77	-1.18	-1.71	-1.18	-0.33	8.07	4.48	-4.11	-4.90						
Kanchanpur	-6.18	-2.54	-1.33	-0.34	-0.34	-2.54	-0.34	-1.33	-0.34	0.54	5.50	2.56	-2.42	-1.45						
Kapilbastu	-13.03	-2.91	-1.36	-0.45	-0.45	-2.91	-0.45	-1.36	-0.45	-0.5	12.66	8.27	0.34	3.69						
Kaski	-0.13	-1.61	-0.82	-0.22	-0.22	-1.61	-0.22	-0.82	-0.22	-0.04	5.43	3.56	-0.83	-3.63						
Kathmandu	-3.73	-1.55	-0.91	-1.11	-1.11	-1.55	-1.11	-0.91	-1.11	-0.78	10.53	3.88	-2.72	-2.75						
Kavrepalanchok	-9.33	-1.79	-1.09	-1.69	-1.69	-1.79	-1.09	-1.09	-1.34	-1.34	8.28	3.15	-0.67	0.15						
Khotang	-8.85	-0.87	-0.31	-1.86	-1.86	-0.87	-1.86	-0.31	-1.4	-1.4	2.01	-2.07	-0.28	-0.62						
Lalitpur	-11.59	-1.85	-0.85	-1.35	-1.35	-1.85	-1.35	-0.85	-1.19	-1.19	9.50	4.90	0.32	2.53						
Lamjung	-0.70	-1.63	-0.94	-0.38	-0.38	-1.63	-0.38	-0.94	-0.29	-0.29	5.43	4.61	-1.60	-4.31						
Mahottari	-16.75	-1.70	-1.11	-2.03	-2.03	-1.7	-2.03	-1.11	-1.46	-1.46	6.20	1.88	4.03	0.92						
Makawanpur	-13.72	-1.91	-0.76	-0.96	-0.96	-1.91	-0.96	-0.76	-1.05	-1.05	8.73	6.34	0.27	0.98						
Manang	1.66	-1.82	-0.94	-0.27	-0.27	-1.82	-0.27	-0.94	-0.1	-0.1	4.56	3.14	0.10	-1.77						
Morang	-5.91	-0.75	-0.52	-1.97	-1.97	-0.75	-1.97	-0.52	-1.34	-1.34	2.99	-0.66	-0.34	-4.86						
Mugu	-1.64	-2.35	-1.58	-0.91	-0.91	-2.35	-0.91	-1.58	-0.71	-0.71	5.84	-0.27	-6.61	-6.31						
Mustang	1.11	-2.26	-0.97	-0.41	-0.41	-2.26	-0.41	-0.97	0.18	0.18	2.62	1.90	0.20	-2.14						
Myagdi	1.47	-1.73	-0.87	-0.34	-0.34	-1.73	-0.34	-0.87	0.2	0.2	5.51	3.14	1.04	-2.31						
Bardahat Susta East	-10.61	-2.25	-1.13	-0.42	-0.42	-2.25	-1.13	-1.13	-0.58	-0.58	9.43	4.72	-2.23	0.26						
Nuwakot	-1.69	-1.38	-0.84	-1.05	-1.05	-1.38	-1.05	-0.84	-0.75	-0.75	9.32	4.34	-1.63	-3.46						
Okhaldhunga	-7.03	-0.79	-0.32	-1.85	-1.85	-0.79	-1.85	-0.32	-1.39	-1.39	2.75	-1.59	-0.47	-1.25						
Palpa	-2.79	-2.01	-1.16	-0.14	-0.14	-2.01	-0.14	-1.16	-0.21	-0.21	10.33	5.84	-1.82	-1.54						
Panchthar	-5.02	-1.18	-0.24	-1.44	-1.44	-1.18	-1.44	-0.24	-0.78	-0.78	4.09	-0.54	-2.68	-5.57						
Bardahat Susta West	-10.61	-2.25	-1.13	-0.42	-0.42	-2.25	-1.13	-1.13	-0.58	-0.58	9.43	4.72	-2.23	0.26						
Parbat	-1.27	-1.68	-1.02	-0.22	-0.22	-1.68	-0.22	-1.02	-0.14	-0.14	7.84	4.77	-0.46	-4.70						
Parsa	-13.74	-2.05	-0.63	-0.95	-0.95	-2.05	-0.63	-0.63	-1.44	-1.44	6.15	4.34	0.03	-0.24						
Pyuthan	-2.52	-2.04	-1.12	-0.45	-0.45	-2.04	-0.45	-1.12	-0.25	-0.25	11.16	6.01	0.36	-1.93						
Ramechhap	-5.50	-1.04	-0.54	-1.77	-1.77	-1.04	-1.77	-0.54	-1.09	-1.09	3.14	-2.23	-1.49	-2.48						
Rasuwa	-0.42	-1.16	-0.34	-0.52	-0.52	-1.16	-0.34	-0.34	-0.37	-0.37	4.17	1.13	-1.86	-4.35						

Code	B.6						B.7						B.8							
	Scenarios of consecutive wet days (%)						Scenarios of number of rainy days (%)						Scenarios of consecutive dry days (%)							
	RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2030s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2030s		RCP4.5 2030s		RCP4.5 2050s		RCP8.5 2030s		RCP8.5 2050s	
District	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019
Source	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019
Rautahat	-14.11	-1.97	-0.84	-1.23	-0.76	-1.23	-1.97	-0.84	-1.23	-0.76	-1.23	-0.84	-1.23	-0.76	-1.23	-0.84	-1.23	-0.76	-1.23	-0.76
Rolpa	-1.29	-1.70	-1.05	-0.76	-1.05	-0.76	-1.7	-1.05	-0.76	-1.05	-0.76	-1.7	-1.05	-0.76	-1.05	-0.76	-1.05	-0.76	-1.05	-0.76
Rupandehi	-13.48	-2.38	-0.96	-0.51	-0.51	-2.38	-2.38	-0.96	-0.51	-0.51	-2.38	-2.38	-0.96	-0.51	-0.51	-2.38	-2.38	-0.96	-0.51	-0.51
Salyan	-1.50	-1.66	-1.21	-0.75	-0.75	-1.66	-1.66	-1.21	-0.75	-0.75	-1.66	-1.66	-1.21	-0.75	-0.75	-1.66	-1.66	-1.21	-0.75	-0.75
Sankhuwasabha	0.16	-1.10	-0.17	-0.95	-0.95	-1.1	-1.1	-0.17	-0.95	-0.95	-1.1	-1.1	-0.17	-0.95	-0.95	-1.1	-1.1	-0.17	-0.95	-0.95
Saptari	-14.01	-1.07	-0.75	-2.31	-2.31	-1.07	-1.07	-0.75	-2.31	-2.31	-1.07	-1.07	-0.75	-2.31	-2.31	-1.07	-1.07	-0.75	-2.31	-2.31
Sarlahi	-15.76	-1.93	-1.20	-1.68	-1.68	-1.93	-1.93	-1.20	-1.68	-1.68	-1.93	-1.93	-1.20	-1.68	-1.68	-1.93	-1.93	-1.20	-1.68	-1.68
Sindhuli	-14.14	-1.43	-0.79	-1.85	-1.85	-1.43	-1.43	-0.79	-1.85	-1.85	-1.43	-1.43	-0.79	-1.85	-1.85	-1.43	-1.43	-0.79	-1.85	-1.85
Sindhupalchok	-2.63	-1.43	-0.70	-1.43	-1.43	-1.43	-1.43	-0.70	-1.43	-1.43	-1.43	-1.43	-0.70	-1.43	-1.43	-1.43	-1.43	-0.70	-1.43	-1.43
Siraha	-15.93	-1.30	-0.85	-2.24	-2.24	-1.3	-1.3	-0.85	-2.24	-2.24	-1.3	-1.3	-0.85	-2.24	-2.24	-1.3	-1.3	-0.85	-2.24	-2.24
Solukhumbu	-1.35	-1.08	-0.39	-1.26	-1.26	-1.08	-1.08	-0.39	-1.26	-1.26	-1.08	-1.08	-0.39	-1.26	-1.26	-1.08	-1.08	-0.39	-1.26	-1.26
Sunsari	-10.24	-0.89	-0.55	-2.04	-2.04	-0.89	-0.89	-0.55	-2.04	-2.04	-0.89	-0.89	-0.55	-2.04	-2.04	-0.89	-0.89	-0.55	-2.04	-2.04
Surkhet	-3.35	-1.88	-1.49	-0.69	-0.69	-1.88	-1.88	-1.49	-0.69	-0.69	-1.88	-1.88	-1.49	-0.69	-0.69	-1.88	-1.88	-1.49	-0.69	-0.69
Syangja	-0.66	-1.86	-1.26	-0.42	-0.42	-1.86	-1.86	-1.26	-0.42	-0.42	-1.86	-1.86	-1.26	-0.42	-0.42	-1.86	-1.86	-1.26	-0.42	-0.42
Tanahu	-0.88	-1.94	-1.29	-0.57	-0.57	-1.94	-1.94	-1.29	-0.57	-0.57	-1.94	-1.94	-1.29	-0.57	-0.57	-1.94	-1.94	-1.29	-0.57	-0.57
Taplejung	-1.09	-1.01	-0.18	-0.78	-0.78	-1.01	-1.01	-0.18	-0.78	-0.78	-1.01	-1.01	-0.18	-0.78	-0.78	-1.01	-1.01	-0.18	-0.78	-0.78
Terhathum	-5.17	-1.09	-0.30	-1.59	-1.59	-1.09	-1.09	-0.30	-1.59	-1.59	-1.09	-1.09	-0.30	-1.59	-1.59	-1.09	-1.09	-0.30	-1.59	-1.59
Udayapur	-12.85	-0.96	-0.42	-2.05	-2.05	-0.96	-0.96	-0.42	-2.05	-2.05	-0.96	-0.96	-0.42	-2.05	-2.05	-0.96	-0.96	-0.42	-2.05	-2.05
Rukum West	0.27	-2	-1.25	-0.75	-0.75	-2	-2	-1.25	-0.75	-0.75	-2	-2	-1.25	-0.75	-0.75	-2	-2	-1.25	-0.75	-0.75

Code	B.9						B.10						B.11					
	Scenarios of warm days (%)						Scenarios of warm nights (%)						Scenarios of warm spell duration (%)					
	RCP4.5 2030s	RCP4.5 2050s	MoFE, 2019	RCP8.5 2030s	RCP8.5 2050s	MoFE, 2019	RCP4.5 2030s	RCP4.5 2050s	MoFE, 2019	RCP8.5 2030s	RCP8.5 2050s	MoFE, 2019	RCP4.5 2030s	RCP4.5 2050s	MoFE, 2019	RCP8.5 2030s	RCP8.5 2050s	MoFE, 2019
Achham	6.35	9.17	6.29	6.39	10.89	9.63	7	10.34	9.55	13.03	91.34	135.13	96.72	155.51				
Arghakhachi	6.77	8.87	6.39	6.39	10.89	10.89	10.87	14.73	12.24	17.81	104.03	139.49	147.26	211.94				
Baglung	7	9.46	5.63	6.21	10.31	10.31	7.82	11	8.56	12.73	116.07	162.48	164.16	260.80				
Baitadi	6.23	8.93	6.21	6.21	9.50	9.50	7.20	10.60	9.76	13.33	90.78	132.30	94.50	151.37				
Bajhang	5.97	8.06	5.48	5.48	8.82	8.82	6.46	9.36	8	11.17	93.25	124.28	103.08	160.68				
Bajura	6.14	8.28	5.67	5.67	9.05	9.05	6.60	9.60	8.24	11.47	97.22	128.98	116.03	173.89				
Banke	5.37	7.65	5.82	5.82	9.42	9.42	9.76	13.46	12.19	17.62	75.24	110.89	92.38	149.88				
Bara	6.49	8.17	6.90	6.90	11.35	11.35	10.39	14.67	10.81	16.16	113.11	145.85	194.67	268.03				
Bardiya	5.54	8.06	5.69	5.69	9.14	9.14	7.93	11.45	11.30	15.60	73.86	107.61	92.91	150.01				
Bhaktapur	7.08	9.16	7.58	7.58	12.74	12.74	9.82	13.80	8.99	13.98	124.65	157.84	246.15	337.93				
Bhojpur	7.79	10.48	8.84	8.84	14.71	14.71	9.36	13.32	9.25	14.50	157.66	208.51	194.32	368.55				
Chitwan	6.84	8.53	7.06	7.06	11.70	11.70	10.42	14.64	11.13	16.79	122.33	154.18	245.54	324.59				
Dadeldhura	6.05	8.73	6.03	6.03	9.32	9.32	7.28	10.77	10.26	13.91	86.36	126.29	97.90	155.68				
Dailekh	6.37	9.19	6.26	6.26	9.63	9.63	6.95	10.26	9.41	12.85	91.07	135.11	95.86	154.81				
Dang	5.85	7.99	6.19	6.19	9.96	9.96	10.35	13.99	12.35	18.02	85.43	122.38	103.04	160.82				
Darchula	5.86	8.03	5.57	5.57	8.89	8.89	6.63	9.68	8.33	11.59	91.13	123.10	108.69	166.41				
Dhading	7.33	9.48	6.66	6.66	11.76	11.76	9.42	13.03	9.33	14.28	126.78	166.34	204.87	305				
Dhankuta	8.12	10.97	9.13	9.13	15.22	15.22	9.79	13.88	9.81	15.22	174.59	231.34	241.53	388.39				
Dhanusa	6.59	8.71	7.54	7.54	12.59	12.59	10.19	14.56	10.63	16.19	108.10	135.55	204.16	279.84				
Dolakha	6.71	9.28	7.63	7.63	12.90	12.90	8.84	12.54	8	13.01	121.04	165.66	226.55	344.10				
Dolpa	5.72	7.54	4.38	4.38	8.10	8.10	6.63	9.43	7.20	10.61	96.46	126.47	96.08	166.03				
Doti	6.35	9.15	6.25	6.25	9.59	9.59	6.94	10.26	9.60	13.05	91.91	135.78	97.22	156.36				
Rukum East	6.47	8.86	5.42	5.42	9.18	9.18	6.96	10.03	8.52	12.04	101.93	140.24	113.70	178.73				
Gorkha	6.43	8.56	5.57	5.57	9.98	9.98	7.72	10.80	7.57	11.73	109.27	148.42	157.65	250.70				
Gulmi	7.13	9.50	6.21	6.21	11.14	11.14	9.56	13.16	10.33	15.47	115.28	154.97	165.78	250.38				
Humla	5.52	7.53	4.96	4.96	8.56	8.56	6.43	9.32	7.54	10.65	85.48	112.66	103.26	165.03				
Ilam	7.95	11.19	9.87	9.87	15.73	15.73	9.83	13.91	10.16	15.72	169.74	238.94	278.50	429.77				
Jajarkot	6.41	8.92	5.80	5.80	9.22	9.22	6.80	9.92	8.77	12.11	99.07	138.07	103.54	162.80				
Jhapa	7.48	10.28	9.48	9.48	15.02	15.02	10.26	14.47	10.35	16.07	148.86	200.82	228.62	341.28				



Code	B.9						B.10						B.11					
	Scenarios of warm days (%)						Scenarios of warm nights (%)						Scenarios of warm spell duration (%)					
	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s	RCP8.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s	RCP8.5 MoFE, 2019	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP4.5 2050s	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP8.5 2050s
District																		
Source	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019
Jumla	6.18	8.23	5.26	8.76	8.76	8.76	6.59	9.54	8.12	11.37	11.37	98.99	129.66	129.66	108.96	108.96	168.39	168.39
Kailali	5.71	8.34	5.62	8.84	8.84	8.84	7.21	10.68	10.77	14.36	14.36	78.10	114.57	114.57	95.38	95.38	151.96	151.96
Kailikot	6.30	8.62	5.87	9.19	9.19	9.19	6.68	9.76	8.44	11.71	11.71	99.37	134.99	134.99	108.11	108.11	165.24	165.24
Kanchanpur	5.25	7.42	5.52	8.49	8.49	8.49	8.05	11.83	11.57	15.67	15.67	74.53	105.19	105.19	89.69	89.69	140.08	140.08
Kapilbastu	5.96	7.55	6.56	10.38	10.38	10.38	11.13	15.20	13.10	18.97	18.97	92.12	122.19	122.19	136.94	136.94	190.37	190.37
Kaski	6.67	9	5.37	9.91	9.91	9.91	7.40	10.51	7.65	11.61	11.61	113.84	158.29	158.29	188.67	188.67	288.92	288.92
Kathmandu	7.20	9.31	7.27	12.54	12.54	12.54	9.70	13.67	9.13	14.15	14.15	128.35	162.18	162.18	232.21	232.21	326.28	326.28
Kavrepalanchok	7.10	9.10	7.59	12.46	12.46	12.46	9.70	13.74	8.94	14.11	14.11	131.29	164.52	164.52	247.17	247.17	334.42	334.42
Khotang	7.65	10.30	8.51	14.31	14.31	14.31	9.38	13.29	9.19	14.43	14.43	147.12	192.87	192.87	196.06	196.06	343.54	343.54
Lalitpur	6.97	8.80	7.14	11.72	11.72	11.72	9.13	13.07	8.38	13.29	13.29	127.79	157.12	157.12	241.42	241.42	328.55	328.55
Lamjung	6.91	9.32	5.65	10.36	10.36	10.36	7.80	10.99	8.05	12.23	12.23	118.53	166.06	166.06	189.83	189.83	297.34	297.34
Mahottari	6.51	8.37	7.10	11.88	11.88	11.88	10.54	15.15	10.85	16.41	16.41	106.65	134.68	134.68	174.57	174.57	244.16	244.16
Makawanpur	6.93	8.68	6.97	11.57	11.57	11.57	9.85	13.87	9.93	15.15	15.15	127.05	159.72	159.72	196.03	196.03	284.33	284.33
Manang	5.59	7.40	4.37	8.08	8.08	8.08	6.14	8.85	5.93	9.28	9.28	97.89	129.02	129.02	138.57	138.57	214.31	214.31
Morang	7.63	10.36	8.93	14.94	14.94	14.94	10.22	14.49	10.37	15.98	15.98	144.70	194.86	194.86	219.01	219.01	334.83	334.83
Mugu	5.92	7.83	4.75	8.34	8.34	8.34	6.69	9.66	8.05	11.40	11.40	94.85	122.43	122.43	90.28	90.28	151.55	151.55
Mustang	5.63	7.43	4.43	8.18	8.18	8.18	6.37	9.11	6.48	9.89	9.89	97.66	127.93	127.93	112.41	112.41	189.22	189.22
Myagdi	6.27	8.36	4.96	9.06	9.06	9.06	6.59	9.49	7.16	10.71	10.71	104.59	143.98	143.98	151.03	151.03	237.18	237.18
Bardahat Susta East	6.78	8.45	7.01	11.56	11.56	11.56	10.66	14.92	11.51	17.24	17.24	116.31	146.88	146.88	267.83	267.83	340.29	340.29
Nuwakot	7.33	9.64	6.89	12.30	12.30	12.30	9.62	13.39	9.29	14.27	14.27	129.83	171.54	171.54	226.27	226.27	321.76	321.76
Okhaldhunga	7.09	9.58	8.38	13.66	13.66	13.66	9.14	12.93	8.64	13.78	13.78	129.30	170.51	170.51	226.67	226.67	337.89	337.89
Palpa	7.31	9.21	6.90	11.84	11.84	11.84	10.44	14.61	11.18	16.85	16.85	117.87	147.61	147.61	227.52	227.52	303.92	303.92
Panchthar	8.13	11.40	9.94	16	16	16	9.72	13.77	9.92	15.44	15.44	171.94	245.52	245.52	257.75	257.75	449.49	449.49
Bardahat Susta West	6.78	8.45	7.01	11.56	11.56	11.56	10.66	14.92	11.51	17.24	17.24	116.31	146.88	146.88	267.83	267.83	340.29	340.29
Parbat	7.29	9.77	6.08	11.15	11.15	11.15	8.95	12.45	9.35	14.15	14.15	119.79	167.32	167.32	192.05	192.05	292.87	292.87
Parsa	6.45	8.03	7.02	11.39	11.39	11.39	10.45	14.70	11.09	16.64	16.64	113.81	146.23	146.23	269.77	269.77	337.50	337.50
Pyuthan	6.76	9.35	6.06	10.48	10.48	10.48	9.74	13.19	11.03	16	16	100.21	141.95	141.95	121.21	121.21	195.59	195.59
Ramechhap	6.75	9.13	7.94	12.99	12.99	12.99	9.01	12.76	8.28	13.35	13.35	121.95	162.90	162.90	229.41	229.41	335.91	335.91
Rasuwa	6.09	8.36	5.41	9.94	9.94	9.94	7.48	10.33	6.95	11.09	11.09	104.86	150.58	150.58	167.29	167.29	274.85	274.85

Code	B.9 Scenarios of warm days (%)						B.10 Scenarios of warm nights (%)						B.11 Scenarios of warm spell duration (%)					
	RCP4.5 2030s		RCP8.5 2030s		RCP8.5 2050s		RCP4.5 2030s		RCP8.5 2030s		RCP8.5 2050s		RCP4.5 2030s		RCP8.5 2030s		RCP8.5 2050s	
	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019
Rautahat	6.43	8.16	6.67	11.03	10.28	14.63	10.58	15.87	113.97	145.88	170.94	238.11						
Rolpa	6.68	9.56	5.78	9.88	8.01	11.24	9.90	14.10	102.89	148.92	104.66	178.20						
Rupandehi	6.29	7.82	6.67	10.90	10.89	15.23	12.27	18.05	105.50	132.94	193.91	257.38						
Salyan	6.27	9.12	5.78	9.49	7.62	11	10.20	14.30	86.34	129.53	97.38	163.28						
Sankhuwasabha	7.61	10.61	8.52	14.69	9.15	12.95	8.58	13.75	147.87	207.53	195.18	384.45						
Saptari	7.02	9.37	7.98	13.49	10.07	14.37	10.53	16.02	116.89	153.27	213.97	302.86						
Sarlahi	6.56	8.37	6.95	11.50	10.35	14.70	10.43	15.80	113.38	144.41	179.74	248.32						
Sindhuli	7.01	9.21	7.74	12.76	9.69	13.72	9.36	14.64	122.63	158.99	213.83	301.27						
Sindhupalchok	6.91	9.44	7.17	12.50	9.06	12.68	8.48	13.35	120.27	165.18	236.89	343.72						
Siraha	6.78	9.08	7.79	13.05	9.97	14.20	10.42	15.88	109.45	141.91	210.79	292.37						
Solukhumbu	6.57	9.05	7.27	12.51	8.37	11.95	7.59	12.51	121.08	165.67	177.01	302.34						
Sunsari	7.51	10	8.48	14.31	10.07	14.36	10.43	15.95	137.65	181.28	211.23	320.63						
Surkhet	6.11	8.98	5.91	9.35	7.10	10.50	10.04	13.63	85.95	128.45	96.15	157.08						
Syangja	7.40	9.73	6.51	11.72	9.95	13.80	10.22	15.61	121.05	160.04	201.96	291.28						
Tanahu	7.49	9.76	6.83	12.13	10.41	14.48	10.60	16.22	125.66	163.82	217.15	305.11						
Taplejung	7.32	10.49	8.40	14.39	8.95	12.60	8.29	13.48	144.06	210.40	175.38	387.15						
Terhathum	8.30	11.45	9.80	16.03	9.71	13.77	9.83	15.31	175.89	246.28	258.83	439.13						
Udayapur	7.50	10.05	8.33	14.06	9.74	13.84	9.84	15.22	139.32	183.65	231.07	338.28						
Rukum West	6.47	8.86	5.42	9.18	6.96	10.03	8.52	12.04	101.93	140.24	113.70	178.73						

Code	B.12						B.13						B.14					
	Scenarios of cold days (%)						Scenarios of cold nights (%)						Scenarios of cold spell duration (%)					
	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP4.5 2050s	RCP8.5 2050s	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP4.5 2050s	RCP8.5 2050s	RCP4.5 2030s	RCP4.5 MoFE, 2019	RCP8.5 2030s	RCP8.5 MoFE, 2019	RCP4.5 2050s	RCP8.5 2050s
Achham	-4.67	-6.02	-5.19	-6.79	-4.52	-5.80	-5.14	-7.04	-7.04	-60.00	-67.17	-61.38	-80.23	-80.23	-61.38	-67.17	-61.38	-80.23
Arghakhachi	-4.21	-5.19	-5.35	-7.08	-4.38	-5.65	-4.58	-6.19	-6.19	-52.57	-63.46	-63.93	-81.69	-81.69	-63.93	-63.46	-63.93	-81.69
Baglung	-4.30	-5.51	-5.30	-7.01	-4.18	-5.17	-4.14	-5.88	-5.88	-51.40	-62.12	-49.87	-70.09	-70.09	-49.87	-62.12	-49.87	-70.09
Baitadi	-4.62	-5.88	-4.83	-6.42	-4.57	-5.75	-5.05	-6.96	-6.96	-59.93	-67.64	-70.83	-90.75	-90.75	-70.83	-67.64	-70.83	-90.75
Bajhang	-4.72	-6.12	-4.81	-6.45	-4.56	-5.63	-5.23	-7.06	-7.06	-60.14	-68.04	-72.72	-92.16	-92.16	-72.72	-68.04	-72.72	-92.16
Bajura	-4.75	-6.14	-4.89	-6.54	-4.54	-5.64	-5.31	-7.16	-7.16	-60.21	-68.03	-72.51	-91.73	-91.73	-72.51	-68.03	-72.51	-91.73
Banke	-4.65	-5.66	-5.08	-6.78	-4.72	-5.93	-5.57	-7.29	-7.29	-63.29	-69.15	-76.82	-91.33	-91.33	-76.82	-69.15	-76.82	-91.33
Bara	-3.32	-3.75	-4.80	-6.26	-3.28	-5.06	-4.55	-6.00	-6.00	-44.68	-62.44	-57.82	-75.37	-75.37	-57.82	-62.44	-57.82	-75.37
Bardiya	-4.74	-6.02	-5.48	-7.14	-4.67	-5.94	-5.33	-7.15	-7.15	-62.71	-69.58	-72.44	-89.71	-89.71	-72.44	-69.58	-72.44	-89.71
Bhaktapur	-3.62	-4.18	-4.94	-6.54	-3.88	-5.37	-4.72	-6.11	-6.11	-48.10	-60.97	-66.21	-84.82	-84.82	-66.21	-60.97	-66.21	-84.82
Bhojpur	-3.62	-4.40	-4.67	-6.07	-3.85	-5.28	-3.97	-5.41	-5.41	-44.60	-60.40	-43.07	-59.48	-59.48	-43.07	-60.40	-43.07	-59.48
Chitwan	-3.65	-4.24	-5.07	-6.62	-3.68	-5.42	-4.27	-5.81	-5.81	-47.45	-64.48	-61.72	-80.39	-80.39	-61.72	-64.48	-61.72	-80.39
Dadeldhura	-4.68	-5.93	-5.08	-6.66	-4.54	-5.78	-4.91	-6.80	-6.80	-59.92	-67.40	-61.97	-81.18	-81.18	-61.97	-67.40	-61.97	-81.18
Dailekh	-4.71	-6.08	-5.43	-7.04	-4.53	-5.82	-5.05	-6.94	-6.94	-59.78	-67.15	-61.02	-79.82	-79.82	-61.02	-67.15	-61.02	-79.82
Dang	-4.42	-5.41	-5.09	-6.83	-4.61	-5.84	-5.46	-7.13	-7.13	-59.18	-67.45	-75.19	-90.20	-90.20	-75.19	-67.45	-75.19	-90.20
Darchula	-4.73	-6.15	-4.76	-6.41	-4.61	-5.71	-5.07	-6.90	-6.90	-60.57	-68.57	-72.68	-92.06	-92.06	-72.68	-68.57	-72.68	-92.06
Dhading	-4.12	-5.01	-5.13	-6.83	-4.02	-5.42	-4.27	-5.84	-5.84	-50.06	-63.70	-58.27	-77.15	-77.15	-58.27	-63.70	-58.27	-77.15
Dhankuta	-3.64	-4.44	-4.75	-6.14	-3.80	-5.35	-3.81	-5.33	-5.33	-44.82	-62.11	-23.09	-37.59	-37.59	-23.09	-62.11	-23.09	-37.59
Dhanusa	-3.58	-4.33	-4.91	-6.27	-3.53	-4.93	-4.21	-5.73	-5.73	-41.57	-57.25	-24.63	-41.52	-41.52	-24.63	-57.25	-24.63	-41.52
Dolakha	-3.84	-4.72	-4.68	-6.14	-3.97	-5.11	-4.39	-5.66	-5.66	-44.68	-56.36	-49.78	-66.11	-66.11	-49.78	-56.36	-49.78	-66.11
Dolpa	-4.48	-5.83	-5.22	-6.94	-4.47	-5.49	-4.77	-6.49	-6.49	-53.88	-63.12	-58.60	-78.55	-78.55	-58.60	-63.12	-58.60	-78.55
Doti	-4.64	-5.98	-5.08	-6.67	-4.54	-5.76	-5.00	-6.86	-6.86	-60.06	-67.56	-62.63	-81.60	-81.60	-62.63	-67.56	-62.63	-81.60
Rukum East	-4.55	-5.90	-5.29	-6.98	-4.64	-5.85	-5.22	-6.99	-6.99	-55.81	-65.90	-61.34	-80.08	-80.08	-61.34	-65.90	-61.34	-80.08
Gorkha	-4.26	-5.42	-4.94	-6.62	-4.15	-5.28	-4.07	-5.73	-5.73	-49.78	-62.27	-46.87	-67.12	-67.12	-46.87	-62.27	-46.87	-67.12
Gulmi	-4.32	-5.40	-5.51	-7.26	-4.07	-5.25	-4.01	-5.68	-5.68	-49.32	-62.21	-53.66	-73.24	-73.24	-53.66	-62.21	-53.66	-73.24
Humla	-4.87	-6.38	-5.14	-6.92	-4.77	-5.94	-5.16	-6.94	-6.94	-62.35	-71.07	-74.43	-92.72	-92.72	-74.43	-71.07	-74.43	-92.72
Ilam	-3.66	-4.49	-4.66	-6.04	-3.70	-5.40	-3.71	-5.40	-5.40	-43.26	-63.71	-7.41	-22.08	-22.08	-63.71	-43.26	-63.71	-22.08
Jejarkot	-4.70	-6.09	-5.32	-6.97	-4.55	-5.79	-5.23	-7.08	-7.08	-58.60	-67.91	-64.22	-83.62	-83.62	-67.91	-58.60	-67.91	-83.62
Jhapa	-3.68	-4.54	-4.89	-6.27	-3.58	-5.30	-3.47	-5.16	-5.16	-42.64	-63.48	-2.95	-17.59	-17.59	-63.48	-42.64	-63.48	-17.59
Jumla	-4.74	-6.17	-5.14	-6.82	-4.53	-5.70	-5.46	-7.27	-7.27	-57.89	-68.10	-71.93	-90.84	-90.84	-71.93	-68.10	-71.93	-90.84
Kailali	-4.69	-6.04	-5.44	-7.01	-4.56	-5.86	-5.01	-6.87	-6.87	-61.50	-68.44	-67.75	-86.58	-86.58	-67.75	-68.44	-67.75	-86.58
Kailikot	-4.72	-6.09	-5.08	-6.72	-4.51	-5.64	-5.31	-7.18	-7.18	-59.56	-67.63	-68.90	-88.30	-88.30	-67.63	-59.56	-67.63	-88.30
Kanchanpur	-4.72	-5.78	-5.22	-6.75	-4.52	-5.83	-4.86	-6.79	-6.79	-61.13	-68.16	-66.22	-86.47	-86.47	-68.16	-61.13	-66.22	-86.47
Kapilbastu	-3.76	-4.45	-4.90	-6.52	-3.88	-5.34	-4.44	-6.04	-6.04	-49.95	-63.44	-63.38	-82.23	-82.23	-63.44	-49.95	-63.38	-82.23
Kaski	-4.22	-5.43	-5.06	-6.79	-4.08	-5.08	-4.04	-5.77	-5.77	-48.89	-60.59	-49.84	-70.92	-70.92	-49.84	-60.59	-49.84	-70.92
Kathmandu	-3.79	-4.39	-5.06	-6.69	-4.02	-5.45	-4.69	-6.11	-6.11	-48.85	-61.75	-65.36	-84.10	-84.10	-61.75	-48.85	-61.75	-84.10
Kavrepalanchok	-3.58	-4.12	-4.98	-6.51	-3.67	-5.27	-4.67	-6.05	-6.05	-43.99	-61.03	-66.03	-82.87	-82.87	-61.03	-43.99	-66.03	-82.87
Khotang	-3.62	-4.42	-4.74	-6.16	-3.76	-5.17	-3.80	-5.23	-5.23	-43.42	-59.81	-46.78	-63.54	-63.54	-59.81	-43.42	-46.78	-63.54
Lalitpur	-3.40	-3.79	-4.90	-6.42	-3.54	-5.23	-4.73	-6.09	-6.09	-43.94	-61.09	-65.72	-83.42	-83.42	-61.09	-43.94	-65.72	-83.42

Code	B.12 Scenarios of cold days (%)						B.13 Scenarios of cold nights (%)						B.14 Scenarios of cold spell duration (%)					
	RCP4.5 2030s		RCP8.5 2030s		RCP8.5 2050s		RCP4.5 2030s		RCP8.5 2030s		RCP8.5 2050s		RCP4.5 2030s		RCP8.5 2030s		RCP8.5 2050s	
	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019	MoFE, 2019
Lamjung	-4.25	-5.43	-4.88	-4.88	-6.61	-6.61	-4.11	-5.18	-3.96	-5.67	-5.67	-48.41	-61.37	-56.11	-76.25			
Mahottari	-3.55	-4.20	-4.85	-4.85	-6.27	-6.27	-3.45	-5.01	-4.32	-5.83	-5.83	-41.06	-58.44	-18.47	-35.78			
Makawanpur	-3.47	-3.93	-4.98	-4.98	-6.51	-6.51	-3.46	-5.25	-4.63	-6.09	-6.09	-45.59	-62.80	-64.41	-81.91			
Manang	-4.23	-5.50	-4.92	-4.92	-6.63	-6.63	-4.17	-5.20	-3.62	-6.05	-6.05	-50.58	-61.23	-56.25	-77.23			
Morang	-3.69	-4.55	-4.87	-4.87	-6.27	-6.27	-3.68	-5.23	-3.60	-5.23	-5.23	-43.74	-62.34	-11.51	-25.15			
Mugu	-4.76	-6.23	-5.23	-5.23	-6.95	-6.95	-4.59	-5.76	-5.56	-7.28	-7.28	-57.87	-67.42	-72.53	-91.29			
Mustang	-4.25	-5.53	-5.01	-5.01	-6.73	-6.73	-4.16	-5.18	-4.15	-5.87	-5.87	-49.69	-60.60	-50.86	-71.68			
Myagdi	-4.21	-5.42	-5.00	-5.00	-6.70	-6.70	-4.11	-5.03	-4.04	-5.80	-5.80	-49.33	-59.61	-47.55	-68.38			
Bardahat Susta East	-3.66	-4.28	-5.03	-5.03	-6.58	-6.58	-3.68	-5.37	-4.17	-5.72	-5.72	-47.16	-63.70	-61.89	-80.44			
Nuwakot	-4.12	-4.95	-5.08	-5.08	-6.82	-6.82	-3.99	-5.31	-4.41	-5.90	-5.90	-48.29	-60.49	-60.22	-79.07			
Okhaldhunga	-3.64	-4.44	-4.83	-4.83	-6.23	-6.23	-3.73	-5.16	-4.04	-5.46	-5.46	-42.80	-59.18	-46.13	-62.37			
Palpa	-4.02	-4.83	-5.26	-5.26	-6.92	-6.92	-3.98	-5.42	-4.06	-5.62	-5.62	-47.46	-62.57	-54.77	-73.49			
Panchthar	-3.67	-4.50	-4.62	-4.62	-6.02	-6.02	-3.76	-5.44	-3.89	-5.56	-5.56	-43.73	-63.65	-13.36	-27.40			
Bardahat Susta West	-3.66	-4.28	-5.03	-5.03	-6.58	-6.58	-3.68	-5.37	-4.17	-5.72	-5.72	-47.16	-63.70	-61.89	-80.44			
Parbat	-4.28	-5.39	-5.26	-5.26	-7.03	-7.03	-3.93	-5.02	-3.84	-5.48	-5.48	-47.70	-60.76	-46.25	-66.60			
Parsa	-3.39	-3.88	-4.87	-4.87	-6.35	-6.35	-3.37	-5.20	-4.37	-5.92	-5.92	-45.44	-63.48	-58.49	-77.69			
Pyuthan	-4.38	-5.62	-5.55	-5.55	-7.29	-7.29	-4.68	-5.88	-5.04	-6.76	-6.76	-56.36	-66.23	-66.75	-84.60			
Ramechhap	-3.76	-4.54	-4.80	-4.80	-6.24	-6.24	-3.84	-5.23	-4.28	-5.68	-5.68	-44.30	-59.29	-50.23	-66.38			
Rasuwa	-4.28	-5.35	-4.78	-4.78	-6.42	-6.42	-4.17	-5.22	-4.09	-5.59	-5.59	-50.00	-61.64	-46.84	-64.80			
Rautahat	-3.28	-3.67	-4.75	-4.75	-6.15	-6.15	-3.28	-4.91	-4.40	-5.81	-5.81	-42.90	-60.22	-40.32	-58.10			
Rolpa	-4.55	-5.94	-5.69	-5.69	-7.42	-7.42	-4.67	-5.96	-5.42	-7.16	-7.16	-56.34	-67.51	-66.17	-84.27			
Rupandehi	-3.57	-4.14	-4.95	-4.95	-6.47	-6.47	-3.57	-5.29	-4.09	-5.62	-5.62	-47.10	-63.82	-61.43	-80.19			
Salyan	-4.77	-6.11	-5.64	-5.64	-7.37	-7.37	-4.59	-5.89	-5.33	-7.16	-7.16	-60.94	-69.88	-72.04	-89.67			
Sankhuwasabha	-3.84	-4.66	-4.41	-4.41	-5.85	-5.85	-4.00	-5.37	-4.35	-5.77	-5.77	-47.38	-61.35	-38.77	-54.07			
Saptari	-3.63	-4.41	-4.87	-4.87	-6.24	-6.24	-3.61	-4.94	-4.01	-5.53	-5.53	-42.36	-57.90	4.22	-10.62			
Sarlahi	-3.41	-3.88	-4.79	-4.79	-6.22	-6.22	-3.37	-5.12	-4.41	-5.85	-5.85	-42.63	-59.58	-41.98	-62.07			
Sindhuli	-3.63	-4.30	-4.92	-4.92	-6.36	-6.36	-3.58	-5.12	-4.29	-5.73	-5.73	-41.91	-58.95	-38.99	-54.26			
Sindhupalchok	-4.05	-4.89	-4.86	-4.86	-6.43	-6.43	-4.15	-5.26	-4.37	-5.69	-5.69	-48.88	-60.13	-54.67	-71.49			
Siraha	-3.60	-4.38	-4.86	-4.86	-6.22	-6.22	-3.54	-4.85	-4.08	-5.59	-5.59	-41.87	-56.81	-4.57	-20.83			
Solukhumbu	-3.89	-4.73	-4.34	-4.34	-5.79	-5.79	-4.02	-5.18	-4.29	-5.57	-5.57	-45.52	-58.08	-57.13	-76.70			
Sunsari	-3.69	-4.51	-4.89	-4.89	-6.28	-6.28	-3.68	-5.08	-3.66	-5.14	-5.14	-42.75	-59.57	-17.52	-31.71			
Surkhet	-4.72	-6.10	-5.58	-5.58	-7.19	-7.19	-4.54	-5.85	-5.09	-6.97	-6.97	-60.76	-68.01	-63.02	-81.08			
Syangja	-4.28	-5.27	-5.34	-5.34	-7.11	-7.11	-3.93	-5.20	-3.90	-5.49	-5.49	-46.90	-61.41	-45.85	-66.11			
Tanahu	-4.21	-5.12	-5.37	-5.37	-7.10	-7.10	-3.97	-5.34	-4.01	-5.59	-5.59	-47.33	-62.31	-59.94	-79.20			
Taplejung	-3.85	-4.68	-4.19	-4.19	-5.60	-5.60	-3.94	-5.50	-4.22	-5.81	-5.81	-45.60	-63.65	-62.07	-81.20			
Terhathum	-3.67	-4.48	-4.66	-4.66	-6.06	-6.06	-3.84	-5.47	-4.02	-5.66	-5.66	-45.57	-63.74	-24.83	-39.49			
Udayapur	-3.66	-4.48	-4.89	-4.89	-6.28	-6.28	-3.64	-5.03	-3.76	-5.20	-5.20	-42.36	-58.60	-28.43	-43.72			
Rukum West	-4.55	-5.90	-5.29	-5.29	-6.98	-6.98	-4.64	-5.85	-5.22	-6.99	-6.99	-55.81	-65.90	-61.34	-80.08			

## C. Impacts/L&D from climate extreme events and climate-induced disasters

Code	Indicators	Source	Data
C.1	Number of deaths, missing people attributed to climate induced disaster (No.)	MoHA, 2020	607
C.2	Injuries due to climate induced disasters (No.)	MoHA, 2020	937
C.3	Loss of private properties (buildings, lands) due to climate induced disasters (NPR)	MoHA, 2020	3143
C.4	Governmental houses damaged due to climate induced disasters (No.)	MoHA, 2020	12
C.5	Total direct economic loss to climate induced disasters as a proportion of DGP (NPR)	MoHA, 2020	17503860
C.16	Food insecure populations (severe) (%)	SOFI-2022, FAO	5.5
C.30	Number of potentially dangerous glacial lakes (No.)	ICIMOD, 2020	47
C.36	Fatalities and injuries due to heat and cold waves (No.)	MoHA, 2020	0

Code	C.34	C.35
District	Vector borne diseases (2005-2018) (No.)	Water borne diseases (2005-2018) (No.)
Source	MoFE, 2021d	MoFE, 2021d
Achham	904	1725936
Arghakhachi	337	659772
Baglung	20	772312
Baitadi	370	1216062
Bajhang	260	1051206
Bajura	183	1246659
Banke	1297	1196888
Bara	1659	1207749
Bardiya	1774	1218303
Bhaktapur	461	490985
Bhojpur	280	910122
Chitwan	2153	901989
Dadeldhura	874	1105760
Dailekh	141	1666249
Dang	703	1094475
Darchula	18	768742
Dhading	675	1013858
Dhankuta	156	676355
Dhanusa	2964	1348740
Dolakha	355	983302
Dolpa	34	465917
Doti	247	1168003
Rukum East	74	546608
Gorkha	71	843372
Gulmi	171	896424
Humla	33	1282272
Ilam	319	535530
Jajarkot	160	987334
Jhapa	5877	1209645
Jumla	106	921751
Kailali	7521	1177021
Kalikot	139	884084
Kanchanpur	4430	1094777
Kapilbastu	3285	1366448
Kaski	489	823335
Kathmandu	2249	981522
Kavrepalanchok	532	1004111
Khotang	116	884487
Lalitpur	484	486567
Lamjung	165	820907
Mahottari	2567	1129542
Makawanpur	1094	793984
Manang	6	556287
Morang	4474	1198899
Mugu	45	524672
Mustang	1	556236
Myagdi	57	796039
Bardahat Susta East	933	707698
Nuwakot	1094	725353
Okhaldhunga	204	1095611
Palpa	737	844727
Panchthar	586	726540
Bardahat Susta West	480	364572
Parbat	93	640673

Code	C.34	C.35
District	Vector borne diseases (2005-2018) (No.)	Water borne diseases (2005-2018) (No.)
Source	MoFE, 2021d	MoFE, 2021d
Parsa	805	689831
Pyuthan	156	996536
Ramechhap	102	896507
Rasuwa	21	921620
Rautahat	1373	1337406
Rolpa	100	1100975
Rupandehi	1901	1077086
Salyan	114	1080699
Sankhuwasabha	167	558777
Saptari	1118	1671816
Sarlahi	3713	1237025
Sindhuli	918	726690
Sindhupalchok	504	852648
Siraha	2374	1523162
Solukhumbu	206	844903
Sunsari	947	1208013
Surkhet	551	1390775
Syangja	127	764220
Tanahu	173	539081
Taplejung	98	888020
Terhathum	105	653310
Udayapur	939	780308
Rukum West	53	395819

## D. Exposure

Code	Indicators	Source	Data
D.3	Area under cash crops (Ha)	Agri stat, 2019/20	522,494
D.4	Area under pulses (Ha)	Agri stat, 2019/20	340,692
D.10	Protected area (Km2)	DNPWC, 2022	34425.64
D.12	Area of Wetland (Ha)	NTB, 2022	743,500
D.13	Watershed area (Km2)	WECS, 2005	145,723
D.18	Area of Glacier (Km2)	ICIMOD, 2011	4,212



Code	D.1	D.2	D.5	D.6	D.7	D.8	D.9
District	Total area of agriculture land (Ha)	Area under cereal crops (Ha)	Potential irrigable land (Km2)	Total livestock (No.)	No. Of poultry farm (No.)	No. Of fish farms and ponds (No.)	Total forest area (Ha)
Source	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021i
Achham	15,936.10	40,709	452.28	286,330	0	0	108910
Arghakhachi	16,794.90	30,567	52.98	696,579	120	63	73960
Baglung	18,357.60	52,192	486.19	613,901	279	41	92670
Baitadi	13,735.00	43,378	342.04	335,612	25	0	93180
Bajhang	10,149.00	27,568	202.14	333,002	18	5	155360
Bajura	7,598.00	13,992	185.99	255,059	0	12	135230
Banke	41,652.40	61,172	305.14	1,968,513	431	1,357	117910
Bara	53,838.10	100,391	576.60	1,060,670	342	4,290	46630
Bardiya	44,411.60	69,580	218.37	1,047,781	491	1,955	113690
Bhaktapur	5,220.20	8,278	84	2,734,662	242	44	2470
Bhojpur	25,006.20	59,804	484	641,988	29	10	73720
Chitwan	35,745.40	38,926	331.82	30,292,006	1,923	2,415	147490
Dadeldhura	10,231.50	19,781	154.11	324,163	30	0	113310
Dailekh	18,978.00	49,795	498.28	637,060	87	80	78160
Dang	55,735.40	73,246	577.72	3,759,072	1,056	1,285	200720
Darchula	12,666.00	19,053	170.54	220,603	9	0	107750
Dhading	31,608.30	46,368	476.90	2,145,006	931	216	92740
Dhankuta	19,058.20	29,730	238.04	1,003,665	136	10	37020
Dhanusha	66,873.60	102,872	798.10	1,038,572	173	2,442	27150
Dolakha	24,024.90	17,792	423.31	737,980	211	15	107840
Dolpa	3,328.80	6,576	29.66	157,182	0	0	121610
Doti	15,008.30	30,689	323.55	426,461	45	6	153000
Rukum East	9,272.75	16,560	44.16	235,652	0	0	66250
Gorkha	27,677.10	45,743	528.41	945,073	209	201	132110
Gulmi	19,451.30	42,662	233.99	525,059	0	129	46340
Humla	4,964.90	4,205	58.61	135,427	0	2	127660
Ilam	29,134.10	52,169	433.21	874,703	150	154	94520
Jajarkot	13,435.70	33,517	257.16	439,346	0	0	134480
Jhapa	93,230.50	134,552	881.36	2,073,756	562	1,970	17710
Jumla	6,143.00	16,611	83.57	257,912	0	0	121330
Kailali	62,196.10	110,285	480.54	1,942,485	577	1,513	200570
Kalikot	12,513.00	12,658	157.95	222,176	0	0	115790
Kanchanpur	41,465.30	82,464	288.11	1,358,596	409	1,018	78800
Kapilbastu	60,524.90	95,749	925.48	1,463,519	220	1,117	60960
Kaski	19,199.90	55,525	517.52	3,086,606	784	248	93440
Kathmandu	8,569.70	15,191	217.44	850,135	533	112	15280
Kavrepalanchok	30,406.60	48,617	213.22	2,416,092	1,078	120	75310
Khotang	26,077.90	84,656	554.89	660,368	22	63	74930
Lalitpur	7,020.80	16,621	95.97	897,038	3,767	75	24460
Lamjung	15,113.10	33,698	368.04	503,260	201	154	92060
Mahottari	59,649.40	74,138	628.33	721,726	264	2,010	22240
Makawanpur	29,103.20	44,530	386.80	1,902,479	844	397	166530
Manang	367.00	639	6.44	19,165	0	0	27890
Morang	103,861.10	118,775	982.72	2,574,440	749	3,260	44510
Mugu	5,853.80	10,456	74.37	213,263	0	0	119680
Mustang	1,047.50	1,894	55.80	90,204	0	0	28490
Myagdi	10,476.90	19,122	294.25	382,231	139	43	108410
Bardahat Susta East	33,675.64	34,902	249.53	969,958	655	807	83540
Nuwakot	30,623.30	43,178	488.05	1,509,112	340	155	52040
Okhaldhunga	19,802.50	27,247	217.32	635,289	67	12	52750
Palpa	20,996.10	37,811	91.70	1,293,089	322	108	82770
Panchthar	17,836.00	35,181	270.03	756,722	120	60	72680

Code	D.1	D.2	D.5	D.6	D.7	D.8	D.9
District	Total area of agriculture land (Ha)	Area under cereal crops (Ha)	Potential irrigable land (Km2)	Total livestock (No.)	No. Of poultry farm (No.)	No. Of fish farms and ponds (No.)	Total forest area (Ha)
Source	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021b	MoFE, 2021i
Bardahat Susta West	17,348.06	33,868	433.34	982,868	0	515	22000
Parbat	9,465.00	33,378	263.04	446,761	210	72	27650
Parsa	46,689.80	73,120	529.36	890,279	133	1,856	76230
Pyuthan	18,853.10	28,220	180.40	971,738	461	115	64670
Ramechhap	25,522.40	39,854	289.32	548,484	236	30	69370
Rasuwa	4,121.70	5,549	95.31	191,828	68	27	54760
Rautahat	59,656.00	57,986	676.09	722,070	213	1,237	26290
Rolpa	20,032.10	27,785	147.13	864,183	117	84	99600
Rupandehi	66,275.50	93,480	945.67	1,613,649	127	4,167	25510
Salyan	20,348.90	43,330	159.11	1,045,579	178	98	125060
Sankhuwasabha	22,917.40	32,002	429.37	769,673	91	31	192030
Saptari	67,054.50	71,558	947.68	1,742,549	221	2,734	21140
Sarlahi	76,398.60	83,163	760.99	849,703	426	1,310	25770
Sindhuli	22,551.40	57,409	383.45	1,066,447	385	332	166700
Sindhupalchok	30,905.50	60,991	607.25	572,475	471	46	115880
Siraha	71,981.80	66,235	940.48	1,187,738	324	2,219	18190
Solukhumbu	15,546.20	19,958	228.83	457,421	0	12	110920
Sunsari	70,588.70	75,846	756.37	2,019,994	992	1,910	22630
Surkhet	24,198.00	45,634	418.79	805,957	539	61	174580
Syangja	18,727.80	63,670	457.68	947,408	386	217	47980
Tanahu	25,043.40	42,345	299.91	1,173,105	383	310	83050
Taplejung	14,888.80	18,762	437.01	437,556	84	6	157610
Terhathum	15,480.40	26,525	282.07	501,697	71	10	33170
Udayapur	25,794.90	41,127	343.59	1,211,611	488	459	150070
Rukum West	6,714.75	16,551	80.22	698,835	60	104	65070

Code	D.13	D.14	D.15
District	Total population (No.)	Number of households (No.)	Area of district (Km2)
Source	CBS, 2021	CBS, 2021	DoS
Achham	229816	39375	1680
Arghakhachi	177200	45019	1193
Baglung	250554	58467	1784
Baitadi	244400	42288	1519
Bajhang	189097	32917	3422
Bajura	138998	23891	2188
Banke	603393	110135	2337
Bara	743975	112329	1190
Bardiya	460831	98936	2025
Bhaktapur	430408	70946	119
Bhojpur	158991	37404	1507
Chitwan	722168	153662	2218
Dadeldhura	139420	26503	1538
Dailekh	253319	48776	1502
Dang	676277	149268	2955
Darchula	135056	25200	2657
Dhading	322751	78663	1926
Dhankuta	149984	35087	891
Dhanusa	873274	146476	1180
Dolakha	172726	47870	2191
Dolpa	42959	7995	7889
Doti	205683	36806	2025
Rukum East	57962	11702	1663
Gorkha	252201	68404	3610
Gulmi	246836	61222	1149
Humla	55496	10313	5655
Ilam	280565	68335	1703
Jajarkot	189365	34309	2230
Jhapa	994090	219989	1606
Jumla	119377	22405	2531
Kailali	911155	183707	1741
Kalikot	144917	22929	1610
Kanchanpur	517645	103372	1738
Kapilbastu	686739	103765	2017
Kaski	599504	120594	395
Kathmandu	2017532	276054	1396
Kavrepalanchok	366879	83932	3235
Khotang	175340	40392	1591
Lalitpur	548401	97394	385
Lamjung	153480	40101	1692
Mahottari	715040	117494	1002
Makawanpur	461053	96214	2426
Manang	5645	1472	2246
Morang	1147186	241415	1855
Mugu	66658	11791	3535
Mustang	14596	3268	3573
Myagdi	107372	25374	2297
Bardahat Susta East	381105	84695	1527
Nuwakot	262981	65734	1121
Okhaldhunga	140914	34111	1074
Palpa	242423	56275	1373
Panchthar	174419	39428	1241
Bardahat Susta West	385515	73263	635

Code	D.13	D.14	D.15
District	Total population (No.)	Number of households (No.)	Area of district (Km2)
Source	CBS, 2021	CBS, 2021	DoS
Parbat	132703	33053	494
Parsa	649397	93724	1353
Pyuthan	231848	52172	1309
Ramechhap	170620	45073	1546
Rasuwa	45554	11362	1544
Rautahat	825623	111613	1126
Rolpa	236226	49590	1879
Rupandehi	1118975	195103	1360
Salyan	238668	51984	1462
Sankhuwasabha	159046	36693	3480
Saptari	713203	124328	1363
Sarlahi	857360	138427	1259
Sindhuli	300117	64629	2491
Sindhupalchok	262852	69751	2542
Siraha	748416	123536	1188
Solukhumbu	104768	25388	3312
Sunsari	934461	181787	1257
Surkhet	417776	87312	2451
Syangja	254965	62867	1164
Tanahu	327620	81647	1546
Taplejung	120359	26139	3646
Terhathum	89125	20357	679
Udayapur	342773	75937	2063
Rukum West	166354	34007	1214

Code	D.20	D.22	D.23	D.24	D.25	D.26
District	Number of hydropower plants (No.)	Strategic road network (Km)	Strategic bridges (No.)	No. of airports (No.)	Industries in operation (No.)	Cultural and archeological sites (No.)
Source	MoFE, 2021c	DoR, 2019/20	DoR, 2019/20	DoR, 2019/20	MoPIT, 2019	MoFE, 2021g
Achham	0	149	8	1	970	2
Arghakhachi	1	172.24	15	0	2291	3
Baglung	12	228.13	20	2	2090	2
Baitadi	1	247.62	6	1	1671	2
Bajhang	12	108.58	6	1	1221	7
Bajura	2	50	6	1	1105	2
Banke	0	226.41	67	1	6509	1
Bara	0	189.58	39	1	5706	3
Bardiya	0	219.42	83	0	6301	
Bhaktapur	0	115.06	9	0	6933	5
Bhojpur	12	107	7	1	1303	1
Chitwan	1	233.75	45	2	12664	3
Dadeldhura	0	161.08	4	0	1981	3
Dailekh	7	276.23	21	0	2342	3
Dang	0	365.02	42	1	7198	3
Darchula	12	134.42	10	1	1348	3
Dhading	14	226.08	33	0	4894	1
Dhankuta	0	134.68	10	0	2401	1
Dhanusa	0	251.48	36	1	7037	1
Dolakha	42	229.75	18	1	2608	2
Dolpa	5	0	0	2	757	1
Doti	2	252.46	14	1	1121	2
Rukum East	4	113	13	0	72	
Gorkha	28	189.4	13	1	3362	7
Gulmi	6	205.14	9	0	2999	5
Humla	4	90	0	1	896	3
Ilam	21	250.25	7	0	2598	2
Jajarkot	6	158	11	0	866	1
Jhapa	0	196.6	74	1	9389	2
Jumla	4	151	2	1	1555	3
Kailali	1	359.1	100	2	7810	2
Kalikot	6	106	9	0	1362	1
Kanchanpur	0	158.92	39	1	5513	1
Kapilbastu	0	232.84	55	0	6311	11
Kaski	41	155.96	26	1	13720	4
Kathmandu	1	250.2	51	1	57422	15
Kavrepalanchok	4	149.46	20	0	7683	6
Khotang	5	200.46	5	3	1554	1
Lalitpur	3	135.3	8	0	17011	7
Lamjung	34	106.84	10	0	2480	2
Mahottari	0	215.59	41	0	4741	2
Makawanpur	8	329.34	50	0	8315	2
Manang	9	30	0	1	345	2
Morang	2	216.22	65	1	10008	2
Mugu	6	28	0	1	711	2
Mustang	2	194	6	1	662	16
Myagdi	34	44	6	0	1758	4
Bardahat Susta East	2	218.35	69	0	513	5
Nuwakot	12	203.61	17	0	4865	2
Okhaldhunga	6	134.9	1	1	1160	1
Palpa	4	252.96	22	0	2768	4
Panchthar	6	220.86	8	0	1255	

Code	D.20	D.22	D.23	D.24	D.25	D.26
District	Number of hydropower plants (No.)	Strategic road network (Km)	Strategic bridges (No.)	No. of airports (No.)	Industries in operation (No.)	Cultural and archeological sites (No.)
Source	MoFE, 2021c	DoR, 2019/20	DoR, 2019/20	DoR, 2019/20	MoPIT, 2019	MoFE, 2021g
Bardahat Susta West	1	157.38	0	0	7239	
Parbat	8	92.11	10	0	2417	
Parsa	0	88.82	30	0	9405	1
Pyuthan	4	169.43	15	0	2360	8
Ramechhap	16	114.6	10	1	2575	1
Rasuwa	29	70.2	7	1	1362	3
Rautahat	0	137.83	29	0	4835	1
Rolpa	3	170.41	8	1	2813	3
Rupandehi	0	165.77	61	1	14161	10
Salyan	0	137.66	13	0	1915	1
Sankhuwasabha	40	235	5	1	1684	1
Saptari	0	249.55	100	1	3941	3
Sarlahi	0	188.42	35	0	4728	1
Sindhuli	0	279.98	86	0	3011	4
Sindhupalchok	40	206.67	42	0	3141	3
Siraha	0	144.93	40	0	7038	3
Solukhumbu	33	37.2	0	4	1650	2
Sunsari	0	205.83	60	0	7560	3
Surkhet	3	264.14	43	1	5226	2
Syangja	4	171.58	23	0	3254	2
Tanahu	6	203.33	45	0	6707	3
Taplejung	38	68.5	2	1	1115	2
Terhathum	6	125.07	4	0	1272	1
Udayapur	0	256.51	69	0	2757	2
Rukum West	4	132.4	0	2	1360	

## E. Sensitivity

Code	Indicators	Source	Data
E.1	Food insufficiency in agriculture holdings (%)	CBS, 2011	64.01
E.6	Average size of land holding (Ha.)	CBS, 2011	0.68
E.22	Rate of Glacial retreat (mm/year)	WWF, 2005	10-15
E.30	Differently able population (No.)	CBS, 2011	1.69
E.33	Population of children (0-15) (No.)	CBS, 2011	10,219,675
E.34	Poverty Incidence (%)	NPC, 2021	17.4

Code	E.8	E.9	E.10	E.10	E.10	E.10
District	Female-headed hhs (No.)	Percentage of forest-dependent households (No.)	Pine forests (Km2)	Upper mixed hardwood (Km2)	Degraded area (Km2)	Semi-degraded area (Km2)
Source	CBS, 2011	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i
Achham	29.50	98.28	262.24	88.44	20257.03	9532.72
Arghakhachi	42.53	93.45	97.25	0	12712.26	5982.24
Baglung	41.94	88.54	115.79	369.98	16245.37	7644.88
Baitadi	20.98	97.88	365.57	71.07	16961.07	7981.68
Bajhang	25.01	98.33	188.45	508.42	33219.36	15632.64
Bajura	21.03	98.93	91.24	489.33	29926.46	14083.04
Banke	22.32	71.44	0.06	0	20307.86	9556.64
Bara	7.60	78.84	0	0	8036.75	3782
Bardiya	24.95	87.64	12.92	0	19690.08	9265.92
Bhaktapur	22.22	25.19	6.91	0.61	423.13	199.12
Bhojpur	27.41	97.20	16.09	168.93	12674.35	5964.40
Chitwan	33.73	49.06	10.66	0.25	26062.70	12264.80
Dadeldhura	28.95	96.22	324.21	31.41	19602.02	9224.48
Dailekh	25.15	97.15	206.05	137.13	14157.43	6662.32
Dang	28.33	76.35	93.10	0	35490.56	16701.44
Darchula	18.51	93.03	87.67	352.84	23211.46	10923.04
Dhading	27.83	84.46	97.30	117.49	16901.23	7953.52
Dhankuta	29.29	86.27	63.79	21.67	6333.01	2980.24
Dhanusa	19.78	50.50	0	0	4644.91	2185.84
Dolakha	34.43	94.36	14.27	633.64	20160.81	9487.44
Dolpa	12.66	89.02	101.62	246.99	29182.88	13733.12
Doti	35.94	95.98	456.90	159.19	26675.38	12553.12
Rukum East	55.10	99.34	63.69	231.29	11262.55	5299.94
Gorkha	37.23	84.34	157.45	180.54	26336.40	12393.60
Gulmi	42.57	92.23	86.72	21.68	8068.71	3797.04
Humla	9.77	68.32	85.50	303.44	29512.85	13888.40
Ilam	19.74	70.23	149.34	93.15	16182.30	7615.20
Jajarkot	12.69	88.93	230.30	372.03	25479.09	11990.16
Jhapa	26.96	58.90	8.87	0	3071.05	1445.20
Jumla	13.63	98.59	95.67	504.99	25469.57	11985.68
Kailali	24.67	85.91	153.05	0	34494.19	16232.56
Kalikot	10.59	97.98	97.06	612.64	23035.85	10840.40
Kanchanpur	26.25	82.02	7.08	0	13593.88	6397.12
Kapilbastu	16.47	54.31	0.31	0	10695.21	5033.04
Kaski	38.72	32.51	71.97	6.12	17245.31	8115.44
Kathmandu	27.85	7.63	35.89	18.19	2622.93	1234.32
Kavrepalanchok	21.29	78.23	133.46	100.30	13274.11	6246.64
Khotang	26.66	88.14	21.50	159.98	12920.51	6080.24
Lalitpur	23.99	17.86	59.70	26.13	4249.15	1999.60
Lamjung	40.69	69.58	93.25	67.69	16520.60	7774.40
Mahottari	19.42	56.36	0	0	3788.11	1782.64
Makawanpur	22.57	75.09	144.27	71.58	28750.91	13529.84
Manang	24.10	97.93	76.73	0	6524.43	3070.32
Morang	25.39	44.90	53.81	4.70	7588.63	3571.12



Code	E.8	E.9	E.10	E.10	E.10	E.10
District	Female-headed hhs (No.)	Percentage of forest-dependent households (No.)	Pine forests (Km2)	Upper mixed hardwood (Km2)	Degraded area (Km2)	Semi-degraded area (Km2)
Source	CBS, 2011	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i
Mugu	7.73	98.75	112.59	378.33	27643.70	13008.80
Mustang	24.11	54.01	46.27	0	7686.89	3617.36
Myagdi	43.55	86.56	95.47	169.21	23218.77	10926.48
Bardahat Susta East	36.78	70.76	1.75	0	14201.62	6683.57
Nuwakot	21.31	89.80	91.06	65.77	9291.35	4372.40
Okhaldhunga	28.43	97	9.75	154.52	9158.41	4309.84
Palpa	40.66	80.45	13.71	0	14887.24	7005.76
Panchthar	27.54	72.08	147.35	225.26	12491.60	5878.40
Bardahat Susta West	20.50	71.24	1.75	0	3739.95	1760.09
Parbat	40.53	86.25	0.64	0	4903.82	2307.68
Parsa	5.66	65.75	0	0.09	13024.72	6129.28
Pyuthan	47.20	95.12	171.06	37.21	11066.49	5207.76
Ramechhap	28.08	95.44	12.23	275.79	12494.66	5879.84
Rasuwa	22.57	89.58	47.45	165.51	10147.30	4775.20
Rautahat	5.72	64.26	0	0	4539.34	2136.16
Rolpa	33.09	96.96	304.13	180.70	17807.33	8379.92
Rupandehi	24.97	62.09	0.10	0	4404.87	2072.88
Salyan	23.23	97.04	434.43	30.88	21905.18	10308.32
Sankhuwasabha	27.44	84.62	115.77	785.07	38752.35	18236.40
Saptari	15.33	57.04	0	0	3724.70	1752.80
Sarlahi	11.10	64.49	0	0.36	4410.99	2075.76
Sindhuli	24.59	90.96	39.96	17	28609.98	13463.52
Sindhupalchok	24.07	92.15	149.73	391.69	20053.71	9437.04
Siraha	20.77	49.59	0	0	3135.65	1475.60
Solukhumbu	22.89	95.54	8.22	693.20	22899	10776
Sunsari	26.04	35.73	11.71	0	4000.61	1882.64
Surkhet	29.93	85.30	212.22	13.97	30367.95	14290.80
Syangja	42.93	82.10	15.01	2.99	8406.84	3956.16
Tanahu	42.71	67.87	1.67	0.32	14263.68	6712.32
Taplejung	27.57	95.53	223.32	616.53	32336.38	15217.12
Terhathum	28.34	94.15	17.77	83.37	5771.16	2715.84
Udayapur	28.97	91.14	14.52	6.65	25672.38	12081.12
Rukum West	14.60	97.15	151.84	171.65	11061.95	5203.94

Code	E.11	E.11	E.11	E.11	E.16	E.16
District	Sparse area (Ha)	Degraded area (Ha)	Semi-degraded area (Ha)	Sparse area (Ha)	Change in wetland (Ha)	Change in rangeland (Ha)
Source	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i
Achham	43197.24	20257.03	9532.72	43197.24	0	-3.61
Arghakhachi	28745.08	12712.26	5982.24	28745.08	0	0.01
Baglung	34461.96	16245.37	7644.88	34461.96	0	-1.94
Baitadi	35927.56	16961.07	7981.68	35927.56	0	-1.73
Bajhang	70559.38	33219.36	15632.64	70559.38	0	2.09
Bajura	63416.68	29926.46	14083.04	63416.68	0	-0.08
Banke	44793.62	20307.86	9556.64	44793.62	0	-0.51
Bara	18213	8036.75	3782	18213	0	0.58
Bardiya	42075.25	19690.08	9265.92	42075.25	0	0.38
Bhaktapur	903.44	423.13	199.12	903.44	0	0
Bhojpur	26908.48	12674.35	5964.40	26908.48	0	-0.78
Chitwan	56859.60	26062.70	12264.80	56859.60	0.03	0.41
Dadeldhura	41919.71	19602.02	9224.48	41919.71	0	-0.55
Dailekh	30099.44	14157.43	6662.32	30099.44	0	1.15
Dang	77656.48	35490.56	16701.44	77656.48	0	-4.85
Darchula	49203.68	23211.46	10923.04	49203.68	0	1.87
Dhading	36037.77	16901.23	7953.52	36037.77	0	-0.97
Dhankuta	13684.81	6333.01	2980.24	13684.81	0	-0.71
Dhanusa	10770.28	4644.91	2185.84	10770.28	0	-1.24
Dolakha	42714.98	20160.81	9487.44	42714.98	0	-1.11
Dolpa	61799.04	29182.88	13733.12	61799.04	-0.01	0.86
Doti	56532.64	26675.38	12553.12	56532.64	0	-1.69
Rukum East	23944.04	11262.55	5299.94	23944.04	0	-5.22
Gorkha	55861.20	26336.40	12393.60	55861.20	0	-1.02
Gulmi	18766.68	8068.71	3797.04	18766.68	0	-0.09
Humla	62497.80	29512.85	13888.40	62497.80	0	10.74
Ilam	36092.57	16182.30	7615.20	36092.57	0	-0.18
Jajarkot	59094.72	25479.09	11990.16	59094.72	0	-0.32
Jhapa	8087.83	3071.05	1445.20	8087.83	0	-0.25
Jumla	54470.56	25469.57	11985.68	54470.56	0	-2.60
Kailali	94213.52	34494.19	16232.56	94213.52	0	0.42
Kalikot	48792.80	23035.85	10840.40	48792.80	0	-1.01
Kanchanpur	31982.21	13593.88	6397.12	31982.21	0.06	-0.24
Kapilbastu	33286.68	10695.21	5033.04	33286.68	0.01	-0.40
Kaski	36539.48	17245.31	8115.44	36539.48	0.04	-0.40
Kathmandu	5589.73	2622.93	1234.32	5589.73	0	0.07
Kavrepalanchok	28367.66	13274.11	6246.64	28367.66	0	0.07
Khotang	27385.18	12920.51	6080.24	27385.18	0	0.09
Lalitpur	9015.58	4249.15	1999.60	9015.58	0	-0.09
Lamjung	34992.62	16520.60	7774.40	34992.62	0	-0.55
Mahottari	8699.88	3788.11	1782.64	8699.88	0	-1.01
Makawanpur	64593.28	28750.91	13529.84	64593.28	0	-2.22
Manang	13816.44	6524.43	3070.32	13816.44	0.01	1.57
Morang	16653.03	7588.63	3571.12	16653.03	0	-0.04
Mugu	58539.60	27643.70	13008.80	58539.60	0.03	2.39
Mustang	16303.12	7686.89	3617.36	16303.12	0.15	4.84
Myagdi	49177.16	23218.77	10926.48	49177.16	-0.01	-2
Bardahat Susta East	34535.12	14201.62	6683.57	34535.12	0.07	0.42
Nuwakot	19757.80	9291.35	4372.40	19757.80	0	-0.37
Okhaldhunga	19401.28	9158.41	4309.84	19401.28	0	-1.43
Palpa	31536.42	14887.24	7005.76	31536.42	0	0.52
Panchthar	26487.20	12491.60	5878.40	26487.20	0	0.21

Code	E.11	E.11	E.11	E.11	E.16	E.16
District	Sparse area (Ha)	Degraded area (Ha)	Semi-degraded area (Ha)	Sparse area (Ha)	Change in wetland (Ha)	Change in rangeland (Ha)
Source	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i	MoFE, 2021i
Bardahat Susta West	10217.91	3739.95	1760.09	10217.91	0	0.63
Parbat	10434.56	4903.82	2307.68	10434.56	0	-0.12
Parsa	27963.26	13024.72	6129.28	27963.26	0	0.20
Pyuthan	23434.92	11066.49	5207.76	23434.92	0	-0.97
Ramechhap	26954.33	12494.66	5879.84	26954.33	0	2.96
Rasuwa	21517.80	10147.30	4775.20	21517.80	0	1.33
Rautahat	12802.72	4539.34	2136.16	12802.72	0	-1.91
Rolpa	37709.64	17807.33	8379.92	37709.64	0	-0.71
Rupandehi	17673.96	4404.87	2072.88	17673.96	0	-0.08
Salyan	48230.19	21905.18	10308.32	48230.19	0	-0.57
Sankhuwasabha	82179.80	38752.35	18236.40	82179.80	-0.28	1.97
Saptari	7894.85	3724.70	1752.80	7894.85	-0.02	-0.16
Sarlahi	9677.82	4410.99	2075.76	9677.82	0	-1.44
Sindhuli	68996.29	28609.98	13463.52	68996.29	0	-1.67
Sindhupalchok	42501.68	20053.71	9437.04	42501.68	0	-2.78
Siraha	7637.19	3135.65	1475.60	7637.19	0	-0.72
Solukhumbu	48569.52	22899	10776	48569.52	0	0.40
Sunsari	9801.57	4000.61	1882.64	9801.57	0	-0.82
Surkhet	64898.20	30367.95	14290.80	64898.20	0	0.12
Syangja	17830.72	8406.84	3956.16	17830.72	0	-0.22
Tanahu	30492.10	14263.68	6712.32	30492.10	0	0.13
Taplejung	68665.64	32336.38	15217.12	68665.64	-0.07	0.78
Terhathum	12259.08	5771.16	2715.84	12259.08	0	1.23
Udayapur	61801.54	25672.38	12081.12	61801.54	0	-3.97
Rukum West	23517.57	11061.95	5203.94	23517.57	0	-1.51

Code	E.16	E.16	E.17	E.18	E.20	E.23	E.24
District	Change in agro-ecosystems (%)	Trend in change in forests area (%)	Thatched roof (No.)	Types of roads (blacktopped, earthen, gravel) (Km)	Length of road having slope greater than 30 degrees (Km)	Drainage density	Trend of change in net water yields (mcm/year)
Source	MoFE, 2021i	MoFE, 2021i	CBS, 2011	DoR, 2019	MoFE, 2021f	MoFE, 2021c	MoFE, 2021c
Achham	-2.29	11.79	11,568	149	21.38	0.389	-0.85
Arghakhachi	-0.80	20.15	11,585	172.24	32.81	0.373	-2.78
Baglung	-2.11	2.72	9,393	228.13	63.27	0.273	0.73
Baitadi	-1.35	20.61	612	247.62	65.01	0.468	4.22
Bajhang	-1.15	-3.17	6,329	108.58	81.04	0.278	45.49
Bajura	-0.46	-10.26	6,216	50	33.88	0.345	-4.35
Banke	-2.16	0.58	18,023	225.81	0.52	0.330	3.43
Bara	-1.09	-6.48	17,103	189.58	0.06	0.397	11.55
Bardiya	-1.98	-2.89	20,688	219.42	2.63	0.391	12.04
Bhaktapur	-0.08	-1.75	868	115.06	1.08	0.467	2.02
Bhojpur	-1.35	21.03	30,521	107	7.39	0.410	9.76
Chitwan	-1.18	-0.70	15,739	233.75	20.57	0.533	-1.60
Dadeldhura	-2.19	6.22	3,601	161.08	17.14	0.485	6.26
Dailekh	-1.66	7.32	14,083	276.23	81.33	0.310	0.17
Dang	-2.35	11.45	41,306	365.02	17.82	0.509	5.44
Darchula	-2.87	-2.34	718	134.42	86.32	0.335	7.45
Dhading	-2.45	4.39	5,325	226.08	23.89	0.436	82.27
Dhankuta	-1.86	48.78	17,702	134.68	15.46	0.476	3.08
Dhanusa	2.04	-27.39	20,142	251.48	43.99	0.471	0.43
Dolakha	-3.18	21.48	2,424	229.75	9.51	0.317	8.04
Dolpa	-0.28	-30.49	205	0	63.97	0.303	-10.97
Doti	-2.14	10.12	6,312	252.46	54.55	0.353	5.95
Rukum East	-0.28	-0.35	8,883	113	56.77	0.355	-4.32
Gorkha	-3.26	-3.22	7,073	189.4	47.41	0.283	56.55
Gulmi	-3.19	20.52	14,889	205.14	89.09	0.345	-6.93
Humla	0.04	-26.48	128	90	26.76	0.266	26.88
Ilam	-1.08	11.96	8,369	250.25	33.30	0.428	7.72
Jajarkot	-0.13	-6.30	5,919	158	0.10	0.278	3.08
Jhapa	-1.88	9.77	19,157	196.6	37.43	0.669	8.86
Jumla	0.06	-27.45	101	151	18.02	0.330	-6.01
Kailali	-2.54	0.55	18,990	359.1	45.57	0.789	1.70
Kalikot	0.56	-12.43	7,167	106	2.67	0.358	-2.73
Kanchanpur	-1.09	5.19	8,076	158.92	2.91	0.322	2.27
Kapilbastu	-1.06	2.54	21,423	232.84	11.59	0.302	2.45
Kaski	-1.02	5.13	3,068	155.96	8.48	1.527	319.98
Kathmandu	-1.28	21.45	2,741	250.2	30.48	0.154	5.36
Kavrepalanchok	-2.01	16.24	8,164	149.46	42.01	0.222	19.17
Khotang	-4.30	11.43	31,523	200.46	18.07	0.445	4.50
Lalitpur	-0.71	0	1,622	145.38	14.42	0.477	5.33
Lamjung	-0.73	5.55	4,870	106.84	60.01	0.306	64.62
Mahottari	1.59	-14.79	16,620	215.59	2.88	0.566	-0.04
Makawanpur	-3.92	11.24	17,140	329.34	7.12	0.417	44.67
Manang	0	-19.68	4	30	23.27	0.243	-11.58
Morang	-0.55	-3.54	45,002	216.22	17.73	0.524	2.80
Mugu	0.12	-25.02	1,130	28	19.72	0.265	-14.85
Mustang	-0.01	-11.41	31	194	17.58	0.260	-17.15
Myagdi	-2.42	-0.10	1,713	44	31.29	0.236	13.80
Bardahat Susta East	-0.51	12.35	9,686	218.35	37.88	0.446	4.49
Nuwakot	-0.54	-3.50	2,813	203.61	42.77	0.558	64.21
Okhaldhunga	-4.03	9.88	17,111	134.9	41.39	0.431	4.68

Code	E.16	E.16	E.17	E.18	E.20	E.23	E.24
District	Change in agro-ecosystems (%)	Trend in change in forests area (%)	Thatched roof (No.)	Types of roads (blacktopped, earthen, gravel) (Km)	Length of road having slope greater than 30 degrees (Km)	Drainage density	Trend of change in net water yields (mcm/year)
Source	MoFE, 2021i	MoFE, 2021i	CBS, 2011	DoR, 2019	MoFE, 2021f	MoFE, 2021c	MoFE, 2021c
Palpa	-5.75	27.39	12,623	252.96	0.20	0.386	-4.51
Panchthar	-0.96	15.72	21,404	220.86	27.69	0.385	0.48
Bardahat Susta West	-1.81	12.88	4,990	157.38	25.66	0.482	2.24
Parbat	-1.52	7.99	4,212	92.11	47.75	0.297	4.64
Parsa	-0.08	-0.73	17,735	88.82	36.05	0.377	4.97
Pyuthan	-1.29	9.96	21,265	169.43	47.27	0.450	2.01
Ramechhap	-3.51	12.99	11,765	114.6	0.52	0.434	8.36
Rasuwa	-0.95	-3.16	144	70.2	25.00	0.304	11.18
Rautahat	3.09	-11.94	15,379	137.83	48.22	0.300	9.64
Rolpa	-1.40	15.12	19,866	170.41	27.26	0.366	5.62
Rupandehi	-0.95	2.23	14,665	165.77	53.78	0.435	2.03
Salyan	-1.25	17.29	21,007	137.66	16.20	0.513	1.90
Sankhuwasabha	-1.30	-2.42	22,576	235	4.70	0.338	46.43
Saptari	2.17	-13.34	62,465	213.55	33.59	0.378	8.10
Sarlahi	1.08	-13.81	19,301	188.42	31.20	0.496	2.03
Sindhuli	-1.22	2.25	18,955	279.98	12.55	0.545	11.08
Sindhupalchok	-2.35	4.45	2,174	206.67	54.07	0.372	8.61
Siraha	0.88	-14.73	42,892	144.93	14.75	0.357	2.54
Solukhumbu	-1.23	18.15	8,633	37.2	19.65	0.272	7.12
Sunsari	0.17	11.78	27,485	205.83	43.88	0.308	0.94
Surkhet	-0.22	-0.74	33,285	264.14	19.52	0.419	-0.06
Syangja	-2.03	15.21	12,785	171.58	22.08	0.302	60.21
Tanahu	-1.18	9.89	12,765	203.33	20.22	0.408	60.31
Taplejung	-0.09	-9.55	16,128	68.5	28.80	0.265	28.88
Terhathum	-2	41.21	12,239	125.07	21.75	0.373	0.49
Udayapur	0.80	-2.10	25,236	256.51	15.67	0.529	10.88
Rukum West	-1.57	1.42	6,433	132.4	31.51	0.432	-0.56

Code	D.28	E.29	D.29	D.30	D.31	D.32
District	Mortality from vector borne diseases (No.)	Malnutrition (No.)	Malnourished children (under 5) (No.)	Differently able population (No.)	Aged group population (60+ years) (No.)	Population of female (No.)
Source	MoFE, 2021d	MoFE, 2021d	MoFE, 2021e	CBS, 2011	CBS, 2011	CBS, 2021
Achham	904	14336	589	127,461	21143	123576
Arghakhachi	337	2169	61	191,817	20978	96187
Baglung	20	3884	38	290,254	27417	133365
Baitadi	370	5485	155	812,650	21991	128974
Bajhang	260	5286	233	965,370	15008	100109
Bajura	183	7970	284	763,487	10189	71390
Banke	1297	7242	269	163,412	32503	308281
Bara	1659	13084	766	101,577	48286	363783
Bardiya	1774	12539	816	158,742	30145	242981
Bhaktapur	461	1000	73	182,459	22839	212466
Bhojpur	280	1869	14	105,886	18579	80540
Chitwan	2153	5195	470	147,984	49944	368097
Dadeldhura	874	5091	324	206,312	11206	73490
Dailekh	141	3905	96	317,532	17284	131644
Dang	703	11023	285	639,284	36998	354376
Darchula	18	1686	10	637,328	11506	69707
Dhading	675	6852	208	754,777	36244	165544
Dhankuta	156	911	34	627,580	15584	76750
Dhanusa	2964	12883	711	769,729	56466	438939
Dolakha	355	2444	47	296,192	21659	88614
Dolpa	34	1006	20	202,646	2123	21683
Doti	247	5664	221	186,557	16070	110617
Rukum East	74	5765	13	350,804	7718	29736
Gorkha	71	3900	189	287,798	34516	132390
Gulmi	171	4371	30	381,937	31154	134048
Humla	33	6437	137	468,132	3714	27514
Ilam	319	2185	15	304,651	24609	140991
Jajarkot	160	9007	127	1,744,240	8764	95570
Jhapa	5877	8191	750	277,471	73223	516594
Jumla	106	7503	220	43,300	6018	59541
Kailali	7521	7221	477	336,067	53249	471363
Kalikot	139	8207	492	420,477	8457	72674
Kanchanpur	4430	11049	742	686,722	32660	274047
Kapilbastu	3285	25703	977	687,708	44108	349135
Kaski	489	11463	428	601,017	42935	306740
Kathmandu	2249	7669	730	579,984	105303	991805
Kavrepalanchok	532	3964	96	271,061	36912	185912
Khotang	116	3859	97	167,724	20608	88819
Lalitpur	484	4736	948	323,288	36302	272864
Lamjung	165	2449	33	289,148	21208	80271
Mahottari	2567	9645	1487	492,098	50210	360088
Makawanpur	1094	4446	71	6,538	32866	232581
Manang	6	34	0	13,452	684	2457
Morang	4474	17757	3613	113,641	31684	589659
Mugu	45	5508	340	146,590	3926	33210
Mustang	1	82	3	268,613	1591	6422
Myagdi	57	1397	24	280,160	12987	54818
Bardahat Susta East	933	3868	420	261,180	36385	201659
Nuwakot	1094	3396	113	643,508	30049	134132
Okhaldhunga	204	3151	102	880,196	15979	71592
Palpa	737	3800	146	571,936	25923	130483

Code	D.28	E.29	D.29	D.30	D.31	D.32
District	Mortality from vector borne diseases (No.)	Malnutrition (No.)	Malnourished children (under 5) (No.)	Differently able population (No.)	Aged group population (60+ years) (No.)	Population of female (No.)
Source	MoFE, 2021d	MoFE, 2021d	MoFE, 2021e	CBS, 2011	CBS, 2011	CBS, 2021
Panchthar	586	2054	85	197,632	16918	87386
Bardahat Susta West	480	1992	197		18744	197439
Parbat	93	977	17	228,102	16967	69575
Parsa	805	5861	380	224,506	39663	314478
Pyuthan	156	3581	60	208,567	17988	127385
Ramechhap	102	2181	19	242,444	23581	89842
Rasuwa	21	334	23	552,583	4463	22695
Rautahat	1373	18092	1049	491,313	51489	409759
Rolpa	100	3862	62	426,576	75964	125260
Rupandehi	1901	9246	2363	261,770	66183	571430
Salyan	114	4059	120	171,304	14996	123715
Sankhuwasabha	167	936	24	36,700	14898	78991
Saptari	1118	12506	1104	108,921	51454	357673
Sarlahi	3713	19295	277	136,948	58056	423978
Sindhuli	918	6002	267	55,286	23599	152459
Sindhupalchok	504	4222	153	50,858	32118	133457
Siraha	2374	11348	831	134,912	49980	379367
Solukhumbu	206	1916	11	195,159	9814	52139
Sunsari	947	9596	557	257,477	57137	480386
Surkhet	551	5778	177	211,746	22344	215740
Syangja	127	3647	33	775,709	35396	136889
Tanahu	173	1219	7	451,248	34478	174699
Taplejung	98	1688	22	142,094	10917	59835
Terhathum	105	1179	18	250,898	9946	45334
Udayapur	939	2424	132	133,274	25115	177739
Rukum West	53	4175	378	127,461	5589	85291

## F. Adaptive Capacity

Code	Indicators	Source	Data	Remarks
F.1	Existence of policies and plans to address climate change issues at federal level (No.)		25	<ul style="list-style-type: none"> <li>The Future for Climate Finance in Nepal,</li> <li>National Adaptation Programme of Action,</li> <li>Climate Public Expenditure and Institutional Review,</li> <li>Economic Impact Assessment of Climate Change in Key Sectors in Nepal,</li> <li>Climate Change Financing Framework, Green Climate Fund Handbook for Nepal,</li> <li>National Natural Resources and Fiscal Commission Act,</li> <li>Intergovernmental Fiscal Management Act,</li> <li>SDGs Status and Roadmap: 2016-2030,</li> <li>Agriculture Sector</li> <li>Climate Change Budget Coding Guideline,</li> <li>Needs Assessment, costing, and financing strategy for SDGs,</li> <li>District Level Climate Public Expenditure and Institutional Review,</li> <li>National Climate Change Policy (Second),</li> <li>International Development Cooperation Policy,</li> <li>15th Five Year Development Plan,</li> <li>National Framework for Local Adaptation Plans for Action (Second),</li> <li>Environment Protection Act,</li> <li>Environment Protection Rules,</li> <li>Nationally Determined Contributions,</li> <li>GESI strategy and Action Plan,</li> <li>Climate Resilient Planning and Budgeting Guideline,</li> <li>Vulnerability and Risk Assessment and identifying adaptation options: Summary for policymaker,</li> <li>National Adaptation Plan,</li> <li>Long Term Strategy for Reduced Emission,</li> <li>National level Loss and Damage Assessment Framework</li> </ul>
F.3	Provincial governments with dedicated climate change programmes (No.)		7	
F.4	Number of units dedicated to environment management/climate change in government structures (No.)		9	(MoEWRI, MoUD, MoALD, MoPIT, NPC, MoFE, MoF, MoFAGA)
F.6	Climate change related projects implemented at the local level (No.)		6	BCRN, NCCSP2, ASHA, DCRL, CAFs Kamali, EBA



Code	Indicators	Source	Data	Remarks
F.7	Number of coordinating bodies at federal, provincial and local level (No.)		5	At federal level MCCCC, at province level PCCCC, at the local level DCC for coordination
F.8	Number of National Implementation Entities (No.)		2	NTNC and AEPC
F.10	Early warning system (%)		25	
F.12	Coverage of weather forecasting (%)		100%	
F.14	Coverage fire brigades system (No.)		92	
F.16	Air quality monitoring systems (No.)		27	
F.17	Flood monitoring systems (No.)		12	
F.20	Households having knowledge on climate change (%)	CBS, 2016	49.33	
F.23	Households covered by LAPA interventions (No.)		292688	Covers the data of NCCSP, BRACED and ASHA project only. This figure is subject to change
F.30	Number of palika with ecosystem-based adaptation projects (No.)	MoFE, 2021	10	
F.41	Number of GLOF sites where water draining is carried out		2	
F.44	Area covered by community-based forest management	DoF, 2017	2.83 million hectares	
F.54	Preliminary GNI	CBS, 2021	4882598 million	
F.56	Population with bank accounts	NRB, 2021	67.3	
F.63	No. of agriculture and livestock insurance	Beema Samiti, 2021	187337	
F.78	Population with insurance facility	Beema Samiti, 2021	27%	
F.79	Insurance of crops, livestock and other agriculture products, investments	Beema Samiti, 2021	125,189	
F.80	Budget allocations to rescue, relief, and rehabilitation	MoHA, 2022	6,79,90,9000	
F.81	Budget allocations to disaster preparedness (operational)		1.63 billion	
F.84	Climate change funds received from international entity	MoHA, 2022	3.30 billion USD	Draft report on capitalizing climate finance in Nepal

District	F.10	F.15	F.33	F.34	F.36	F.37	F.38	F.39
	Area coverage by eWS (%) MoFE, 2021h	No. Of meteorological stations (No.) DHM, 2022	Electrification coverage status (%) MoFE, 2021c	Bio-gas plants coverage by households (%) MoFE, 2021c	traditional energy for cooking (No.) MoFE, 2021c	renewable energy for cooking (No.) MoFE, 2021c	Renewable energy for lighting (No.) MoFE, 2021c	Total capacity of pico/micro/mini hydro (No.) MoFE, 2021c
Source	MoFE, 2021h	DHM, 2022	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c
Achham	39.77	4	37.18	1.581	47567	85	21409	1875
Arghakhachi	41.11	2	97.14	0.263	43805	92	33585	70
Baglung	17.34	3	90.08	0.197	54453	111	52616	3881
Baitadi	5.93	2	27.79	0.142	44253	36	19376	640
Bajhang	3.78	2	10.21	0.841	33214	51	19631	1575
Bajura	26.75	1	11.58	0.00	24624	45	11249	1192
Banke	36.56	7	90.09	0.271	71614	2085	68523	0
Bara	70.86	7	99.48	0.165	97851	2070	75274	0
Bardiya	44.46	6	99.23	0.256	73714	5143	54672	0
Bhaktapur	21.22	4	100	0.366	17328	315	67337	0
Bhojpur	34.96	1	53.82	0.564	38444	76	22662	508
Chitwan	46.07	3	94.44	0.252	65144	12472	121529	49
Dadeldhura	18.99	1	74.85	1.062	26029	50	16088	255
Dailekh	11.27	2	26.18	0.104	47595	124	25028	135
Dang	51.29	5	87.07	0.269	93300	5331	80361	15
Darchula	0.98	2	34.69	0.041	22890	106	14778	697
Dhading	18.58	3	88.86	0.051	62375	2992	54491	1312
Dhankuta	39.71	7	97.04	0.303	32481	126	32852	583
Dhanusa	59.53	3	99.52	0.294	119122	392	103162	0
Dolakha	74.63	5	98.48	0.011	43082	159	38716	968
Dolpa		1	20.63	0.013	7296	13	5491	462
Doti	19.14	5	70.73	0.358	39753	61	17630	467
Rukum East	1.67	2	11.25	0.598	11152	7	7139	859
Gorkha	22.97	4	86.9	0.170	56069	2595	53791	1789
Gulmi	40.17	3	96.98	0.193	59870	250	49316	502
Humla		2	27.38	0.00	9278	142	5097	361
Ilam	63.09	3	73.79	0.682	58287	1563	47098	1112
Jajarkot	6.21	2	14.05	0.135	30204	59	13811	765
Jhapa	50.41	6	95.17	0.496	121892	16383	153292	3
Jumla	43.57	3	5.64	0.021	19019	11	14208	717

District	F.10		F.15		F.33		F.34		F.36		F.37		F.38		F.39	
	Area coverage by ews (%)		No. Of meteorological stations (No.)		Electrification coverage status (%)		Bio-gas plants coverage by households (%)		traditional energy for cooking (No.)		renewable energy for cooking (No.)		Renewable energy for lighting (No.)		Total capacity of pico/micro/mini hydro (No.)	
Source	MoFE, 2021h	MoFE, 2021c	DHM, 2022	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c
Kailali	43.86	89.67	3	0.187	122652	8354	109576	6								
Kalikot	7.91	22.96	4	0.039	22547	44	11228	1068								
Kanchanpur	47.45	92.79	2	0.236	67626	6953	62764	0								
Kapilbastu	14.49	99	3	0.295	79451	3123	58845	0								
Kaski	10.54	99.08	10	0.198	40846	5513	120935	1773								
Kathmandu	12.33	100	10	0.417	33383	438	429378	1469								
Kavrepalanchok	39.25	82.99	7	0.182	63152	3244	72318	922								
Khotang	20.59	66.08	4	0.338	41913	34	24132	526								
Lalitpur	12.49	99.62	6	0.309	19693	584	106335	80								
Lamjung	21.10	96.69	2	0.262	29314	4417	35204	794								
Mahottari	70.95	99.39	2	0.188	102750	628	71763	0								
Makawanpur	27.36	82.13	7	0.246	64729	3727	69278	164								
Manang	3.36	64.07	3	0.00	1418	0	1411	341								
Morang	34.81	92.35	3	0.330	148696	8563	165002	0								
Mugu	1.16	19.36	3	0.031	9480	5	6688	201								
Mustang	9.60	78.55	10	0.00	2611	24	3195	442								
Myagdi	24.82	91.22	9	0.166	24011	198	22209	489								
Bardahat Susta East	31.23	92.78	3	0.214	47400	4823	57789	326								
Nuwakot	56.41	100	3	0.169	53184	1173	50178	173								
Okhaldhunga	32.84	40.68	2	0.394	31552	30	20732	914								
Palpa	47.18	86.38	2	0.202	47728	2075	47906	2022								
Panchthar	22.28	79.8	2	0.724	38050	208	22800	1487								
Bardahat Susta West	32.90	99.42	2	0.168	50873	1842	52071	0								
Parbat	79.77	100	4	0.185	30805	172	30269	220								
Parsa	39.82	99.47	1	0.177	77799	292	71131	10								
Pyuthan	42.19	90.52	1	0.180	45418	415	28952	185								
Ramechhap	8.76	95.6	1	0.260	41927	107	29470	1119								
Rasuwa	66	95.4	3	0.00	8726	92	7581	115								
Rautahat	28.45	99.4	2	0.188	98324	782	50847	0								
Rolpa	36.48	40.1	1	0.245	42475	42	30249	393								

District	F.10	F.15	F.33	F.34	F.36	F.37	F.38	F.39
	Area coverage by eWS (%) MoFE, 2021h	No. Of meteorological stations (No.) DHM, 2022	Electrification coverage status (%) MoFE, 2021c	Bio-gas plants coverage by households (%) MoFE, 2021c	traditional energy for cooking (No.) MoFE, 2021c	renewable energy for cooking (No.) MoFE, 2021c	Renewable energy for lighting (No.) MoFE, 2021c	Total capacity of pico/micro/mini hydro (No.) MoFE, 2021c
Rupandehi	17.04	4	98.02	0.213	98783	5214	132810	3
Salyan	27.43	2	50.23	0.069	45219	61	22867	40
Sankhuwasabha	56.39	5	73.53	0.133	32754	98	24925	1757
Saptari	49.16	3	98.49	0.229	111669	429	52237	0
Sarlahi	49.03	4	98.48	0.211	120111	2533	65184	3
Sindhuli	22.39	4	69.51	0.160	52498	1600	37332	294
Sindhupalchok	31.74	12	92.57	0.05	61411	331	59667	1432
Siraha	24.86	2	98.3	0.223	110767	300	80963	0
Solukhumbu	64.13	4	13.55	0.892	22718	775	17599	1888
Sunsari	19.58	3	92.35	0.343	108266	3125	134038	0
Surkhet	33.02	3	47.46	0.305	62250	673	41890	380
Syangja	14.82	3	100	0.250	56556	2068	61802	239
Tanahu	26.13	4	95.06	0.272	53233	6751	67977	257
Taplejung	13.72	3	46.46	0.106	25292	65	14087	916
Terhathum	65.19	1	81.77	0.290	20812	46	16942	750
Udayapur	21.47	2	58.44	0.245	60923	1156	47395	135
Rukum West		2	53.46	0.166	29850	47	18451	1511

District	F.40		F.42		F.35		F.46		F.48		F.49		F.50		F.51	
	Improved water mills (No.)	MoFE, 2021c	Farmer cooperative (No.)	MoFE, 2021b	Solar plants coverage by households (%)	MoFE, 2021c	Ngos/cbos working in district (No.)	MoFE, 2021i	Literacy rate (%)	CBS, 2011	Economically active population (No.)	CBS, 2011	HDI	CBS, 2011	GDI	CBS, 2011
Achham	142		228		24.275		10		55.70		114447		0.45		0.40	
Arghakhachi	0		188		12.042		5		72.60		101715		0.54		0.47	
Baglung	40		473		3.664		5		71.90		101715		0.54		0.47	
Baitadi	522		215		17.889		6		63		105880		0.49		0.42	
Bajhang	215		157		39.514		8		55.60		87487		0.43		0.40	
Bajura	124		183		22.428		3		55.70		59301		0.43		0.40	
Banke	0		400		3.344		23		62.40		170011		0.53		0.47	
Bara	0		713		0.853		14		52		215822		0.52		0.47	
Bardiya	0		399		2.915		20		65.40		186231		0.52		0.47	
Bhaktapur	0		662		0.071		13		81.70		129495		0.62		0.55	
Bhojpur	0		173		42.129		2		69.49		94179		0.54		0.47	
Chitwan	18		704		5.643		53		77		244210		0.60		0.55	
Dadeldhura	231		193		10.491		6		65.30		67849		0.50		0.42	
Dailekh	275		294		37.492		9		62.50		111223		0.49		0.42	
Dang	0		627		4.183		34		70.30		230847		0.54		0.47	
Darchula	242		127		33.072		4		65.40		59531		0.50		0.42	
Dhading	545		415		11.099		18		62.90		166200		0.52		0.47	
Dhankuta	3		302		3.052		3		74.37		91036		0.57		0.52	
Dhanusa	0		909		1.106		20		50.40		213443		0.49		0.42	
Dolakha	629		518		2.983		12		62.80		94343		0.52		0.47	
Dolpa	50		63		50.496		5		54.10		17932		0.45		0.42	
Doti	263		190		12.044		9		56.30		92244		0.47		0.42	
Rukum East	0		188		45.179		1		72.30		25034		0.43		0.47	
Gorkha	57		434		4.349		13		66.30		132186		0.55		0.47	
Gulmi	0		256		11.616		9		72.60		130877		0.53		0.40	
Humla	13		122		22.656		4		47.80		23935		0.43		0.52	
Ilam	69		535		6.819		7		77.90		141851		0.58		0.40	
Jajarkot	39		180		41.174		3		57.30		63064		0.46		0.52	
Jhapa	0		891		0.545		24		75.10		329345		0.57		0.42	
Jumla	209		210		44.311		5		54.70		49969		0.46		0.47	
Kailali	125		651		6.269		38		66.30		300447		0.51		0.40	

District	F.40	F.42	F.35	F.46	F.48	F.49	F.50	F.51
	Improved water mills (No.)	Farmer cooperative (No.)	Solar plants coverage by households (%)	Ngos/cbos working in district (No.)	Literacy rate (%)	Economically active population (No.)	HDI	GDI
Source	MoFE, 2021c	MoFE, 2021b	MoFE, 2021c	MoFE, 2021i	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011
Kalikot	591	159	37.139	13	56.80	57078	0.43	0.47
Kanchanpur	0	418	0.986	30	70.70	171334	0.53	0.42
Kapilbastu	0	494	0.454	10	54.90	207804	0.49	0.55
Kaski	55	630	0.740	46	82.40	172639	0.62	0.55
Kathmandu	0	3,832	0.046	608	86.30	614432	0.67	0.52
Kavrepalanchok	810	1,495	2.177	24	69.80	177423	0.57	0.47
Khotang	18	173	25.155	2	68.80	92357	0.55	0.55
Lalitpur	307	1,153	0.211	89	82.50	190395	0.64	0.52
Lamjung	12	316	6.640	13	71.10	77772	0.56	0.40
Mahottari	0	797	1.092	11	46.40	183092	0.45	0.47
Makawanpur	1201	560	7.673	21	67.90	195842	0.55	0.55
Manang	5	19	8.564	0	74.80	3635	0.61	0.52
Morang	0	1,091	1.024	23	70.60	377417	0.56	0.40
Mugu	11	108	55.760	11	51.30	25305	0.45	0.52
Mustang	5	38	25.477	1	66.50	7784	0.55	0.47
Myagdi	23	210	11.307	4	71.90	54147	0.55	0.47
Bardahat Susta East	0	474	7.625	10	71.10	159987	0.43	0.47
Nuwakot	1198	464	1.602	13	70.80	132395	0.52	0.47
Okhaldhunga	200	155	21.752	4	59.80	69636	0.53	0.47
Palpa	1	266	7.656	14	64.40	118916	0.56	0.52
Panchthar	17	235	26.783	7	76.20	85951	0.55	0.47
Bardahat Susta West	0	0	0.500	11	71.10	172888	0.43	0.47
Parbat	5	334	4.451	10	73.80	70704	0.57	0.47
Parsa	0	512	2.054	14	52.50	182169	0.52	0.42
Pyuthan	78	193	6.864	4	67	109540	0.48	0.47
Ramechhap	440	493	21.389	4	62.20	97913	0.53	0.47
Rasuwa	187	114	6.365	3	53.60	20983	0.52	0.40
Rautahat	0	692	0.918	16	42.30	197110	0.46	0.40
Rolpa	131	161	47.438	2	60	94440	0.46	0.42
Rupandehi	0	779	0.237	21	69.80	318002	0.55	0.47
Salyan	216	178	34.552	9	64	101158	0.51	0.42

District	F.40		F.42		F.35		F.46		F.48		F.49		F.50		F.51	
	Improved water mills (No.)		Farmer cooperative (No.)		Solar plants coverage by households (%)		Ngos/cbos working in district (No.)		Literacy rate (%)		Economically active population (No.)		HDI		GDI	
Source	MoFE, 2021c	MoFE, 2021b	MoFE, 2021c	MoFE, 2021c	MoFE, 2021c	MoFE, 2021i	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011
Sankhuwasabha	5	145	19.292	1	69.40	89077	0.55	0.47								
Saptari	0	730	12	22	54.50	242522	0.50	0.42								
Sarlahi	0	857	2.293	11	46.30	224677	0.47	0.42								
Sindhuli	438	507	26.847	12	60.50	134796	0.50	0.42								
Sindhupalchok	678	740	1.256	10	59.60	150027	0.51	0.47								
Siraha	0	647	1.157	15	50.20	214342	0.47	0.42								
Solukhumbu	31	92	10.392	3	64.20	61607	0.56	0.52								
Sunsari	0	669	0.532	28	68.50	268483	0.55	0.47								
Surkhet	493	620	13.665	18	73.10	144505	0.54	0.47								
Syangja	1	369	2.983	8	76.60	131012	0.58	0.52								
Tanahu	1	390	9.470	10	74.80	132364	0.57	0.52								
Taplejung	2	175	28.046	6	71.30	59246	0.55	0.47								
Terhathum	0	201	9.260	3	74.60	55402	0.58	0.52								
Udayapur	22	307	19.724	4	68.80	133579	0.53	0.47								
Rukum West	0	0	46.450	2	72.30	69781	0.43	0.47								

District	F.52	F.53	F.57	F.58	F.59	F.60	F.61	F.65	F.66
	GDP	Per capita income (USD)	Percentage of households with access to radio (%)	Percentage of households with access to television (%)	Percentage of households with access to internet (%)	Percentage of households with access to mobile phone (%)	Road density	Number of emergency health services (No.)	Number of hh with private toilet (No.)
Source	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	MoFE, 2021f	CBS, 2011	CBS, 2011
Achham	5513.80	536	41.31	2.34	0.11	33.71	9	0	47.0
Arghakhachi	7198.20	909	75.24	25.13	0.46	70.97	14	0	71.3
Baglung	7198.20	868	58.27	19.11	1.17	68.13	13	0	79.8
Baitadi	5821.30	573	56.65	6.55	0.14	37.92	16	0	42.4
Bajhang	3816.60	487	57.82	4.09	0.18	25.39	3	1	29.2
Bajura	2851.50	523	42.72	1.81	0.21	25.41	2	0	37.7
Banke	22619.60	1133	37.65	37.04	1.63	60.26	10	0	47.7
Bara	41527	1480	33.30	37.65	0.47	61.53	16	1	26.6
Bardiya	18787.40	1086	47.44	27.92	0.49	61.82	10	0	48.5
Bhaktapur	17142	1379	56.19	82.72	13.08	86.92	97	2	96.3
Bhojpur	7383.70	999	61.75	9.04	0.45	54.38	7	1	63.9
Chitwan	36270.90	1537	64.09	53.69	7.20	79.82	11	3	93.7
Dadeldhura	4392.40	764	51.74	11.10	0.64	48.13	10	0	58.0
Dailekh	7266.70	684	47.72	2.84	0.23	37.78	18	0	48.3
Dang	25240.20	1127	55.76	26.89	0.98	70.76	12	0	60.4
Darchula	3397.20	627	63.62	7.08	0.31	38.82	5	0	46.4
Dhading	13391.60	982	63.87	22.60	0.71	63.51	11	1	70.0
Dhankuta	8335.40	1257	60.97	40.09	1.33	75.82	15	1	77.0
Dhanusa	28727.10	938	42.46	41.67	0.63	67.22	17	1	33.4
Dolakha	6991.90	922	72.84	21.23	0.52	52.97	7	1	69.4
Dolpa	1558.50	1040	38.17	7.14	0.52	44.45	0	0	50.5
Doti	6590.60	774	42.84	6.55	0.44	34.04	11	0	41.3
Rukum East	4477	782	58.09	3.57	0.17	36.91	6	0	34.3
Gorkha	11419.70	1039	65.27	32.31	0.47	61.62	6	0	72.7
Gulmi	8418.20	752	72.34	24.82	0.92	68.69	18	0	81.4
Humla	1649.20	794	43.41	7.31	0.68	38.68	1	0	50.1
Ilam	14852.20	1260	67.10	38.44	0.72	69.24	15	1	90.0
Jajarkot	4255.40	611	45.85	1.60	0.06	22.10	7	0	43.5



District	F.52	F.53	F.57	F.58	F.59	F.60	F.61	F.65	F.66
	GDP	Per capita income (USD)	Percentage of households with access to radio (%)	Percentage of households with access to television (%)	Percentage of households with access to internet (%)	Percentage of households with access to mobile phone (%)	Road density	Number of emergency health services (No.)	Number of hh with private toilet (No.)
Source	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	MoFE, 2021f	CBS, 2011	CBS, 2011
Jhapa	40370.20	1226	51.34	62.67	2.29	73.66	12	1	73.8
Jumla	4474.90	1007	42.44	10.87	0.40	46.09	4	0	68.7
Kailali	29569.90	942	46.35	32.65	1.30	65.77	10	0	48.7
Kailikot	3227.90	578	47.99	2.54	0.09	29.60	6	0	56.3
Kanchanpur	17140.60	938	45.82	41.81	1.01	64.30	10	0	54.5
Kapilbastu	23002.80	990	31.37	25.86	0.49	51.56	13	0	30.7
Kaski	31244.70	1561	63.27	63.49	8.56	84.28	6	2	98.8
Kathmandu	196723.10	2764	56.15	74.76	19.37	90.73	63	12	98.0
Kavrepalanchok	21777.60	1399	57.08	51.20	2.04	66.75	11	1	72.2
Khotang	9476.50	1132	62.82	9.44	0.30	40.99	13	1	62.9
Lalitpur	36179	1894	57.40	66.24	16.34	86.24	34	2	94.7
Lamjung	8057.90	1186	60.82	20.12	1.25	71.12	6	0	80.5
Mahottari	17283.90	681	34.93	31.92	0.22	51.00	18	2	26.9
Makawanpur	24156.70	1410	59.69	38.53	2.37	66.74	14	1	59.4
Manang	845	3166	53.94	32.87	1.31	66.51	1	0	65.1
Morang	49026.10	1251	39.79	45.51	2.61	67.81	12	3	63.4
Mugu	1955.10	866	33.94	3.36	0.15	35.43	1	0	47.3
Mustang	1055	1922	37.43	13.65	1.45	71.20	5	0	62.9
Myagdi	4721.80	1028	60.40	16.62	1.74	61.10	2	0	81.2
Bardahat Susta East	21780	1157	45.50	46.78	1.93	76.64	17	0	61.4
Nuwakot	12266.70	1086	59.59	30.73	0.75	60.11	19	1	58.5
Okhaldhunga	5748.30	957	68.93	5.13	0.47	42.84	13	1	70.1
Palpa	10373.80	985	65.95	31.89	2.35	75.70	18	0	76.0
Panchthar	8413.50	1082	63.76	11.58	0.57	59.17	18	1	87.9
Bardahat Susta West	11220	1157	45.50	46.78	1.93	76.64	17	0	61.4
Parbat	6004.50	1013	62.52	25.48	1.41	75.99	19	0	90.1

District	F.52	F.53	F.57	F.58	F.59	F.60	F.61	F.65	F.66
	GDP	Per capita income (USD)	Percentage of households with access to radio (%)	Percentage of households with access to television (%)	Percentage of households with access to internet (%)	Percentage of households with access to mobile phone (%)	Road density	Number of emergency health services (No.)	Number of hh with private toilet (No.)
Source	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	CBS, 2011	MoFE, 2021f	CBS, 2011	CBS, 2011
Parsa	30004.60	1223	29.85	39.38	1.48	59.88	6	2	33.8
Pyuthan	6191.90	681	64.99	7.38	0.51	54.86	13	0	70.9
Ramechhap	7835.80	951	66.35	12.70	0.25	50.15	7	1	62.5
Rasuwa	2677.40	1520	52.20	23.31	0.85	56.09	4	1	56.3
Rautahat	21193	757	37.14	22.77	0.24	47.00	11	2	23.0
Rolpa	5779	643	63.27	5.69	0.29	47.02	9	0	21.2
Rupandehi	40138.80	1123	37.64	42.96	3.02	77.34	12	0	57.8
Salyan	7703.80	786	67.67	4.76	0.31	45.00	12	0	28.4
Sankhuwasabha	7687.80	1193	62.60	16.76	0.78	61.81	5	1	77.8
Saptari	20822.90	801	37.70	27.38	0.31	51.13	18	3	19.4
Sarlahi	25341.10	809	37.89	27.89	0.37	49.26	14	1	25.3
Sindhuli	9884.10	822	53.76	18.20	0.41	45.19	11	1	33.1
Sindhupalchok	12976.40	1110	52.00	33.91	0.59	59.34	8	1	63.6
Siraha	17784.30	689	36.47	35.54	0.32	56.43	12	2	20.4
Solukhumbu	7947.90	1841	70.19	7.75	0.69	44.39	1	1	75.2
Sunsari	34261.10	1104	37.89	52.60	1.99	69.49	15	1	63.4
Surkhet	12925	911	52.79	21.68	1.03	59.50		0	70.7
Syangja	14179.90	1215	57.50	25.28	1.86	79.67		0	89.4
Tanahu	14006.50	1072	54.08	34.91	1.53	74.70		0	83.3
Taplejung	6802.80	1313	67.62	11.17	0.47	58.78		1	73.4
Terhathum	5850.40	1419	65.79	27.87	0.73	68.50		1	74.8
Udayapur	11841.70	920	45.51	25.18	0.45	61.01		2	51.3
Rukum West	3242	782	58.09	3.57	0.17	36.91		0	34.3

District	F.67	F.68	F.70	F.71	F.72	F.73	F.74	F.75	F.76	F.77
	Improved drinking water access of households (%)	Number of hh with rainwater harvesting (No.)	Government hospitals (No.)	Primary health care centers (No.)	Health posts (No.)	Private/non-public health institutions (No.)	Registered medical stores (No.)	Health laboratories (No.)	Water supply infrastructures and services (No.)	Water and sludge treatment plants (No.)
Source	CBS, 2011	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d
Achham	20.6	75	1	2	74	3	112	0	738	0
Arghakhachi	13.4	312	1	2	39	7	100	0	1280	0
Baglung	2.2	99	1	3	58	6	114	0	1159	0
Baitadi	20.6	129	1	2	65	1	73	0	1185	0
Bajhang	20.6	8	1	2	45	1	37	0	571	0
Bajura	20.6	68	1	1	26	1	31	0	504	0
Banke	15.7	0	3	3	44	26	892	7	23	0
Bara	23.3	0	1	5	94	22	318	0	22	2
Bardiya	15.7	0	1	3	30	9	373	0	21	0
Bhaktapur	16.1	2	3	2	19	54	432	5	174	1
Bhojpur	21.6	0	1	3	60	5	33	0	1051	0
Chitwan	21.8	112	4	3	36	71	1056	17	254	3
Dadeldhura	20.6	0	2	0	24	10	78	0	651	0
Dailekh	2.9	39	2	2	56	13	51	0	642	0
Dang	13.4	81	3	2	36	14	731	3	266	0
Darchula	20.6	381	2	0	40	0	14	0	487	0
Dhading	2.5	26	1	2	49	16	146	1	1135	0
Dhankuta	21.6	39	1	2	35	9	89	0	908	0
Dhanusa	23.3	0	1	5	98	17	708	8	28	0
Dolakha	2.5	3	1	2	52	10	48	0	1315	0
Dolpa	2.9	0	1	0	23	0	16	0	95	0
Doti	20.6	0	2	2	49	7	69	0	399	0
Rukum East	15.7	0	0	1	15	1	52	0	268	0
Gorkha	2.2	147	1	3	66	10	101	0	1165	0
Gulmi	15.7	1362	1	4	76	6	144	1	1339	0
Humla	2.9	0	1	0	26	1	8	0	122	0
Ilam	21.6	35	1	4	44	3	111	0	1037	0

District	F.67	F.68	F.70	F.71	F.72	F.73	F.74	F.75	F.76	F.77
	Improved drinking water access of households (%)	Number of hh with rainwater harvesting (No.)	Government hospitals (No.)	Primary health care centers (No.)	Health posts (No.)	Private/non-public health institutions (No.)	Registered medical stores (No.)	Health laboratories (No.)	Water supply infrastructures and services (No.)	Water and sludge treatment plants (No.)
Source	CBS, 2011	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d
Jajarkot	2.9	42	1	2	32	0	42	0	470	0
Jhapa	21.6	275	1	6	44	32	1042	5	134	0
Jumla	2.9	0	1	1	29	10	42	0	194	0
Kailali	20.6	0	3	4	37	15	980	9	165	0
Kalikot	2.9	0	1	1	28	0	21	0	204	0
Kanchanpur	20.6	0	1	3	18	7	363	0	43	0
Kapilbastu	15.7	0	3	2	73	16	233	2	32	0
Kaski	2.2	62	2	4	45	21	818	8	1004	2
Kathmandu	16.1	89	14	8	58	948	3644	246	318	14
Kavrepalanchok	21.8	55	1	4	89	36	203	0	933	13
Khotang	21.6	0	1	2	73	2	28	0	1238	0
Lalitpur	16.1	4	3	4	38	186	748	41	259	8
Lamjung	2.2	69	2	2	58	17	93	0	789	1
Mahottari	23.3	0	2	3	72	13	231	0	53	0
Makawanpur	21.8	196	1	4	41	15	234	5	635	4
Manang	2.2	0	1	0	13	2	0	0	44	0
Morang	21.6	0	3	6	60	37	1700	10	172	1
Mugu	2.9	0	1	1	24	0	23	0	139	0
Mustang	2.2	0	1	1	15	0	2	0	76	0
Myagdi	2.2	0	1	1	39	1	34	0	470	0
Bardahat Susta East	2.2	4	0	3	35	11	262	2	27	0
Nuwakot	2.5	33	1	3	63	12	126	0	1331	0
Okhaldhunga	42.8	127	1	1	54	3	30	0	935	0
Palpa	13.4	400	2	2	62	6	147	0	1655	2
Panchthar	21.6	0	1	2	40	4	72	0	908	2
Bardahat Susta West	13.4	0	2	2	36	11	130	0	25	1

District	F.67	F.68	F.70	F.71	F.72	F.73	F.74	F.75	F.76	F.77
	Improved drinking water access of households (%)	Number of hh with rainwater harvesting (No.)	Government hospitals (No.)	Primary health care centers (No.)	Health posts (No.)	Private/non-public health institutions (No.)	Registered medical stores (No.)	Health laboratories (No.)	Water supply infrastructures and services (No.)	Water and sludge treatment plants (No.)
Source	CBS, 2011	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d	MoFE, 2021d
Parbat	2.2	90	1	2	52	4	70	0	893	0
Parsa	23.3	0	2	3	79	34	756	0	25	3
Pyuthan	15.7	89	1	2	46	5	94	0	907	0
Ramechhap	2.5	23	1	3	52	5	46	0	917	0
Rasuwa	2.5	0	1	1	17	2	11	0	189	0
Rautahat	23.3	0	2	3	93	8	422	0	53	0
Rolpa	15.7	211	1	2	49	5	48	0	565	0
Rupandehi	13.4	2	4	8	136	81	1091	7	88	0
Salyan	2.9	331	1	2	45	0	85	0	950	0
Sankhuwasabha	21.6	35	1	2	36	8	64	0	800	0
Saptari	23.3	2	2	4	111	7	585	5	27	0
Sarlahi	23.3	99	1	5	94	9	408	0	26	0
Sindhuli	2.5	0	1	4	51	21	75	17	691	0
Sindhupalchok	2.5	95	1	3	75	10	59	0	1180	0
Siraha	23.3	1	2	4	104	59	563	0	17	0
Solukhumbu	21.6	0	1	2	32	3	11	3	498	0
Sunsari	21.6	5	2	5	47	18	1090	0	115	0
Surkhet	4.2	0	2	3	47	34	241	1	487	0
Syangja	2.2	132	2	3	64	4	148	0	1476	1
Tanahu	2.2	594	3	2	46	25	213	8	1560	0
Taplejung	21.6	0	1	2	50	5	27	0	355	0
Terhathum	21.6	8	1	2	29	1	35	0	504	0
Udayapur	42.8	60	2	1	44	6	204	0	356	0
Rukum West	2.9	0	1	1	26	2	37	0	114	0

## G. Mitigation Capacity

Code	Indicators	Source	Data	Remarks
G.6	Pollution tax from petroleum products (NPR)	OAG, 2022	12,81,31,0000	2065/66-2077/78
G.8	Installed capacity of alternative energy (MW)	15 <sup>th</sup> plan	67.8	
G.9	Proportion of consumption of renewable energy (%)	MoF, 2021	3.21	2019/20
G.10	Proportion of consumption of hydro electricity (%)	MoF, 2021	3.78	2019/20
G.17	Coverage of Electric vehicle (%)	MoFE, 2021	1	
G.25	Production of hydroelectricity (MW)	MoF, 2021	1299	2019/20



