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National Statistics Bureau

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Statistical Yearbook of Bhutan 2018

October 2018

ORGANOGRAM OF THE ROYAL GOVERNMENT OFBHUTAN
POST CONSTITUTIONAL ENACTMENT 2009

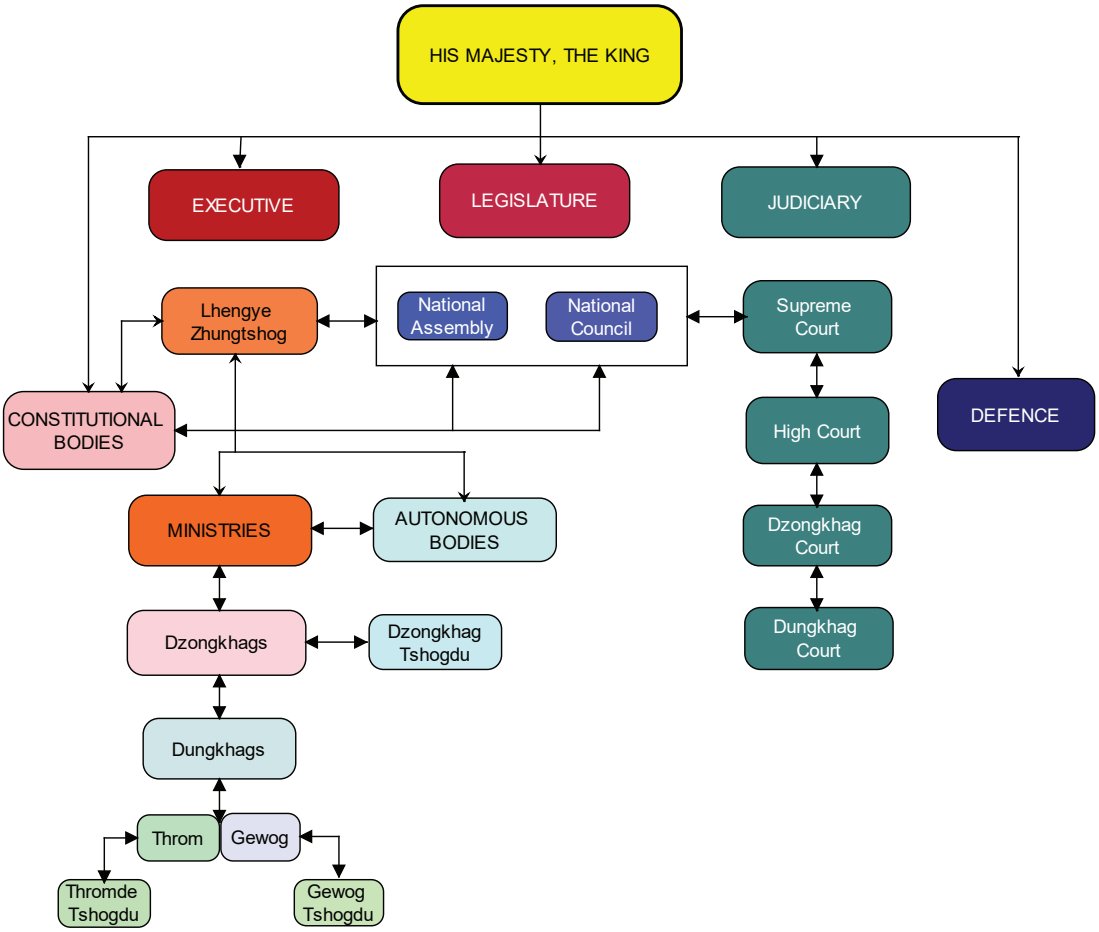


TABLE OF CONTENTS

Preface i
Notes for users ii
Units of Measurement iii
Key Facts about Bhutan v
Bhutan vi

CHAPTER 1: POPULATION 1

TABLE
1.1: Population by Sex and Dzongkhag/Thromde, Bhutan 2017 3
1.2: Population by Sex, Area and Dzongkhag, Bhutan 2017 4
1.3: Population by Age, Sex and Area, Bhutan 2017 5
1.4: Population by Broad Age Groups, Dependency Ratios, Ageing Index and Dzongkhag/Thromde, Bhutan 2017 6
1.5: Population Density by Dzongkhag, Bhutan 2005 and 2017 8
1.6: Mean Age at First Birth by Dzongkhag, Bhutan 2017 9
1.7: Crude Birth Rate, Total Fertility Rate, Crude Death Rate, General Fertility Rate, Infant Mortality Rate, Child Mortality Rate and Under 5 Mortality Rate by Dzongkhag/Thromde, Bhutan 2017 10

CHAPTER 2: HEALTH 11

TABLE
2.1: Summary of Health Facilities and Personnel, Bhutan, (2013-2017) 12
2.2: Type of Health Facilities by Dzongkhag, Bhutan, 2017 13
2.3: Health Personnel by Category, Bhutan, (2013-2017) 14
2.4: Top Ten Morbidity, Bhutan, 2017 14
2.5: Top Ten Inpatient Hospital Mortality, Bhutan, 2017 15
2.6: Total Morbidity by sex and age group, Bhutan, 2017 16
2.7: Inpatient Cases in all Hospitals by Sex and Age Group, Bhutan, 2017 24
2.8: Outpatient Cases in all Hospitals by Sex and Age, Bhutan, 2017 32
2.9: Number of Patient Admissions & Average Length of Stay in Dzongkhag Hospitals, (2016-2017) 40
2.10: Nutritional and Vitamin A Status of Children Attending Clinics by Dzongkhag, Bhutan 42
2.11: Immunization Status by Dzongkhag, Bhutan, 2017 44
2.12: Details of Maternal & Child Health Care Activities, Bhutan (2013-2017) 45
2.13: Family Planning Methods by Type, Bhutan, (2013-2017) 45
2.14: Number of Users of Family Planning Methods by Type, by Dzongkhag, Bhutan, 2017 46
2.15: Number of Malaria Cases by Type and Deaths, Bhutan (2013-2017) 47
2.16: Number of Tuberculosis Cases by Type, Bhutan, 2017 48
2.17: Types of Water and Sanitation Facility by Dzongkhag, Bhutan, 2017 50

CHAPTER 3: EDUCATION 51
TABLE
3.1: Key Education Indicators by Year (2013-2017) 52
3.2: Number of Schools, Institutes & Centres, Bhutan, 2017 53
3.3: Number of Students, Learners, Trainees and Novitiates, Bhutan, 2017 54
3.4: Summary of Teachers, Lecturers, Instructors, Trainers and Facilitators, Bhutan 2017 55
3.5: Number of Schools by Type and Dzongkhag, Bhutan, 2017 56
3.6: Enrolment in Institutions and at Tertiary level, Bhutan (2013-2017) 57
3.7: Comparative Enrolment by Grade and Schools (2016-2017) 58
3.8: Number of Students by Grade, Bhutan (2013-2017) 60

CHAPTER 4: LABOUR AND EMPLOYMENT 61
TABLE
4.1: Civil Servants by Position Category and Employment Type, Bhutan (2014-2017) 62
4.2: Civil Servants by Working Agency and Employment Type, Bhutan, 2017 64
4.3: Civil Servants by Position Level and Sex, Bhutan, 2017 70
4.4: Percentage Distribution of Economically Active Population by Dzongkhag and Sex, Bhutan, 2016 72
4.5: Percentage Distribution of Employed Persons by Major Occupation and Sex, Bhutan, 2016 72
4.6: Percentage Distribution of Employed Persons by Nature of Employment and Sex, Bhutan, 2016 73
4.7: Percentage Distribution of Labour Force Participation, Employment Status by Age Group and Sex, Bhutan, 2016 73
4.8: Number of Persons Employed by Age Group,Type of Enterrise & Sex, Bhutan, 2016 74
4.9: Total Employed Persons by Age Group and Level of Education, Bhutan, 2016 74
4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2016 76
4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan 78
4.12: Employed Persons who looked for additional work by Dzongkhag, Sex and Area of Residence, Bhutan, 2016 80
4.13: Employed persons who worked per week by hours and by Major Economic Activity, Bhutan, 2016 81
4.14: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2016 82
4.15: Employed persons who worked during the past one week by nature of employment and hours of work, Bhutan, ... 84
4.16: Unemployed Persons by Age Group, Sex and Area of Residence, Bhutan, 2016 84

CHAPTER 5: LAND USE AND AGRICULTURE 85
TABLE
5.1: Number of Agriculture Research and Extension Facilities, Bhutan (2013-2017 87
5.2: Area Proportion by Altitude Zones as Percentage of Total Country Area, Bhutan, 2010 89
5.3: Area Proportion by Altitude Zones as Percentage of Total Dzongkhag Area, Bhutan, 2017 90
5.4: Distribution of Plant Protection Chemicals by Dzongkhag, Bhutan, (2012/13-2017) 92
5.5: Agriculture Land Holdings & Land Types by Dzongkhag, Bhutan, 2010 93
5.6: Cultivated Area, Production and Yield of Major Crops by Dzongkhag, Bhutan, 2017 94

5.7: Number of Livestock by Type and Dzongkhag, Bhutan (2015-2017) 96
5.8: Diary and Livestock Production by Type and Dzongkhag, Bhutan (2015-2017) 100
5.9: Fruit Production and Yield, Bhutan (2013-2017) 104
5.10: Vegetables, Oilseeds, Spices and Pulses Production, Bhutan (2013-2017) 105
5.11: Volume and Value of Exports by Major Commodities, Bhutan (2013-2017) 106
5.12: Volume and Value of Imports by Major Commodities, Bhutan (2013-2017) 108
5.13: Annual Average Price of Farm Products Received by Farmers by Type, Bhutan, (2013-2017) 110
5.14: Imports and Sales of Food Items by Food Corporation of Bhutan (2013-2017) 111
5.15: Quantity of Agricultural Produce Handled by Food Corporation of Bhutan (2013-2017) 112

CHAPTER 6: ENVIROMENT STATISTICS 113

TABLE

6.1: Area of Land-Use and Vegetation by Type, Bhutan, 2017 114
6.2: Area Proportion as Percentage of Total Dzongkhag Area by Type of Land Cover, Bhutan, 2017 115
6.3: Area Proportion as Percentage of Total Country Area by Type of Land Cover, Bhutan, 2010 116
6.4: Forest Area under Tree Cover by Dzongkhags, Bhutan, 2010 117
6.5: Monthly Maximum and Minimum Average Temperature by Dzongkhag, Bhutan, 2017 118
6.6: Total Monthly Rainfall at Existing Stations in Each Dzongkhag, Bhutan, 2017 120
6.7: Details of Protected Areas in Bhutan, by Year of Establishment and Area, Bhutan, 2017 122
6.8: Wood and Non-Wood Forest Products Supplied by Natural Resources Development Corporation Limited, Bhutan, (2013-2017) 123
6.9: Supply of Timber by Divisions by Product Type, Bhutan, 2017 124
6.10: Supply of Timber by Parks and Wildlife Sancturies by Product Type, Bhutan, 2017 126
6.11: Quantity of Timber Supplied and Royalties Realized by Divisions and Parks, Bhutan, (2013-2014 to 2017) 127
6.12: Non-wood Forest Products Supplied and Revenue Generated Through Royalty (Nu.), Bhutan, 2017 128
6.13: Distribution of Geographical Area by Agro-Ecological Zones, Bhutan, 2010 130
6.14: Mineral Production by Type, Bhutan (2013-2017) 131
6.15: Mineral Production by Type and Use, Bhutan (2014-2017) 132
6.16: Length of Roads by Type, Bhutan (2013-2017) 134
6.17: Length of Roads by Type and Dzongkhag, Bhutan, June 2018 135
6.18: Number of Registered Vehicles by Type and Region (2014- June 2018) 136
6.19: Total Electricity Generation and Supply, Bhutan (2013-2017) 138
6.20: Consumption of Electricity by Type of Consumer, 2017 139
6.21: Percentage of Major Attraction to Bhutan, 2017 139
6.22: Import of Petroleum Products by Volume and Value, (2013-2017) 140
6.23: Total Ghg Emissions in Bhutan, 2000 140
6.24: PM 10 Concentration (Microgram/m3) for Thimphu Dzongkhag (2015-2017) 142

CHAPTER 7: INDUSTRIES 143
TABLE
7.1: Number of Licensed Firms in Production& Manufacturing, Services and Contract by Ownership, Bhutan (June 2017-June 2018) 144
7.2: Number of Industrial Establishments by Sector, Bhutan (2014-June 2018) 144
7.3: Number of Contract Firms by Size, by Dzongkhag, Bhutan, (June 2017-June 2018) 145
7.4: Number of Industries by Ownership, Size and Type, Bhutan (June 2016-June 2018) 146
7.5: Number of Industrial Firms by Scale, by Dzongkhag, Bhutan, (June 2017-June 2018) 147
7.6: Number of Industries by Type in Cottage and Small by Dzongkhag, Bhutan, (June 2017-June 2018) 148
7.7: Number of Industries by Type in Medium and Large by Dzongkhag, Bhutan, (June 2017-June 2018) 149
7.8: Establishments covered by Dzongkhag and Area, Bhutan, 2017 150
7.9: Establishments covered by Trade Region and Area, Bhutan, 2017 150
7.10: Establishments covered by Trade Region and Sector, Bhutan, 2017 151
7.11: Establishments covered by Trade Region and Scale, Bhutan, 2017 151
7.12: Establishment covered by Sector and Scale, Bhutan, 2017 152
7.13: Establishments covered by Subsector and Scale, Bhutan, 2017 152
7.14: Establishments covered by type of Organization and Scale, Bhutan, 2017 153
7.15: Employments covered by Major Economic Activity and Scale, Bhutan, 2017 153

CHAPTER 8: TRANSPORT AND COMMUNICATION 155
TABLE
8.1: Number and Length of Motorable Bridges by Type, Bhutan, June 2018 157
8.2: Number of Pedestrian Bridges Constructed Since 5Th Five Year Plan by Dzongkhag, June 2018 158
8.3: Number of Driving Licenses Issued by Region, Bhutan (2013-June 2018) 159
8.4: Number of Passengers Carried & Revenue Earned by Druk Air Flights by Area of Operation (2013-2017) 160
8.5: Number of Flights Made by Druk Air by International and Domestic by Area of Operation (2013-2017) 162
8.6: Number of Passengers Carried & Revenue Earned by Tashi Air Flights by Area of Operation (2013-2016) 164
8.7: Number of Flights Made by Tashi Air by International and by Area of Operation (2013-2017) 165
8.8: Type of Helicopter Services and Number of Flights Made, 2017 165
8.9: Number of Telephone Connection Capacity by Dzongkhag (2013-2017) 166
8.10: Number of Telephone Trunk Circuits, Bhutan, June 2018 167
8.11: Number of Trunk Lines, Connection Capacities, Sets in Use & Mobile Subscribers (2013-2017) 169
8.12: Number of Telephone Trunk Calls and Revenue Earnings, Bhutan (2013-2017) 170
8.13: Number of B-Mobile Trunk Calls and Revenue Earnings, Bhutan, (2013-2017) 170
8.14: Number of Tashicell Trunk Calls and Revenue Earnings, Bhutan (2013-2017) 171
8.15: Number of Postal Infrastructures (2013-2017) 171
8.16: Volume of Mail, by Type of Article (2013-2017) 172

8.17: Financial Services, Number and Value of Money Order by Type, Bhutan (2013-2017) 173
8.18: Volume of Mail, by Type of Article, DHL (2013-2017) 174

CHAPTER 9: ENERGY 175
TABLE
9.1: Hydro Generating Stations and Their Capacities, Bhutan (2015-2017) 176
9.2: Details of Diesel Generator Sets, Bhutan, 2017 177
9.3: Major Transmission Lines, 2017 180
9.4: Monthly Revenue from Sale of Energy from Chhukha Power Plant 184
9.5: Monthly Revenue from Sale of Energy from Tala Power Plant (2014-2017) 185
9.6: Monthly Revenue from Sale of Energy from Kurichu Power Plant (2014-2017) 186
9.7: Monthly Revenue from Sale of Energy from Dagachhu Power Plant (2016- 2017) 187
9.8: Details of Domestic Electrical Energy Consumption (2013-2017) 188

CHAPTER 10: TOURISM 189
TABLE
10.1: Annual International Tourist Arrivals by Country and Region, Bhutan (2013-2017) 190
10.2: Tourist Arrivals by Regions and Revenue Receipts, Bhutan, (2013-2017) 202
10.3: Number of Tourist Arrivals by Season and Month, Bhutan (2013-2017) 203
10.4: Percentage of Tourist Arrivals by Purpose of Visit, Bhutan, 2017 203
10.5: Total Number of Tourist Arrivals by Dzongkhag, 2017 204
10.6: Percent of Top Ten Markets by Gender, Bhutan, 2017 204
10.7: Total Number of Accommodation Providers by Bed Nights by Dzongkhag, 2017 205
10.8: Comparison of Top Ten Ranking of International Markets for the Year 2015, 2016 and 2017,Bhutan 206

CHAPTER 11: FOREIGN TRADE AND BALANCE OF PAYMENTS 207
TABLE
11.1: Balance of Trade, Bhutan, (2013-2017) 208
11.2: Top Ten Commodities of Exports, Bhutan, 2017 208
11.3: Top Ten Commodities of Imports, Bhutan, 2017 209
11.4: Country wise Import in Ranking Order, 2017 209
11.5: Country wise Export in Ranking Order, 2017 210
11.6: Overall Balance of Payments Estimates, Bhutan, FY 2012/13 to 2016/17 211
11.7: Gross International Reserves (End Period), Bhutan, 2012/13 to 2016/17 212
11.8: Monthly Average Exchange Rates, Ngultrum per US $, (2013 - 2017 213

CHAPTER 12: MONEY, BANKING AND FINANCE 215
TABLE
12.1: Monetary Survey: Royal Monetary Authority, Bhutan National Bank, Bank of Bhutan, Bhutan Development Bank, Druk PNB Bank and T Bank (2013-2017) 216
12.2: Monetary and Financial Statistics of Royal Insurance Corporation of Bhutan (2013-2017) 217
12.3: Monetary and Financial Statistics of Bhutan National Bank Limited, (2013-2017) 218

12.4: Monetary and Financial Statistics of Bhutan Development Bank Limited, December (2013-2017) 219
12.5: Monetary and Financial Statistics of Royal Monetary Authority of Bhutan, (2013-2017) 220
12.6: Monetary and Financial Statistics, Bank of Bhutan Limited, (2013-2017) 221
12.7: Monetary and Financial Statistics of T-Bank Ltd, December (2013- 2017).....222
12.8: Monetary and Financial Statistics of Druk PNB Bank Ltd., December (2013-2017).....223
12.9: Monetary and Financial Statistics of Bhutan Insurance Limited, December (2013-2017).....224
12.10: Lending of Financial Institutions by Industry, Amounts Outstanding, (2013-2017).....225
12.11: Interest Rates of Deposits in Financial Institutions, (2013-2017) 228
12.12: Royal Securities Exchange of Bhutan Ltd. Number of Share Holders, at the End of December, (2013-2017) 229
12.13: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2015-2017).....230
12.14: Royal Securities Exchange of Bhutan Ltd. Market Information at the End of December, 2017.....232
12.15: Royal Securities Exchange of Bhutan Ltd. Total Traded Volume at the End of December, (2013 - 2017) 233
12.16: Royal Securities Exchange of Bhutan Ltd. Traded Values, (2013 - 2017).....234
12.17: Dividend Declared by Company (2013-2017) 236

CHAPTER 13: PUBLIC FINANCE..... 237

TABLE

13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2012/13 to 2016/17 238
13.2: Actual Annual Capital Expenditure of the Government by Agency for the FY 2012/13 to 2016/17 240
13.3: The Sector-wise Government Expenditures for the FY 2013/14 to 2016/17 242
13.4: Summary of National Revenue Collections by Source for the FY 2012/13 to 2016/17 243
13.5: Fiscal Framework of Government, Bhutan, 2012/13 to 2016/17.....244
13.6: Revenue Collection by Sector, FY 2012/13 to 2016/17 245
13.7: Government Debt Stock & Debt Service, 2011/12 to 2015/2016 246

CHAPTER 14: PLAN OUTLAYS..... 247

TABLE

14.1: Tenth Plan Budgetary Outlay and Allocation, Bhutan (2008-2013).....248
14.2: Eleventh Plan Budgetary Outlay and Allocation, Bhutan (2013-2018).....250
14.3: Dzongkhag wise Ninth Five Year Plan Outlay, Bhutan (2002-2007) 252
14.4: Dzongkhag wise Tenth Five Year Plan Outlay, Bhutan (2008-2013).....253
14.5: Dzongkhag wise Eleventh Five Year Plan Outlay, Bhutan (2013-2018) 254
14.6: Indicative Capital Allocation to Gewogs, Eleventh Five Year Plan (2013-2018).....255

CHAPTER 15: NATIONAL ACCOUNTS..... 263

TABLE

15.1: GDP by Economic Activity at Current Prices (2013-2017) 264
15.2: Percentage Share of GDP by Economic Activity at Current Prices (2013-2017) 265
15.3: Sectoral Growth Rates of GDP in Constant Prices (2013-2017) 266

15.4: Gross Domestic Product by Major Economic Sectors in Current Prices (2013-2017) 267
15.5: Percentage Share of GDP by Major Sector in Current Prices (2013-2017) 267
15.6: Year on Year GDP Growth (2013-2017) 267
15.7: GDP by Expenditure at Current Prices (2013-2017) 268
15.8: GDP Share of Expenditure at Current Prices (2013-2017) 269

CHAPTER 16: PRICES 271
TABLE
16.1: Year on Year Inflation 272
16.2: Year-on-Year Percent Change by Group Level 272
16.3: Month-on-Month Index and Percent Change in the CPI by Overall Index 274
16.4: Month-on-Month Index & Percent Change by Domestic 275
16.5: Month-on-Month Index & Percent Change by Imported 275
16.6: Month-on-Month Index and Percent Change by Group Level 276
16.7: Monthly Producer Price Index (PPI) by Industry (September 2011=100) 278
16.8: Monthly Percentage Change in Producer Price Index (PPI) by Industry 278
16.9: Annual Percentage Change in Producer Price Index (PPI) by Industry 278
16.10: Monthly Producer Price Index (PPI) by Product 280
16.11: Monthly Percentage Change in Producer Price Index (PPI) by Product 280
16.12: Annual Percentage Change in Producer Price Index (PPI) by Product 282

CHAPTER 17: CRIME 285
TABLE
17.1: Types of Offence Recorded, (2013 - 2017) 286
17.2: Types of Other Non-Penal Incidents Recorded, (2013 - 2017) 288
17.3: Motor Vehicle Accident by Dzongkhag, (2013 - 2017) 288
17.4: Monthly Motor Vehicle Accident by Dzongkhag, 2017 289
17.5: Motor Vehicle Accidents by Causes by Dzongkhag, (2013-2017) 290
17.6: Number of Houses Destroyed by Fire by Dzongkhag, (2013-2017) 293
17.7: Fines Imposed for Violation of Traffic Rules by Division, (2013-2017) 294

List of Dzongkhags, Gewogs and Chiwogs, Bhutan, 2015 295
Administrative Map of Bhutan 325

PREFACE

This Statistical Yearbook of Bhutan (SYB) 2018 publication is the 36th edition. It is a comprehensive and systematic compendium of basic statistical information on the country's socio-economic conditions.

The SYB is expected to serve as the principal source of information for planners, policy makers, researchers and academicians both within and outside Bhutan. The compilation is based on information gathered through periodic statistical censuses and surveys, as well as from administrative data maintained by various ministries, agencies, corporations and private organizations. This publication is also available through electronic services at www.nsb.gov.bt

Every effort has been made to ensure that this publication meets acceptable statistical standards. Data validation, compilation and updating protocols have been strictly observed with all the data disseminating/providing agencies. New data series on topics of interest are included as and when available. Brief explanatory notes on coverage and data sources, wherever possible, have also been provided for the benefit of the users.

The NSB would like to acknowledge the contribution of different ministries, agencies, corporations and private organizations that provided data and information for SYB 2018. In order to improve the quality of the forthcoming issues, we solicit comments and suggestions from the users of this yearbook.

Director
National Statistics Bureau

NOTES FOR USERS

1. Unless otherwise indicated, the present issue of the Yearbook contains statistics available as of December 2017 and until June 2018.

2. For some tables, there are footnotes indicating information specific to each figure in the table.

3. The following notations are used in the tables:
   … not available/not applicable
   () negative figures
   CY calendar year (from January to December)
   FY fiscal year (from July to June, example: 2014/15)

4. Detail figures in the tables may not add up to the totals because of rounding.

5. When contents of this book are to be quoted or copied in other publication/report, please give due credit by referring the title of this yearbook *(Example)* ***Source: Statistical Yearbook of Bhutan 2018, National Statistics Bureau.***

6. For additional information on data or for any other queries, please refer to the original source or National Statistics Bureau.

Numbering and Scientific notations

Hundred	=	10^2
Thousand	=	10^3
Million	=	10^6
Billion	=	10^9
Trillion	=	10^{12}

A. Length Measurement

I. Metric Equivalents

10 mm	=	1 cm
10 cm	=	1 dm
10 dm	=	1 m
10 m	=	1 dkm
10 dkm	=	1 hm
10 hm	=	1 km

Abbreviations

mm	=	millimeter
cm	=	centimeter
m	=	meter
dm	=	decimeter
dkm	=	dekameter
hm	=	hectometer

II. British Units

12 inches	=	1 foot
3 feet	=	1 yard
5.5 yards	=	1 rod, pole
4 poles	=	1 chain
10 chains	=	1 furlong
8 furlongs	=	1 mile

III. Conversion from British to Metric Units (lengths)

1 inch	=	2.539998 cm	1 m	=	39.3370113 inches
1 foot	=	0.3047997 m	1 m	=	3.280843 feet
1 yard	=	0.9143992 m	1 m	=	1.093614 yard
1 mile	=	1.609343 km	1 k	=	0.6213717 miles
1 nautical mile	=	1.853182 km			

B. Area Measurements

I. British Units

144 square inches	=	1 square foot
9 square feet	=	1 square yard
30 1/4 yards	=	1 square rod, pole
40 square rod	=	1 rood
4 roods	=	1 acre
640 acres	=	1 square miles

II. Metric Units

100 square mm	=	1 square cm
100 square cm	=	1 square dm
100 square dm	=	1 square m
100 square m	=	1 acre
100 square acres	=	1 hectare
100 hectares	=	1 square km

III. Conversion from British to Metric Units (Area)

1 square yard	=	0.836 square m
1 square feet	=	0.093 square m
1 square inch	=	6.452 square cm
1 square m	=	1.196 square yard
1 square cm	=	0.155 square inch
1 square mile	=	2.590 square km
1 square km	=	0.386 square mile

C. Weight Measurements

I. British Units

16 dram	=	1 ounce
16 ounces	=	1 pound
112 pounds	=	1 cwt (hundredweight)
20 cwt	=	1 ton
14 pounds	=	1 stone

II. Metric Units

10 mg	=	1 cg
10 cg	=	1 dg
10 dg	=	1 g
10 g	=	1 dkg
10 dkg	=	1 hg
10hg	=	1 kg
100 kg	=	1 quintal
200 m	=	1 carat

III. Conversion from British to Metric Units

1 grain	=	0.0648 g
1 ounce	=	31.103 g
1 g	=	15.432 grains
1 pound	=	0.373 kg
1 tone	=	1.016 metric tones

D. Conversion of Air Temperatures

I. Degree Celsius to degree Fahrenheit.

(9 x T)/5 + 32, where ***"T"*** is temperature in degree Celsius.

II. Fahrenheit to degree Celsius.

5 x (T - 32)/9, where ***"T"*** is temperature in Fahrenheit.

KEY FACTS ABOUT BHUTAN

Land Area (Sq. km)	38,394
Forest Cover (percent)	70.5%
Projected Population (in nos.), 2017	727,145
Natural Population Growth Rate (percent), PHCB 2017	0.9
Average Household Size, (PHCB, 2017)	3.9
National Language	Dzongkha
National Currency	Ngultrum (Nu.)
Number of Hospitals, 2017	27
Number of Doctors, 2017	345
Number of Civil Servants, (as of 31st December 2017)	28,070
Number of Schools, Institutes and Centers, 2017	1,854
Number of Teachers, Lecturers, Instructors & Trainers, 2017	12,057
Number of Students (Including Institutes & NFE), 2017	213,766
Labour Force Participation Rate, (LFS 2016)	62.2
Unemployment Rate, (LFS 2016)	2.1
Telephone Sets in Use, 2017	21,364
B-Mobile Subscriber (Nos.), 2017	475,394
Tashicell Subscriber (Nos.), 2017	255,229
Postal Infrastructure (Nos.), 2017	88
Total Road Length (Km.), 2017	18,180.9
Number of Registered Vehicles, June 2017	96,307
Electricity Generation (MU), 2017	7,729.77
Electricity Exports (MU), 2017	5,700.99
Tourist Arrivals (dollar paying tourist), 2017	62,272
Revenue Earned from Tourism (million US $), 2017	79.81
Total Industrial Establishments, 2017	43,924
Balance of Trade (million Nu.), 2017	(29,699.0)
Exchange Rate (Calendar Year), Nu. Per US $, 2017	65.10
Gross International Money Reserves (million US $), 2016/17	1,103.76
Total Eleventh Plan Budgetary Outlay (million Nu.) 2013-2018	213,291.46
GDP at Current Price (million Nu.), 2016/17	164,627.92
Annual Average Inflation Rate (percent), 2017	4.96
Purchasing Power of Nu. 2017 (Base Year =2012)	76.22

Location and Extent

Bhutan is a small and landlocked country, situated between China *(Tibet)* and India. It has an area of 38,394 square kilometers. It has east-west dimension (longest) stretching around 300 kilometers and 170 kilometers at its maximum north-south dimension. Bhutan is located in the eastern Himalayas and is mostly mountainous and heavily forested. It shares 470 kilometers long border with Tibet *(China's Xizang Autonomous Region)* in the north and northwest, 605 kilometers with the Indian state of Sikkim in the west, West Bengal in the southwest, Assam in the south and southeast, and Arunachal Pradesh in the east.

About 70 percent of the Kingdom is covered with forests; 7 percent with year-round snow and glaciers; nearly 3 percent is cultivated or agriculture areas; and 4 percent as meadows and pastures, while rest of the land is either barren, rocky or scrubland.

Relief and Surface Features

Bhutan is one of the most rugged mountain terrains in the world. It has elevations ranging from 160 meters to more than 7,000 meters above sea level. Bhutan's highest peak Jhomo Lhari, overlooking the Chumbi Valley in the west, is 7,314 meters above sea level.

In the north, the snowcapped Great Himalayan Range reaches heights of over 7,500 meters above sea level and extends along the Bhutan-China border. The northern region consists of an arc of glaciated mountain peaks with an arctic climate at the highest elevations. Alpine valleys in this region provide pasturage for livestock tended by a sparse population practicing transhumance.

The Inner Himalayas are southward spurs of the Great Himayalan Range. The Black Mountains, in central Bhutan, form a watershed between two major river systems, the Mo Chhu and the Drangme Chhu. Peaks in the Black Mountains range between 1,500 meters and 2,700 meters above sea level, and the fast-flowing rivers have carved out spectacular gorges in the lower mountain areas. The woodlands of the central region provide most of Bhutan's valuable forest production. Eastern Bhutan is divided by yet another southward spur. Western Bhutan has fertile, cultivated valleys and terraced river basins.

In the south, the Southern Hills, or Siwalik Hills, the foothills of the Himalayas, are covered with dense deciduous forest, alluvial lowland river valleys, and mountains that reach to around 1,500 meters above sea level. The foothills descend into the subtropical plain.

Climate and Vegetation

The country is divided into three distinct climatic zones: alpine, temperate and subtropical zone. Bhutan's climate is as varied as its altitudes and, like most of Asia, it is affected by the monsoons. The climate is humid and subtropical in the southern plains and foothills, temperate in the inner Himalayan valleys of the central regions, and cold in the north, with year-round snow on the main Himalayan range.

Temperatures vary according to elevation. Most of the central portion of the country experiences a cool, temperate climate year round. In the south, a hot, humid climate helps maintain a fairly even temperature range of between 15° C and 30° C year-round, although temperatures sometimes reach beyond 35° C in the valleys during the summer.

Annual precipitation ranges widely in various parts of the country. In the severe climate of the north, there is only about forty millimeters of annual precipitation--primarily snow. In the temperate central regions, a yearly average of around 1,000 millimeters is more common, and 7,800 millimeters per year has been registered at some locations in the humid, subtropical south, ensuring the thick tropical forest. Thimphu experiences dry winter months (December through February) and almost no precipitation until March, when rainfall averages 20 millimeters a month and increases steadily thereafter to a high of 220 millimeters in August for a total annual rainfall of nearly 650 millimeters.

Bhutan's generally dry spring starts in early March and lasts until mid-April. Summer weather commences in mid-April with occasional showers and continues through the early monsoon rains of late June. The summer monsoon lasts from late June through late September with heavy rains from the southwest. The monsoon weather, blocked from its northward progress by the Himalayas, brings heavy rains, high humidity, flash floods and landslides, and numerous misty, overcast days. Autumn, from late September or early October to late November, follows the rainy season. It is characterized by bright, sunny days and some early snowfalls at higher elevations. From late November until March, winter sets in, with frost throughout much of the country and snowfall common above elevations of 3,000 meters. The winter northeast monsoon brings gale-force winds down through high mountain passes.

There is a pronounced difference in the vegetation cover in three different zones of the country and it is mostly due to the prevalence of varied climatic conditions across the kingdom. The southern foothills are mostly covered by the dense and thick deciduous trees while the inner regions are dotted by an infinite variety of plants, flowers and trees including birch, pine, chestnut, oak, apples, peaches and plums are also grown in the fertile valleys. The northern part with the tundra type of climate allows the growth of coniferous trees and other alpines growths like magnolia, rhododendrons, birch, fir, spruce etc… The vegetation is overall expression of various ecological factors, and it is one of the basic analytical tools for developing and understanding the mountain environment.

Drainage Pattern

Fed by fresh snow each winter and slow melting in the summer, the glaciers bring millions of liters of fresh water to Bhutan and downriver areas each year. Bhutan has four major river systems: the Drangme Chhu; the Puna Tsang Chhu; the Wang Chhu; and the Amo Chhu. Each flows swiftly out of the Himalayas, southerly through the Duars to join the Brahmaputra River in India. The largest river system, the Drangme Chhu, flows southwesterly from India's state of Arunachal Pradesh and has three major tributaries: the Drangme Chhu, Mangde Chhu, and Chamkhar Chhu. These rivers form the Drangme Chhu basin. In the Duars, where eight tributaries join, the Drangme Chhu is called the Manas Chhu. The 320-kilometer-long Puna Tsang Chhu rises in northwestern Bhutan as the Mo Chhu and Pho Chhu, which are fed by the snows and glaciers from the Great Himalayan Range. They flow southerly to Punakha, where they join to form the Puna Tsang Chhu, which flows southerly into India's state of West Bengal. The Wang Chhu, which is 370 kilometers flows southeasterly through west-central Bhutan, drains the Ha, Paro, and Thimphu valleys, and continues through the foothills, before it finally drains into West Bengal. The smallest river system, the Torsa Chhu, known as the Amo Chhu in its northern reaches, flows swiftly through western Bhutan before broadening near Phuntsholing and then flowing into India. Glaciers in northern Bhutan, which cover about 10 percent of the total surface area, are an important renewable source of water for Bhutan's rivers.

Government

On 17th December 1907, the civil and monastic representatives unanimously crowned Ugyen Wangchuck as the first hereditary monarch of Bhutan. It was the strength and the farsightedness of Ugyen Wangchuck that for the first time Bhutan was united under a central authority providing the country with stability and opportunity for development. In 1926 his son Jigme Wangchuck succeeded Ugyen Wangchuck. The third Druk Gyalpo, Jigme Dorji Wangchuck began a campaign of modernization and expansion of Bhutan's government and society based on the accomplishments of his two predecessors in uniting the country under a strong central authority. Hence, the National Assembly consisting of representatives of the people, the Monastic order and civil administration was established in 1953.

The fourth Druk Gyalpo, Jigme Singye Wangchuk became the King in 1972. There had been steady decentralization of decision-making and institute building since then. His Majesty's philosophy of Gross National Happiness guided Bhutan into the 21st century. The most momentous change in the structure of the government came in 1998 after the devolution of the executive power by His Majesty the King to the Council of Ministers. The Fourth Druk Gyalpo initiated the drafting of Bhutan's first Constitution in 2001 and was eventually enacted in 2008. The King abdicated the throne in favour of the crown prince in 2006.

The fifth Druk Gyalpo, His Majesty King Jigme Khesar Namgyel Wangchuck acceded to the throne on December 14, 2006 and was crowned on November 6, 2008. The head of government is the Prime Minister, who is elected from the ruling political party.

Administrative System

The administrative system in the country consists of Central Government and Local Government. The Central Government comprises of Ministries, Departments and Autonomous bodies. The Local Government comprises of Dzongkhag Tshogdu, Gewog Tshogde and the Dzongkhag Thromde Tshogde.

In order to plan and review the development activities most efficiently in the Dzongkhag, the Dzongkhag Tshogdu was established in 1981. The Dzongkhag Tshogdu compromises of elected representatives of the people with its chairman elected among the Gups. Similarly, the Gewog Tshogde was established in 1991 to further decentralize the decision making process. The Gewog Tshogde comprises of Gup, Mangmi and Tshogpas. The main role of the Gewog Tshogde is to plan, prioritize and implement the developmental activities in their respective Gewogs.

The National Assembly

The National Assembly (Gyelyong Tshogdu) consists of 47 members who are elected representatives from the 47 Constituencies. The main functions of the National Assembly are to enact, amend or repeal laws and approve the national budget. The National Assembly also reviews and approves the Five Year Plans which are formulated by the government in consultation with the people of every Dzongkhag. It also deliberates on issues that affect the security and well-being of the country and promotes the welfare and happiness of the people. The National Assembly meets twice a year. However, if an important and emergency matter demands, special sessions of the National Assembly may be convened by the speaker. The duration of the National Assembly session is governed by the nature and scope of the points for discussion received from the people. A session normally lasts about three weeks. The speaker is the presiding officer of the House and is assisted by a Deputy Speaker. The day to day administration of the National Assembly rests with the secretariat which is headed by a secretary.

The National Council

The National Council was established in 2008 under Article 11 of the Constitution of Bhutan. There are 25 members of which 20 are elected by the people from 20 Dzongkhags and the remaining 5 are nominated by His Majesty, the Druk Gyalpo. Their tenure is for five years which commences from the date of the first sitting. The main functions of the National Council are to:

i. Ensure that the government safeguards the interest of the nation and fulfills the aspirations of the people through public review of polices and issues, bills and other legislation, and scrutiny of state functions.

ii. Act as the house of review on matters affecting the security and sovereignty of the country and the interests of the nation and people that need to be brought to the notice of His Majesty, the Druk Gyalpo, the Prime Minister and the National Assembly.

The National Council meets twice a year. However, special sessions may also be convened depending upon the needs. The chairperson, who is elected from 25 members of the National Council is the Presiding Officer of the House, and is assisted by a Deputy Chairperson. The National Council has seven working committees; namely the *House Committee, the Legislative Committee, the Economic Affairs Committee, the Social & Cultural Affairs Committee, the Natural Resources and Environment Committee, the Good Governance Committee and the Foreign Relation Committee*. Each committee has a minimum of seven members headed by a Chairperson who is elected from the seven members. The National Council is assisted in the discharge of its parliamentary functions by a secretariat which is headed by a Secretary General.

The Monastic Body

The Monastic Body comprises of the Central Monastic Body and the Rabdeys (Dzongkhag Monastic Body). The Central Monastic Body receives annual subsidy from the Government to manage and run its day to day affairs. The Monastic Body is the sole arbiter on religious matters. The Je-Khenpo (Chief Abbot) is the head of the monastic body and is responsible for the nation's religious affairs. He is chosen from among high ranking monks. Apart from being thoroughly versed in all branches of religious scholarship and practice, the candidate must also have undergone prolonged mediation. The present Je-Khenpo Trulku Jigme Chhoeda is the 70th in succession. He was appointed in 1996.

The Je-Khenpo is assisted by five high-ranking Lopens (Masters) viz. Dorji Lopen *acts as Deputy Je-Khenpo and the Chief of all Lopens (Masters)*, Yangbi Lopen *heads the liturgical division inclusive of Sacred Dances, Rituals Arts, and Metrical Ryhme*, Drabi Lopen *heads Lexicographical division that includes literature, grammar, lexicon, metrics and prosody*, Tshenyi Lopen *heads the division of Metaphysics and Logic* and Tsugla Lopen *is responsible for the higher studies of the monastic Body*. There are also monastic bodies in the Dzongkhags headed by Lam Neeten. He is assisted by Umzey, Kudrung and the lopens (teachers) of different areas.

CHAPTER 1 POPULATION

This chapter contains statistics on the basic attributes of population such as the size and the growth of population, its geographical distribution, its structure by sex and age etc. The principle source of data on population is the population and housing census, which is conducted every ten years. The Population and Housing Census in Bhutan was first conducted in May 2005 and the second round of Population and Housing Census was carried out in May 2017 as per the UN standards and had been enumerated using both *de facto* and *de jure* method. The census provides a complete count of the population according to a range of characteristics such as demography, health, education and other social aspects. It is useful not only because they provide a range of current population data but also used as a benchmark for making population estimates in non-census years and for population projections.

The other aspects of population statistics relates to the demographic characteristics of the population. The most common source of information on demography is the vital registration system (which usually covers the registration of births and deaths and sometimes marriages and divorce).

Fig. 1.1: Population Pyramid, Bhutan 2005

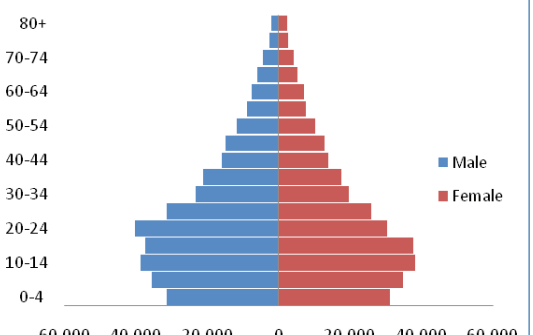
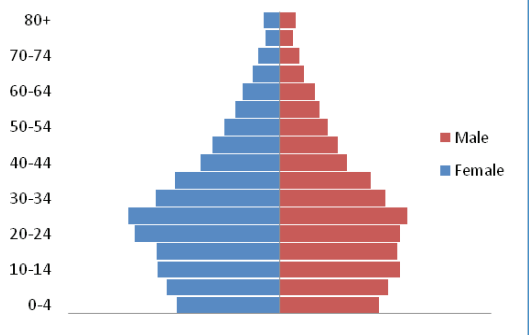


Fig. 1.2: Population Pyramid, Bhutan 2017



The Statistics presented in this chapter are from the Population and Housing Census of Bhutan 2005 and 2017. The actual resident population enumerated during May 2005 is 634,982 persons out of which 333,595 persons are male and 301,387 are females, while it is 735,553 persons in 2017. The total Bhutanese population found during 2017 PHCB was 681,720 persons. The total urban population in 2005 was 196,111 persons while in 2017 there were 274,316 persons in urban areas. Similarly the total number of rural population in 2005 and 2017 were 438,871 and 452,829 respectively.

The interpretations of demographic indicators are:

Crude Birth Rate:	*Number of live births in a year per thousand population.*
General Fertility Rate:	*Number of live births in a year per thousand women in the childbearing age (15 to 49).*
General Marital Fertility Rate:	*A ratio of number of births to 1000 married women in the reproductive ages.*
Total Fertility Rate:	*Average number of children born by women during their reproductive span of life.*
Gross Reproductive Rate:	*Measures the extent to which a cohort of newly born girls will replace their mothers under pre-determined schedules of fertility and mortality.*
Crude Death Rate:	*Number of deaths in a year per thousand population.*
Infant Mortality Rate:	*Number of deaths during first year of life per thousand live births.*
Maternal Mortality Ratio:	*The annual number of deaths of women from pregnancy-related causes per 100,000 live births.*
Rate of Natural Increase:	*The difference between the crude birth rate and the crude death rate.*
Dependency Ratio:	*Measures the number of dependents as a percentage of population aged 15 to 64. Child dependency refers to children aged 0 to 14 years, while old age dependency refers to persons aged 65 and over.*
Index of Aging:	*It is the number of persons aged 65 and over as a percentage of the number of persons aged 0 to 14.*

Table 1.1: Population by Sex and Dzongkhag/Thromde, Bhutan 2017

Dzongkhag/Thromde	Number of Persons			Percent			Sex Ratio
	Male	Female	Both Sex	Male	Female	Both Sex	
Bumthang	9,396	8,424	17,820	52.7	47.3	100.0	111.5
Chhukha	36,041	32,925	68,966	52.3	47.7	100.0	109.5
Phuentshogling Thromde	15,052	12,606	27,658	54.4	45.6	100.0	118.9
Other than Phuentshogling Thromde	20,989	20,319	41,308	50.8	49.2	100.0	103.6
Dagana	12,956	12,009	24,965	51.9	48.1	100.0	107.9
Gasa	2,104	1,848	3,952	53.2	46.8	100.0	113.9
Haa	7,435	6,220	13,655	54.4	45.6	100.0	119.5
Lhuentse	7,407	7,030	14,437	51.3	48.7	100.0	105.4
Monggar	18,247	18,903	37,150	49.1	50.9	100.0	96.5
Paro	23,941	22,375	46,316	51.7	48.3	100.0	107.0
Pema Gatshel	11,922	11,710	23,632	50.4	49.6	100.0	101.8
Punakha	15,079	13,661	28,740	52.5	47.5	100.0	110.4
Samdrup Jongkhar	18,329	16,750	35,079	52.3	47.7	100.0	109.4
Samdrup Jongkhar Thromde	5,016	4,309	9,325	53.8	46.2	100.0	116.4
Other than Samdrup Jongkhar Thromde	13,313	12,441	25,754	51.7	48.3	100.0	107.0
Samtse	32,022	30,568	62,590	51.2	48.8	100.0	104.8
Sarpang	24,018	21,986	46,004	52.2	47.8	100.0	109.2
Gelegphu Thromde	5,146	4,712	9,858	52.2	47.8	100.0	108.1
Other than Gelegphu Thromde	18,872	17,274	36,146	52.2	47.8	100.0	109.5
Thimphu	72,522	66,214	138,736	52.3	47.7	100.0	109.5
Thimphu Thromde	58,996	55,555	114,551	51.5	48.5	100.0	106.2
Other than Thimphu Thromde	13,526	10,659	24,185	55.9	44.1	100.0	126.9
Trashigang	23,414	22,104	45,518	51.4	48.6	100.0	105.9
Trashi Yangtse	8,719	8,581	17,300	50.4	49.6	100.0	101.6
Trongsa	11,878	8,082	19,960	59.5	40.5	100.0	147.0
Tsirang	11,526	10,850	22,376	51.5	48.5	100.0	106.2
Wangdue Phodrang	24,302	17,884	42,186	57.6	42.4	100.0	135.9
Zhemgang	9,195	8,568	17,763	51.8	48.2	100.0	107.3
Bhutan	**380,453**	**346,692**	**727,145**	**52.3**	**47.7**	**100.0**	**109.7**

Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day
Source: Population & Housing Census of Bhutan, 2017

Table 1.2: Population by Sex, Area and Dzongkhag, Bhutan 2017

Dzongkhag	Number of Persons						Both Areas		
	Urban			Rural					
	Male	Female	Both Sex	Male	Female	Both Sex	Male	Female	Both Sex
Bumthang	3,570	3,066	6,636	5,826	5,358	11,184	9,396	8,424	17,820
Chhukha	18,981	16,540	35,521	17,060	16,385	33,445	36,041	32,925	68,966
Dagana	2,450	2,263	4,713	10,506	9,746	20,252	12,956	12,009	24,965
Gasa	795	571	1,366	1,309	1,277	2,586	2,104	1,848	3,952
Haa	1,680	1,418	3,098	5,755	4,802	10,557	7,435	6,220	13,655
Lhuentse	1,283	992	2,275	6,124	6,038	12,162	7,407	7,030	14,437
Monggar	5,417	4,880	10,297	12,830	14,023	26,853	18,247	18,903	37,150
Paro	6,058	5,855	11,913	17,883	16,520	34,403	23,941	22,375	46,316
Pema Gatshel	4,079	3,546	7,625	7,843	8,164	16,007	11,922	11,710	23,632
Punakha	3,846	3,200	7,046	11,233	10,461	21,694	15,079	13,661	28,740
Samdrup Jongkhar	6,518	5,656	12,174	11,811	11,094	22,905	18,329	16,750	35,079
Samtse	4,803	4,871	9,674	27,219	25,697	52,916	32,022	30,568	62,590
Sarpang	6,798	6,212	13,010	17,220	15,774	32,994	24,018	21,986	46,004
Thimphu	59,453	56,064	115,517	13,069	10,150	23,219	72,522	66,214	138,736
Trashigang	5,379	4,729	10,108	18,035	17,375	35,410	23,414	22,104	45,518
Trashi Yangtse	1,887	1,660	3,547	6,832	6,921	13,753	8,719	8,581	17,300
Trongsa	1,899	1,647	3,546	9,979	6,435	16,414	11,878	8,082	19,960
Tsirang	1,885	1,625	3,510	9,641	9,225	18,866	11,526	10,850	22,376
Wangdue Phodrang	5,217	4,663	9,880	19,085	13,221	32,306	24,302	17,884	42,186
Zhemgang	1,857	1,654	3,511	7,338	6,914	14,252	9,195	8,568	17,763
Bhutan	**143,855**	**131,112**	**274,967**	**236,598**	**215,580**	**452,178**	**380,453**	**346,692**	**727,145**

Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day

Source: Population & Housing Census of Bhutan, 2017

Table 1.3: Population by Age, Sex and Area, Bhutan 2017

Age Group	Number of Persons						Both Areas			Sex Ratio		
	Urban			Rural								
	Male	Female	Both Sex	Male	Female	Both Sex	Male	Female	Both Sex	Urban	Rural	Both Areas
0-4	11,071	10,409	21,480	18,105	17,889	35,994	29,176	28,298	57,474	106.4	101.2	103.1
5-9	11,436	11,143	22,579	20,599	19,813	40,412	32,035	30,956	62,991	102.6	104.0	103.5
10-14	12,136	12,163	24,299	22,520	22,133	44,653	34,656	34,296	68,952	99.8	101.7	101.0
15-19	15,073	15,328	30,401	19,606	18,279	37,885	34,679	33,607	68,286	98.3	107.3	103.2
20-24	19,006	16,766	35,772	22,069	17,574	39,643	41,075	34,340	75,415	113.4	125.6	119.6
25-29	18,829	16,898	35,727	23,973	19,580	43,553	42,802	36,478	79,280	111.4	122.4	117.3
30-34	14,792	13,070	27,862	20,267	17,051	37,318	35,059	30,121	65,180	113.2	118.9	116.4
35-39	12,114	10,436	22,550	17,575	15,424	32,999	29,689	25,860	55,549	116.1	113.9	114.8
40-44	8,434	6,486	14,920	13,840	12,735	26,575	22,274	19,221	41,495	130.0	108.7	115.9
45-49	6,848	5,132	11,980	12,017	11,536	23,553	18,865	16,668	35,533	133.4	104.2	113.2
50-54	4,731	3,629	8,360	10,725	10,232	20,957	15,456	13,861	29,317	130.4	104.8	111.5
55-59	2,902	2,600	5,502	9,477	8,919	18,396	12,379	11,519	23,898	111.6	106.3	107.5
60-64	2,160	2,173	4,333	8,338	8,040	16,378	10,498	10,213	20,711	99.4	103.7	102.8
65-69	1,483	1,519	3,002	6,102	5,550	11,652	7,585	7,069	14,654	97.6	109.9	107.3
70-74	1,072	1,332	2,404	4,804	4,260	9,064	5,876	5,592	11,468	80.5	112.8	105.1
75-79	803	914	1,717	3,162	2,992	6,154	3,965	3,906	7,871	87.9	105.7	101.5
80-84	544	630	1,174	2,107	2,116	4,223	2,651	2,746	5,397	86.3	99.6	96.5
85+	421	484	905	1,312	1,457	2,769	1,733	1,941	3,674	87.0	90.0	89.3
All Ages	**143,855**	**131,112**	**274,967**	**236,598**	**215,580**	**452,178**	**380,453**	**346,692**	**727,145**	**109.7**	**109.7**	**109.7**

Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day

Source: Population & Housing Census of Bhutan, 2017

Table 1.4: Population by Broad Age Groups, Dependency Ratios, Ageing Index and Dzongkhag/Thromde, Bhutan 2017

Dzongkhag/Thromde	Population by Broad Age Groups			
	0 - 14	15 - 64	65+	
Bumthang	4,930	11,657	1,233	
Chhukha	17,078	48,963	2,925	
Phuentshogling Thromde	5,767	21,186	705	
Other than Phuentshogling Thromde	11,311	27,777	2,220	
Dagana	7,024	16,277	1,664	
Gasa	1,086	2,636	230	
Haa	3,582	9,298	775	
Lhuentse	4,263	9,006	1,168	
Monggar	11,399	23,108	2,643	
Paro	11,406	32,161	2,749	
Pema Gatshel	6,512	14,812	2,308	
Punakha	7,364	19,547	1,829	
Samdrup Jongkhar	9,810	23,105	2,164	
Samdrup Jongkhar Thromde	2,489	6,561	275	
Other than Samdrup Jongkhar Thromde	7,321	16,544	1,889	
Samtse	16,884	41,665	4,041	
Sarpang	11,215	32,177	2,612	
Gelegphu Thromde	2,149	7,332	377	
Other than Gelegphu Thromde	9,066	24,845	2,235	
Thimphu	32,861	100,559	5,316	
Thimphu Thromde	27,237	83,224	4,090	
Other than Thimphu Thromde	5,624	17,335	1,226	
Trashigang	12,596	29,560	3,362	
Trashi Yangtse	5,582	10,498	1,220	
Trongsa	4,124	14,735	1,101	
Tsirang	5,874	14,733	1,769	
Wangdue Phodrang	10,689	29,113	2,384	
Zhemgang	5,138	11,054	1,571	
Bhutan	**189,417**	**494,664**	**43,064**	

Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day
Source: Population & Housing Census of Bhutan, 2017

	Total	Dependency Ratio			Ageing Index
		Child Dependency Ratio	Old Age Dependency Ratio	Total Dependency Ratio	
	17,820	42.3	10.6	52.9	25.0
	68,966	34.9	6.0	40.9	17.1
	27,658	27.2	3.3	30.5	12.2
	41,308	40.7	8.0	48.7	19.6
	24,965	43.2	10.2	53.4	23.7
	3,952	41.2	8.7	49.9	21.2
	13,655	38.5	8.3	46.9	21.6
	14,437	47.3	13.0	60.3	27.4
	37,150	49.3	11.4	60.8	23.2
	46,316	35.5	8.5	44.0	24.1
	23,632	44.0	15.6	59.5	35.4
	28,740	37.7	9.4	47.0	24.8
	35,079	42.5	9.4	51.8	22.1
	9,325	37.9	4.2	42.1	11.0
	25,754	44.3	11.4	55.7	25.8
	62,590	40.5	9.7	50.2	23.9
	46,004	34.9	8.1	43.0	23.3
	9,858	29.3	5.1	34.5	17.5
	36,146	36.5	9.0	45.5	24.7
	138,736	32.7	5.3	38.0	16.2
	114,551	32.7	4.9	37.6	15.0
	24,185	32.4	7.1	39.5	21.8
	45,518	42.6	11.4	54.0	26.7
	17,300	53.2	11.6	64.8	21.9
	19,960	28.0	7.5	35.5	26.7
	22,376	39.9	12.0	51.9	30.1
	42,186	36.7	8.2	44.9	22.3
	17,763	46.5	14.2	60.7	30.6
	727,145	**38.3**	**8.7**	**47.0**	**22.7**

Table 1.5: Population Density by Dzongkhag, Bhutan 2005 and 2017

Dzongkhag	Area (km2)	Population		Density (Population per km2)	
		2005	2017	2005	2017
Bumthang	2,717	16,116	17,820	6	7
Chhukha	1,880	74,387	68,966	40	37
Dagana	1,723	18,222	24,965	11	14
Gasa	3,118	3,116	3,952	1	1
Haa	1,905	11,648	13,655	6	7
Lhuentse	1,944	15,395	14,437	8	7
Monggar	2,859	37,069	37,150	13	13
Paro	1,293	36,433	46,316	28	36
Pema Gatshel	1,030	13,864	23,632	13	23
Punakha	1,110	17,715	28,740	16	26
Samdrup Jongkhar	1,878	39,961	35,079	21	19
Samtse	1,305	60,100	62,590	46	48
Sarpang	1,946	41,549	46,004	21	24
Thimphu	2,067	98,676	138,736	48	67
Trashigang	3,066	51,134	45,518	17	15
Trashi Yangtse	1,438	17,740	17,300	12	12
Trongsa	1,807	13,419	19,960	7	11
Tsirang	639	18,667	22,376	29	35
Wangdue Phodrang	4,308	31,135	42,186	7	10
Zhemgang	2,421	18,636	17,763	8	7
Bhutan	**38,394**	**634,982**	**727,145**	**17**	**19**

Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day
Source: Population & Housing Census of Bhutan, 2017

Table 1.6: Mean Age at First Birth by Dzongkhag, Bhutan 2017

Dzongkhag	Urban	Rural	Both Areas
Bumthang	22	22	22
Chhukha	22	21	21
Dagana	21	20	20
Gasa	21	21	21
Haa	22	22	22
Lhuentse	21	20	20
Monggar	22	20	21
Paro	22	22	22
Pema Gatshel	21	21	21
Punakha	22	21	21
Samdrup Jongkhar	21	21	21
Samtse	21	21	21
Sarpang	21	21	21
Thimphu	22	22	22
Trashigang	22	21	21
Trashi Yangtse	22	21	21
Trongsa	21	21	21
Tsirang	22	21	21
Wangdue Phodrang	22	21	21
Zhemgang	22	20	21
Bhutan	**22**	**21**	**21**

Source: Population & Housing Census of Bhutan, 2017

Table 1.7: Crude Birth Rate, Total Fertility Rate, Crude Death Rate, General Fertility Rate, Infant Mortality Rate, Child Mortality Rate and Under 5 Mortality Rate by Dzongkhag/Thromde, Bhutan 2017

Dzongkhag /Thromde	Crude Birth Rate (CBR)	Total Fertility Rate (TFR)	Crude Death Rate (CDR)	General Fertility Rate (GFR)	Infant Mortality Rate (IMR)	Child Mortality Rate (CMR)	Under Five Mortality Rate (U5MR)
Bumthang	16.6	2.0	5.8	65.0	10.2	10.2	20.3
Chhukha	16.1	1.6	6.1	55.0	14.4	18.0	32.4
Phuentshogling Thromde	18.5	...	...	59.2	15.7	21.5	37.2
Other than Phuentshogling Thromde	14.5	...	6.7	51.9	13.3	15.0	28.3
Dagana	13.7	1.8	8.0	53.7	26.3	26.3	52.6
Gasa	15.9	2.1	6.8	64.9	63.5	47.6	111.1
Haa	14.3	1.8	6.6	56.9	25.6	20.5	46.2
Lhuentse	16.6	2.3	8.3	68.8	16.7	33.5	50.2
Monggar	15.8	2.0	8.2	60.5	13.6	32.4	46.0
Paro	14.9	1.5	6.4	52.5	7.3	13.1	20.3
Pema Gatshel	14.3	1.9	7.8	59.3	26.6	20.7	47.3
Punakha	15.2	1.8	6.2	56.4	16.0	16.0	32.0
Samdrup Jongkhar	15.0	1.9	7.9	58.6	17.1	41.9	59.0
Samdrup Jongkhar Thromde	17.6	...	...	61.8	30.5	30.5	61.0
Other than Samdrup Jongkhar Thromde	14.0	...	8.4	57.2	11.1	47.1	58.2
Samtse	12.1	1.4	6.7	45.0	13.2	22.5	35.7
Sarpang	13.3	1.5	6.4	48.3	14.7	18.0	32.7
Gelegphu Thromde	13.5	...	...	43.7	7.5	30.1	37.6
Other than Gelegphu Thromde	13.3	...	6.6	49.7	16.7	14.6	31.3
Thimphu	18.7	1.7	5.2	61.2	6.5	6.5	13.1
Thimphu Thromde	19.2	...	...	61.0	5.4	5.4	10.9
Other than Thimphu Thromde	16.4	...	5.0	62.6	12.6	12.6	25.2
Trashigang	12.8	1.6	8.6	49.8	20.7	34.4	55.1
Trashi Yangtse	16.6	2.3	7.1	69.2	10.4	10.4	20.8
Trongsa	15.3	1.9	6.0	64.6	16.4	6.6	23.0
Tsirang	12.9	1.7	7.4	50.4	17.4	31.3	48.6
Wangdue Phodrang	16.9	2.3	8.1	74.4	33.7	25.3	59.0
Zhemgang	15.3	2.2	6.8	64.7	22.1	18.4	40.4
Bhutan	**15.5**	**1.7**	**6.7**	**57.3**	**15.1**	**19.0**	**34.1**

Source: Population & Housing Census of Bhutan, 2017

Guided by the national development philosophy of Gross National Happiness, the health sector envisions building "a healthy and happy nation through a dynamic professional health system with attainment of highest standard of health for the people within the broader framework of overall national development, in the spirit of social justice and equity."

Since the early years (1960s) of the introduction of modern health care development in Bhutan (Allopathic), the health programmes and interventions have focused on the preventive aspects of health care and services including, the prevention of morbidity, the promotion of positive determinants of health, and the control of infectious disease. These measures were further being reinforced after being signatory to the Alma Ata declaration in 1978.

There have been a continuous efforts and remarkable strides in improving the modern health care systems and services since then. The Ministry of Health has now a wide spread network of Health Facilities covering around 95 percent of the total population within three hours walking distance of the health facility. Institutional health facilities were earlier concentrated in the urban agglomerated centers, but today the emphasis has shifted to the rural areas where the majority of the population live.

Health Care is delivered in a totally integrated three-tiered system with National Referral Hospital at the apex, regional referral hospitals, district hospitals, and Basic Health Units (BHUs) at the Community Level. BHUs serve remote populace and are staffed by well-trained health personnel who are equipped to treat minor ailments and advice on preventive measures to avoid the spread of communicable diseases. Extended Health Centers such as Out Reach Clinics (ORCs) and Sub-posts support these BHUs.

There are also a number of special health programs in Bhutan administered by the Ministry of Health. These mainly cover Expanded Program on Immunization (EPI), Reproductive Health (RH), Acute Respiratory Infection (ARI) later upgraded to Integrated Management of Neonatal and Childhood Illness (IMNCI), National HIV/AIDS & STIs Control Program (NACP), National Tuberculosis Control Program (NTCP), National Leprosy Program, Rural Water Supply & Sanitation Program (RWSS), Village Health Workers Program (VHW), Vector Borne Disease Control Program (VDCP), Mental Health Program, among others.

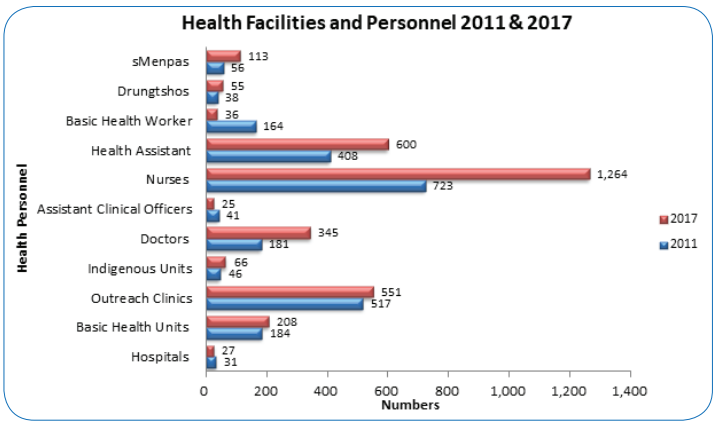


Table 2.1: Summary of Health Facilities and Personnel, Bhutan, (2013-2017)

(Numbers)

Facilities	2013	2014	2015	2016	2017
Number of Hospitals [1]	32	31	31	30	27
Number of Basic Health Units [2]	205	206	207	210	208
Number of Outreach Clinics [3]	519	562	562	553	551
Number of Indigenous Units	49	52	54	59	66
Number of Sub-post	23	28	28	49	45
Persons per doctor [4]	3,670	3,054	3,016	2,570	2,132
Ratio of beds per Nurse	1.6	1.3	1.2	1.1	1.1
Ratio of Nurses per Doctor	3.9	3.9	4.3	4.0	3.6
Doctors per (10,000) persons	2.8	3.3	3.3	3.9	4.3
Nurses per (10,000) persons	10.7	12.8	14.1	15.4	16.2
Pharmacists per (10,000) persons	0.1	0.2	0.2	0.3	0.5
HA/BHW per (10,000) persons	8.3	8.5	8.5	8.6	8.1
Dungtshos per (10,000) persons	0.5	0.6	0.6	0.7	0.7
sMempas per (10,000) persons	1.1	1.2	1.3	1.4	1.4
Persons per hospital bed	574	584	593	602	569
Number of hospital beds available	1,277	1,277	1,277	1,277	1,277
Hospital bed per 10,000 persons	17	17	17	17	18
Distribution of health facilities per (10,000) persons	3	4	4	4	12
Proportion of population within 3 hrs walking distance of a health facility (%)	>90	>90	>90	>90	>90
Population access to safe drinking water (%)	96	95	95	95	98
Deliveries attended by trained personnel(%)	89.0	89.0	89.0	89.0	96.4

Note: [1] *Indigenous hospital is included and excludes RBA and IMTRAT Hospital*

[2] *Satellite Clinics included under BHU(Inclusive of BHU I & II)*

[3] *ORC (Inclusive of with shed & without shed)*

[4] *The population is based on latest PHCB 2017*

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.2: Type of Health Facilities by Dzongkhag, Bhutan, 2017

(Numbers)

District	Facility Type					ORC with shed	ORC without shed
	Hospital	BHU I	BHU II	Sub-post	Ind. Unit		
Bumthang	1	0	5	0	3	12	0
Chhukha	3	2	13	1	4	38	6
Dagana	1	2	7	0	3	29	4
Gasa	0	1	3	0	2	4	1
Haa	1	0	4	2	3	9	8
Lhuntse	1	0	14	0	2	30	2
Monggar	1	1	22	5	5	52	0
Paro	1	0	3	3	1	18	4
Pema Gatshel	1	1	11	7	4	32	4
Punakha	1	0	7	1	1	10	0
Samdrup Jongkhar	2	3	7	2	6	28	3
Samtse	2	2	12	3	4	45	5
Sarpang	2	1	10	1	3	12	1
Thimphu	3	1	12	0	2	3	13
Trashigang	2	5	14	4	7	52	2
Trashi Yangtse	1	1	7	2	2	23	2
Trongsa	1	0	6	4	4	19	0
Tsirang	1	0	7	0	2	14	6
Wangdue Phodrang	1	1	10	6	4	19	5
Zhemgang	1	2	11	4	4	31	5
Total	**27**	**23**	**185**	**45**	**66**	**480**	**71**

Note: Indigenous hospital included under hospital and excludes RBA and IMTART. and Satellite Clinic included under BHU Satellite Clinics included under BHU

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.3: Health Personnel by Category, Bhutan, (2013-2017)

(Numbers)

Health personnel	2013	2014	2015	2016	2017
Doctors (MBBS/Specialists) [1]	203	244	251	299	345
Clinical Officer/Assistant Clinical Officers	38	36	35	30	25
Nurses (Assistant Nurse/GNM/B.Sc. Nurse)	799	957	1,070	1,185	1,264
Health Assistants	455	514	548	592	600
Basic Health Workers	153	118	95	62	36
Drungtshos (Indigenous Physicians)	35	46	47	54	55
sMenpas (Sowa Menpas)	82	90	100	105	113
Pharmacists	9	14	15	23	36
Medical Lab. Technologists	22	20	38	51	74
Physiotherapists	10	12	12	18	21
Technicians	738	884	900	945	931
Administrative & Support Staff (Regular)	1,194	1,131	1,112	1,066	1,010
General Service Personnel (GSP)	490	456	432	432	432
Elementary Service Personnel (ESP)	181	166	162	162	162

Note: [1] Includes all medical doctors registered and certified by the Bhutan Medical and Health Council.
Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.4: Top Ten Morbidity, Bhutan, 2017

(Numbers)

Diseases	2017
Common Cold	234,446
Other Diseases of the Digestive System	97,083
Other Disorders of Skin and Subcutaneous Tissue	96,328
Other Musculo-Skeletal Disorders	91,409
Skin Infections	83,480
ANC, Immunization & Other Counselling	79,991
Acute Pharyngitis/ Tronsillitis	69,501
Other Nervous including Peripheral Disorders	62,945
Other Respiratory & Nose Diseases	58,293
Peptic Ulcer Syndrome	52,331

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.5: Top Ten Inpatient Hospital Mortality, Bhutan, 2017

(Numbers)

Diseases	2017
Alcohol Liver Diseases	159
Other Sepsis	157
Other Circulatory Diseases	100
Other Respiratory & Nose Diseases	88
Neonatal Death	72
Foetal Death & Stillbirth	67
Pneumonia	67
Other Cancers	59
Cerebro-vascular Diseases B	57
Meningitis/Encephalitis	45

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.6: Total Morbidity by sex and age group, Bhutan, 2017

Name of Diseases	Under 1 Yr			
	M	F	M	
Infections				
Diarrhoea	1,601	1,449	4,704	
Dysentery	115	98	398	
Tuberculosis	1	2	7	
Other Sepsis (including Septicaemia)	149	95	61	
Congenital Syphillis	0	0	1	
Genital Ulcer	0	0	1	
Syphilis	0	1	1	
Urethal/Vaginal Discharges	1	1	3	
Other Sexually Transmitted Disease, excluding HIV/AIDS	0	0	0	
Rickettsial Disease	14	6	36	
Viral, Protozoal & Helminthic disease				
Chicken Pox	35	24	164	
Acute Hepatitis A	0	0	4	
Acute Hepatitis B	0	0	5	
Other Acute Hepatitis (includes Hepatitis C & E)	4	2	4	
Plasmodium falciparum malaria	0	0	0	
Plasmodium Vivax Malaria	0	0	0	
Other Malaria	3	1	0	
Visceral Leishmaniasis (Kala-azar)	0	1	0	
Intestinal Worms	10	10	106	
Scabies	47	42	258	
Streptococcus Group A	0	1	12	
Other Infections (excluding ear, brain, STI)	381	375	894	
Neoplasm				
Oesophagus Cancer	0	0	0	
Stomach/ Gastric Cancer	0	0	0	
Colon Cancer	0	0	0	
Rectal Cancer	0	0	0	
Hepato-Biliary Cancer	0	0	0	
Pancreatic Cancer	0	1	0	
Breast Cancer	0	0	0	
Cervical Cancer	0	0	0	
Other Cancers	0	1	9	
Blood diseases				
Neoplasm (benign + CIS)	0	0	0	
Nutritional Anaemia	25	30	177	

(Numbers)

1 – 4 Yrs	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
F	M	F	M	F	M	F	M	F	
3,967	5,607	4,904	7,504	6,942	923	1,028	1,318	1,449	41,396
344	590	548	1,313	1,174	211	218	322	306	5,637
4	13	14	337	365	28	26	84	48	929
53	49	34	132	120	23	25	88	73	902
0	0	0	0	0	0	0	0	0	1
0	5	2	69	59	9	5	6	6	162
1	0	0	45	38	2	2	2	1	93
1	5	8	1,071	1,495	71	72	23	36	2,787
5	5	1	468	532	26	64	14	21	1,136
30	60	59	196	188	43	35	34	52	753
137	893	862	299	283	15	13	9	11	2,745
12	8	29	36	20	4	1	4	3	121
7	15	13	125	127	15	11	14	15	347
1	5	3	69	34	3	13	9	16	163
0	1	1	15	8	3	2	1	1	32
0	1	3	19	13	1	6	1	0	44
3	12	7	86	81	11	5	4	3	216
0	11	18	20	33	1	2	1	0	87
94	312	297	545	519	92	100	86	90	2,261
252	1,788	1,338	1,962	1,506	138	144	237	190	7,902
8	28	39	33	41	6	4	4	2	178
797	1,523	1,488	4,582	4,844	597	584	469	450	16,984
0	0	0	3	2	6	8	19	8	46
0	0	0	12	3	14	18	61	31	139
0	0	0	1	7	2	13	10	15	48
0	0	0	2	3	5	1	11	7	29
0	0	0	4	5	5	3	10	11	38
0	0	0	0	0	3	0	2	2	8
0	0	0	0	19	0	8	0	11	38
0	0	0	0	43	0	28	0	27	98
6	22	17	129	254	84	113	157	121	913
4	14	10	62	200	24	43	81	29	467
190	452	716	1,803	5,714	501	723	625	808	11,764

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr		
	M	F	M
Blood & Immune Disorders	19	5	37
Endocrine, Metabolic & Nutritional			
Diabetes	0	0	1
Malnutrition (exclude child clinic attendance)	4	5	10
Other Nutritional & Metabolic Disorders	35	34	94
Mental disorders			
Dementia	0	0	0
Mental and behavioral disorder due to alcohol	0	0	0
Mental and behavioral disorder due to multiple drug use & other use of psychoactive substances	0	0	0
Psychosis	0	0	0
Depression	0	0	0
Anxiety	1	0	0
Other Mental Disorders	1	1	11
Disease of Nervous system			
Meningitis/Encephalitis	29	34	26
Epilepsy	12	11	33
Other Nervous inlcuding Peripheral Disorders	105	105	452
Eye & Ear Diseases			
Conjunctivitis	278	269	530
CataractB	0	1	1
Disorders of Refraction & Accommodation (Refractive Error in the Eye)	2	4	10
Other Eye Disorders	356	416	819
Otitis Media	237	202	605
Other Ear Disorders	128	137	559
Diseases of Circulatory System			
Rheumatic Heart Disease	4	1	6
Hypertension	0	0	0
Ischaemic Heart Diseases	0	0	0
Cerebro-vascular Diseases	1	0	2
Bubo	0	0	0
Other Circulatory Diseases	33	30	75
Respiratory diseases			
Common Cold	6,583	6,527	18,726
Acute Pharyngitis/Tonsilitis	661	467	2,790
Pneumonia	1,075	882	2,115
Asthma	7	16	44
Other Respiratory & Nose Diseases	1,562	1,456	2,913

1 – 4 Yrs	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
F	M	F	M	F	M	F	M	F	
31	47	47	228	505	65	62	68	118	1,232
0	5	5	793	1,169	961	967	1,036	1,424	6,361
15	10	8	22	34	5	4	9	4	130
118	238	481	731	1,188	139	198	179	228	3,663
0	0	0	6	3	0	0	1	8	18
0	0	1	542	187	95	22	46	30	923
0	0	5	148	35	2	0	2	1	193
0	0	1	83	63	6	2	3	2	160
1	1	7	133	260	27	35	9	28	501
1	11	23	319	622	40	64	33	29	1,143
4	17	43	416	619	44	90	51	57	1,354
29	20	10	45	41	12	11	14	10	281
21	67	74	375	379	47	41	30	39	1,129
501	3,289	3,811	14,031	26,984	2,870	3,893	3,112	3,792	62,945
540	2,150	2,094	5,197	6,122	933	1,117	1,124	1,405	21,759
1	9	18	64	66	42	44	194	154	594
12	101	140	550	966	167	193	208	165	2,518
784	3,139	3,543	10,046	13,918	2,280	2,872	3,412	4,501	46,086
688	2,006	1,811	2,721	2,729	329	279	254	294	12,155
611	2,010	2,085	3,354	3,860	583	453	585	550	14,915
5	18	20	244	346	175	184	192	186	1,381
0	21	40	3,910	5,437	2,352	2,569	3,575	3,765	21,669
0	2	1	36	28	22	14	68	46	217
1	2	2	55	45	50	36	161	105	460
0	5	3	8	8	1	2	3	2	32
66	372	371	1,709	2,459	430	442	846	850	7,683
17,681	28,708	29,771	45,405	52,624	6,919	7,017	7,244	7,241	234,446
2,633	8,653	9,774	16,179	21,017	2,019	2,141	1,515	1,652	69,501
1,803	606	517	378	344	103	105	260	283	8,471
32	106	101	176	375	100	148	240	313	1,658
2,767	5,664	5,652	12,303	15,529	2,173	2,205	2,963	3,106	58,293

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr			
	M	F	M	
Diseases of the Digestive system				
Diseases of Teeth & Gums	54	54	455	
Dental Caries	0	0	827	
Peptic Ulcer Syndrome	4	8	130	
Acute AppendicitisB	0	0	8	
Alcohol Liver Diseases	0	0	0	
Gall Bladder Diseases	3	1	1	
Other Diseases of the Digestive System	903	979	3,204	
Diseases of the Skin and Subcutaneous Tissue				
Skin Infections	1,230	1,177	4,783	
Other Disorders of Skin & Subcutaneous-tissues	1,582	1,665	4,694	
Diseases of Musculo-skeletal system & Cogenital Deformities				
Arthritis & Arthrosis	3	2	29	
Other Musculo-skeletal disorders	47	57	431	
Genito-Urinary diseases				
CystitisB	5	6	31	
Infection of Breast, including Puerperium	0	0	0	
Other Disease of the Breast	0	0	3	
Pelvic Inflammatory DiseaseB	0	0	0	
Menstrual Disturbances	0	0	0	
Other Kidney, UT/ Genital Disorders	57	61	445	
Pregnancy, Childbirth and Puerperium				
Abortions	0	0	0	
Pregnancy Induced Hypertension	0	0	0	
Ante-Partum Haemorrhage & Placenta Previa	0	0	0	
Malpresentation	0	0	0	
Prolonged Labour	0	0	0	
Obstructed Labour	0	0	0	
Post Partum Haemorrhage	0	0	0	
Retained Placenta	0	0	0	
Puerperal Sepsis	0	0	0	
Other complications of pregnancy	0	0	0	
Certain Conditions Originating in the Perinatal Period				
Low Birth Weight	226	213	0	
Foetal Death & Stillbirth	36	32	0	
Neonatal Death	40	32	0	
Conditions Orginating in the Perinatal Period	1,698	1,439	0	
Congenital Malformations, Deformations and Chromosomal Abnormalities				

1 – 4 Yrs	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
F	M	F	M	F	M	F	M	F	
446	2,483	2,656	4,710	5,538	937	840	1,989	867	21,029
857	5,056	5,396	9,204	12,225	1,729	1,780	1,691	1,603	40,368
155	1,552	2,194	15,304	19,871	3,004	3,495	3,057	3,557	52,331
5	64	41	387	277	50	34	39	45	950
0	4	0	969	626	356	252	307	205	2,719
1	1	4	136	390	52	84	83	105	861
3,213	8,141	9,550	22,464	30,427	4,059	4,389	4,657	5,097	97,083
4,557	12,611	11,590	20,310	18,017	2,573	2,103	2,589	1,940	83,480
4,512	11,585	11,569	22,770	24,956	3,217	3,100	3,590	3,088	96,328
25	195	184	2,259	2,413	855	849	1,065	1,029	8,908
403	3,247	3,108	27,297	29,287	6,673	6,525	7,281	7,053	91,409
27	76	55	444	1,452	59	109	76	111	2,451
0	0	8	0	344	0	11	0	6	369
1	7	14	40	1,041	10	31	6	16	1,169
0	0	7	0	811	0	69	0	14	901
0	0	100	0	3,614	0	159	0	27	3,900
510	1,022	1,467	7,083	20,944	1,306	2,341	1,422	1,679	38,337
0	0	1	0	1,335	0	0	0	0	1,336
0	0	3	0	531	0	0	0	0	534
0	0	1	0	131	0	0	0	0	132
0	0	1	0	198	0	0	0	0	199
0	0	0	0	207	0	0	0	0	207
0	0	1	0	43	0	0	0	0	44
0	0	0	0	172	0	0	0	0	172
0	0	0	0	80	0	0	0	0	80
0	0	0	0	172	0	0	0	0	172
0	0	11	0	7,342	0	0	0	0	7,353
0	0	0	0	0	0	0	0	0	439
0	0	0	0	0	0	0	0	0	68
0	0	0	0	0	0	0	0	0	72
0	0	0	0	0	0	0	0	0	3,137
									0

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr			
	M	F	M	
Oro-facial Clefts	8	5	0	
Gastrointestinal Tract defects	0	0	1	
Talipes Equinovarus	0	1	0	
Omphalocele	1	1	0	
Other Malformations	84	75	92	
Injury, Poisoning and certain other consequences of External Causes				
Mushroom Poisoning (Toxic effect of other unspecified susbstances)	1	0	4	
Transport Accidents	4	2	22	
Accidental Falls	24	24	332	
Other Bites & Stings (excluding Dog bite)	14	19	192	
Dog Bites	6	11	309	
Drowning & Submersion	0	0	4	
Exposure to Electric Current	0	2	0	
Contact with Heat & Hot substances & exposure to smoke, fire, flames	29	26	245	
Snake Bite	0	0	1	
Contact with Venomous animals (excluding Snake bite)	1	0	2	
Accidental Poisoning by and Exposure to Noxious Substances	0	0	10	
Intentional Self-harm by Poisoning	0	0	2	
Intentional Self-harm by Drowning & Submersion	0	0	0	
Assault by Poisoning (includes homicidal poisoning)	0	0	0	
Assault by Drowning and Submersion	0	1	0	
Other Intentional Self-harm	0	6	4	
Work Related Injuries	9	9	273	
Others (injuries other than above & unknown cause of injury)	50	52	796	
Other Conditions				
Complications of Health Care	11	14	46	
ANC, Immunisation & Other Counselling	3,098	3,029	4,896	
Total	**22,747**	**21,746**	**58,976**	
Total Old Cases all Causes	**1,233,321**			

Source: Annual Health Bulletin 2018, MoH, Thimphu.

1 – 4 Yrs	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
F	M	F	M	F	M	F	M	F	
0	0	0	0	0	0	0	0	0	13
4	0	0	0	0	0	0	0	0	5
0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	2
57	49	35	33	57	4	4	3	5	498
7	41	28	59	63	10	8	10	8	239
28	85	68	985	363	112	33	63	49	1,814
237	1,241	619	1,908	1,083	384	219	379	280	6,730
223	547	442	985	1,065	179	164	151	153	4,134
248	1,175	780	1,688	1,275	269	194	278	183	6,416
4	15	7	53	24	5	3	5	6	126
1	10	1	39	14	7	3	3	1	81
197	283	227	512	506	80	55	64	67	2,291
1	4	11	88	46	22	10	16	9	208
2	6	5	19	20	4	0	2	2	63
7	8	26	20	54	8	1	3	4	141
0	2	4	48	74	0	1	0	0	131
0	0	1	7	7	1	0	1	0	17
0	0	1	7	11	2	0	0	1	22
2	1	2	19	14	0	1	1	0	41
0	23	28	140	92	28	7	8	7	343
185	2,763	1,441	12,549	5,589	1,703	880	1,374	713	27,488
552	3,620	2,008	7,350	4,257	863	597	858	585	21,588
35	123	105	333	531	28	54	43	53	1,376
5,137	2,186	2,585	29,386	24,649	1,318	1,411	1,107	1,189	79,991
55,900	**126,922**	**127,255**	**330,754**	**404,872**	**55,764**	**58,344**	**63,364**	**63,988**	**1,390,632**

Table 2.7: Inpatient Cases in all Hospitals by Sex and Age Group, Bhutan, 2017

Indicators	Under 1 Yr	
	M	F
Infections		
Diarrhoea	84	57
Dysentery	8	5
Tuberculosis	1	2
Other Sepsis (including Septicaemia)	147	92
Congenital Syphillis	0	0
Genital Ulcer	0	0
Syphilis	0	0
Urethal/Vaginal Discharges	0	0
Other Sexually Transmitted Disease, excluding HIV/AIDS	0	0
Rickettsial Disease	14	5
Viral, Protozoal & Helminthic disease		
Chicken Pox	2	3
Acute Hepatitis A	0	0
Acute Hepatitis B	0	0
Other Acute Hepatitis (includes Hepatitis C & E)	0	0
Plasmodium falciparum malaria	0	0
Plasmodium Vivax malaria	0	0
Other Malaria	2	0
Visceral Leishmaniasis (Kala-azar)	0	1
Intestinal Worms	0	1
Scabies	8	4
Streptococcus Group A	0	0
Other Infections (excluding ear, brain, STI)	92	80
Neoplasm		
Oesophagus Cancer	0	0
Stomach/ Gastric Cancer	0	0
Colon Cancer	0	0
Rectal Cancer	0	0
Hepato-Biliary Cancer	0	0
Pancreatic Cancer	0	0
Breast Cancer	0	0
Cervical Cancer	0	0
Other Cancers	0	1
Blood diseases		
Neoplasm (benign + CIS)	0	0
Nutritional Anaemia	15	15
Blood & Immune Disorders	14	2

(Numbers)

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F	M	F		
	224	150	96	103	174	194	33	39	52	59	1,265	1
	30	28	18	9	28	29	7	7	9	11	189	0
	3	1	10	10	235	241	23	14	64	33	637	9
	55	47	36	29	111	94	23	24	86	70	814	157
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	3	2	0	1	0	0	6	0
	0	0	0	0	0	1	1	2	0	0	4	0
	0	1	0	0	4	15	1	0	0	1	22	0
	0	1	0	0	8	12	0	0	1	1	23	0
	32	29	45	50	149	145	32	27	30	37	595	3
	6	4	9	5	13	8	0	1	0	0	51	0
	1	0	3	1	6	4	3	1	1	1	21	0
	1	1	4	1	32	28	1	2	6	12	88	4
	3	1	5	3	38	16	1	11	2	14	94	3
	0	0	0	0	10	1	0	0	0	0	11	1
	0	0	0	3	15	9	0	4	1	0	32	0
	0	1	10	5	65	70	9	5	4	2	173	0
	0	0	0	0	1	3	0	2	1	0	8	0
	0	0	3	6	6	15	2	4	4	4	45	0
	4	2	13	3	2	1	0	1	0	2	40	0
	1	0	1	0	1	0	0	0	0	0	3	0
	123	106	117	105	473	425	68	69	83	88	1,829	15
	0	0	0	0	2	1	5	8	17	8	41	15
	0	0	0	0	12	3	14	18	61	31	139	23
	0	0	0	0	1	7	2	13	10	15	48	8
	0	0	0	0	2	3	5	1	10	6	27	5
	0	0	0	0	4	5	5	3	9	11	37	14
	0	0	0	0	0	0	3	0	2	2	7	2
	0	0	0	0	0	18	0	7	0	11	36	2
	0	0	0	0	0	29	0	20	0	22	71	2
	4	2	13	1	44	91	32	47	91	73	399	59
	0	4	2	2	18	107	19	22	63	11	248	4
	31	24	6	21	62	166	22	28	71	52	513	4
	18	13	17	13	87	135	24	17	35	54	429	8

cont...

Table 2.7 cont...

Indicators	Under 1 Yr	
	M	F
Endocrine, Metabolic & Nutritional		
Diabetes	0	0
Malnutrition (exclude child clinic attendance)	3	2
Other Nutritional & Metabolic Disorders	16	14
Mental disorders		
Dementia	0	0
Mental and behavioral disorder due to alcohol	0	0
Mental and behavioral disorder due to multiple drug use & other use of psychoactive substances	0	0
Psychosis	0	0
Depression	0	0
Anxiety	0	0
Other Mental Disorders	0	1
Disease of Nervous system		
Meningitis/Encephalitis	28	33
Epilepsy	7	6
Other Nervous including Peripheral Disorders	22	10
Eye & Ear Diseases		
Conjunctivitis	2	2
CataractB	0	0
Disorders of Refraction & Accomodation (Refractive Error in the Eye)	0	0
Other Eye Disorders	4	3
Otitis Media	6	4
Other Ear Disorders	0	1
Diseases of Circulatory System		
Rheumatic Heart Disease	4	0
Hypertension	0	0
Ischaemic Heart Diseases	0	0
Cerebro-vascular DiseasesB	1	0
Bubo	0	0
Other Circulatory Diseases	18	6
Respiratory diseases		
Common Cold	131	106
Acute Pharyngitis/Tonsilitis	17	17
Pneumonia	307	215
Asthma	1	5
Other Respiratory & Nose Diseases	350	209

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F	M	F		
	1	0	0	1	110	95	87	78	173	148	693	18
	7	8	3	2	3	2	1	0	3	1	35	0
	20	11	1	5	49	66	15	13	32	36	278	7
	0	0	0	0	3	1	0	0	1	5	10	0
	0	0	0	1	388	128	74	16	28	22	657	0
	0	0	0	1	89	22	1	0	0	1	114	0
	0	0	0	0	49	29	2	2	2	1	85	0
	0	0	0	5	53	107	12	20	5	10	212	1
	0	0	3	2	41	71	2	6	4	3	132	0
	5	2	4	4	86	95	3	8	8	14	230	1
	26	28	15	8	26	10	9	3	3	3	192	45
	17	13	23	19	84	51	7	9	10	11	257	1
	40	37	46	37	250	253	48	40	78	64	925	26
	1	5	3	2	22	15	3	2	5	7	69	0
	0	0	1	1	12	18	5	9	63	52	161	0
	1	0	2	1	3	1	1	3	13	11	36	0
	7	14	33	20	112	108	24	28	46	53	452	0
	12	8	18	19	26	17	0	0	4	8	122	0
	8	5	12	10	45	54	4	2	4	4	149	0
	1	1	8	6	27	28	10	14	15	22	136	5
	0	0	4	7	269	275	136	143	380	355	1,569	16
	0	0	1	0	23	12	14	12	42	32	136	15
	2	1	1	1	36	33	42	24	134	89	364	57
	0	0	1	0	1	3	0	0	1	2	8	0
	13	11	22	21	264	232	100	64	380	329	1,460	100
	237	253	232	212	408	477	54	62	51	50	2,273	0
	93	85	144	147	210	325	21	21	14	31	1,125	0
	488	362	179	138	136	113	56	54	182	194	2,424	67
	13	8	23	22	31	74	19	33	85	119	433	3
	356	316	195	154	453	407	140	157	608	591	3,936	88

cont...

Table 2.7 cont...

Indicators	Under 1 Yr	
	M	F
Diseases of the Digestive system		
Diseases of Teeth & Gums	2	0
Dental Caries	0	0
Peptic Ulcer Syndrome	0	0
Acute AppendicitisB	0	0
Alcohol Liver Diseases	0	0
Gall Bladder Diseases	3	1
Other Diseases of the Digestive System	81	73
Diseases of the Skin and Subcutaneous Tissue		
Skin Infections	40	31
Other Disorders of Skin & Subcutaneous-tissues	52	26
Diseases of Musculo-skeletal system & Cogenital Deformities		
Arthritis & Arthrosis	0	0
Other Musculo-skeletal Disorders	3	6
Diseases of Genito-Urinary Diseases		
CystitisB	3	3
Infection of the Breasts, including Puerperium	0	0
Other Disease of the Breast	0	0
Pelvic Inflammatory DiseaseB	0	0
Menstrual Disturbances	0	0
Other Kidney, UT/ Genital Disorders	24	21
Pregnancy, Childbirth and Puerperium		
Abortions	0	0
Pregnancy Induced Hypertension	0	0
Ante-Partum Haemorrhage & Placenta Previa	0	0
Malpresentation	0	0
Prolonged Labour	0	0
Obstructed Labour	0	0
Post Partum Haemorrhage	0	0
Retained Placenta	0	0
Puerperal Sepsis	0	0
Other Complications of Pregnancy	0	0
Certain Conditions Originating in the Perinatal Period		
Low Birth Weight	217	212
Foetal Death & Stillbirth	36	31
Neonatal Death	40	32
Conditions Originating in the Perinatal Period	1,552	1,311
Congenital Malformations, Deformations and Chromosomal Abnormalities		

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F	M	F		
	12	12	8	9	82	46	6	6	5	6	194	0
	9	5	20	12	39	32	6	6	9	2	140	0
	1	1	18	24	304	360	44	60	83	118	1,013	2
	5	4	58	32	238	171	37	21	31	29	626	2
	0	0	1	0	556	328	187	142	164	124	1,502	159
	1	0	0	2	114	349	46	80	68	87	751	1
	189	135	227	186	950	899	175	170	347	270	3,702	43
	64	67	75	61	162	136	29	27	57	45	794	0
	107	83	159	123	376	446	92	44	136	92	1,736	3
	7	2	18	9	63	54	37	21	74	53	338	0
	37	19	123	90	562	435	114	70	163	132	1,754	3
	12	6	12	4	67	172	10	20	19	38	366	1
	0	0	0	0	0	52	0	1	0	1	54	0
	0	1	0	0	1	52	0	2	0	2	58	0
	0	0	0	2	0	75	0	11	0	3	91	0
	0	0	0	3	0	148	0	19	0	6	176	0
	74	67	202	133	764	1,483	182	199	338	262	3,749	38
	0	0	0	0	0	1,081	0	0	0	0	1,081	0
	0	0	0	1	0	392	0	0	0	0	393	0
	0	0	0	1	0	113	0	0	0	0	114	1
	0	0	0	0	0	73	0	0	0	0	73	0
	0	0	0	0	0	189	0	0	0	0	189	2
	0	0	0	1	0	39	0	0	0	0	40	0
	0	0	0	0	0	163	0	0	0	0	163	0
	0	0	0	0	0	67	0	0	0	0	67	0
	0	0	0	0	0	167	0	0	0	0	167	0
	0	0	0	11	0	6,306	0	0	0	0	6,317	1
	0	0	0	0	0	0	0	0	0	0	429	14
	0	0	0	0	0	0	0	0	0	0	67	67
	0	0	0	0	0	0	0	0	0	0	72	72
	0	0	0	0	0	0	0	0	0	0	2,863	41

cont...

Table 2.7 cont...

Indicators	Under 1 Yr	
	M	F
Oro-facial Clefts	8	5
Gastrointestinal Tract defects	0	0
Talipes Equinovarus	0	1
Omphalocele	1	1
Other Malformations	83	74
Injuries & Trauma		
Mushroom Poisoning (Toxic effect of other unspecified substances)	1	0
Transport Accidents	1	2
Accidental Falls	6	9
Other Bites & Stings (excluding dog bite)	2	0
Dog Bites	0	0
Drowning & Submersion	0	0
Exposure to Electric Current	0	1
Contact with Heat & Hot substances & exposure to smoke, fire, flames	4	2
Snake Bite	0	0
Contact with Venomous animals (excluding Snake bite)	0	0
Accidental Poisoning by and Exposure to Noxious Substances	0	0
Intentional Self-harm by Poisoning	0	0
Intentional Self-harm by Drowning and Submersion	0	0
Assault by Poisoning (includes homicidal poisoning)	0	0
Assault by Drowning and Submersion	0	0
Other Intentional Self-harm	0	0
Work Related Injuries	0	0
Others (injuries other than above & unknown cause of injury)	8	2
Other Conditions		
Complications of Health Care	5	4
ANC, Immunization & Other Counseling	11	8
Total	**3,487**	**2,758**
Total Old Cases all Causes	**5,969**	

Note: Inpatient = those patients admitted to bed overnight (records deaths related to particular disease) in hospitals & BHU-I.

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F	M	F		
	0	0	0	0	0	0	0	0	0	0	13	0
	1	4	0	0	0	0	0	0	0	0	5	0
	0	0	0	0	0	0	0	0	0	0	1	0
	0	0	0	0	0	0	0	0	0	0	2	0
	90	56	45	33	27	37	4	1	1	4	455	9
	2	5	7	7	21	27	4	2	5	5	86	0
	8	10	28	18	338	144	51	16	27	24	667	13
	46	30	126	60	277	146	67	40	109	85	1,001	13
	4	9	17	5	50	40	19	16	13	4	179	0
	22	10	55	32	90	62	6	6	10	9	302	0
	1	1	0	0	1	0	0	0	0	0	3	0
	0	1	1	1	8	3	0	1	1	0	17	0
	20	12	21	15	37	40	6	6	11	6	180	5
	0	1	1	6	50	33	16	5	7	4	123	0
	0	0	1	0	1	4	0	0	0	1	7	0
	6	3	1	1	10	16	3	0	3	3	46	1
	1	0	0	2	17	41	0	1	0	0	62	1
	0	0	0	0	4	7	0	0	0	0	11	2
	0	0	0	0	1	4	0	0	0	0	5	0
	0	0	1	0	0	1	0	0	0	0	2	0
	0	0	0	0	22	20	2	0	1	0	45	2
	1	4	27	5	373	109	50	25	42	24	660	1
	66	50	257	120	736	387	127	67	206	114	2,140	17
	9	4	2	1	47	52	11	7	7	5	154	5
	49	39	25	26	138	896	41	22	39	36	1,330	2
	2,728	**2,224**	**2,918**	**2,252**	**11,441**	**20,897**	**2,597**	**2,335**	**5,063**	**4,493**	**63,193**	**1,310**

Table 2.8: Outpatient Cases in all Hospitals by Sex and Age, Bhutan, 2017

Name of Diseases	Under 1 Yr	
	M	F
Infections		
Diarrhoea	993	887
Dysentery	50	44
Tuberculosis	0	0
Other Sepsis (including Septicaemia)	2	2
Congenital Syphillis	0	0
Genital Ulcer	0	0
Syphilis	0	0
Urethal/Vaginal Discharges	1	1
Other Sexually Transmitted Disease, excluding HIV/AIDS	0	0
Rickettsial Disease	0	1
Viral, Protozoal & Helminthic disease		
Chicken Pox	19	14
Acute Hepatitis A	0	0
Acute Hepatitis B	0	0
Other Acute Hepatitis (includes Hepatitis C & E)	4	2
Plasmodium falciparum malaria	0	0
Plasmodium Vivax malaria	0	0
Other Malaria	1	1
Visceral Leishmaniasis (Kala-azar)	0	0
Intestinal Worms	9	8
Scabies	21	27
Streptococcus Group A	0	1
Other Infections (excluding ear, brain, STI)	187	211
Neoplasm		
Oesophagus Cancer	0	0
Stomach/ Gastric Cancer	0	0
Colon Cancer	0	0
Rectal Cancer	0	0
Hepato-Biliary Cancer	0	0
Pancreatic Cancer	0	0
Breast Cancer	0	0
Cervical Cancer	0	0
Other Cancers	0	0
Blood diseases		
Neoplasm (benign + CIS)	0	0
Nutritional Anaemia	7	11

(Numbers)

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	M	F	
	2,644	2,310	2,889	2,437	4,135	3,677	421	471	464	478	21,806
	194	182	292	277	626	533	83	83	82	95	2,541
	4	3	3	4	102	123	5	12	20	15	291
	6	6	13	4	18	22	0	0	2	2	77
	1	0	0	0	0	0	0	0	0	0	1
	0	0	2	2	37	40	5	4	4	4	98
	1	0	0	0	21	23	1	0	2	0	48
	1	0	2	7	760	1,038	47	42	13	22	1,934
	0	4	5	1	321	212	12	8	6	3	572
	4	1	15	9	47	43	11	8	4	14	157
	102	82	356	320	188	171	10	11	6	7	1,286
	3	12	5	28	24	16	0	0	3	1	92
	4	6	11	12	93	99	14	9	8	3	259
	1	0	0	0	29	16	2	1	4	1	60
	0	0	1	1	3	7	3	1	1	1	18
	0	0	0	0	3	3	1	2	0	0	9
	0	2	2	2	21	11	2	0	0	1	43
	0	0	9	14	16	29	1	0	0	0	69
	68	62	167	174	193	159	22	26	7	9	904
	160	144	757	493	1,015	726	64	69	80	60	3,616
	11	8	27	39	32	41	6	4	4	2	175
	470	410	874	821	3,181	3,383	374	321	217	180	10,629
	0	0	0	0	1	1	1	0	2	0	5
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	1	2
	0	0	0	0	0	0	0	0	1	0	1
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	14	0	7	0	5	26
	5	4	7	15	81	153	51	64	65	44	489
	0	0	8	7	38	67	5	14	14	9	162
	99	90	308	474	1,081	3,422	224	300	254	333	6,603

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr	
	M	F
Blood & Immune Disorders	0	0
Endocrine, Metabolic & Nutritional		
Diabetes	0	0
Malnutrition (exclude child clinic attendance)	0	1
Other Nutritional & Metabolic Disorders	13	13
Mental disorders		
Dementia	0	0
Mental and behavioral disorder due to alcohol	0	0
Mental and behavioral disorder due to multiple drug use & other use of psychoactive substances	0	0
Psychosis	0	0
Depression	0	0
Anxiety	1	0
Other Mental Disorders	1	0
Disease of Nervous system		
Meningitis/Encephalitis	1	0
Epilepsy	5	5
Other Nervous including Peripheral Disorders	34	45
Eye & Ear Diseases		
Conjunctivitis	192	197
CataractB	0	1
Disorders of Refraction & Accomodation (Refractive Error in the Eye)	2	2
Other Eye Disorders	231	288
Otitis Media	120	104
Other Ear Disorders	105	108
Diseases of Circulatory System		
Rheumatic Heart Disease	0	1
Hypertension	0	0
Ischaemic Heart Diseases	0	0
Cerebro-vascular DiseasesB	0	0
Bubo	0	0
Other Circulatory Diseases	11	10
Respiratory diseases		
Common Cold	4,011	4,052
Acute Pharyngitis/Tonsilitis	578	378
Pneumonia	250	216
Asthma	3	6

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	M	F	
	1	2	8	15	51	168	17	15	11	15	303
	0	0	5	4	681	1,073	865	887	851	1,262	5,628
	1	3	3	4	6	12	1	0	2	2	35
	32	56	80	103	399	687	69	116	66	84	1,718
	0	0	0	0	3	1	0	0	0	3	7
	0	0	0	0	124	45	13	5	13	6	206
	0	0	0	4	55	12	0	0	0	0	71
	0	0	0	1	34	31	3	0	1	1	71
	0	1	1	1	74	145	15	14	4	15	270
	0	1	7	19	252	539	36	56	23	25	959
	6	2	8	23	265	435	28	67	29	29	893
	0	1	3	2	19	29	3	8	11	6	83
	16	7	44	55	290	328	40	31	20	28	869
	149	167	724	918	4,337	7,287	778	802	625	645	16,511
	347	361	1,282	1,273	3,523	3,896	552	510	474	454	13,061
	1	1	8	17	51	48	37	35	130	101	430
	9	11	93	136	514	915	162	185	190	145	2,364
	518	511	1,773	1,917	5,891	7,463	1,161	1,240	1,414	1,615	24,022
	314	373	963	862	1,849	1,746	211	179	148	120	6,989
	440	478	1,434	1,333	2,581	2,938	466	343	421	388	11,035
	5	4	10	10	208	314	163	170	175	163	1,223
	0	0	10	24	2,490	3,579	1,651	1,806	2,283	2,438	14,281
	0	0	1	1	13	16	8	2	26	14	81
	0	0	1	1	19	12	8	12	27	16	96
	0	0	4	3	7	5	1	2	2	0	24
	29	20	83	110	677	858	144	135	199	213	2,489
	11,018	9,909	14,086	13,466	23,605	24,934	3,109	2,912	2,577	2,552	116,231
	2,139	1,980	5,474	5,670	10,324	12,434	1,199	1,234	804	830	43,044
	554	486	244	240	176	187	32	44	58	70	2,557
	16	13	57	51	112	227	63	88	122	157	915

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr	
	M	F
Other Respiratory & Nose Diseases	931	947
Diseases of the Digestive system		
Diseases of Teeth & Gums	43	46
Dental Caries	0	0
Peptic Ulcer Syndrome	4	6
Acute AppendicitisB	0	0
Alcohol Liver Diseases	0	0
Gall Bladder Diseases	0	0
Other Diseases of the Digestive System	595	666
Diseases of the Skin and Subcutaneous Tissue		
Skin Infections	778	759
Other Disorders of Skin & Subcutaneous-tissues	1,030	1,121
Diseases of Musculo-skeletal system & Cogenital Deformities		
Arthritis & Arthrosis	1	0
Other Musculo-skeletal Disorders	36	41
Diseases of Genito-Urinary Diseases		
CystitisB	2	3
Infection of the Breasts, including Puerperium	0	0
Other Disease of the Breast	0	0
Pelvic Inflammatory DiseaseB	0	0
Menstrual Disturbances	0	0
Other Kidney, UT/ Genital Disorders	25	31
Pregnancy, Childbirth and Puerperium		
Abortions	0	0
Pregnancy Induced Hypertension	0	0
Ante-Partum Haemorrhage & Placenta Previa	0	0
Malpresentation	0	0
Prolonged Labour	0	0
Obstructed Labour	0	0
Post Partum Haemorrhage	0	0
Retained Placenta	0	0
Puerperal Sepsis	0	0
Other Complications of Pregnancy	0	0
Certain Conditions Originating in the Perinatal Period		
Low Birth Weight	2	0
Foetal Death & Stillbirth	0	0
Neonatal Death	0	0
Conditions Originating in the Perinatal Period	144	126

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	M	F	
	1,693	1,577	2,993	2,945	6,761	8,502	1,155	1,057	1,059	1,145	30,765
	330	297	1,571	1,653	3,084	3,440	560	458	1,597	468	13,547
	693	724	3,939	4,173	7,261	9,475	1,282	1,251	1,220	1,125	31,143
	93	105	802	1,096	8,935	11,443	1,712	1,866	1,522	1,509	29,093
	3	1	5	9	120	91	12	10	8	12	271
	0	0	3	0	368	266	147	91	117	66	1,058
	0	1	1	2	22	41	6	4	13	17	107
	1,929	1,928	4,053	4,685	13,176	17,821	2,170	2,326	1,992	2,211	53,552
	2,785	2,538	5,681	4,982	11,021	9,586	1,327	1,007	1,158	814	42,436
	2,748	2,654	5,606	5,327	12,868	13,437	1,711	1,472	1,550	1,271	50,795
	11	13	99	93	1,126	1,173	368	388	340	345	3,957
	310	295	2,021	1,927	17,466	17,611	3,841	3,233	3,266	2,986	53,033
	19	21	64	51	377	1,278	49	89	57	73	2,083
	0	0	0	3	0	186	0	7	0	2	198
	2	0	5	7	35	542	8	17	5	5	626
	0	0	0	5	0	733	0	58	0	11	807
	0	0	0	47	0	2,059	0	81	0	11	2,198
	261	331	445	789	4,187	11,639	700	1,168	600	696	20,872
	0	0	0	0	0	181	0	0	0	0	181
	0	0	0	2	0	124	0	0	0	0	126
	0	0	0	0	0	12	0	0	0	0	12
	0	0	0	1	0	121	0	0	0	0	122
	0	0	0	0	0	2	0	0	0	0	2
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	0	0	0	0	1
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	3	0	0	0	0	3
	0	0	0	0	0	798	0	0	0	0	798
	0	0	0	0	0	0	0	0	0	0	2
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	270

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr	
	M	F
Congenital Malformations, Deformations and Chromosomal Abnormalities		
Oro-facial Clefts	0	0
Gastrointestinal Tract defects	0	0
Talipes Equinovarus	0	0
Omphalocele	0	0
Other Malformations	1	1
Injury, Poisoning and certain other Consequences of External Causes		
Mushroom Poisoning (Toxic effect of other unspecified substances)	0	0
Transport Accidents	2	0
Accidental Falls	15	11
Other Bites & Stings (excluding dog bite)	4	9
Dog Bites	6	3
Drowning & Submersion	0	0
Exposure to Electric Current	0	0
Contact with Heat & Hot substances & exposure to smoke, fire, flames	11	5
Snake Bite	0	0
Contact with Venomous animals (excluding Snake bite)	0	0
Accidental Poisoning by and Exposure to Noxious Substances	0	0
Intentional Self-harm by Poisoning	0	0
Intentional Self-harm by Drowning and Submersion	0	0
Assault by Poisoning (includes homicidal poisoning)	0	0
Assault by Drowning and Submersion	0	0
Other Intentional Self-harm	0	0
Work Related Injuries	4	5
Others (injuries other than above & unknown cause of injury)	31	23
Other Conditions		
Complications of Health Care	1	2
ANC, Immunization & Other Counseling	937	859
Total	**11,455**	**11,301**
Total Old Cases all Causes	**1,013,289**	

Source: Annual Health Bulletin 2018, MoH, Thimphu.

	1 – 4 Yrs		5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	M	F	
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	2	1	4	1	5	17	0	2	2	1	37
	1	2	27	11	28	17	3	2	2	1	94
	12	13	33	32	420	157	44	12	23	13	761
	155	116	471	247	917	553	201	80	128	84	2,978
	81	101	207	152	403	425	45	59	45	38	1,569
	138	143	536	335	889	694	124	84	101	47	3,100
	2	0	9	2	35	15	2	2	2	2	71
	0	0	4	0	16	5	4	1	0	0	30
	76	73	98	57	195	166	25	12	12	12	742
	0	0	1	2	16	4	2	1	3	1	30
	0	0	0	2	6	5	1	0	0	0	14
	2	2	2	21	6	30	2	0	0	0	65
	0	0	1	1	19	18	0	0	0	0	39
	0	0	0	0	1	0	0	0	0	0	1
	0	0	0	0	5	5	1	0	0	0	11
	0	0	0	0	14	7	0	1	0	0	22
	0	0	0	2	42	27	4	0	1	1	77
	107	67	740	410	4,635	2,118	514	272	330	167	9,369
	371	273	1,301	743	3,558	2,117	374	240	267	175	9,473
	7	3	23	11	98	155	4	12	5	5	326
	1,273	1,084	435	594	24,411	5,157	224	203	166	179	35,522
	32,477	**30,076**	**63,339**	**61,824**	**193,222**	**206,650**	**28,822**	**27,921**	**27,561**	**26,180**	**720,828**

Table 2.9: Number of Patient Admissions & Average Length of Stay in Dzongkhag Hospitals, Bhutan, (2016-2017)

Dzongkhag	2016					
	Total Admissions	Discharged	Deaths	Absconded	Patient Days	
Bumthang	780	609	12	2	2,836	
Chhukha	4,928	4,311	65	6	19,178	
Dagana	1,495	1,070	143	7	11,826	
Gasa	84	70	3	0	109	
Haa	524	425	9	0	695	
Lhuentse	812	594	10	0	2,438	
Monggar	4,840	4,768	167	8	25,998	
Paro	2,756	2,536	31	4	8,115	
Pema Gatshel	1,917	1,644	14	4	6,324	
Punakha	1,958	1,825	12	10	5,378	
Samdrup Jongkhar	3,151	2,634	28	11	11,238	
Samtse	3,438	2,953	62	10	15,614	
Sarpang	4,320	3,737	112	9	16,295	
Thimphu	18,458	17,477	691	22	117,425	
Trashigang	4,681	4,123	62	28	18,190	
Trashi Yangtse	930	936	13	3	3,760	
Trongsa	882	709	15	4	2,628	
Tsirang	1,603	1,578	23	1	6,086	
Wangdue Phodrang	2,752	2,213	39	6	7,921	
Zhemgang	1,591	1,481	11	5	4,991	
Bhutan	**61,900**	**55,693**	**1,522**	**140**	**287,045**	

Source: Annual Health Bulletin 2018, MoH, Thimphu.

	2017						
	Average length of stay	Total Admissions	Discharged	Deaths	Absconded	Patient Days	Average length of stay
	4.6	688	505	8	2	2,137	4.1
	4.4	4,910	4,241	53	13	20,288	4.7
	9.7	1,427	1,282	17	7	4,540	3.5
	1.5	58	42	1	0	71	1.7
	1.6	306	263	3	3	1,166	4.3
	4.0	758	620	12	2	2,792	4.4
	5.3	4,611	4,485	118	6	26,542	5.8
	3.2	2,427	1,892	29	12	6,790	3.5
	3.8	2,013	1,600	425	5	5,090	2.5
	2.9	1,959	1,663	18	8	6,025	3.6
	4.2	2,850	2,540	34	4	9,298	3.6
	5.2	3,170	2,879	52	9	12,764	4.3
	4.2	3,911	3,511	87	9	14,378	4.0
	6.5	19,056	17,515	691	31	116,992	6.4
	4.3	3,571	3,210	58	18	15,024	4.6
	3.9	720	700	12	1	2,883	4.0
	3.6	784	637	15	6	2,108	3.2
	3.8	1,325	1,162	378	5	5,124	3.3
	3.5	2,663	2,291	48	4	8,215	3.5
	3.3	1,420	1,331	14	6	5,101	3.8
	5.0	**58,627**	**52,369**	**2,073**	**151**	**267,327**	**4.9**

Table 2.10: Nutritional and Vitamin A Status of Children Attending Clinics by Dzongkhag, Bhutan, 2017

Dzongkhag	Child Attendances						
	No. of children 6 months old		Children exclusively breastfed for 6 months	No. of children 0-11 months old		No. of children 12-59 months old	
	New	Old		New	Old	New	Old
Bumthang	36	498	942	124	2,513	20	4,159
Chhukha	653	2,962	5,290	969	7,743	1,109	12,875
Dagana	102	472	1,259	173	2,914	54	4,927
Gasa	13	31	48	11	258	4	491
Haa	177	860	1,073	94	729	181	1,847
Lhuentse	70	284	490	146	1,989	51	3,287
Monggar	805	1,202	1,246	219	4,771	37	9,428
Paro	109	602	562	294	8,963	1	7,247
Pema Gatshel	113	262	513	186	3,225	2	5,938
Punakha	247	857	893	61	3,641	46	4,597
Samdrup Jongkhar	176	894	1,023	316	4,581	136	10,160
Samtse	479	1,701	3,059	724	6,959	118	14,399
Sarpang	98	675	748	716	5,349	6	8,731
Thimphu	2,498	1,500	3,032	4,266	19,990	110	23,260
Trashigang	0	691	1,213	537	5,104	30	9,624
Trashi Yangtse	24	284	948	175	2,234	0	3,603
Trongsa	86	382	507	50	1,972	27	3,610
Tsirang	49	322	357	125	2783	252	5280
Wangdue Phodrang	272	1,433	1,762	124	3,968	93	5,987
Zhemgang	129	488	495	192	1,622	146	3,835
Bhutan	**6,136**	**16,400**	**25,460**	**9,502**	**91,308**	**2,423**	**143,285**

Source: Annual Health Bulletin 2018, MoH, Thimphu.

	Children normal (lt/ht for age)	Children normal (wt for age)	Vit A Supplementation/Deworming			
			Children 6-11 months given Vitamin A	Children normal (wt for age)	Post-partum mothers Vitamin A	Children 12-59 months given Deworming
	6,811	6,967	369	1,724	117	1,639
	19,803	20,833	3,180	6,906	1,140	5,922
	7,188	7,988	1,716	7,802	166	1,839
	756	872	79	274	26	239
	3,630	3,719	258	923	69	828
	5,102	5,555	296	1,123	84	1,016
	14,277	15,211	787	3,922	328	3,545
	15,052	16,007	686	4,434	297	3,813
	9,170	9,104	352	2,380	236	2,301
	9,424	8,770	789	1,999	189	1,589
	13,398	15,342	610	3,613	396	3,391
	16,829	22,504	972	6,396	461	5,957
	9,626	14,466	635	3,636	772	3,385
	29,771	48,018	2,428	11,597	4,482	10,985
	15,024	14,901	247	3,579	296	3,512
	5,850	6,277	647	1,643	177	1,503
	5,487	5,920	261	1,281	77	1,265
	6203	8463	313	2351	142	2278
	8,786	9,643	1,436	3,016	673	2,752
	5,436	6,033	290	1,523	123	1,446
	207,623	**246,593**	**16,351**	**70,122**	**10,251**	**59,205**

Table 2.11: Immunization Status by Dzongkhag, Bhutan, 2017

(Numbers)

Dzongkhag	Antigen				
	BCG	Measles	OPV 0	OPV3	DPT-Hep B 3
Bumthang	141	249	124	264	263
Chhukha	1,252	1,046	1,211	1,093	1,100
Dagana	216	345	193	338	338
Gasa	8	42	15	39	41
Haa	71	160	52	186	187
Lhuentse	115	247	154	234	233
Monggar	865	571	824	582	572
Paro	313	730	303	711	711
Pema Gatshel	223	326	189	337	337
Punakha	266	323	243	386	383
Samdrup Jongkhar	396	490	379	471	473
Samtse	537	832	496	831	831
Sarpang	819	569	803	605	605
Thimphu	4,485	2,244	4,401	2,287	2,266
Trashigang	519	576	476	564	564
Trashi Yangtse	192	259	201	249	253
Trongsa	169	258	84	274	277
Tsirang	183	271	178	264	264
Wangdue Phodrang	260	521	255	565	545
Zhemgang	136	244	126	237	232
Bhutan	**11,166**	**10,303**	**10,707**	**10,517**	**10,475**

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.12: Details of Maternal & Child Health Care Activities, Bhutan, (2013-2017)

(Numbers)

Type of care	2013	2014	2015	2016	2017
Antenatal care attendence	**71,464**	**74,613**	**73,881**	**27,833**	**26,159**
1st visit	12,500	12,844	11,994	11,680	11,816
2nd visit	12,549	12,228	11,404	...	...
3rd visit	11,955	11,999	11,306	...	...
4th visit	10,843	10,701	10,718	9,297	9,145
8th visit	23,617	26,841	28,459	6,856	5,198
Deliveries attended by trained health personnel (b)	**11,158**	**10,873**	**11,430**	**10,948**	**11,134**
Home	1,010	582	528	230	154
Facility	10,148	10,291	10,902	10,718	10,980
Post-natal care attendance	**20,942**	**26,166**	**22,654**	**28,305**	**28,638**
1st visit	9,462	9,440	8,626	4,144	4,076
2+ visit	11,480	16,726	14,028	8,595	8,850
3rd visit	...	...	...	8,118	8,234
4th visit	...	...	...	7,448	7,478

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.13: Family Planning Methods by Type, Bhutan, (2013-2017)

(Numbers)

Method	2013	2014	2015	2016	2017
Female Sterilisation (Tubectomy)	4,751	4,855	5,381	5,149	5,377
Male Sterilisation (Vasectomy)	9,607	8,773	8,122	6,199	5,653
Intra uterine device (IUD) inserted [1]	2,492	1,530	1,506	1,609	1,777
Oral Pills (OCP) [2]	92,730	72,543	76,799	83,637	69,572
Condoms [3]	1,474,942	1,703,299	1,275,567	1,094,290	873,398
Injection DMPA [4]	77,524	79,290	86,322	85,195	84,626

Note: [1] *IUD = No. Inserted.*
[2] *Pills = No. of cycles.*
[3] *Condoms = No. of pieces distributed.*
[4] *DMPA = No. of Injections.*

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.14: Number of Users of Family Planning Methods by Type, by Dzongkhag, Bhutan, 2017

Dzongkhag	Family planning methods					
	New IUD Inserted	Oral pills [2] (No. of Cycles issued)	DMPA [3] (No. Injected)	Vasectomy [1]	Tubectomy [1]	No. of Condom issued (In pieces)
Bumthang	46	1,910	2,240	67	150	29,601
Chhukha	126	8,181	8,497	393	379	59,389
Dagana	39	6,930	2,231	182	61	17,744
Gasa	4	330	593	35	43	8,948
Haa	0	1,508	1,485	118	115	16,329
Lhuentse	131	1,648	1,465	187	100	28,703
Monggar	252	2,933	7,246	226	372	86,986
Paro	38	1,769	4,978	339	919	81,145
Pema Gatshel	97	2,003	3,029	323	134	33,361
Punakha	45	3,008	4,321	225	324	42,928
Samdrup Jongkhar	17	3,531	4,822	252	292	38,508
Samtse	25	9,486	8,716	1,495	566	56,861
Sarpang	48	5,091	5,514	424	560	52,335
Thimphu	354	6,280	9,667	70	102	116,051
Trashigang	249	3,744	5,944	330	295	69,771
Trashi Yangtse	39	1,502	2,059	75	89	22,800
Trongsa	93	1,199	2,043	106	101	22,722
Tsirang	19	3,520	3,836	301	265	24,318
Wangdue Phodrang	81	2,975	3,391	368	364	36,637
Zhemgang	74	2,024	2,549	137	146	28,261
Bhutan	**1,777**	**69,572**	**84,626**	**5,653**	**5,377**	**873,398**

Note: [1] *Cumulative figures, collected from Annual Household Survey*
[2] *Oral pills = 1 user is equal to12 cycles or 13 cycles*
[3] *DMPA = 1 user is equal to 4 injections*

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.15: Number of Malaria Cases by Type and Deaths, Bhutan, (2013-2017)

(Numbers)

Details	2013	2014	2015	2016	2017
Plasmodium vivax	31	28	21	16	11
Plasmodium falciparum	13	15	13	1	0
Mixed infections	1	0	0	1	0
Deaths due to malaria	0	0	0	0	1

Source: Annual Health Bulletin 2018, MoH, Thimphu.

Table 2.16: Number of Tuberculosis Cases by Type, Bhutan, 2017

Hospital	PBC								PCD			
	New		Relapse		Previously treated		Unknown treatment history		New		Relapse	
	M	F	M	F	M	F	M	F	M	F	M	F
Samtse	11	7	1	1	0	0	0	0	0	1	0	0
MRRH	9	7	0	2	1	0	0	0	6	1	0	0
Sibsoo	1	1	0	0	0	0	0	0	0	0	0	0
Trongsa	6	4	0	0	0	0	0	0	0	0	0	0
Lhuntse	0	2	0	1	0	0	0	0	0	0	0	0
Deothang	4	2	1	1	0	0	0	0	0	0	0	0
Riserboo	1	0	0	0	0	0	0	0	0	0	0	0
Paro	10	7	3	0	0	0	0	0	1	0	0	0
Panbang	1	0	0	0	0	0	0	0	0	0	0	0
JDWNRH	53	57	2	6	0	1	0	0	18	14	0	0
Phuentsholing	34	26	3	4	2	1	0	0	1	0	0	0
Tsimalakha	4	2	0	0	0	0	0	0	0	1	0	0
Sarpang	1	3	0	0	1	0	0	0	0	0	0	0
Dagapela	1	0	0	0	0	0	0	0	1	0	0	0
Nganglam	5	4	0	0	0	0	0	0	0	0	0	0
Trashigang	5	6	0	0	0	0	0	0	0	1	0	0
Samdrup Jongkhar	11	7	0	0	0	0	0	0	3	4	0	3
Bali	2	4	0	0	0	0	0	0	0	0	0	0
Lungtenphu	7	7	2	2	1	0	0	0	0	2	0	0
Bumthang	0	3	0	0	0	0	0	0	0	0	0	0
Gomtu	2	3	1	0	0	0	0	0	0	1	1	0
Damphu	7	4	0	0	0	0	0	0	0	1	0	0
Bajo	8	5	1	0	1	0	0	0	5	0	0	0
Tashiyangtse	10	0	0	0	0	0	0	0	1	0	0	0
Gidakom	0	0	0	1	0	0	0	0	0	0	0	0
Punakha	2	2	1	0	0	0	0	0	0	0	0	0
Lhamoizingkha	1	0	0	0	0	0	0	0	0	0	0	0
Yebilaptsa	0	2	0	0	0	0	0	0	0	0	0	0
Pemagatshel	2	1	0	0	0	0	0	0	1	0	0	0
Gedu	2	2	0	0	1	0	0	0	0	0	0	0
Gelephu	16	18	4	1	0	0	0	0	1	0	0	0
Gasa	0	0	0	0	0	0	0	0	0	0	0	0
Total	**216**	**186**	**19**	**19**	**7**	**2**	**0**	**0**	**38**	**26**	**1**	**3**

Source: Annual Health Bulletin 2018, MoH, Thimphu.

(Numbers)

PCD					EPBC and CD								Total
	Previously treated		Unknown treatment history		New		Relapse		Previously treated		Unknown treatment history		
	M	F	M	F	M	F	M	F	M	F	M	F	
	0	0	0	0	10	7	0	0	0	0	0	0	38
	1	1	0	1	7	7	0	0	0	0	0	0	43
	0	0	0	0	2	1	0	0	0	0	0	0	5
	0	0	0	0	2	2	0	0	0	0	0	0	14
	0	0	0	0	0	2	0	0	0	1	0	0	6
	0	0	0	0	0	0	0	0	0	0	0	0	8
	0	0	0	0	0	2	0	0	0	0	0	0	3
	0	0	0	0	8	6	0	0	0	0	0	0	35
	0	0	0	0	0	1	0	0	0	0	0	0	2
	0	0	0	0	75	72	3	4	1	1	0	0	307
	0	0	0	0	6	18	1	0	0	0	0	0	96
	0	0	0	0	1	2	0	0	0	0	0	0	10
	0	0	0	0	1	0	0	0	0	0	0	0	6
	0	0	0	0	2	0	0	0	0	0	0	0	4
	0	0	0	0	3	5	0	0	0	0	0	0	17
	0	0	0	0	3	4	0	0	0	0	0	0	19
	1	0	0	0	3	0	0	0	0	0	0	0	32
	0	0	0	0	3	3	0	0	0	0	0	0	12
	0	0	0	0	5	10	0	0	0	0	0	0	36
	0	0	0	0	5	3	0	0	0	0	0	0	11
	0	0	0	0	2	0	0	0	0	0	0	0	10
	0	0	0	0	2	0	0	0	0	0	0	0	14
	0	1	0	0	11	11	0	0	0	0	0	0	43
	0	0	0	0	0	1	0	0	0	0	0	0	12
	0	0	0	0	2	2	0	0	0	0	0	0	5
	0	0	0	0	3	2	0	1	0	0	0	0	11
	0	0	0	0	1	0	0	0	0	0	0	0	2
	0	0	0	0	0	0	0	0	0	0	0	0	2
	0	0	0	0	0	1	0	0	0	0	0	0	5
	0	0	0	0	2	3	0	0	0	0	0	0	10
	0	0	0	0	10	13	0	0	0	0	0	0	63
	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	**2**	**0**	**1**	**169**	**178**	**4**	**5**	**1**	**2**	**0**	**0**	**881**

Table 2.17: Types of Water and Sanitation Facility by Dzongkhag, Bhutan, 2017

Dzongkhag	Percentage Coverage					
	Latrine	Household with Functional Piped water	Drainage	Household with Animal Shed	Household with Vegetable Garden	Household with Garbage Pit
Bumthang	99.6	85.3	63.9	77.8	75.1	79.8
Chhukha	94.7	92.9	29.1	80.2	72.0	27.7
Dagana	96.8	99.3	97.5	96.1	89.9	78.2
Gasa	78.6	100.0	90.0	92.0	87.2	64.4
Haa	99.6	98.8	76.8	99.8	98.7	67.1
Lhuentse	96.9	90.2	68.9	81.6	81.1	39.7
Monggar	97.8	98.3	48.6	96.1	75.5	57.7
Paro	89.7	98.2	66.3	95.5	50.7	42.0
Pema Gatshel	99.1	99.0	80.2	91.0	84.0	34.3
Punakha	96.0	97.5	60.0	97.5	61.3	33.4
Samdrup Jongkhar	97.4	98.3	77.0	86.7	69.4	86.7
Samtse	91.0	95.6	88.0	94.1	75.3	61.9
Sarpang	97.9	102.4	64.0	91.8	81.8	72.9
Thimphu	96.4	98.5	59.2	90.1	63.1	30.6
Trashigang	99.4	97.2	45.1	86.9	76.3	48.3
Trashi Yangtse	91.8	98.7	47.6	89.3	49.3	21.5
Trongsa	97.8	96.0	71.8	93.0	72.3	64.3
Tsirang	97.3	98.8	50.4	89.1	81.0	31.2
Wangdue Phodrang	93.3	97.6	63.9	90.7	51.9	48.5
Zhemgang	95.1	85.3	29.1	77.8	74.0	79.8
Bhutan	**95.5**	**97.6**	**66.1**	**90.7**	**71.7**	**48.5**

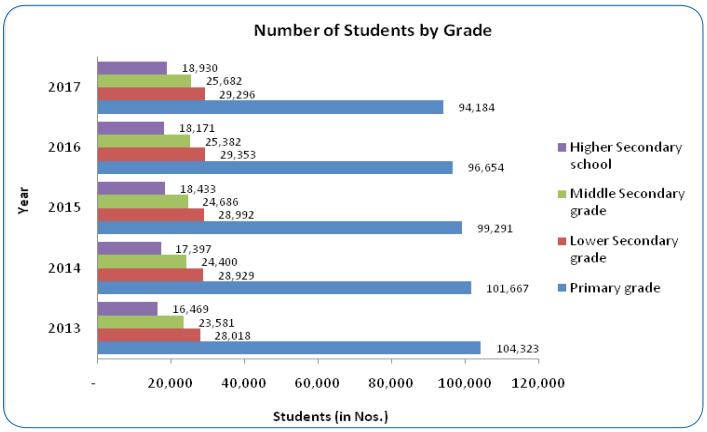
Source: Annual Health Bulletin 2018, MoH, Thimphu.

The comprehensive modern education system in Bhutan was introduced with the initiation of economic development plans in 1961. The monastic form of education however existed and continues even today. There are now extensive network of schools and other educational institutions spread throughout the country.

The school-based education structure in Bhutan comprises of 11 years of free basic education from classes PP to X, divided into 7 years of primary education (PP-VI), which starts at the age of 6, and 4 years of secondary education (VII-X). Beyond the 10th standard students either continue their general education in classes XI and XII in higher secondary schools or join the vocational training institutes or enter the labour market. After completing class XII, graduates either continue their studies at the tertiary level under one of the institutes under the Royal University of Bhutan (RUB) for diploma or bachelor's degree, or enter the job market [1].

The medium of instructions in the schools are Dzongkha (national language) and English. School curricula also include training in traditional arts, crafts, and agriculture. Besides the modern education system, there are large numbers of traditional institutions offering education to children in Monasteries, Drupdras and Shedras. The Ministry of Education has only recently started collecting information for the Shedras, collection of information on private Monasteries and Drupdras has not yet been undertaken.

Non-Formal Education (NFE), which is meant for those individuals who are unable to avail the facilities of the formal education, was first established formally in 1992. Basic literacy skills, reading, writing and numeric skills are likewise strengthened through this system. The Ministry of Education maintains an extensive range of statistics on students, schools and teaching personnel.



Many schools provide boarding facilities for students living in areas far from the school with meals provided through the support of World Food Programme (WFP). The WFP also supports mid-day meals for day scholars who come from distant communities.

Table 3.1: Key Education Indicators by Year, (2013-2017)

(Percent)

Indicators	2013	2014	2015	2016	2017
Gross enrolment Ratio (ECCD)	7.0	9.0	17.0	18.6	21.8
Apparent Intake Rate (AIR)	81.0	88.0	89.0	91.4	92.2
Net Intake Rate (NIR)	48.0	58.0	62.0	63.1	62.7
Net Enrolment Rate (NER) Primary	96.0	95.0	95.2	94.7	94.8
Adjusted NER (ANER) Primary	98.5	98.7	98.8	98.6	98.8
Net Enrolment Rate (NER) Basic	94.0	93.0	97.0	96.2	95.7
Net Enrolment Rate (NER) Secondary (Class VII-X)	86.0	85.0	82.0	...	70.1
Gross Enrolment Ratio (GER) Primary	116.0	113.0	112.0	111.1	109.9
Gross Enrolment Ratio (GER) Basic	106.0	107.0	110.0	109.9	108.8
Gross Enrolment Ratio (GER) Secondary (Class VII-X)	90.0	96.0	105.0	107.9	106.9
Gross Enrolment Ratio (GER) higher Secondary	55.0	58.0	79.0	70.3	76.2
Gross Enrolment Ratio (GER) Tertiary within Bhutan	20.0	24.0	26.4	27.8	27.5
Gross Enrolment Ratio (GER) Tertiary within Bhutan and outside Bhutan	27.0	31.9	36.6	37.3	35.8
Repetition Rate (Primary)	5.5	6.0	6.7	5.7	4.5
Dropout Rate (Primary)	...	0.8	2.1	1.5	1.3
Primary Completion Rate	112.0	109.0	111.0	121.1	107.3
Survival rate to grade VI	79.0	100.0	83.0	89.5	90.8
Survival rate to grade X	60.0	95.0	72.0	76.5	78.1
Transition rate (Primary to Lower secondary)	...	...	92.4	94.6	97.1
Transition rate (Lower Secondary to Middle Secondary)	...	...	87.7	91.4	93.0
Transition rate (Middle Secondary to higher Secondary)	...	...	71.4	72.3	73.6

Source: Annual Education Statistics, MoE

Table 3.2: Number of Schools, Institutes & Centres, Bhutan 2017

School/Institutes/Centres	Government	Private	Total
ECCD Centre[1]	245	62	307
Schools	**479**	**36**	**515**
Primary School	296	14	310
Lower Secondary School	71	1	72
Middle Secondary School	70	2	72
Higher Secondary School	42	19	61
Extended Classroom	90	...	90
Central Schools[2]	60	...	60
Autonomous Schools	22	...	22
Schools with SEN Programme & Special Institutes[3]	14	2	16
Institutes	**25**	**3**	**28**
Tertiary Institutes within Bhutan	15	3	18
Technical Training Institutes	7	...	7
Sanskrit Patshala	1	...	1
Institute of Zorig Chusum	2	...	2
Other Forms of Education	**868**	**8**	**876**
Monastic Education (Lobdra, Shedra, etc)[4]	200	...	200
Continuing Education Centres	...	8	8
Non-Formal Centres	668	...	668

Note: [1]. Private ECCD includes ECCD under NGO, Private & Work place.
[2]. Central Schools already counted under School Education.
[3]. Includes Muenselling and Wangsel Institutes, 12 general schools, and two Draktsho centers.
[4]. Data on private monastic schools not available.

Source: Annual Education Statistics, MoE.

Table 3.3: Number of Students, Learners, Trainees and Novitiates, Bhutan 2017

Details	Government			Private			Total		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Early Childhood Care & Development									
ECCD Centres	2,695	2,738	5,433	887	930	1,817	3,582	3,668	7,250
School Education									
Primary Schools	18,591	18,258	36,849	1,320	1,289	2,609	19,911	19,547	39,458
Lower Secondary Schools	16,372	16,478	32,850	45	24	69	16,417	16,502	32,919
Middle Secondary Schools	23,132	24,055	47,187	576	581	1,157	23,708	24,636	48,344
Higher Secondary Schools	18,375	18,944	37,319	3,877	4,226	8,103	22,252	23,170	45,422
Extended Classroom	1,001	948	1,949	...	...	...	1,001	948	1,949
Continuing Education	...	...	...	336	395	731	336	395	731
Bhutanese students studying abroad [1]	...	...	...	778	739	1,517	778	739	1,517
Central Schools[2]	22,747	23,334	46,081	...	...	...	22,747	23,334	46,081
Schools with SEN Programme & Special Institutes[3]	304	198	502	86	59	145	390	257	647
Tertiary Education									
Tertiary Students within Bhutan	5,584	4,550	10,134	714	628	1,342	6,298	5,178	11,476
Tertiary Students abroad	660	460	1,120	1,315	1,022	2,337	1,975	1,482	3,457
Technical &Vocational Education and Training	1,000	536	1,536	...	...	...	1,000	536	1,536
Other Forms of Education									
Monastic Education (Lobdra, Shredra,etc)[4]	7,240	...	7,240	5,149	...	5,149	12,389	...	12,389
Non-Formal Education Centres	2,195	4,473	6,668	...	...	...	2,195	4,473	6,668
Sanskrit Patshala	...	...	...	3	...	3	3	...	3

Note: [1]. Bhutanese Student studying abroad in class PP-XII based on BLSS 2012.

[2]. Central School students already included under general schools.

[3]. All special needs children enrolled in Muenselling and Wangsel Institutes, 12 general schools, and two Draktsho centers.

Source: Annual Education Statistics, MoE.

Table 3.4: Summary of Teachers, Lecturers, Instructors, Trainers and Facilitators, Bhutan 2017

(Numbers)

Details	Government			Private			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
ECCD Centres	12	426	438	5	229	234	17	655	672
School Education	5,081	3,563	8,644	430	341	771	5,511	3,904	9,415
Primary Schools	1,446	920	2,366	69	130	199	1,515	1,050	2,565
Lower Secondary Schools	891	827	1,718	16	7	23	907	834	1,741
Middle Secondary Schools	1,439	993	2,432	41	49	90	1,480	1,042	2,522
Higher Secondary Schools	1,179	789	1,968	304	155	459	1,483	944	2,427
Extended Classroom	126	34	160	...	...	...	126	34	160
Schools with SEN & Special Institutes[1]	230	251	481	8	9	17	238	260	498
Tertiary Institutes within Bhutan	235	419	654	51	38	89	286	457	743
Technical Training Institutes	119	44	163	...	...	...	119	44	163
Non-Formal Centres	149	417	566	...	...	...	149	417	566

Note: [1] Also includes all teachers who teach special needs children in 12 general schools

Source: Annual Education Statistics, MoE.

Table 3.5: Number of Schools by Type and Dzongkhag, Bhutan, 2017

Dzongkhag	Public					Private				
	Higher Secondary Schools	Middle Secondary Schools	Lower Secondary Schools	Primary Schools	Extended Classrooms	Higher Secondary Schools	Middle Secondary Schools	Lower Secondary Schools	Primary Schools	Extended Classrooms
Bumthang	1	3	2	11	1	1	0	0	0	0
Chhukha	3	6	2	25	6	0	0	0	0	0
Phuentsholing Thromde	1	2	1	0	0	2	0	0	0	0
Dagana	2	3	4	12	4	0	0	0	0	0
Gasa	0	1	1	2	2	0	0	0	0	0
Haa	1	1	2	5	1	1	0	0	0	0
Lhuentse	1	3	2	11	5	0	0	0	0	0
Monggar	3	3	5	33	9	1	0	0	0	0
Paro	3	4	5	7	0	4	0	1	4	0
Pema Gatshel	2	3	3	15	7	0	0	0	0	0
Punakha	2	4	3	9	7	1	0	0	0	0
Samdrup Jongkhar	2	6	1	13	5	0	0	0	0	0
Samdrup Jongkhar Thromde	0	1	0	2	0	1	0	0	1	0
Samtse	3	3	7	20	16	0	0	0	0	0
Sarpang	1	2	6	11	3	1	0	0	0	0
Gelephu Thromde	1	0	1	0	0	1	0	0	0	0
Thimphu	1	2	1	5	2	1	0	0	1	0
Thimphu Thromde	3	5	4	7	0	5	2	0	8	0
Trashigang	4	7	7	33	3	0	0	0	0	0
Trashi Yangtse	1	3	5	19	0	0	0	0	0	0
Trongsa	2	2	1	11	4	0	0	0	0	0
Tsirang	1	1	2	11	3	0	0	0	0	0
Wangdue Phodrang	2	2	1	20	8	0	0	0	0	0
Zhemgang	1	3	2	22	0	0	0	0	0	0
Total	**41**	**70**	**68**	**304**	**86**	**19**	**2**	**1**	**14**	**0**

Source: Annual Education Statistics, MoE.

Table 3.6: Enrolment in Institutions and at Tertiary level, Bhutan (2013-2017)

(Numbers)

Institutions	2013	2014	2015	2016	2017
Royal University of Bhutan	**7,843**	**8,954**	**9,455**	**9,173**	**9,822**
College of Natural Resources, Lobesa	416	538	599	521	660
College of Science and Technology, Rinchending	730	788	865	947	1,002
College of Language and Culutural Studies, Takse	841	1,133	1,281	1,320	1,247
Jigme Namgyel Engineering College, Dewathang	703	737	846	826	861
Paro College of Education, Paro	1,416	1,545	1,473	1,464	1,531
Samtse College of Education	1,173	1,162	1,108	966	1,154
Sherubtse College, Kanglung	1,336	1,719	1,834	1,782	1,843
Gaeddu College of Business Studies	1,228	1,332	1,449	1,347	1,412
Gyalposhing College of Information Technology	...	...	...	...	80
Yonphula College of Advance Studies	...	...	...	...	32
Khesar Gyalpo University of Medical Sciences	**446**	**486**	**...**	**420**	**...**
Royal Institute of Health Sciences, Thimphu	385	422	...	337	...
National Institute of Traditional Medicines, Thimphu	61	64	...	83	...
Reldri Academy of Health Sciences	...	...	...	53	54
Private/Autonomous Institutes	**1,061**	**1,649**	**...**	**1,588**	**92**
Royal Thimphu College (Pvt)	1,061	1,158	...	1,250	...
Norbuling Rigter College	...	...	...	...	92
Royal Institute of Management	...	399	...	338	...
Royal Institute for Tourism and Hospitality	...	92	...	...	...
Jigme Singye Wangchuk School of Law	...	...	...	...	25
Vocational Institutes	**1,102**	**1,311**	**2,209**	**1,487**	**1,307**
TTI-Chumey	164	151	163	163	177
TTI Khuruthang	98	260	353	218	226
TTI- Rangjung	234	180	214	200	174
TTI- Samthang	66	165	793	173	129
TTI- Dekiling, Sarpang	94	137	183	182	56
TTI-Thimphu	51	22	50	57	73
Zorig Chusum, Thimphu	223	243	285	319	308
Zorig Chusum, Trashiyangtse	172	153	168	175	164

Source: Annual Education Statistics 2017, MoE and RUB.

Table 3.7: Comparative Enrolment by Grade and Schools, (2016-2017)

Class	Private Schools				Extended Classroom				Primary School			
	2016	2017	+ or -	%	2016	2017	+ or -	%	2016	2017	+ or -	
PP	1,088	973	(115)	-10.6	631	567	(64)	-10.1	5,646	5,335	(311)	
I	865	765	(100)	-11.6	530	529	(1)	-0.2	5,532	5,243	(289)	
II	649	643	(6)	-0.9	515	462	(53)	-10.3	5,578	5,306	(272)	
III	452	533	81	17.9	378	371	(7)	-1.9	5,198	5,053	(145)	
IV	316	346	30	9.5	2	20	18	0.0	6,134	5,344	(790)	
V	317	295	(22)	-6.9	...	...	...	0.0	6,255	5,238	(1,017)	
VI	278	302	24	8.6	...	...	...	0.0	5,502	5,330	(172)	
Sub Total	**3,965**	**3,857**	**(108)**	**-2.7**	**2,056**	**1,949**	**(107)**	**-5.2**	**39,845**	**36,849**	**(2,996)**	
VII	148	118	(30)	-20.3	...	...	...	...	...	...	...	
VIII	139	160	21	15.1	...	...	...	...	...	...	...	
Sub Total	**287**	**278**	**(9)**	**-3.1**	**...**	**...**	**...**	**...**	**...**	**...**	**...**	
IX	160	165	5	3.1	...	...	...	...	...	...	...	
X	202	233	31	15.3	...	...	...	...	...	...	...	
Sub Total	**362**	**398**	**36**	**9.9**	**...**	**...**	**...**	**...**	**...**	**...**	**...**	
XI	2,504	2,940	436	17.4	...	...	...	...	...	...	...	
XII	4,325	4,465	140	3.2	...	...	...	...	...	...	...	
Sub Total	**6,829**	**7,405**	**576**	**8.4**	**...**	**...**	**...**	**...**	**...**	**...**	**...**	
VII-X	649	676	27	4.2	...	...	...	...	...	...	...	
Total	**11,443**	**11,938**	**495**	**4.3**	**2,056**	**1,949**	**(107)**	**-5.2**	**39,845**	**36,849**	**(2,996)**	

Source: Annual Education Statistics 2017, MoE

ol		Lower & Middle Secondary				Higher Secondary Schools				Total			
	%	2016	2017	+ or -	%	2016	2017	+ or -	%	2016	2017	+ or -	%
	-5.5	5,194	5,412	218	4.2	1,006	962	(44)	-4.4	13,565	13,249	(316)	-2.3
	-5.2	5,626	5,678	52	0.9	1,092	1,175	83	7.6	13,645	13,390	(255)	-1.9
	-4.9	5,555	6,052	497	8.9	1,007	1,233	226	22.4	13,304	13,696	392	2.9
	-2.8	5,198	5,769	571	11.0	924	1,086	162	17.5	12,150	12,812	662	5.4
	-12.9	6,765	6,382	(383)	-5.7	1,294	1,220	(74)	-5.7	14,511	13,312	(1199)	-8.3
	-16.3	7,163	6,728	(435)	-6.1	1,336	1,341	5	0.4	15,071	13,602	(1469)	-9.7
	-3.1	7,257	6,992	(265)	-3.7	1,371	1,499	128	9.3	14,408	14,123	(285)	-2.0
	-7.5	**42,758**	**43,013**	**255**	**0.6**	**8,030**	**8,516**	**486**	**6.1**	**96,654**	**94,184**	**(2,470)**	**-2.6**
	...	12,650	12,212	(438)	-3.5	2,692	2,968	276	10.3	15,490	15,298	(192)	-1.2
	...	11,296	11,229	(67)	-0.6	2,428	2,609	181	7.5	13,863	13,998	135	1.0
	...	**23,946**	**23,441**	**(505)**	**-2.1**	**5,120**	**5,577**	**457**	**8.9**	**29,353**	**29,296**	**(57)**	**-0.2**
	...	7,253	7,344	91	1.3	5,976	6,115	139	2.3	13,389	13,624	235	1.8
	...	6,078	6,239	161	2.6	5,713	5,586	(127)	-2.2	11,993	12,058	65	0.5
	...	**13,331**	**13,583**	**252**	**1.9**	**11,689**	**11,701**	**12**	**0.1**	**25,382**	**25,682**	**300**	**1.2**
	...	...	...	...	...	5,582	5,979	397	7.1	8,086	8,919	833	10.3
	...	...	...	...	...	5,760	5,546	(214)	-3.7	10,085	10,011	(74)	-0.7
	...	**...**	**...**	**...**	**...**	**11,342**	**11,525**	**183**	**1.6**	**18,171**	**18,930**	**759**	**4.2**
	...	37,277	37,024	(253)	-0.7	16,809	17,278	469	2.8	54,735	54,978	243	0.4
	-7.5	**80,035**	**80,037**	**2**	**0.0**	**36,181**	**37,319**	**1,138**	**3.1**	**169,560**	**168,092**	**(1,468)**	**-0.9**

Table 3.8: Number of Students by Grade, Bhutan (2013-2017)

(Numbers)

Grade	2013	2014	2015	2016	2017
Primary grade	**104,323**	**101,667**	**99,291**	**96,654**	**94,184**
PP	12,433	13,175	13,882	13,565	13,249
I	13,349	12,486	13,218	13,645	13,390
II	15,537	13,516	12,615	13,304	13,696
III	15,880	15,102	13,148	12,150	12,812
IV	17,096	16,785	16,192	14,511	13,312
V	15,506	16,015	15,669	15,071	13,602
VI	14,522	14,588	14,567	14,408	14,123
Lower Secondary grade	**28,018**	**28,929**	**28,992**	**29,353**	**29,296**
VII	14,973	15,186	15,392	15,490	15,298
VIII	13,045	13,743	13,600	13,863	13,998
Middle Secondary grade	**23,581**	**24,400**	**24,686**	**25,382**	**25,682**
IX	12,816	12,543	13,347	13,389	13,624
X	10,765	11,857	11,339	11,993	12,058
Higher Secondary school	**16,469**	**17,397**	**18,433**	**18,171**	**18,930**
XI	7,870	8,118	8,697	8,086	8,919
XII	8,599	9,279	9,736	10,085	10,011
Total	**172,391**	**172,393**	**171,402**	**169,560**	**168,092**

Source: Annual Education Statistics, MoE.

The economy of Bhutan is characterized by the predominance of people engaged in self-employment, particularly those working on their own land. There is also a good deal of small cottage industry often undertaken in the home. The number of person working for wages is relatively small.

Statistics on human resources are designed to measure the involvement of people in economic activities. Economic activities refer to the production of economic goods and services and include people who are self-employed (e.g. farmers operating their own land) as well as persons who work for wages (i.e. employees). Broadly, a statistical system for human resources should cover topics such as size and characteristics of the labour force, employment, wage rate and conditions of work.

The National Statistics Bureau (NSB) conducted two consecutive Labour Force Surveys in 1998 and 2000. At present the Labour Market Information and Research Division (LMIRD) of the Department of Employment (DoE) under the Ministry of Labour and Human Resources (MoLHR) is conducting the Labour Force Surveys. Labour statistics presented in this chapter are mostly from Labour Force Survey (LFS) Report 2016 and Civil Service Statistics, December 2017, published by the Royal Civil Service Commission (RCSC).

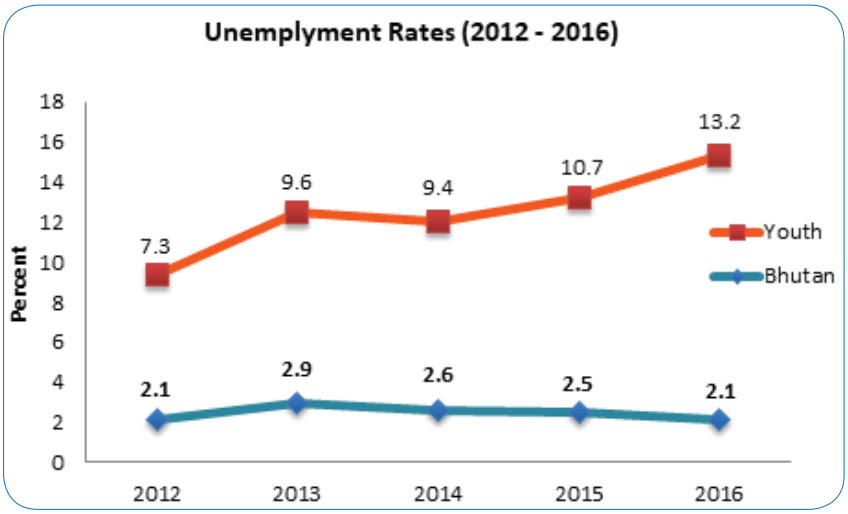


Table 4.1: Civil Servants by Position Category and Employment Type, Bhutan, (2013-2017)

Position Category & Position Level	2013			2014	
	Regular	Contract	Total	Regular	Contract
Executive Position Category					
No Level [1]	5	0	5	10	…
EX1	27	0	27	27	…
EX2	37	1	38	45	1
EX3	82	0	82	74	1
Total	151	1	152	156	2
Specialist Position Category					
ES1	3	0	3	1	…
ES2	11	1	12	22	1
ES3	73	1	74	71	1
Total	87	2	89	94	2
Professional & Management Position Category					
P1	413	7	420	531	9
P2	976	12	988	1,197	18
P3	1,825	69	1,894	2,017	71
P4	3,411	235	3,646	4,299	240
P5	5,583	188	5,771	5,088	187
Total	12,208	511	12,719	13,132	525
Supervisory &Support Position Category					
SS1	…	…	…	…	…
SS2	…	…	…	…	…
SS3	…	…	…	…	…
SS4	…	…	…	…	…
S1	2,117	37	2,154	2,258	43
S2	2,367	16	2,383	2,391	21
S3	1,653	6	1,659	1,684	7
S4	1,756	42	1,798	2,025	32
S5	1,885	214	2,099	1,517	240
Total	9,778	315	10,093	9,875	343
Operational Positon Category					
O1	723	2	725	723	4
O2	442	33	475	430	34
O3	349	0	349	389	…
O4	650	54	704	559	52
Total	2,164	89	2,253	2,101	90
Grand Total	**24,388**	**918**	**25,306**	**25,358**	**962**

Note: [1] Eminent members of the Parliament and Attorney General.
Source: Civil Service Statistics, December 2017, RCSC.

	2015			2016			2017		
Total	Regular	Contract	Total	Regular	Contract	Total	Regular	Contract	Total
10	5	...	5	3	...	3	3	...	3
27	28	...	28	25	...	25	25	...	25
46	48	2	50	47	2	49	58	1	59
75	62	2	64	62	2	64	68	4	72
158	143	4	147	137	4	141	154	5	159
1	2	...	2	3	...	3	5	1	6
23	26	1	27	32	2	34	36	1	37
72	74	1	75	69	1	70	72	1	73
96	102	2	104	104	3	107	113	3	116
540	658	10	668	850	16	866	944	18	962
1,215	1,326	19	1,345	1,560	25	1,585	1,720	29	1,749
2,088	2,214	71	2,285	2,737	96	2,833	3,202	74	3,276
4,539	4,746	225	4,971	3,990	211	4,201	3,853	116	3,969
5,275	4,724	163	4,887	2,925	680	3,605	2,617	821	3,438
13,657	13,668	488	14,156	12,062	1,028	13,090	12,336	1,058	13,394
...	...	...	...	2	...	2	26	...	26
...	...	...	...	187	2	189	272	2	274
...	...	...	...	815	...	815	858	...	858
...	...	...	...	1,229	19	1,248	1,355	15	1,370
2,301	2,428	242	2,670	2,417	42	2,459	2,561	44	2,605
2,412	2,222	23	2,245	2,082	258	2,340	2,057	44	2,101
1,691	1,772	7	1,779	1,838	8	1,846	1,943	12	1,955
2,057	2,030	31	2,061	1,710	37	1,747	1,488	32	1,520
1,757	1,150	207	1,357	745	270	1,015	670	790	1,460
10,218	9,602	510	10,112	11,025	636	11,661	11,230	939	12,169
727	720	4	724	793	5	798	846	5	851
464	402	35	437	319	82	401	286	129	415
389	395	...	395	412	1	413	419	2	421
611	485	51	536	309	109	418	186	359	545
2,191	2,002	90	2,092	1,833	197	2,030	1,737	495	2,232
26,320	**25,517**	**1,094**	**26,611**	**25,161**	**1,868**	**27,029**	**25,570**	**2,500**	**28,070**

Table 4.2: Civil Servants by Working Agency and Employment Type, Bhutan, 2017

Working Agency	Regular		
	Bhutanese	Non-Bhutanese	
His Majesty's Secretariat	41		
Secretariat of His Majesty The Fourth Druk Gyalpo	13		
Judiciary			
Royal Court of Justice	449		
Supreme Court of Bhutan	2		
Legislative			
National Assembly Secretariat	48		
National Council Secretariat	39		
Constitutional			
Royal Audit Authority	238		
Anti-Corruption Commission	99		
Royal Civil Service Commission	85		
Ministry			
Ministry of Agriculture and Forests	2,868	1	
Ministry of Health	1,194	1	
Ministry of Finance	871		
Ministry of Works & Human Settlement	653	1	
Ministry of Home & Cultural Affairs	540		
Ministry of Information & Communications	458		
Ministry of Economic Affairs	483		
Ministry of Labour & Human Resources	357		
Ministry of Education	229		
Ministry of Foreign Affairs	187	2	
Agency			
Jigme Dorji Wangchuk National Referral Hospital	992		
National Land Commission	222		
National Center for Hydrology and Meteorology	171		
Tourism Council of Bhutan	77		
Dratshang Lhentshog	48		
Gross National Happiness Commission	66		
Royal Institute of Management	61		
Office of the Attorney General	59		
Bhutan Standards Bureau	54		
National Environment Commission	52		
Bhutan Narcotic Control Authority	26		
Royal Education Council	41		
Cabinet Secretariat	43		

		Contract			Grand Total	% Against Grand Total
	Total	Bhutanese	Non-Bhutanese	Total		
	41	27		27	68	0.24%
	13	16		16	29	0.10%
	449	16		16	465	1.66%
	2				2	0.01%
	48	37		37	85	0.30%
	39	22		22	61	0.22%
	238	11		11	249	0.89%
	99	7		7	106	0.38%
	85	3		3	88	0.31%
	2,869	46		46	2,915	10.38%
	1,195	39	11	50	1,245	4.44%
	871	34	1	35	906	3.23%
	654	9	3	12	666	2.37%
	540	11		11	551	1.96%
	458	30	1	31	489	1.74%
	483	2		2	485	1.73%
	357	11		11	368	1.31%
	229	14	3	17	246	0.88%
	189	7		7	196	0.70%
	992	48	8	56	1,048	3.73%
	222	12		12	234	0.83%
	171		1	1	172	0.61%
	77	2		2	79	0.28%
	48	28		28	76	0.27%
	66				66	0.24%
	61	2		2	63	0.22%
	59	1		1	60	0.21%
	54				54	0.19%
	52	1		1	53	0.19%
	26	26		26	52	0.19%
	41	8		8	49	0.17%
	43	2		2	45	0.16%

cont...

Table 4.2 cont...

Working Agency	Regular		
	Bhutanese	Non-Bhutanese	
National Statistics Bureau	39		
Bhutan Council for School Examinations and Assessment	37		
Bhutan Information Communications & Media Authority	30		
Drug Regulatory Authority	30		
Dzongkha Development Commission	30		
Centre for Bhutan Studies and GNH Research	24		
Construction Development Board	25		
National Commission for Women & Children	21		
Bhutan Olympic Committee	19		
Bhutan National Legal Institute	17		
Royal Privy Council	11		
Bhutan Medical Health Council	10		
Bhutan Health Trust Fund	7		
Civil Society Organization Authority	4		
Dzongkhag			
Trashigang	1,222		
Samtse	1,090	1	
Chhukha	877	1	
Mongar	776		
Paro	878		
Wangdue Phodrang	760		
Dagana	637		
Samdrup Jongkhar	636		
Sarpang	697		
Pemagatsel	596		
Punakha	677		
Zhemgang	539		
Trashiyangtse	518		
Tsirang	543		
Lhuentse	441		
Bumthang	462		
Trongsa	408		
Thimphu	408		
Haa	339		
Gasa	162		
Thromde			
Thimphu	1,177		
Phuentsholing	285		

	Contract			Grand Total	% Against Grand Total
Total	Bhutanese	Non-Bhutanese	Total		
39				39	0.14%
37				37	0.13%
30	1		1	31	0.11%
30	1		1	31	0.11%
30				30	0.11%
24	4		4	28	0.10%
25	1		1	26	0.09%
21	1		1	22	0.08%
19				19	0.07%
17	1		1	18	0.06%
11				11	0.04%
10				10	0.04%
7				7	0.02%
4				4	0.01%
1,222	185	9	194	1,416	5.04%
1,091	124	31	155	1,246	4.44%
878	147	13	160	1,038	3.70%
776	186	5	191	967	3.44%
878	40	7	47	925	3.30%
760	40	2	42	802	2.86%
637	133	2	135	772	2.75%
636	123	9	132	768	2.74%
697	61	9	70	767	2.73%
596	127	2	129	725	2.58%
677	29	8	37	714	2.54%
539	132	1	133	672	2.39%
518	99	1	100	618	2.20%
543	60	1	61	604	2.15%
441	83		83	524	1.87%
462	47		47	509	1.81%
408	67	1	68	476	1.70%
408	38	4	42	450	1.60%
339	50	1	51	390	1.39%
162	20		20	182	0.65%
					0.00%
1,177	22	20	42	1,219	4.34%
285	10	20	30	315	1.12%

cont...

Table 4.2 cont...

Working Agency	Regular		
	Bhutanese	Non-Bhutanese	
Gelephu	208		
Samdrup Jongkhar	141		
Non-civil service agency			
Defence1	9		
Non Governemental Organizations	3		
Corporations	2		
International Organizations	1		
Government Agency Outside Civil Service	1		
Total	**25,563**	**7**	

Note: [1]Finance and Accounts staff placed in RBG/RBA/RBP
Source: Civil Service Statistics, December 2017, RCSC.

		Contract			Grand Total	% Against Grand Total
	Total	Bhutanese	Non-Bhutanese	Total		
	208	8	5	13	221	0.79%
	141	6	3	9	150	0.53%
	9				9	0.03%
	3				3	0.01%
	2				2	0.01%
	1				1	0.00%
	1				1	0.00%
	25,570	**2,318**	**182**	**2,500**	**28,070**	**100.00%**

Table 4.3: Civil Servants by Position Level and Sex, Bhutan, 2017

Position Category	Regular					
	Bhutanese			Non-Bhutanese		
	Male	Female	Total	Male	Female	Total
Executive Position Category						
No Level [1]	2	1	3	0	0	0
EX1	25		25	0	0	0
EX2	55	3	58	0	0	0
EX3	58	10	68	0	0	0
Total	140	14	154	0	0	0
Specialist Position Category .						
ES1	4	1	5	0	0	0
ES2	31	5	36	0	0	0
ES3	60	12	72	0	0	0
Total	95	18	113	0	0	0
Professional & Management Position Category						
P1	700	244	944	0	0	0
P2	1,208	512	1,720	0	0	0
P3	1,967	1,235	3,202	0	0	0
P4	2,424	1,429	3,853	0	0	0
P5	1,538	1,079	2,617	0	0	0
Total	7,837	4,499	12,336	0	0	0
Supervisory & Support Position Category						
SS1	15	11	26	0	0	0
SS2	184	88	272	0	0’	0
SS3	667	190	857	0	1	1
SS4	923	431	1,354	1	0	1
S1	1,583	976	2,559	0	2	2
S2	1,238	819	2,057	0	0	0
S3	1,099	843	1,942	1	0	1
S4	728	758	1,486	2	0	2
S5	360	310	670	0	0	0
Total	6,797	4,426	11,223	4	3	7
Operational Position Category						
O1	709	137	846	0	0	0
O2	219	67	286	0	0	0
O3	363	56	419	0	0	0
O4	174	12	186	0	0	0
Total	1,465	272	1,737	0	0	0
Grand Total	**16,334**	**9,229**	**25,563**	**4**	**3**	**7**

Note: [1] Eminent members of the Parliament & Attorney General are summed up with Executive Position Category.
Source: Civil Service Statistics, December 2017, RCSC.

	Total Regular	Contract						Total Contract	Total Male	Total Female	Grand Total
		Bhutanese			Non-Bhutanese						
		Male	Female	Total	Male	Female	Total				
	3	0	0	0	0	0	0	0	2	1	3
	25	0	0	0	0	0	0	0	25	0	25
	58	1	0	1	0	0	0	1	56	3	59
	68	4	0	4	0	0	0	4	62	10	72
	154	5	0	5	0	0	0	5	145	14	159
	5	1	0	1	0	0	0	1	5	1	6
	36	1	0	1	0	0	0	1	32	5	37
	72	1	0	1	0	0	0	1	61	12	73
	113	3	0	3	0	0	0	3	98	18	116
	944	11	1	12	5	1	6	18	716	246	962
	1,720	9	2	11	10	8	18	29	1,227	522	1,749
	3,202	7	4	11	50	13	63	74	2,024	1,252	3,276
	3,853	24	29	53	40	23	63	116	2,488	1,481	3,969
	2,617	441	358	799	9	13	22	821	1,988	1,450	3,438
	12,336	492	394	886	114	58	172	1,058	8,443	4,951	13,394
	26	0	0	0	0	0	0	0	15	11	26
	272	2	0	2	0	0	0	2	186	88	274
	858	0	0	0	0	0	0	0	667	191	858
	1,355	11	3	14	0	1	1	15	935	435	1,370
	2,561	29	11	40	1	3	4	44	1,613	992	2,605
	2,057	29	15	44	0	0	0	44	1,267	834	2,101
	1,943	6	5	11	1	0	1	12	1,107	848	1,955
	1,488	25	6	31	0	1	1	32	755	765	1,520
	670	396	394	790	0	0	0	790	756	704	1,460
	11,230	498	434	932	2	5	7	939	7,301	4,868	12,169
	846	4	0	4	1	0	1	5	714	137	851
	286	49	80	129	0	0	0	129	268	147	415
	419	2	0	2	0	0	0	2	365	56	421
	186	335	0	357	2	0	2	359	511	34	545
	1,737	390	80	492	3	0	3	495	1,858	374	2,232
	25,570	**1,388**	**908**	**2,318**	**119**	**63**	**182**	**2,500**	**17,845**	**10,225**	**28,070**

Table 4.4: Percentage Distribution of Economically Active Population by Dzongkhag and Sex, Bhutan, 2016

Dzongkhag	Male	Female	Total
Bumthang	51.7	48.3	100.0
Chhukha	63.8	36.2	100.0
Dagana	49.6	50.4	100.0
Gasa	51.9	48.0	99.9
Haa	57.6	42.4	100.0
Lhuntse	49.9	50.1	100.0
Monggar	51.1	48.9	100.0
Paro	64.0	36.0	100.0
Pema Gatshel	49.7	50.3	100.0
Punakha	50.5	49.5	100.0
Samdrup Jongkhar	55.9	44.1	100.0
Samtse	54.8	45.2	100.0
Sarpang	57.5	42.5	100.0
Thimphu	60.2	39.8	100.0
Trashigang	54.0	46.0	100.0
Trashi Yangtse	52.7	47.3	100.0
Trongsa	48.6	51.4	100.0
Tsirang	56.2	43.8	100.0
Wangdue Phodrang	43.2	56.8	100.0
Zhemgang	49.2	50.8	100.0
Total	**54.9**	**45.1**	**100.0**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.5: Percentage Distribution of Employed Persons by Major Occupation and Sex, Bhutan, 2016

Major Occupation	Male	Female	Total
Legislators, Senior Officials & Managers	2.3	0.8	3.1
Professionals	4.5	2.3	6.8
Technicians & Associate Professionals	2.5	1.1	3.6
Clerical Support Workers	0.9	0.9	1.8
Services and Sales workers	5.9	6.2	12.1
Skilled Agricultural & Forestry workers	26.7	30.4	57.1
Craft & Related Trade Workers	3.1	2.1	5.2
Plant & Machine Operators and Assemblers	4.2	0.1	4.3
Elementary Occupations	1.2	1.0	2.2
Armed Forces	3.6	0.2	3.8
Total	**54.9**	**45.1**	**100.0**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.6: Percentage Distribution of Employed Persons by Nature of Employment and Sex, Bhutan, 2016

Nature of Employment	Male	Female	Total
Regular paid employee	17.4	6.6	24.0
Casual paid employee	1.4	0.3	1.7
Contract/Piece paid worker	1.5	0.2	1.7
Own-account worker (Non agriculture)	7.2	6.0	13.2
Own-account worker (Agriculture)	16.3	10.2	26.5
Family worker (Non-agriculture)	0.9	1.6	2.5
Family worker (Agriculture)	10.3	20.1	30.4
Employer	0.0	0.0	0.0
Don't know	0.0	0.0	0.0
Total	**55.0**	**45.0**	**100.0**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.7: Percentage Distribution of Labour Force Participation, Employment Status by Age Group and Sex, Bhutan, 2016

Age	Labour Force participation rate			Unemployment rate			Employment rate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	3.3	7.0	5.3	16.6	17.4	17.1	83.4	82.7	82.9
20-24	55.2	55.0	55.1	16.4	10.0	12.7	83.6	90.0	87.3
25-29	89.6	66.2	76.9	3.9	4.9	4.4	96.1	95.1	95.6
30-34	94.8	69.6	81.5	0.6	0.2	0.4	99.4	99.8	99.6
35-39	96.2	69.8	82.1	0.0	0.1	0.1	100.0	99.9	99.9
40-44	98.2	71.9	84.3	0.0	0.1	0.0	100.0	99.9	100.0
45-49	97.2	73.4	85.6	0.5	0.0	0.3	99.5	100.0	99.7
50-54	90.4	71.9	80.7	0.0	0.1	0.0	100.0	99.9	100.0
55-59	84.7	62.6	74.5	0.2	0.0	0.1	99.8	100.0	99.9
60-64	75.1	50.7	63.9	0.0	0.0	0.0	100.0	100.0	100.0
65+	37.4	14.2	25.8	0.0	0.0	0.0	100.0	100.0	100.0
Total	**71.7**	**55.9**	**62.2**	**2.0**	**2.3**	**2.1**	**98.2**	**97.7**	**97.9**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.8: Number of Persons Employed by Age Group,Type of Enterprise & Sex, Bhutan, 2016

Age	Civil Service		Other Government Agencies		Public/ Government Companies		Private Companies		
	Male	Female	Male	Female	Male	Female	Male	Female	Male
15-19	0	0	3	0	4	0	8	71	0
20-24	296	749	80	308	1,416	1,154	851	363	144
25-29	3,358	3,174	1,424	910	2,433	1,267	1,760	950	934
30-34	2,602	2,907	2,217	356	3,120	739	1,880	210	3,128
35-39	2,074	1,258	1,751	196	2,379	378	1,136	128	3,069
40-44	1,586	608	1,929	422	1,408	297	1,151	30	2,288
45-49	1,230	457	1,596	171	1,445	10	986	63	2,086
50-54	667	186	740	20	751	3	676	31	528
55-59	231	230	442	0	536	0	554	0	247
60-64	37	0	144	0	79	0	275	26	107
65+	48	0	3	4	0	0	34	0	41
Total	**12,129**	**9,569**	**10,329**	**2,387**	**13,571**	**3,848**	**9,311**	**1,872**	**12,572**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.9: Total Employed Persons by Age Group and Level of Education, Bhutan, 2016

Age	No formal education	Nursery	Primary	Lower Secondary	Middle Secondary	Higher Secondary
15-19	1,393		450	516	402	195
20-24	7,282		2,725	3,300	5,458	6,673
25-29	14,668		5,082	3,571	7,402	10,354
30-34	21,766		5,164	3,765	6,575	6,106
35-39	26,625		5,435	3,408	5,392	2,148
40-44	27,212		5,137	1,480	1,735	1,240
45-49	28,400		4,265	1,820	1,490	612
50-54	23,670		1,618	841	883	580
55-59	17,423		1,339	634	729	163
60-64	16,207		688	282	177	79
65+	12,188		232	231	74	0
Total	**196,834**		**32,135**	**19,848**	**30,317**	**28,150**

Source: Labour Force Survey Report 2016, MoLHR.

	Armed Forces	Private Business		Agri. Farming		NGO/INGO		Total		Grand total
	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	4	169	723	794	1,528	0	0	978	2,326	3,304
	122	2,630	4,055	5,797	10,189	171	83	11,385	17,023	28,408
	194	7,035	6,324	9,907	10,544	17	58	26,868	23,421	50,289
	106	5,409	5,270	9,793	13,447	13	151	28,162	23,186	51,348
	43	5,504	4,633	10,980	15,676	66	59	26,959	22,371	49,330
	53	4,583	3,526	9,339	13,341	81	87	22,365	18,364	40,729
	24	4,319	3,548	11,554	12,685	99	0	23,315	16,958	40,273
	117	2,490	1,448	9,867	11,820	0	17	15,719	13,642	29,361
	0	2,624	1,007	8,542	7,188	50	0	13,226	8,425	21,651
	0	2,276	948	8,917	5,858	8	0	11,843	6,832	18,675
	0	2,068	637	7,805	3,118	0	0	9,999	3,759	13,758
	663	**39,107**	**32,119**	**93,295**	**105,394**	**505**	**455**	**190,819**	**156,307**	**347,126**

Level of Education						Total
	Bachelors Degree	Masters & Above	NFE	Religious Professionals	Don't know	
	0	0	307	41	0	3,304
	496	0	1,879	594	0	28,408
	6,071	52	2,099	987	3	50,290
	4,317	287	2,769	599	0	51,348
	2,116	616	2,547	1,041	0	49,329
	1,115	355	1,761	697	0	40,730
	1,169	176	1,488	855	0	40,275
	579	240	392	560	0	29,361
	450	139	264	511	0	21,651
	283	0	415	543	0	18,675
	41	41	164	789	0	13,759
	16,637	**1,906**	**14,085**	**7,217**	**3**	**347,130**

Table 4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2016

Dzongkhag	No formal education	Primary	Lower Secondary	Middle Secondary	
Bumthang	3,269	640	555	1,003	
Chukha	19,071	3,979	2,165	4,126	
Dagana	8,919	2,256	818	1,674	
Gasa	1,460	113	99	53	
Haa	6,770	508	463	514	
Lhuntse	3,470	531	257	435	
Mongar	12,711	1,686	344	718	
Paro	9,108	562	885	1,918	
Pemagatshel	10,815	911	467	722	
Punakha	11,165	1,879	764	1,450	
Samdrup Jongkhar	12,831	907	1,024	1,712	
Samtse	21,704	3,258	2,453	2,153	
Sarpang	8,874	4,018	2,291	2,618	
Thimphu	12,447	3,524	3,253	6,395	
Tashigang	10,775	1,362	1,218	856	
Tashiyangtse	6,185	428	438	356	
Trongsa	5,718	512	232	907	
Tsirang	4,973	2,512	704	778	
Wangdue	17,803	1,906	1,156	1,439	
Zhemgang	8,765	642	261	491	
Total	**196,833**	**32,134**	**19,847**	**30,318**	

Source: Labour Force Survey Report 2016, MoLHR.

Level of Education							Total
	Higher Secondary	Bachelors Degree	Masters & Above	NFE	Religious Professionals	Don't know	
	888	193	15	293	239	0	7,095
	3,159	1,638	101	683	280	0	35,202
	1,978	337	0	616	0	0	16,598
	115	2	0	32	164	0	2,038
	340	564	4	66	144	0	9,373
	373	92	10	1,101	548	0	6,817
	904	520	128	2,842	588	0	20,441
	1,415	1,191	16	11	907	0	16,013
	597	47	0	292	486	0	14,337
	1,078	181	27	577	531	0	17,652
	1,038	381	68	90	358	0	18,409
	1,551	687	164	2,309	0	0	34,279
	1,907	2,618	295	675	153	0	23,449
	8,527	7,155	839	909	1,387	0	44,436
	1,255	221	156	1,536	262	0	17,641
	381	195	8	237	69	0	8,297
	1,199	237	23	781	215	3	9,827
	171	37	12	242	0	0	9,429
	1,049	240	40	580	737	0	24,950
	225	100	0	213	150	0	10,847
	28,150	**16,636**	**1,906**	**14,085**	**7,218**	**3**	**347,130**

Table 4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan, 2016

Major Economic Activity	Regular paid employee	Casual paid employee	Contract/ piece paid worker	
Agriculture and Forestry	323	228	296	
Mining and Quarrying	1,054	21	0	
Manufacturing	8,963	965	589	
Electricity and Gas Supply	4,371	4	91	
Water supply, Swerage, Waste Management	90	0	0	
Construction	3,263	998	2,356	
Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	2,177	308	166	
Transport and Storage	3,362	491	305	
Accomodation and Food Service Activities	4,475	156	7	
Information and Communication	1,860	198	0	
Financial and Insurance Activities	3,266	0	49	
Real Estate Activities	85	0	0	
Professional, Sentific and Technical	449	0	118	
Administrative and Support Service Activities	2,352	850	218	
Public Administration & Defense	29,627	574	689	
Education	11,250	107	711	
Human Health & Social Work	4,395	0	255	
Arts, Entertainment and Recreation	755	467	0	
Other Service Activities	574	321	31	
Activities of Household as Employers	459	0	3	
Activities of Extraterritorial Organization	149	0	0	
Total	**83,299**	**5,688**	**5,884**	

Source: Labour Force Survey Report 2016, MoLHR.

Nature of Employment							Total
	Own-account workers (Non-agriculture)	Own-account workers (Agriculture)	Family workers (Non-agriculture)	Family workers (Agriculture)	Employer	Don't know	
	0	91,916	0	105,666	0	0	198,429
	73	0	0	0	0	0	1,148
	7,795	0	1,518	0	4	0	19,834
	0	0	0	0	0	0	4,466
	0	0	0	0	0	0	90
	2,064	0	391	0	34	0	9,106
	19,333	0	4,657	0	18	0	26,659
	6,698	0	245	0	0	0	11,101
	3,307	0	1,196	0	23	0	9,164
	103	0	0	0	34	0	2,195
	0	0	0	0	0	0	3,315
	1,874	0	20	0	0	0	1,979
	59	0	0	0	0	0	626
	382	0	103	0	41	0	3,946
	87	0	0	0	0	50	31,027
	50	0	0	0	0	0	12,118
	0	0	0	0	0	0	4,650
	308	0	18	0	0	0	1,548
	3,728	0	464	0	0	0	5,118
	0	0	3	0	0	0	465
	0	0	0	0	0	0	149
	45,861	**91,916**	**8,615**	**105,666**	**154**	**50**	**347,133**

Table 4.12: Employed Persons who looked for additional work by Dzongkhag, Sex and Area of Residence, Bhutan, 2016

Dzongkhag	Urban			Rural			Bhutan		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Bumthang	77	139	216	31	123	154	46	15	61
Chhukha	...	...	...	...	...	...	...	...	...
Dagana	...	...	...	...	...	...	...	...	...
Gasa	294	97	391	292	97	389	2	0	2
Haa	...	...	...	...	...	...	...	...	...
Lhuntse	83	195	278	76	190	266	7	5	12
Monggar	265	304	569	255	255	510	10	49	59
Paro	132	117	249	111	111	222	21	5	26
Pema Gatshel	97	97	194	97	97	194	0	0	0
Punakha	133	0	133	113	0	113	20	0	20
Samdrup Jongkhar	103	0	103	90	0	90	14	0	14
Samtse	164	164	328	164	164	328	0	0	0
Sarpang	234	0	234	234	0	234	0	0	0
Thimphu	41	0	41	41	0	41	0	0	0
Trashigang	125	0	125	125	0	125	0	0	0
Trashi Yangtse	300	0	300	296	0	296	4	0	4
Trongsa	54	3	57	52	0	52	3	3	6
Tsirang	242	0	242	242	0	242	13	13	26
Wangdue Phodrang	443	13	457	430	0	430	14	10	24
Zhemgang	14	10	24	0	0	0	0	0	0
Total	**2,801**	**1,139**	**3,941**	**2,649**	**1,037**	**3,686**	**154**	**100**	**254**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.13: Employed persons who worked per week by hours and by Major Economic Activity, Bhutan, 2016

Major Economic Activity	Total Hours Worked per Week							Total
	<30	30-39	40-49	50-59	60-69	70-79	80+	
Agriculture and Forestry	6,380	40,088	59,376	50,248	25,635	12,513	4,188	198,428
Mining and Quarrying	0	206	531	330	0	82	0	1,149
Manufacturing	1,086	3,215	9,114	5,123	600	427	269	19,834
Electricity and Gas Supply	14	759	2,864	644	35	36	113	4,465
Water supply, Swerage, Waste Management	0	4	86	0	0	0	0	90
Construction	378	532	4,733	1,883	667	728	184	9,105
Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	349	1,347	8,215	7,429	3,145	2,933	3,243	26,661
Transport and Storage	259	1,128	3,824	3,094	1,305	702	789	11,101
Accomodation and Food Service Activities	87	789	3,397	2,583	579	665	1,063	9,163
Information and Communication	50	497	1,475	83	50	0	40	2,195
Financial and Insurance Activities	5	1,382	1,708	219	0	0	0	3,314
Real Estate Activities	471	413	882	168	3	35	7	1,979
Professional, Sentific and Technical	0	154	372	91	3	4	3	627
Administrative and Support Service Activities	118	998	2,075	611	82	38	24	3,946
Public Administration & Defense	584	7,353	18,666	2,455	251	1,541	175	31,025
Education	513	2837	8111	484	89	78	4	12,116
Human Health & Social Work	0	1130	2955	340	34	191	0	4,650
Arts, Entertainment and Recreation	193	249	851	233	4	16	0	1,546
Other Service Activities	1477	1009	1891	110	339	259	34	5,119
Activities of Household as Employers	59	0	311	82	8	5	0	465
Activities of Extraterritorial Organization	0	50	99	0	0	0	0	149
Total	**12,023**	**64,140**	**131,536**	**76,210**	**32,829**	**20,253**	**10,136**	**347,127**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.14: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2016

Major Economic Activity	No formal education	Primary	Lower Secondary	
Agriculture and Forestry	149,090	16,646	8,524	
Mining and Quarrying	569	30	63	
Manufacturing	9,234	2,453	2,259	
Electricity and Gas Supply	784	534	386	
Water supply, Swerage, Waste Management	90	0	0	
Construction	3,612	616	660	
Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	10,738	3,131	2,159	
Transport and Storage	5,332	1,356	1,168	
Accomodation and Food Service Activities	2,965	614	855	
Information and Communication	237	111	121	
Financial and Insurance Activities	160	36	78	
Real Estate Activities	1,164	336	131	
Professional, Sentific and Technical	0	2	0	
Administrative and Support Service Activities	779	314	124	
Public Administration & Defense	7,791	4,357	2,936	
Education	874	504	61	
Human Health & Social Work	241	398	106	
Arts, Entertainment and Recreation	372	190	182	
Other Service Activities	2394	462	35	
Activities of Household as Employers	407	45	0	
Activities of Extraterritorial Organization	0	0	0	
Total	**196,833**	**32,135**	**19,848**	

Source: Labour Force Survey Report 2016, MoLHR.

Level of Education								Total
	Middle Secondary	Higher Secondary	Bachelors Degree	Masters Degree & Above	Religious Professionals	NFE	Don't know	
	6,958	1,977	489	204	3,468	11,073	0	198,429
	203	270	14	0	0	0	0	1,149
	2,466	1,690	331	135	370	896	0	19,834
	1,345	790	421	94	26	83	3	4,466
	0	0	0	0	0	0	0	90
	1,351	1,494	987	58	146	181	0	9,105
	4,719	3,869	1,084	30	267	662	0	26,659
	1,389	874	367	88	428	98	0	11,100
	2,131	1,777	259	7	0	556	0	9,164
	211	1,033	447	34	0	0	0	2,194
	422	1,007	1,593	18	0	0	0	3,314
	96	74	114	0	53	12	0	1,980
	127	310	137	51	0	0	0	627
	586	1,200	861	82	0	0	0	3,946
	5,459	4,717	4,387	214	655	510	0	31,026
	1181	4449	4343	505	189	11	0	12,117
	835	2155	660	197	59	0	0	4,651
	381	282	82	0	57	0	0	1,546
	443	182	60	41	1499	4	0	5,120
	14	0	0	0	0	0	0	466
	0	0	0	149	0	0	0	149
	30,317	**28,150**	**16,636**	**1,907**	**7,217**	**14,086**	**3**	**347,132**

Table 4.15: Employed persons who worked during the past one week by nature of employment and hours of work, Bhutan, 2016

Nature of Employment	Total Hours Worked per week							Total
	<30	30-39	40-49	50-59	60-69	70-79	80+	
Regular paid employee	1,464	17,649	48,527	11,234	1,581	2,235	608	83,298
Casual paid employee	490	987	2,564	1,181	165	203	98	5,688
Contract/piece paid worker	155	653	3,931	512	16	357	262	5,886
Own-account workers (Non-agriculture)	2,823	3,858	14,496	11,377	4,809	4,260	4,237	45,860
Own-account workers (Agriculture)	2,705	10,059	32,241	24,118	12,199	7,824	2,769	91,915
Family workers (Non-agriculture)	684	967	3,094	1,723	734	688	725	8,615
Family workers (Agriculture)	3,676	29,913	26,584	26,061	13,324	4,689	1,419	105,666
Employer	26	8	97	4	0	0	18	153
Don't know	0	50	0	0	0	0	0	50
Total	**12,023**	**64,144**	**131,534**	**76,210**	**32,828**	**20,256**	**10,136**	**347,131**

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.16: Unemployed Persons by Age Group, Sex and Area of Residence, Bhutan, 2016

Age	Rural			Urban			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	164	406	570	31	83	114	195	489	684
20-24	1,316	841	2,157	917	1,055	1,972	2,233	1,896	4,129
25-29	600	479	1,079	503	718	1,221	1,103	1,197	2,300
30-34	0	0	0	163	53	216	163	53	216
35-39	0	0	0	10	23	33	10	23	33
40-44	0	0	0	7	11	18	7	11	18
45-49	111	0	111	0	0	0	111	0	111
50-54	0	0	0	0	7	7	0	7	7
55-59	0	0	0	26	0	26	26	0	26
60-64	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0
Total	**2,191**	**1,726**	**3,917**	**1,657**	**1,950**	**3,607**	**3,848**	**3,676**	**7,524**

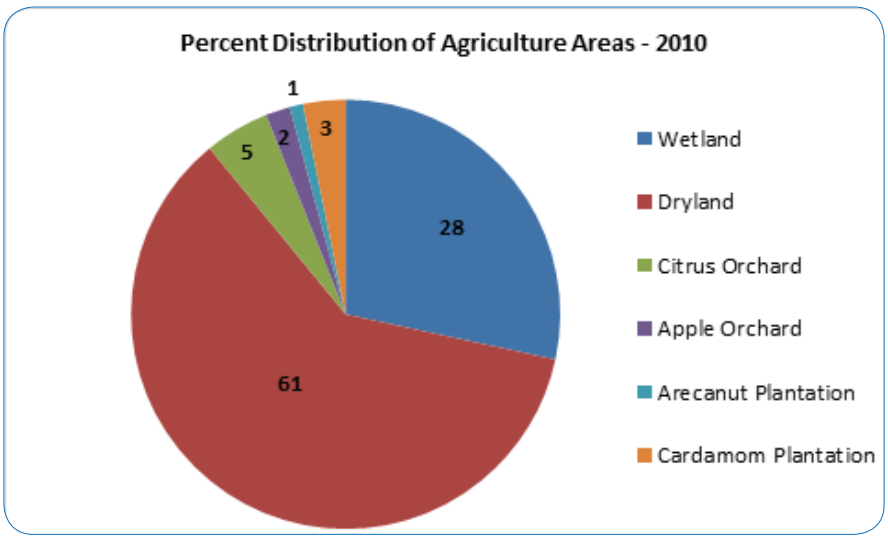
Source: Labour Force Survey Report 2016, MoLHR.

The Ministry of Agriculture and Forests (MoAF), over the past four decades, was concerned about "how to grow" by establishing various agriculture infrastructures to produce and distribute the inputs. Currently the MoAF established four main Renewable Natural Resources (RNR) research centers.

The MoAF with the accumulated experiences having accomplished one five year plan to the other, maintains the three basic objectives that are to i) conserve the environment, ii) enhance the rural income and iii) attain self-reliance in cereals and essential oil crops. In 2017, Agriculture contributed 15.17 percent to the total economy i.e. as measured by the Gross Domestic Product.

Agricultural practices have changed tremendously over the years. Until a decade ago, agriculture was practiced on a subsistence basis. Whatever was produced on the farm was consumed having little or no marketable surplus. The farm production is supplemented by keeping different kinds of domestic animals such as cattle for draught and milking purpose, chicken for eggs and pigs for meat etc. At higher altitudes, herds of yaks and sheep are also kept for draught and milking.

Owing to the improved communication facilities in the country, there is an increasing tendency to go for cash crops like apples in the temperate north; oranges, areca nut and cardamom in the subtropical south. Other cash crops that are exported include ginger, chilies and vegetables.



Strategies to increase livestock and cereal production include the propagation and practice of double cropping of the paddy production and distribution of high yield varieties. In the livestock sector the artificial insemination covers not only for the Jersey breeds that are high yielding but also for the production of Jatsa and Jatsam that are local high yielding varieties. As a result, increasing number of farms is mechanized with sizable investment on the machinery and other inputs that are subsidized by the government.

The issue is not only to formulate well-balanced agricultural policies and the response shown by the farmers to the designed policies and also to monitor the progress. To do this, a good statistical database, giving the trends or time series is required.

Back in 1988/89, the National Agronomic Survey was carried out in collaboration with the then Department of Agriculture. Though the MoAF conducted nation-wide sample surveys called RNR Census in 2009, but the major source of data presented in this chapter are from the Bhutan RNR Statistics 2016 and administrative records maintained by different departments under the MoAF.

Table 5.1: Number of Agriculture Research and Extension Facilities, Bhutan, (2013-2017)

(Numbers)

Infrastructure	2013	2014	2015	2016	2017
RNR (Common services)					
RNR Extension Centers	139	139	139	139	139
RNR Research Centers	4	4	4	4	4
RNR Research sub-stations	6	6	6	6	5
National Soil Service Centre	1	1	1	1	1
Agriculture					
Agriculture Extension Centers	40	40	40	40	40
Agriculture Seed Production Farms	11	11	11	11	8
Agriculture Research and Development Centres	4	4	4	4	4
Agriculture Research and Development Sub-Centres	6	6	6	6	6
Farm Mechanization Centers	3	3	3	3	3
Farm Mechanization Training Centers	1	1	1	1	1
National Mushroom Center	1	1	1	1	1
National Post Harvest Center	1	1	1	1	1
National Plant Protection Center	1	1	1	1	1
National Seed Centre	1	1	1	1	1
Livestock					
Dzongkhag Veterinary Hospitals	20	20	20	20	20
City Veterinary Hospital	1	1	1	1	...
National Animal Hospital	1	1	1	1	1
Regional Livestock Development Centre	4	4	4	4	4
National Livestock Commodity Research Centres	6	6	6	6	...
Livestock Extension Centers	42	42	17	17	12
Satellite Veterinary Laboratories	4	4	4	4	...
Government Livestock Farms	11	11	13	14	20
Fodder Seed Production Center	1	1	1	1	...
Vaccine Production Centre (NCAH)	1	1	1	1	1
Artificial Insemination Production Center	1	1	1	1	...
National Research and Development Center for Riverine and Lake Fisheries, Haa	1	1	1	1	1
National Center for Animal Health	1	1	1	1	1
National Centre for Animal Nutrition	1	1	1	1	...
Liquid Nitrogen Centre	1	1	1	1	2
Semen Processing Centre	1	1	1	2	1

cont...

Table 5.1 cont...

Infrastructure	2013	2014	2015	2016	2017
Livestock Product Value Addition Centre, Serbithang	...	...	...	1	...
Forestry					
Territorial Division HQs	12	12	12	14	14
Range Offices	55	55	55	70	71
Beat Offices	80	80	80	81	94
Check post	41	41	41	41	33
National Parks	5	5	5	5	5
Wildlife Sanctuaries & Strict Nature Reserve	3	3	3	4	5
Nature Conservation Study Center	1	1	1	1	1
Forest Management Unit Office	14	14	14	16	20
Recreational Park	1	1	1	1	1
Forestry Conservation Research & Training Institute	...	...	...	1	1
Conifer Forestry Research Sub Center	...	...	...	...	...
NWFP and Agroforestry Technology Sub Center	...	...	...	...	...
Sub Tropical Forestry Technology Sub Center	...	...	...	...	...
Functional Divisions	6	6	6	5	6
Memorial Garden (Kudrong, Langjopjaka)	...	...	...	1	1
Nature Park (Kuenselphodrang)	...	...	...	1	1
Agro-forestry Project (Samazingkha)	...	...	...	1	1
Royal Tree Nursery (Samteling)	...	...	...	1	1
Percent of Forest cover	70.46	70.46	70.46	71.00	71.00
Percent of Protected Area Network	51.40	51.40	51.40	51.44	51.44

Source: FIMS, DoA, DoFPS, MoAF, Thimphu.

Table 5.2: Area Proportion by Altitude Zones as Percentage of Total Country Area, Bhutan, 2010

Dzongkhag	Altitude Zones (metres)										
	Area	< 600	1200-1800	1800-2400	2400-3000	3000-3600	3600-4200	4200-4800	4800-5400	> 5400	Total
Bumthang	0.00	0.00	0.00	0.02	0.51	1.76	1.86	1.37	1.35	0.14	7.01
Chhukha	0.23	0.82	1.04	0.99	0.96	0.64	0.20	0.01	0.00	0.00	4.89
Dagana	0.55	0.84	0.85	0.85	0.80	0.37	0.17	0.04	0.00	0.00	4.48
Gasa	0.00	0.00	0.01	0.08	0.25	0.48	1.08	2.31	3.03	0.84	8.07
Haa	0.00	0.08	0.30	0.50	0.81	1.04	1.16	0.80	0.15	0.00	4.86
Lhuentse	0.00	0.04	0.41	1.01	1.41	1.31	1.13	1.18	0.77	0.07	7.33
Monggar	0.08	0.77	1.33	1.26	0.85	0.62	0.12	0.00	0.00	0.00	5.02
Paro	0.00	0.00	0.00	0.14	0.77	0.85	0.61	0.72	0.19	0.00	3.28
Pema Gatshel	0.29	1.03	0.94	0.34	0.03	0.00	0.00	0.00	0.00	0.00	2.63
Punakha	0.00	0.00	0.38	0.80	0.73	0.47	0.34	0.19	0.01	0.00	2.90
Samdrup Jongkhar	0.88	1.17	1.23	0.90	0.46	0.17	0.03	0.00	0.00	0.00	4.85
Samtse	0.51	0.97	0.82	0.59	0.37	0.09	0.03	0.00	0.00	0.00	3.38
Sarpang	0.93	1.13	1.04	0.88	0.24	0.06	0.02	0.00	0.00	0.00	4.29
Thimphu	0.00	0.00	0.00	0.07	0.69	1.05	0.90	1.14	0.63	0.08	4.57
Trashigang	0.00	0.24	0.80	1.26	1.21	1.05	0.91	0.27	0.00	0.00	5.73
Trashi Yangtse	0.00	0.07	0.22	0.57	0.87	0.74	0.59	0.54	0.17	0.01	3.80
Trongsa	0.00	0.08	0.42	0.84	1.34	1.14	0.60	0.34	0.01	0.00	4.76
Tsirang	0.07	0.47	0.56	0.34	0.15	0.06	0.01	0.00	0.00	0.00	1.65
Wangdue Phodrang	0.00	0.26	0.81	1.36	1.76	2.07	1.35	1.19	1.32	0.12	10.25
Zhemgang	0.52	1.72	1.80	1.11	0.59	0.34	0.13	0.04	0.00	0.00	6.25
Bhutan	**4.08**	**9.70**	**12.94**	**13.92**	**14.78**	**14.29**	**11.23**	**10.16**	**7.64**	**1.27**	**100**

Source: Land Cover Mapping Project 2010, NSSC/PPD MoAF, Thimphu.

Table 5.3: Area Proportion by Altitude Zones as Percentage of Total Dzongkhag Area, Bhutan, 2017

Dzongkhag	Area	< 600	600-1200	1200-1800	1800-2400	2400-3000
Bumthang	0.00	0.00	0.00	0.00	8.77	276.81
Chhukha	4.80	122.32	329.33	398.78	388.96	358.53
Dagana	12.37	250.30	326.14	326.42	329.98	286.70
Gasa	0.00	0.00	0.00	1.76	32.59	101.10
Haa	0.00	0.83	40.83	126.68	197.41	341.33
Lhuentse	0.00	0.00	24.26	191.20	406.93	560.21
Monggar	1.65	43.44	338.08	523.81	456.84	323.28
Paro	0.00	0.00	0.00	0.00	72.63	314.32
Pema Gatshel	11.20	208.99	429.71	288.07	91.83	3.51
Punakha	0.00	0.00	0.15	191.89	301.22	257.36
Samdrup Jongkhar	18.23	399.98	432.23	482.48	334.94	155.88
Samtse	14.98	240.24	363.43	300.37	223.56	120.33
Sarpang	21.67	407.60	418.75	407.27	325.17	68.95
Thimphu	0.00	0.00	0.00	0.00	43.53	262.65
Trashigang	0.01	3.90	98.87	320.04	473.90	477.35
Trashi Yangtse	0.00	0.00	33.37	95.86	233.04	330.96
Trongsa	0.00	0.11	44.46	180.67	341.84	530.40
Tsirang	4.45	56.02	202.89	191.82	119.50	43.26
Wangdue Phodrang	0.03	2.80	122.71	355.80	538.00	727.95
Zhemgang	8.33	267.91	711.41	653.68	404.74	207.20
Bhutan	**97.72**	**2004.44**	**3916.62**	**5036.60**	**5325.38**	**5748.08**

Source: RNR Statistics Division, MoAF, Thimphu.

Altitude Zones (metres)							
	3000-3600	**3600-4200**	**4200-4800**	**4800-5400**	**5400-6000**	**6000-6600**	**> 6600**
	703.73	689.37	513.45	460.29	51.67	4.04	0.19
	220.52	55.95	0.38	0.00	0.00	0.00	0.00
	120.91	63.82	17.64	0.00	0.00	0.00	0.00
	201.08	488.36	961.36	985.59	277.97	39.17	12.02
	410.98	452.47	273.28	40.99	0.42	0.00	0.00
	482.02	449.68	461.57	233.18	28.33	0.67	0.00
	220.71	38.10	0.00	0.00	0.00	0.00	0.00
	316.77	242.98	279.28	51.94	0.20	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	168.87	128.90	60.45	0.73	0.00	0.00	0.00
	60.58	8.90	0.32	0.00	0.00	0.00	0.00
	24.48	8.58	0.40	0.00	0.00	0.00	0.00
	19.45	7.60	0.00	0.00	0.00	0.00	0.00
	345.31	348.15	528.72	218.27	30.67	4.58	0.15
	404.19	359.16	56.07	0.00	0.00	0.00	0.00
	270.87	228.45	196.91	45.93	3.15	0.00	0.00
	391.53	226.76	95.59	2.36	0.00	0.00	0.00
	20.01	4.34	0.00	0.00	0.00	0.00	0.00
	783.88	500.52	492.98	455.97	49.71	4.41	0.42
	113.19	42.90	15.46	0.00	0.00	0.00	0.00
	5279.08	**4344.99**	**3953.86**	**2495.25**	**442.12**	**52.87**	**12.78**

Table 5.4: Distribution of Plant Protection Chemicals by Dzongkhag, Bhutan, (2012/13-2017)

kg / Litres

Dzongkhag	2012/2013	2013/2014	2014/2015	2015/2016	2017
Bumthang	512	442	571	617	686
Chhukha	157	210	6,953	12,663	5,487
Dagana	7	653	9,153	101	5,192
Gasa	...	...	...	...	...
Haa	785	731	567	5,930	5,968
Lhuentse	111	121	14,543	25,010	5,013
Monggar	1,405	1,262	10,498	10,005	6,853
Paro	6,806	6,945	185,173	137,784	143,632
Pema Gatshel	4	50	0	0	15
Punakha	243	171	70,199	64,376	65,300
Samdrup Jongkhar	0	0	0	0	0
Samtse	20	109	4,141	5,009	5,022
Sarpang	165	270	5,214	12,439	15,534
Thimphu	7,439	6,907	42,260	34,014	31,466
Trashigang	623	1,054	21,021	30,684	608
Trashi Yangtse	8	473	76,601	53,459	44,200
Trongsa	45	166	17,199	15,241	15,376
Tsirang	96	188	19,387	8,672	9,626
Wangdue Phodrang	4,657	4,824	55,690	57,291	54,757
Zhemgang	16	0	5,053	103	28
Bhutan	**23,099**	**24,576**	**544,224**	**473,398**	**414,763**

Source: RNR Statistics Division, Directorate Services, MoAF

Table 5.5: Agriculture Land Holdings & Land Types by Dzongkhag, Bhutan, 2010

(Hectares)

Dzongkhag	Wet land	Dry land	Apple Orchard	Citrus Orchard	Acrecanut Plantation	Cardamom Plantation	Other Horticulture
Bumthang	24.7	2,883.8	12.0	0	0	0	0
Chhukha	1,799.2	5,119.2	53.0	1,308.0	180.0	782.0	0
Dagana	1,492.8	4,588.4	0	1,341.0	115.0	0	0
Gasa	143.6	386.3	0	0	0	0	0
Haa	88.5	2,067.8	89.0	9.0	0	527.0	0
Lhuentse	1,575.6	4,328.7	0	1.0	0	0	0
Monggar	431.7	5,304.4	0	3.0	0	0	0
Paro	1,753.0	3,561.6	1,026.0	0	0	0	0
Pema Gatshel	302.3	4,333.4	0	620.0	0	0	0
Punakha	5,074.3	262.0	0	1.0	0	0	16.0
Samdrup Jongkhar	1,147.7	6,732.4	0	232.0	17.0	0	0
Samtse	5,682.4	8,150.5	0	894.0	348.0	2,291.0	0
Sarpang	2,087.6	3,472.7	0	553.0	540.0	0	0
Thimphu	458.3	913.6	902.0	0	0	0	0
Trashigang	1,448.5	4,974.4	0	0	0	0	0
Trashi Yangtse	949.3	2,110.6	0	0	0	0	0
Trongsa	1,082.3	1,204.9	0	0	0	0	0
Tsirang	1,527.1	2,867.4	0	314.0	0	0	0
Wangdue Phodrang	4,202.3	1,742.0	0	0	0	0	0
Zhemgang	639.6	3,250.7	0	211.0	0	0	0
Bhutan	**31,910.8**	**68,254.8**	**2,082.0**	**5,487.0**	**1,200.0**	**3,600.0**	**16.0**

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 5.6: Cultivated Area, Production and Yield of Major Crops by Dzongkhag, Bhutan, 2017

Dzongkhag	Wheat			Barley			Paddy	
	Area (Acres)	Production (MT)	Yield (Kg/ Acre)	Area (Acres)	Production (MT)	Yield (Kg/ Acre)	Area (Acres)	Production (MT)
Bumthang	802	682	648	331	302	912	160	266
Chhukha	210	246	1,171	167	75	446	2,333	2,400
Dagana	62	33	538	15	9	641	3,906	5,404
Gasa	58	50	864	232	250	1,079	137	306
Haa	418	155	500	22	8	352	179	224
Lhuentse	20	19	836	9	6	720	2,173	3,964
Monggar	100	78	780	1,867	882	472	1,076	1,231
Paro	490	334	765	78	48	613	3,459	8,647
Pema Gatshel	37	31	668	11	6	526	28	41
Punakha	543	436	803	42	10	239	7,339	14,361
Samdrup Jongkhar	38	65	763	68	17	248	2,368	3,739
Samtse	223	130	583	4	2	515	6,104	9,003
Sarpang	89	65	774	2	0.3	199	4,255	6,000
Thimphu	389	316	813	22	13	607	592	1,491
Trashigang	167	147	880	71	58	811	3,671	5,882
Trashi Yangtse	64	33	624	1	0	121	2,301	4,118
Trongsa	473	288	617	296	220	742	1,738	3,887
Tsirang	48	17	359	6	3	430	3,265	4,930
Wangdue Phodrang	943	624	709	169	93	552	5,070	8,836
Zhemgang	84	85	952	7	3	416	1,214	1,656
Bhutan	**5,258**	**3,834**	**729**	**3,420**	**2,006**	**586**	**51,368**	**86,386**

Source: RNR Statistics Division, Directorate Services, MoAF

	Maize			Buckwheat			Millet		
Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
(Kg/ Acre)	(Acres)	(MT)	(Kg/ Acre)	(Acres)	(MT)	(Kg/ Acre)	(Acres)	(MT)	(Kg/Acre)
1,574	...	...	...	1,160	843	726	...	...	...
1,029	3,115	4,012	1,288	529	251	475	447	128	286
1,383	6,754	6,724	996	310	250	807	454	447	984
2,286	1	2	1,538	...	...	...	...	...	...
1,270	166	145	878	423	193	455	52	24	468
1,824	2,641	3,949	1,495	10	5	506	74	41	550
1,144	11,503	15,871	1,380	266	73	276	22	11	512
2,500	24	15	615	106	50	474	9	4	453
1,464	3,964	4,361	1,100	265	62	233	247	83	336
1,957	162	318	1,966	99	73	739	2	0	195
1,579	8,221	9,195	1,118	304	465	1,527	176	88	497
1,475	5,195	8,588	1,653	216	91	420	613	255	416
1,410	4,008	2,932	732	166	66	396	656	276	421
2,331	8	23	2,986	1	0	161	1	0	277
1,602	6,997	15,559	2,224	270	99	366	48	19	391
1,790	2,165	4,015	1,854	150	79	527	305	173	566
2,237	825	1,504	1,822	671	415	618	25	9	363
1,510	2,545	7,100	2,790	114	33	291	331	126	379
1,833	285	455	1,596	349	207	594	8	6	733
1,364	7,464	9,283	1,244	406	225	554	153	49	318
1,682	**66,043**	**94,051**	**1,424**	**5,815**	**3,480**	**598**	**3,623**	**1,739**	**480**

Table 5.7: Number of Livestock by Type and Dzongkhag, Bhutan, (2015-2017)

Dzongkhag	Local Cattle			Improved Cattle		
	2015	2016	2017	2015	2016	2017
Bumthang	5,011	4,276	4,407	5,975	6,094	6,904
Chhukha	16,893	14,570	13,226	4,405	5,170	5,794
Dagana	13,574	14,326	14,540	3,582	4,053	4,313
Gasa	482	487	437	495	638	726
Haa	6,464	5,570	5,517	3,266	3,549	3,515
Lhuentse	10,477	9,851	10,083	3,159	3,081	3,385
Monggar	18,213	17,547	17,698	8,192	8,231	9,084
Paro	6,281	7,151	7,326	5,993	5,960	6,793
Pema Gatshel	2,786	2,139	2,073	5,053	5,489	6,799
Punakha	9,028	7,967	7,776	3,129	3,482	3,269
Samdrup Jongkhar	10,721	8,476	8,170	6,148	6,299	5,637
Samtse	26,418	32,939	24,246	4,892	6,397	7,211
Sarpang	16,548	12,899	14,061	7,529	7,511	8,789
Thimphu	1,544	1,827	1,998	1,984	2,951	3,013
Trashigang	19,508	18,852	16,823	7,842	8,392	8,907
Trashi Yangtse	7,686	8,071	7,661	3,279	3,634	4,000
Trongsa	7,626	6,582	7,615	3,693	3,703	3,968
Tsirang	5,706	4,966	4,613	6,778	6,906	6,722
Wangdue Phodrang	17,126	16,339	17,171	5,039	5,574	6,135
Zhemgang	9,014	8,359	9,226	1,947	2,430	2,884
Livestock Government Farms	...	0	302	0	0	433
Bhutan	**211,106**	**203,194**	**194,969**	**92,380**	**99,544**	**108,281**

	Mithun			Yak			Buffalo		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
	9	4	7	3,621	3,660	3,917	0	0	0
	91	21	29	0	0	0	4	2	10
	29	3	13	0	29	0	78	29	40
	0	0	0	6,314	6,553	6,527	0	0	0
	0	0	0	4,458	4,771	5,095	0	0	0
	20	12	16	316	368	335	0	0	0
	38	19	23	0	0	0	0	0	0
	28	6	5	3,360	3,186	3,332	0	0	0
	5	5	3	0	0	0	0	0	0
	4	3	4	0	0	0	0	0	0
	128	40	50	5	13	3	15	10	12
	15	13	31	0	0	0	258	308	279
	109	4	50	0	0	0	76	41	73
	2	2	0	10,005	10,331	10,768	0	0	0
	66	57	37	6,202	15,964	6,483	0	0	0
	10	9	14	555	831	727	0	0	0
	4	4	4	85	284	226	0	0	0
	2	1	1	0	0	0	155	142	136
	16	12	13	3,301	3,595	4,115	0	0	0
	166	173	12	0	0	0	0	0	0
	...	189	190	...	0	0	...	0	0
	742	**577**	**502**	**38,222**	**49,585**	**41,528**	**586**	**532**	**550**

cont...

Table 5.7 cont...

Dzongkhag	Zo/Zom			Horse/Equine				
	2015	2016	2017	2015	2016	2017	2015	
Bumthang	91	47	80	1,278	909	924	694	
Chhukha	0	61	0	569	461	419	620	
Dagana	0	0	0	379	342	344	267	
Gasa	0	0	12	2,268	2,186	2,156	3	
Haa	0	0	0	1,081	1,182	1,077	1	
Lhuentse	86	80	91	1,463	1,250	1,236	103	
Monggar	0	0	0	1,465	1,382	1,094	8	
Paro	0	0	0	1,408	1,653	1,757	10	
Pema Gatshel	0	0	0	459	396	321	6	
Punakha	0	0	0	461	411	389	19	
Samdrup Jongkhar	15	10	12	1,155	699	593	57	
Samtse	0	0	0	300	314	355	5,246	
Sarpang	0	0	0	497	450	482	607	
Thimphu	0	0	0	1,410	1,586	1,675	2	
Trashigang	8,040	8,981	8,611	2,712	2,579	2,475	2,756	
Trashi Yangtse	37	0	0	1,184	1,166	1,046	2	
Trongsa	0	0	0	388	189	216	107	
Tsirang	0	0	0	115	95	83	224	
Wangdue Phodrang	0	0	0	596	579	572	676	
Zhemgang	0	0	0	1,065	975	936	2	
Livestock Government Farms	...	0	0	...	86	61	...	
Bhutan	**8,269**	**9,179**	**8,806**	**20,253**	**18,890**	**18,211**	**11,410**	

Source: Livestock Statistics 2017, Department of Livestock, MoAF.

Sheep			Goats			Pigs			Poultry		
	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017
	258	127	5	6	9	0	80	52	5,102	2,453	5,557
	633	594	5,779	4,577	4,431	1,435	1,072	1,181	54,940	43,965	140,530
	118	110	7,182	7,776	8,355	1,781	2,015	2,528	28,133	36,257	32,358
	0	0	34	2	2		0	0	1,281	2,150	2,247
	1	0	10	31	39	75	119	88	8,822	10,125	8,820
	65	62	59	89	27	138	183	185	14,170	13,413	19,987
	4	3	65	48	45	1,065	500	285	33,456	32,469	37,865
	13	10	662	46	51	568	298	490	26,657	23,597	24,369
	0	0	78	26	34	540	501	523	14,955	18,847	23,718
	118	146	233	235	208	254	241	218	10,722	13,508	10,563
	37	28	1,442	1,327	1,902	460	339	375	20,652	34,968	37,170
	4,340	4,720	13,237	12,641	13,387	1,977	1,454	1,724	58,229	67,585	101,773
	554	638	4,327	4,115	4,813	2,879	3,771	3,710	165,041	331,320	345,573
	4	1	47	56	81	370	71	174	36,689	63,058	35,618
	3,094	2,193	257	241	286	529	372	285	21,658	21,745	20,049
	2	55	192	117	308	259	225	146	7,065	17,257	15,838
	107	132	91	62	92	75	10	38	11,349	12,131	7,222
	169	146	7,771	7,690	8,344	1,805	1,912	2,325	97,345	231,748	145,225
	1,349	948	450	243	88	726	529	860	13,253	17,219	26,050
	0	0	62	34	37	791	652	1,057	8,982	17,272	27,168
	411	531	...	151	150	...	980	2,571	...	27,466	50,478
	11,277	**10,444**	**41,983**	**39,513**	**42,689**	**15,727**	**15,324**	**18,815**	**638,501**	**1,038,553**	**1,118,178**

Table 5.8: Diary & Livestock Production by Type and Dzongkhag, Bhutan, (2015-2017)

Dzongkhag	Milk (MT)			Butter (MT)				
	2015	2016	2017	2015	2016	2017	2015	
Bumthang	1,643.2	2,624.6	2,720.8	70.6	98.3	196.6	337.9	
Chhukha	2,012.2	2,276.3	2,436.2	59.4	72.4	67.8	101.7	
Dagana	1,855.2	2,340.5	2,717.4	74.2	86.2	111.4	97.2	
Gasa	424.3	536.0	546.5	21.2	26.8	28.9	26.1	
Haa	1,904.2	2,066.0	2,301.0	55.1	59.4	66.2	82.3	
Lhuentse	1,587.7	1,447.2	1,536.1	75.9	71.7	75.8	133.7	
Monggar	3,795.2	4,323.1	4,565.2	176.5	174.5	213.7	316.6	
Paro	1,930.8	2,455.9	3,288.1	87.5	94.8	112.7	312.8	
Pema Gatshel	1,590.5	1,686.2	1,725.8	64.0	72.3	79.3	117.5	
Punakha	1,057.9	1,220.3	1,251.9	47.9	47.7	53.9	88.1	
Samdrup Jongkhar	1,937.5	2,632.5	2,661.2	80.1	72.5	65.9	133.2	
Samtse	3,556.9	3,560.0	3,750.8	113.8	102.5	126.5	297.1	
Sarpang	2,265.2	2,292.7	2,670.7	107.9	66.9	88.2	198.2	
Thimphu	1,427.3	1,786.8	1,784.3	42.2	59.4	58.4	50.4	
Trashigang	4,738.9	6,710.1	6,098.2	197.9	222.9	273.5	393.8	
Trashi Yangtse	1,774.9	1,805.4	2,005.1	86.7	88.1	99.0	153.3	
Trongsa	1,386.6	1,192.4	1,421.9	61.6	54.5	65.4	277.9	
Tsirang	1,609.5	2,394.9	2,059.4	53.6	869.5	76.7	88.7	
Wangdue Phodrang	2,315.7	2,481.2	2,814.0	112.8	120.1	133.3	203.4	
Zhemgang	1,030.4	1,254.7	1,659.2	40.4	32.9	59.5	61.0	
Livestok Govt. Farms	0.0	0.0	236.9	0.0	0.0	0.0	0.0	
Bhutan	**39,844.1**	**47,086.6**	**50,250.5**	**1,629.3**	**2,493.3**	**2,052.9**	**3,470.7**	

Cheese (MT)			Beef (MT)			Pork (MT)		
	2016	2017	2015	2016	2017	2015	2016	2017
	204.8	474.9	15.7	30.5	27.8	0.0	6.2	4.3
	117.1	115.7	17.3	13.2	17.5	43.4	31.7	39.6
	80.8	111.4	66.8	53.5	32.9	47.6	60.4	79.6
	29.4	33.3	0.0	0.0	2.5	0.0	0.0	0.0
	86.2	96.5	2.4	4.2	32.1	3.2	4.2	5.4
	128.2	134.6	38.7	10.9	59.3	11.5	10.9	11.3
	607.0	631.2	85.7	38.0	68.0	42.2	38.0	27.9
	141.6	177.8	6.8	25.0	9.5	22.7	25.0	52.5
	130.0	142.6	10.8	22.0	7.2	18.9	22.0	26.9
	76.3	93.0	18.2	10.1	7.9	10.2	10.1	10.1
	130.4	105.3	44.3	20.4	48.0	16.4	20.4	38.2
	371.1	332.0	150.0	60.2	41.5	41.4	60.2	80.4
	120.5	141.5	5.7	249.9	6.9	93.7	249.9	283.7
	144.7	213.1	3.8	3.2	96.8	0.1	3.2	4.3
	429.2	525.9	41.7	16.0	34.7	11.3	16.0	14.3
	157.9	178.2	23.3	3.7	51.3	4.0	3.7	8.3
	297.8	311.4	51.8	2.7	67.8	0.6	2.7	2.4
	153.9	160.0	11.5	80.9	4.0	38.2	80.9	89.5
	208.3	230.4	30.4	40.2	19.5	38.7	40.2	64.3
	52.0	89.2	11.8	43.9	0.0	18.3	43.9	75.9
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.0
	3,667.0	**4,298.0**	**636.5**	**728.6**	**635.0**	**462.5**	**729.6**	**1,000.0**

cont...

Table 5.8 cont...

Dzongkhag	Mutton (MT)			Chicken(MT)			Fis	
	2015	2016	2017	2015	2016	2017	2015	
Bumthang	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chhukha	10.2	12.5	12.0	280.8	175.5	262.9	0.3	
Dagana	22.9	29.7	36.1	94.4	96.1	97.2	38.0	
Gasa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Haa	0.1	0.1	0.1	0.4	1.1	2.5	0.2	
Lhuentse	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Monggar	0.0	0.0	0.0	0.4	0.0	0.1	0.9	
Paro	0.0	0.0	0.0	0.2	0.1	0.4	0.0	
Pema Gatshel	0.0	0.0	0.0	1.5	0.1	0.1	0.9	
Punakha	0.4	0.3	0.4	3.8	1.1	0.7	1.2	
Samdrup Jongkhar	4.5	10.6	8.7	18.1	31.7	52.0	33.7	
Samtse	79.5	57.9	50.0	192.2	260.9	318.9	12.3	
Sarpang	27.5	45.0	51.8	193.2	319.0	345.2	49.4	
Thimphu	0.0	0.0	0.0	25.4	16.7	16.3	0.0	
Trashigang	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Trashi Yangtse	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Trongsa	1.6	0.0	0.7	8.1	3.5	4.7	0.1	
Tsirang	18.4	34.6	34.8	202.5	286.5	184.3	3.2	
Wangdue Phodrang	0.5	0.4	0.0	40.1	14.0	22.6	0.4	
Zhemgang	0.2	0.1	0.0	1.7	2.7	40.7	8.6	
Livestok Govt. Farms	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bhutan	**165.9**	**191.2**	**194.5**	**1,062.9**	**1,209.2**	**1,348.8**	**149.1**	

Source: Department of Livestock, MoAF.

Fish(MT)			Eggs (000'nos)			Honey(MT)		
	2016	2017	2015	2016	2017	2015	2016	2017
	0.0	0.0	468.4	377.6	1,088.7	21.5	22.0	23.5
	0.4	1.0	4,389.6	4,525.9	3,964.4	1.1	1.9	2.2
	13.4	21.7	1,388.9	1,898.9	2,200.1	2.3	2.2	3.5
	0.0	0.0	93.5	499.1	466.2	0.0	0.0	0.0
	0.0	4.5	659.2	1,948.7	1,917.6	0.0	0.0	0.1
	0.0	0.2	1,646.0	2,164.9	4,214.2	0.0	0.0	0.0
	3.8	4.3	4,732.3	5,253.6	7,660.0	0.0	0.0	0.0
	0.0	0.0	3,941.3	4,568.4	5,070.7	0.0	0.0	0.0
	1.0	1.7	1,956.1	2,563.2	3,271.3	0.0	0.0	0.0
	1.0	1.7	1,359.3	1,912.8	1,913.3	0.1	0.1	0.1
	49.2	69.8	2,332.4	4,358.7	4,781.4	0.2	0.3	0.5
	11.8	31.4	2,675.5	3,122.2	4,355.3	3.3	3.2	4.3
	48.1	49.6	15,884.3	25,634.8	26,559.5	2.6	9.6	10.3
	0.0	0.0	7,204.0	11,943.2	8,931.4	0.0	0.0	0.0
	0.0	0.0	2,766.7	3,081.7	3,673.4	0.0	0.0	0.0
	0.0	0.0	1,225.8	4,059.4	3,662.1	0.0	0.0	0.0
	0.0	0.0	927.4	1,501.4	1,590.1	0.0	0.0	0.0
	9.9	6.1	11,792.4	18,546.9	19,007.8	2.2	2.6	3.1
	0.5	0.4	1,899.4	2,964.7	3,299.0	0.0	0.1	0.7
	11.1	7.7	1,353.0	3,223.4	5,458.3	0.0	0.0	0.0
	0.0	22.6	0.0	0.0	3,622.4	0.0	0.0	0.0
	150.5	**222.5**	**68,695.4**	**104,149.4**	**116,707.1**	**33.1**	**41.9**	**48.3**

Table 5.9: Fruit Production and Yield, Bhutan, (2013-2017)

Fruits	Production (MT)					Yield (kgs/Bearing Tree)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Apple	8,032	7,051	5,308	6,587	8,039	...	...	...	33	31
Mandarin	33,469	45,226	15,977	42,700	28,017	...	...	...	48	32
Areca nut	6,249	7,468	9,406	9,467	9,342	...	...	...	13	10
Banana	1,489	1,631	2,636	3,076	3,113	...	...	...	29	19
Mango	656	586	651	644	530	...	...	...	27	31
Guava	592	787	588	665	1,084	...	...	...	25	30
Peach	1,148	1,435	738	972	1,124	...	...	...	54	43
Pear	1,697	1,137	867	852	1,510	...	...	...	58	62
Plum	744	738	385	376	482	...	...	...	42	50
Jackfruit	773	1,102	1,227	775	528	...	...	...	143	171
Papaya	106	126	214	282	278	...	...	...	47	35
Pomegranate	101	111	63	83	74	...	...	...	19	16
Persimmon	225	227	137	49	152	...	...	...	31	35
Sugarcane	292	324	508	345	...	...	...	...	...	...
Passion fruit	125	135	66	120	94	...	...	...	...	...
Pine apple	57	54	64	67	72	...	...	...	...	...
Litchi	169	172	160	134	313	...	...	...	24	30
Walnut	350	337	211	152	239	...	...	...	21	22
Date Plum (Gendum)	...	...	...	82	23	...	...	...	41	20

Source: RNR Statistics Division, Directorate Services, MoAF

Table 5.10: Vegetables, Oilseeds, Spices and Pulses Production, Bhutan, (2013-2017)

(Metric Tones)

Details	2013	2014	2015	2016	2017
Potato	50,390	53,612	49,359	58,820	57,223
Chili	8,321	8,586	7,073	9,907	13,606
Tomato	...	899	627	455	383
Cabbage	3,961	4,364	5,209	6,685	10,562
Cauliflower	922	1,650	1,586	2,082	3,575
Broccoli	814	1,010	831	1,004	1,371
Asparagus	283	205	200	239	79
Carrot	755	746	1,094	1,276	787
Pumpkin	3,935	4,081	3,746	3,671	3,171
Radish	4,534	5,021	5,840	6,490	6,307
Turnip	9,757	9,967	10,423	10,499	13,051
Beans	2,636	2,830	3,612	4,409	5,273
Rajma Beans	...	...	...	...	932
Peas	1,180	970	1,218	1,014	859
Lady Finger	31	28	53	42	26
Green leaves	2,063	1,938	2,871	1,937	4,153
Egg plant	362	485	694	585	643
Garlic	752	846	899	1,176	708
Cucumber	2,378	2,484	1,697	1,194	1,948
Squash	2,366	2,118	2,609	2,626	1,755
Gourds	160	270	341	125	278
Dally chilli	187	...	100	112	...
Tree Tomato	329	424	341	275	404
Cultivated Mushroom	19	17	19	82	122
Cardamom	1,160	...	...	...	2,245
Ginger	3,756	...	...	...	7,859
Onion Bulb	420	757	608	414	489
Mustard	955	...	...	...	969
Soybean	...	...	...	...	204

Source: RNR Statistics Division, Directorate Services, MoAF

Table 5.11: Volume and Value of Exports by Major Commodities, Bhutan, (2013-2017)

Commodity	Production (MT)			(KGM)
	2013	2014	2015	2016
Rice	118.0	7.2	6.2	5,024.0
Wheat / Barley [1]	1.0	0.0	0.0	...
Other Cereals	18.0	1.1	2.1	5.9
Apples	4,314.2	5,436.7	3,487.9	3,789.9
Oranges	22,668.7	19,608.0	17,819.8	15,545.7
Other Fruits	1.0	5.1	0.4	3.1
Betel Nuts (Kg)	2,668.1	5,456.7	4,458.0	7,750.9
Potatoes	21,871.3	26,849.5	19,907.7	24,460.2
Pepper	...	...	...	1.5
Nutmeg & mace	...	...	...	1.0
Cardamom	822.7	746.4	845.7	713.0
Vegetables	2,006.4	2,097.8	1,826.8	3,209.3
Oil Seeds	9.5	19.7	10.6	3.8
Edible Oil	47.6	250.9	126.7	123.5
MAPs	20.0	24.0	...	...
Mushrooms (Matsutake)	...	3.2	3.0	4.1
Ginger	1,531.0	1,230.0	...	3,053.0
Cordyceps(Kg)	872.3	654.6	902.2	898.0
Coffee, Tea	...	...	...	3.3
Tsheringma Tea bag	...	...	...	0.1
Turmeric	...	...	...	0.1
Honey	...	0.1	...	0.2
Betel Leaves	...	881.0	...	...
Incense	0.0	3.0	...	...
Dairy Products (Cheese)	0.0	0.1	...	0.5
Dairy Products (Butter)	0.0	...	...	...
Live animals ('000)	0.0	23.0	...	...
Live Bonvine (NMB)	...	...	...	...
Live Swine (NMB)	...	...	...	...
Live Fish (Kg)	...	...	...	...
Meats	0.0	0.0	...	...

Note: [1] After 2012, Wheat/Barley includes only wheat flour
Source: RNR Statistics Division, Directorate Services, MoAF

	Value (Nu. In Million)					
2017	2013	2014	2015	2016	2017
3.4	13.1	0.9	0.4	0.1	0.4
510.7	124.8	112.0	0.1	...	1.3
...	0.2	0.2	0.0	0.2	...
2,659.2	98.7	139.1	101.8	128.1	69.2
16,141.6	519.1	542.6	467.6	439.1	478.4
...	0	0.1	0	0.1	...
5,791.9	25.6	70.5	86.7	83.4	107.4
24,045.0	360.1	688.8	371.0	542.5	458.7
1.0	...	...	...	0.0	0.1
5.6	...	...	...	1.2	3.6
2,031.3	658.6	421.4	940.8	633.9	1,330.2
3,048.1	77.1	116.1	44.2	50.4	64.0
43.9					1.3
125.8	2.9	13.7	8.0	9.7	9.4
...	0.8	2.7	...	...	...
4.0	...	11.4	12.1	18.5	18.6
3,948.4	40.58	55.04	...	72.69	70.42
640.0	258.81	375.34	194.20	141.01	188.30
3.9	...	...	...	0.10	0.10
0.3	...	...	...	0.10	0.14
0.1	...	...	...	0.06	0.04
2.8	...	0.0	...	0.22	0.26
...	...	...	59.90	...	...
10.9	...	2.38	...	...	6.80
0.2	...	0.0	61.00	0.60	0.03
...	...	...	...	...	...
	...	1.08	...	...	...
2.0	...	...	...	...	0.02
210.0	...	...	...	...	0.04
50.0	...	...	...	...	0.01
...	...	...	...	...	...

Table 5.12: Volume and Value of Imports by Major Commodities, Bhutan, (2013-2017)

Commodity	Production (MT)			(KGM)	
	2013	2014	2015	2016	
Rice	69885.0	79306.0	83646.1	87671.2	
Wheat/Barley	22188.0	23264.0	11081.9	5099.2	
Other Cereals	502.0	437.0	34.0	197.5	
Fruits	1905.0	2403.0	3665.8	3666.9	
Potatoes	5283.0	5273.0	6009.7	...	
Vegetables	8259.0	12646.0	12841.2	...	
Dairy Products (Cheese)	6206.0	7807.0	1264.6	...	
Dairy Products (Butter)			215.1	...	
Edible Oil	13761.0	18944.0	17550.0	14681.5	
Oil Seeds			12.6	49.0	
Honey			34.5	...	
Betel Nuts			159.2	...	
Betel Leaves			861.4	...	
Cardamom			3.4	...	
Sugar	10022.0	9732.0	...	...	
Salt	7234.0	6184.0	...	...	
Pork	2314.0	2165.0		...	
Beef	4429.0	3740.0		...	
Chicken	1006.0	1302.0	1369.3	...	
Fish	2872.0	3101.0	2479.3	...	
Mutton	83.0	33.0		...	
Turmaric	...	...	...	...	
Dreid Fruits	...	...	...	...	
Dreid Vegetables	...	...	...	...	
Fish (Dry)	...	...	...	...	
Fresh milk	...	...	...	...	
Tetra pack milk	...	...	...	...	
Milk powder	...	...	...	...	
Butter	...	...	...	...	
Cheese	...	...	...	...	
Natural honey	...	...	...	...	

Note: Salt includes iodised and non-iodised

Source: RNR Statistics Division, Directorate Services, MoAF

	Value (Nu. In Million)					
	2017	2013	2014	2015	2016	2017
	78449.6	1540.4	1787.6	1668.1	1923.4	1979.8
	7420.1	378.9	416.2	186.8	99.1	185.7
	5.9	7.8	6.4	0.6	312.6	0.3
	3588.7	42.1	75.4	90.1	100.7	120.9
	5281.9	56.8	80.6	60.5	...	51.1
	14131.2	238.6	411.0	337.6	...	296.2
	1303.1			758.1	...	510.6
	207.3	1003.5	1246.3	62.1	...	68.2
	10901.7	966.7	996.2	968.4	1024.4	933.6
	37.4			1.4	5.3	4.0
	39.2			7.0	...	8.1
	27.7			8.9	...	2.9
	667.2			61.8	...	58.8
	1.0			2.1	...	0.8
	10834.4	322.3	330.2	...	...	449.2
	6526.6	31.0	33.8	...	...	36.3
	1869.8	312.7	312.7		...	276.7
	3120.3	547.8	501.4		...	447.6
	1584.5	116.4	165.8	173.7	...	205.1
	1311.2	284.1	394.4	316.7	...	177.8
	34.1	15.6	8.4		...	10.9
	16.3	...	...	...	...	3.0
	37.9	...	...	...	...	5.3
	2578.5	...	...	...	...	265.4
	189.6	...	...	...	...	25.7
	125.6	...	...	...	...	4.1
	1523.3	...	...	...	...	85.3
	1180.0	...	...	...	...	371.6
	201.5	...	...	...	...	68.2
	1303.1	...	...	...	...	510.6
	38.8	...	...	...	...	8.0

Table 5.13: Annual Average Price of Farm Products Received by Farmers, by Type, Bhutan, (2013-2017)

Category		Nu. / Kg				
	Crop Name	2013	2014	2015	2016	2017
Cereals	Wheat	21	22	34	38	61
	Rice (Local)	41	34	35	55	...
	Maize	21	16	18	59	20
	Buckwheat	87	61	74	88	80
Pulses	Rajma Bean	44	49	56	62	86
	Mung Bean	60	65	75	101	94
	Dal	69	...	...	...	100
	Lentil	53	81	115	...	100
Oil Seeds	Mustard	29	42	51	47	29
	Sunflower	163	59	36	147	200
	Soya bean	42	49	119	53	54
	Groundnut	64	67	59	67	79
	Pyrilla (Nam)	116	120	135	135	69
Spices	Ginger	90	60	40	43	44
	Garlic	82	81	89	75	95
	Cardamoms	937	1270	1364	789	634
	Dolay Chilli	150	...	...	...	221
	Onions	44	50	41	...	61
Vegetables	Potatoes	24	25	20	24	25
	Tomatoes	50	50	36	42	44
	Carrots	47	50	35	39	41
	Cauliflower	39	37	37	49	65
	Cabbages	25	26	21	26	22
	Radish	14	14	13	19	21
	Turnip	20	21	18	35	25
	Lady Finger	27	30	27	31	...
	Broccoli	45	45	46	61	56
	Peas (Green)	40	46	38	42	46
	Beans (Green)	41	41	38	46	53
	Asparagus	49	50	111	119	156
	Eggplants	31	28	28	37	33
	Cultivated Mushrooms	189	173	155	371	356
	Chillies	78	86	61	66	99
	Green Leaves	21	21	21	27	56
Fruits	Bananas	23	23	23	26	35
	Pineapples	22	21	29	28	28

cont...

Table 5.13 cont...

Category		Nu. / Kg				
	Crop Name	2013	2014	2015	2016	2017
Fruits	Mangoes	45	41	47	43	45
	Oranges	51	57	...	...	34
	Apples	34	29	31	50	34
	Pears	34	31	35	51	47
	Peaches	31	29	37	42	48
	Plums	27	23	26	28	56
	Walnuts	103	99	108	212	118
	Areca nuts	23	23	25	21	72
	Jackfruits	20	20	19	18	...
	Guavas	24	25	28	34	43
	Papayas	18	24	28	30	47
	Pomegranates	35	39	40	49	42
	Litchies	31	34	34	31	43
	Persimmons	35	35	42	42	64
	Passion fruits	29	28	35	44	43

Source: RNR Statistics Division, Directorate of Services, MoAF

Table 5.14: Imports and Sales of Food Items by Food Corporation of Bhutan, (2013-2017)

(Metric tones)

Commodity	2013	2014	2015	2016	2017
Imports					
Rice	7,435.2	7,216.78	9,027.22	8,733.83	8,646.00
Wheat	55.0	...	0.00	0.00	0.00
Sugar	2,634.0	696.31	1,257.71	1,220.60	1,245.95
Salt	732.8	703.19	795.75	772.10	796.23
Edible Oil	1,573.2	1,448.64	1,411.52	1,618.28	1,342.14
Pulses	511.1	256.52	413.46	324.90	350.00
Maida	373.3	472.50	652.44	573.63	694.32
Atta	299.3	217.56	266.88	221.80	276.15
Sales					
Rice	7,798.2	7,549.00	8,594.34	8,517.88	8,140.99
Wheat	69.4	3.00	0.00	0.00	0.00
Sugar	2,002.4	969.58	1,148.88	1,217.93	1,187.98
Salt	722.1	689.12	785.39	725.81	757.22
Edible Oil	1,458.0	1,554.34	1,518.48	1,567.30	1,278.66
Pulses	433.0	350.17	444.70	337.17	304.24
Maida	383.5	472.79	609.35	594.65	686.26
Atta	281.1	227.68	242.26	232.14	267.09

Source: Food Corporation of Bhutan, Phuentsholing.

Table 5.15: Quantity of Agricultural Produce Handled by Food Corporation of Bhutan, (2013-2017)

(Metric tones)

Commodity	2013	2014	2015	2016	2017
Potatoes	26,028.2	26,345.58	22,597.24	26,127.07	25,687.38
Vegetables	2,930.9	2,923.39	3,841.41	3,603.58	4,104.04
Apples	51.7	24.87	28.84	13.90	28.26
Oranges	3,176.1	2,112.97	1,853.71	791.26	667.38
Cardamom	0.1	0.00	0.00	0.00	0.00
Ginger	412.5	297.25	347.53	501.42	587.40
Garlic	0.1	0.15	0.07	0.86	0.00
Arecanut	213.3	232.33	437.94	378.86	485.13
Supari(dried doma)	0.0	0.00	0.00	0.00	0.00
Dry chili	0.0	0.00	0.00	0.00	0.00
Kidney bean(rajma)	9.6	10.22	8.65	12.89	6.30
Soya bean	14.4	7.20	8.27	0.42	1.38
Pulses	0.0	17.42	0.00	0.00	0.00
Mustard	0.0	0.00	0.00	0.00	0.00
Pipla (wild)	0.0	0.00	0.00	0.00	0.00
Lechi	0.0	0.00	0.00	0.00	0.00
Lemon	1.1	0.65	0.36	0.03	0.00
Apricot	0.0	0.02	0.00	0.02	0.00
Peach	0.2	1.40	2.08	1.24	1.35
Plum	5.1	1.80	1.20	0.63	0.61
Pear	0.1	0.97	0.18	0.09	0.59
Dry bean	0.0	0.00	0.00	0.00	0.00
Cordycepts	0.0	0.00	0.00	0.00	0.00

Source: Food Corporation of Bhutan, Phuentsholing.

CHAPTER 6 ENVIRONMENT

The conservation of environment is one of the four pillars of Bhutan's development philosophy of Gross National Happiness (GNH). Accordingly the Royal Government of Bhutan (RGoB) has been putting constant effort in protecting the environment and the priority has been in the sustainable use of natural resources in all its policies, plans and programs.

This chapter presents statistics which are related to environment. The statistics presented here are not so comprehensive particularly from the point that some of the statistics are already presented under other chapters. However, the statistics collected and presented in this chapter are organized based on the broad Framework for Development of Environmental Statistics (FDES) provided by the United Nations Statistics Division. The six components of FDES, namely, environmental conditions & quality, environmental resources & their use, emissions, residuals & waste, extreme events & disasters, human habitat & environmental health, environmental protection, management & engagement have been used to gather statistics from different sources.

The chapter on Environment Statistics gives a general statistics on atmosphere, climate & weather, hydrographic characteristics, geological & geographic information, land cover, biodiversity and forest. It also gives statistics on extraction & trade of mineral, production & use of energy, land use, timber resources & their use, crops, livestock, water resources, emissions of greenhouse gases, occurrence & impact of natural extreme events & disasters, urban & rural population, water & sanitation, other urban habitat concerns and government environmental protection & resource management expenditures.

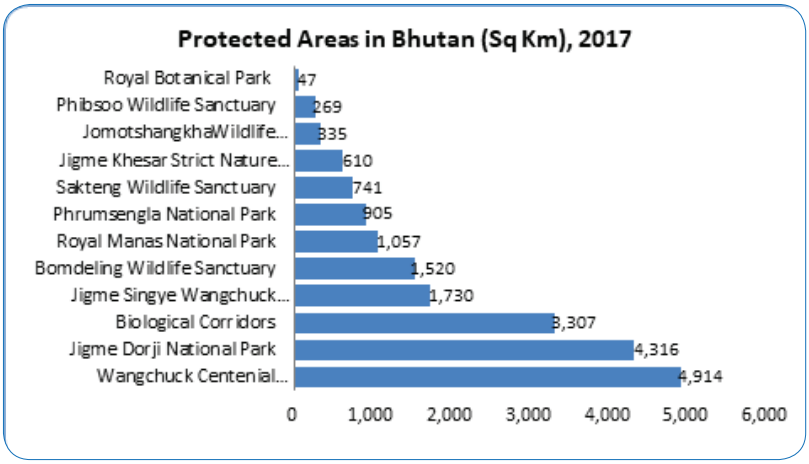


Table 6.1: Area of Land-Use and Vegetation by Types, Bhutan, 2017

Land Cover Class	Area (Hacter)	Area (Percent)
Alpine Scrubs	130,097.72	3.39
Built up	7,457.03	0.19
Cultivated Agriculture	105,682.43	2.76
Chhuzhing	31,891.87	
Kamzhing	68,260.64	
Orchards	5,529.92	
Forests	2,717,161.64	70.77
Bluepine	101,155.06	
Broadleaf	1,763,899.46	
Chirpine	101,537.45	
Fir	230,983.99	
Mixed Conifer	519,585.68	
Landslides	3,730.22	0.10
Meadows	96,273.61	2.51
Moraines	14,393.94	0.37
Non Built up	595.89	0.02
Rocky Outcrops	119,754.16	3.12
Scree	39,701.39	1.03
Shrubs	374,032.56	9.74
Snow and Glacier	205,343.63	5.35
Water Bodies	25,175.78	0.65
Lake	6,252.58	
Rivers	18,923.20	
Total	**3,839,400.00**	**100.00**

Source: Land Use and Land Cover of Bhutan 2016, GIS Section, FRMD, MoAF, Thimphu.

Table 6.2: Area Proportion as Percentage of Total Dzongkhag Area by Type of Land Cover, Bhutan, 2017

Dzongkhag/ LULC Class	Forest	Cultivated Agriculture	Meadows	Alpine Shurbs	Shrubs	Water Bodies	Snow & Glacier	Build up	Non Build up	Landslides	Morianes	Rocky Outcrops	Scree	Total
Bumthang	51.79	1.26	3.76	9.16	12.75	0.69	10.82	0.17	...	...	0.76	5.63	3.21	100
Chhukha	89.26	4.22	1.41	0.10	3.36	0.74	...	0.45	0.02	0.19	...	0.25	...	100
Dagana	89.14	4.34	1.32	0.48	3.06	0.93	...	0.06	...	0.17	...	0.50	...	100
Gasa	19.60	0.15	3.54	8.17	22.41	0.74	22.14	0.01	...	0.02	3.03	16.29	3.91	100
Haa	66.67	0.91	5.03	2.29	15.96	0.36	0.21	0.14	...	0.01	...	7.43	0.98	100
Lhuentse	64.79	1.31	1.15	4.05	9.35	0.41	16.75	0.06	...	0.04	0.34	1.49	0.25	100
Monggar	91.35	3.41	0.38	0.02	4.05	0.46	...	0.13	...	0.19	...	...	...	100
Paro	52.00	4.26	9.97	4.28	22.70	0.41	1.49	0.47	0.03	...	...	2.95	1.44	100
Pema Gatshel	90.82	3.63	0.01	...	4.16	0.64	...	0.20	0.05	0.27	...	0.22	...	100
Punakha	83.63	4.27	0.44	3.26	5.16	0.74	1.99	0.27	...	0.01	...	0.23	...	100
Samdrup Jongkhar	90.75	2.95	0.26	0.01	4.70	0.92	...	0.10	0.02	0.20	...	0.09	...	100
Samtse	81.42	11.39	0.19	0.01	4.35	1.64	...	0.24	0.12	0.48	...	0.16	...	100
Sarpang	89.58	4.90	0.01	0.04	3.06	1.81	...	0.27	0.01	0.27	0.42	0.04	...	100
Thimphu	40.04	0.96	10.31	7.54	22.35	0.26	5.49	0.78	0.05	...	...	5.33	6.48	100
Trashigang	79.15	4.51	3.24	4.29	7.95	0.34	0.09	0.29	...	0.11	...	0.04	...	100
Trashi Yangtse	69.97	2.43	0.57	3.19	11.47	0.60	11.47	0.05	...	0.02	...	0.25	0.07	100
Trongsa	85.59	1.42	2.48	4.42	4.65	0.24	0.56	0.27	...	0.07	...	0.28	0.03	100
Tsirang	87.50	9.03	0.09	0.02	2.18	0.68	...	0.11	...	0.04	...	0.34	...	100
Wangdue Phodrang	66.07	1.46	3.02	4.40	11.65	0.50	6.98	0.14	0.03	0.01	0.31	4.73	0.71	100
Zhemgang	94.17	1.44	0.03	0.53	2.69	0.69	0.11	0.05	...	0.15	...	0.12	...	100
Bhutan	**1483.29**	**68.25**	**47.21**	**56.26**	**178.01**	**13.80**	**78.10**	**4.26**	**0.33**	**2.25**	**4.86**	**46.37**	**17.08**	**2000**

Source: Land Use and Land Cover of Bhutan 2016, GIS Section, FRMD, MoAF, Thimphu.

Table 6.3: Area Proportion as Percentage of Total Country Area by Type of Land Cover, Bhutan, 2010

Dzongkhag	Forest Areas	Agriculture Areas	Meadows	Shrubs	Water Bodies	Snow Cover	Others	Total
Bumthang	3.62	0.08	0.74	0.88	0.05	0.84	0.75	6.95
Chhukha	4.20	0.24	0.09	0.23	0.05	0.04	0.05	4.90
Dagana	3.91	0.20	0.02	0.22	0.04	0.07	0.04	4.49
Gasa	2.10	0.01	0.64	1.61	0.05	2.07	1.51	8.01
Haa	3.17	0.07	0.41	0.90	0.02	0.23	0.06	4.86
Lhuentse	4.50	0.15	0.20	0.88	0.03	0.93	0.63	7.32
Monggar	4.64	0.15	0.02	0.21	0.02	0.00	0.03	5.07
Paro	1.98	0.17	0.18	0.73	0.01	0.13	0.05	3.26
Pema Gatshel	2.33	0.14	0.00	0.12	0.03	0.00	0.04	2.66
Punakha	2.19	0.14	0.04	0.29	0.01	0.21	0.00	2.89
Samdrup Jongkhar	4.25	0.21	0.01	0.29	0.07	0.00	0.06	4.89
Samtse	2.65	0.45	0.03	0.13	0.09	0.01	0.04	3.40
Sarpang	3.82	0.17	0.00	0.22	0.10	0.00	0.03	4.34
Thimphu	1.95	0.06	0.47	0.97	0.01	0.69	0.40	4.55
Trashigang	4.69	0.17	0.19	0.57	0.02	0.08	0.03	5.74
Trashi Yangtse	2.68	0.08	0.05	0.51	0.02	0.43	0.01	3.77
Trongsa	4.14	0.06	0.14	0.29	0.01	0.08	0.03	4.75
Tsirang	1.45	0.12	0.00	0.05	0.02	0.00	0.01	1.66
Wangdue Phodrang	6.67	0.15	0.73	0.96	0.02	1.62	0.06	10.21
Zhemgang	5.52	0.11	0.14	0.38	0.05	0.01	0.08	6.29
Bhutan	**70.46**	**2.93**	**4.10**	**10.43**	**0.72**	**7.43**	**3.92**	**100**

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 6.4: Forest Area Under Tree Cover by Dzongkhags, Bhutan, 2010

Dzongkhag	Total area (Sq.km)	Area under tree cover (Hectares)						Total	
		Blue Pine Forest	Broadleaf Forest	Broadleaf with Conifer Forest	Chir Pine Forest	Fir Forest	Mixed Conifer Forest	Tree Cover Area	Percent
Bumthang	2,667.76	25,641.07	15.81	3.58	0.00	42,221.09	70,996.72	141,546	3.687
Chhukha	1,879.32	3,141.41	138,283.06	965.07	0.00	237.87	18,565.79	163,073	4.247
Dagana	1,722.57	0.00	134,261.77	0.00	1,437.31	0.00	14,261.94	151,684	3.951
Gasa	3,075.08	0.00	11,055.45	0.00	0.00	40,663.25	29,005.95	83,800	2.183
Haa	1,864.75	5,548.56	62,770.23	0.00	0.00	17,436.28	36,096.10	123,716	3.222
Lhuentse	2,808.53	225.13	84,718.08	10,589.62	11,016.82	36,660.66	29,468.26	175,487	4.571
Monggar	1,944.95	367.66	118,314.63	611.45	31,959.83	7,125.33	19,748.86	180,073	4.690
Paro	1,250.71	22,077.19	733.41	130.92	0.00	12,681.74	40,546.97	77,421	2.016
Pema Gatshel	1,022.14	0.00	84,395.15	284.53	4,939.06	0.00	21.38	90,662	2.361
Punakha	1,109.81	0.00	57,436.39	233.71	8,105.86	564.85	17,864.74	85,315	2.222
Samdrup Jongkhar	1,877.93	513.45	159,849.69	1,697.47	679.40	88.38	452.94	165,159	4.302
Samtse	1,305.18	0.00	99,492.62	781.32	0.00	0.00	1,560.23	103,139	2.686
Sarpang	1,666.15	0.00	143,233.39	0.00	0.00	89.38	3,288.58	148,278	3.862
Thimphu	1,748.58	17,085.84	645.58	285.37	0.00	12,927.56	44,004.00	76,697	1.998
Trashigang	2,204.21	0.00	94,362.51	112.41	19,916.81	0.00	65,586.72	182,183	4.745
Trashi Yangtse	1,449.26	393.67	55,668.78	0.00	3,031.27	0.00	43,649.87	104,193	2.714
Trongsa	1,822.13	408.24	87,679.29	9,293.31	3,284.54	3,646.29	54,487.06	160,621	4.183
Tsirang	638.29	0.00	48,805.68	0.00	2,685.97	0.00	4,294.55	56,424	1.470
Wangdue Phodrang	3,920.33	4,621.78	122,736.86	0.00	17,087.78	2,274.00	109,246.75	259,888	6.769
Zhemgang	2,416.20	0.00	184,498.07	6,483.57	3,521.87	6,591.58	10,816.16	214,327	5.582
Bhutan	**38,393.88**	**80,024.00**	**1,688,956.45**	**31,472.33**	**107,666.52**	**183,208.26**	**613,963.57**	**2,743,685.01**	**70.46**

Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.

Table 6.5: Monthly Maximum and Minimum Average Temperature by Dzongkhag, Bhutan, 2017

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Chamkhar, Bumthang	Max	12.5	14.2	14.2	18.2	20	21.8	22.8	22.8	22	19.9	16.1	14.9	18.3
	Min	-4.4	0.3	2.6	7.1	10.5	13.4	14.9	15.1	13.9	9.3	2.3	-1.7	6.9
	Ave	4.05	7.25	8.4	12.65	15.25	17.6	18.85	18.95	17.95	14.6	9.2	6.6	12.6
Phuntsholing CST, Chhukha	Max	28.6	26.1	28.7	30.9	30.6	30.2	29.1	29.5	30	29.2	28.1	26.2	28.9
	Min	21.5	20.7	15.2	18.5	19.6	22.2	22	22.3	21.8	19.5	15.4	13.4	19.3
	Ave	25.05	23.4	21.95	24.7	25.1	26.2	25.55	25.9	25.9	24.35	21.75	19.8	24.1
Dagana	Max	13.1	14.1	14.8	18.2	25.1	25.5	25.2	25.1	25.8	25.7	24	22.5	21.6
	Min	2	3.9	4.8	9.1	13.4	15.3	16	16.3	15.9	13	8.5	7	10.4
	Ave	7.55	9	9.8	13.65	19.25	20.4	20.6	20.7	20.85	19.35	16.25	14.75	16.0
Gasa	Max	8.9	13.1	15	15.8	16	18.2	18.7	19.1	19.9	17.3	14.6	12	15.7
	Min	-3.6	-1.3	1.3	4.7	7.3	10.6	11.6	12.3	11	6.4	1	-1	5.0
	Ave	2.65	5.9	8.15	10.25	11.65	14.4	15.15	15.7	15.45	11.85	7.8	5.5	10.4
Haa	Max	10.9	13.1	11.6	15.7	17.4	20.3	19.9	19.9	18.9	16.5	13.9	14.3	16.0
	Min	-6.6	-3	0.2	4.4	8.5	12.2	14.1	14.1	12.3	6.6	-2.7	-4.8	4.6
	Ave	2.15	5.05	5.9	10.05	12.95	16.25	17	17	15.6	11.55	5.6	4.75	10.3
Tangmachu, Lhuentse	Max	22.2	23.6	24.2	28.9	30.1	31.6	32.2	31.9	31.4	29.8	24.9	23.2	27.8
	Min	4.5	10.8	9.9	14.2	16.5	19.5	19.7	19.9	19.7	15.5	11.0	...	14.6
	Ave	13.3	17.2	17.1	21.5	23.3	25.6	25.9	25.9	25.6	22.6	17.9	...	21.4
Mongar	Max	17.9	18.9	19.6	22.9	25.7	26.3	26.8	26.1	25	24.1	20	18	22.6
	Min	6.3	8.5	9.3	13.3	15.7	18	18.6	18.8	18.4	14.9	10.1	8.9	13.4
	Ave	12.1	13.7	14.45	18.1	20.7	22.15	22.7	22.45	21.7	19.5	15.05	13.45	18.0
Punakha	Max	23.3	25	25.4	29.9	31	33.3	31.9	31.5	31.4	29.9	28	24.9	28.8
	Min	4.5	8.8	11.1	15.6	19.5	22	21.7	21.4	21.7	19	9.7	7.9	15.2
	Ave	13.9	16.9	18.25	22.75	25.25	27.65	26.8	26.45	26.55	24.45	18.85	16.4	22.0
Paro	Max	13.4	16.1	15.2	20.2	21.3	24.7	24.2	24.5	24.2	22.3	18.6	17.7	20.2
	Min	-3.1	-0.4	2.3	5.5	9.3	12.9	14.3	14.1	13.6	9	0	-2.5	6.3
	Ave	5.15	7.85	8.75	12.85	15.3	18.8	19.25	19.3	18.9	15.65	9.3	7.6	13.2
Pemagatshel	Max	17.3	18.6	18.4	21.9	24.1	25.1	24.9	24.6	24.7	24.2	21.2	19.4	22.0
	Min	5.1	7.6	9.2	13.2	16.3	18	18.7	18.7	18.3	14.8	9.1	8.2	13.1
	Ave	11.2	13.1	13.8	17.55	20.2	21.55	21.8	21.65	21.5	19.5	15.15	13.8	17.6

Deothang, Samdrup Jongkhar	Max	22.5	23.6	24	25.6	27.2	27.8	28.8	27.9	27.8	27.1	25.6	23.4	25.9
	Min	10.9	12.8	13.7	16.9	19	20.3	20.9	21.3	20.6	18.1	14.1	12	16.7
	Ave	16.7	18.2	18.85	21.25	23.1	24.05	24.85	24.6	24.2	22.6	19.85	17.7	21.3
Sipsu, Samtse	Max	26.4	28.2	27.5	29.9	30.6	30.5	29.4	30	30.5	30.8	28.8	26.5	29.1
	Min	11.7	14.2	14.3	19.3	19.9	22.3	21.6	22.8	22	20.6	16.4	14	18.3
	Ave	19.05	21.2	20.9	24.6	25.25	26.4	25.5	26.4	26.25	25.7	22.6	20.25	23.7
Bhur, Sarpang	Max	24.5	26	25.7	27.1	29	29	29.7	28.9	28.6	29	28	25.9	27.6
	Min	15	17.4	18.2	21	22.8	23.7	24.6	24.1	23.4	22.2	18.3	16.6	20.6
	Ave	19.75	21.7	21.95	24.05	25.9	26.35	27.15	26.5	26	25.6	23.15	21.25	24.1
Simtokha, Thimphu	Max	16.3	18.1	18.4	22.9	23.8	27.4	26.6	28	27.9	24.6	20.6	19.4	22.8
	Min	-3.8	0.9	3.2	7.3	10.3	14	15.3	15.1	14	9.4	0.6	-2.3	7.0
	Ave	6.25	9.5	10.8	15.1	17.05	20.7	20.95	21.55	20.95	17	10.6	8.55	14.9
Kanglung, Trashigang	Max	18.7	20.2	21.5	25.6	26.9	28	27.6	27.3	27.1	25.9	21.9	19.9	24.2
	Min	2.8	5.1	5.7	10.5	12.7	15.3	16	16	15.1	12.2	6.4	5.4	10.3
	Ave	10.75	12.65	13.6	18.05	19.8	21.65	21.8	21.65	21.1	19.05	14.15	12.65	17.2
Trashi Yangtse	Max	16.4	18.8	19.8	22.6	24.1	25.3	25.3	25.5	25.6	24	19.9	18.5	22.2
	Min	-0.4	3.7	5.8	9	11.9	15.4	16.8	17.3	16.2	11.4	5.1	2.9	9.6
	Ave	8	11.25	12.8	15.8	18	20.35	21.05	21.4	20.9	17.7	12.5	10.7	15.9
Trongsa	Max	15.3	15.6	16.1	19.6	20.8	22.2	22.2	22.6	22.2	21	17.6	16.8	19.3
	Min	0.5	4.3	4.9	8.8	11.8	14.7	15.8	16.2	15.5	10.8	4.5	3.5	9.3
	Ave	7.9	9.95	10.5	14.2	16.3	18.45	19	19.4	18.85	15.9	11.05	10.15	14.3
Damphu, Tsirang	Max	15.8	17.5	17.9	21.4	23.2	24.2	24.1	24	24.2	22.9	19.7	18	21.1
	Min	5.5	8	9.1	13.7	16.8	18.9	19.3	19.7	19.3	15.1	9.6	8.1	13.6
	Ave	10.65	12.75	13.5	17.55	20	21.55	21.7	21.85	21.75	19	14.65	13.05	17.3
Wangdue (RNRRC) , Wangdue Phodrang	Max	21.1	22.9	22.4	26.2	29.6	31.2	30.1	30.2	29.6	28.1	26.2	24.4	26.8
	Min	3	8.1	10.3	14.2	17.3	20.7	20.9	21	20.9	16.7	9.1	7.5	14.1
	Ave	12.1	15.5	16.4	20.2	23.4	25.9	25.5	25.6	25.3	22.4	17.6	15.9	20.5
Zhemgang	Max	14.6	15.9	16.2	20.2	22.6	23.3	25.4	25.1	24.1	23.1	...	16.5	20.6
	Min	3.9	6.4	7.2	11.9	15	16.5	17.9	17.3	16.6	13	...	6.1	11.0
	Ave	9.25	11.15	11.7	16.05	18.8	19.9	21.65	21.2	20.35	18.05	...	11.3	15.0

Source :Weather and Climate Services Division, National Center for Hydrology and Meteorology, MoEA,Thimphu.

Table 6.6: Total Monthly Rainfall at Existing Stations in each Dzongkhag, Bhutan, 2017

Dzongkhag	Station	Jan	Feb	Mar	Apr	May
Bumthang	Chamkher	5.4	4.1	62.4	43.0	96.1
Chhukha	Chukha	5.0	17.2	105.5	113.4	170.8
	Phuntsholing CST	4.7	9.0	92.4	325.4	450.9
Dagana	Dagana Dzong	1.8	4.2	51.7	43.2	121.0
	Drujeygang	0.3	15.5	9.0	57.0	86.0
	Sunkosh	1.6	7.8	38.6	50.5	51.4
Gasa	Gasa Katey	1.0	23.6	115.6	141.0	244.5
Haa	Haa Namjeyling	8.1	0.0	67.1	81.3	99.8
Lhuntse	Autsho	17.0	2.6	50.2	26.0	99.8
	Tangmachu	2.0	5.0	48.5	64.7	245.9
Monggar	Monggar	18.0	3.6	57.6	52.6	92.2
Paro	Paro DSC	6.2	0.0	21.7	60.8	51.4
	Betikha	18.0	0.0	433.0	481.0	306.2
Pema Gatshel	Pemagatshel	6.4	35.8	46.2	142.4	85.5
	Dungmin	0.0	0.0	175.0	113.0	65.0
	Yurung	0.0	48.0	29.5	80.9	83.2
Punakha	Punakha Dzong	0.0	0.6	65.4	37.0	63.8
Samdrup Jongkhar	Deothang	5.2	39.8	66.1	262.6	148.3
Samtse	Tendu	4.4	3.6	70.2	142.2	212.0
	Samtse (NIE)	11.0	0.0	200.9	481.2	526.9
	Sibsoo	1.8	5.0	146.6	256.0	690.2
Thimphu	Simtokha	2.6	0.8	60.5	45.4	84.6
	Bhur	7.2	15.7	50.2	153.6	455.8
Trashigang	Kanglung	6.6	10.7	55.4	81.0	104.4
	Thrimshing	2.4	14.8	24.2	58.1	72.8
Trashi Yangtse	Tashi Yangtse	5.9	6.6	60.1	115.2	215.9
Trongsa	Bjizam	1.6	4.8	70.9	119.2	123.0
	Trongsa	6.6	3.9	76.4	62.9	127.6
Tsirang	Damphu	4.6	9.4	34.0	32.6	33.0
Wangdue Phodrang	Wangdue (RNRRC)	0.6	0.6	33.6	22.9	42.0
	Samtengang	0.0	0.0	33.0	12.0	82.0
Zhemgang	Zhemgang	5.2	4.1	84.4	92.2	68.7

Source : Wheather and Climate Services Division, National Center for Hydrology and Meteorology, MoEA,Thimphu.

Month							Annual total rainfall
Jun	Jul	Aug	Sep	Oct	Nov	Dec	
97.1	131.2	139.9	123.5	55.1	80.0	0.0	837.8
154.5	278.6	325.2	198.6	0.0	47.0	0.0	1,415.8
488.6	1,317.7	1,506.9	653.0	129.8	1.0	0.0	4,979.4
135.4	243.8	356.5	160.0	27.9	2.0	0.0	1,147.5
142.8	780.1	457.9	232.3	54.5	0.0	...	1,835.4
83.3	336.7	451.0	174.8	43.2	0.0	0.0	1,238.9
301.8	517.9	581.8	288.3	147.5	65.0	0.4	2,428.4
80.7	197.8	153.4	147.4	22.1	0.7	0.0	858.4
175.4	172.4	194.0	137.2	78.0	2.0	0.0	954.6
101.3	219.7	108.1	108.5	35.8	4.0	...	943.5
121.4	195.0	179.0	193.2	100.2	12.0	0.0	1,024.8
34.1	100.7	68.8	36.5	6.4	0.2	0.0	386.8
241.0	540.0	760.0	420.0	...	...	...	3,199.2
313.4	229.7	391.0	337.2	52.0	10.0	0.0	1,649.6
454.0	297.0	848.0	434.0	64.0	19.0	0.0	2,469.0
345.1	271.7	...	140.6	80.0	0.0	0.0	1,079.0
48.2	195.6	172.7	152.9	45.0	5.2	0.0	786.4
830.6	490.1	787.1	764.0	175.5	12.4	0.0	3,581.7
415.8	886.4	685.1	362.0	54.2	8.0	0.0	2,843.9
387.6	1,451.5	1,281.0	...	504.8	...	0.0	4,844.9
1,087.9	869.1	1,355.8	1,063.0	261.0	232.0	0.0	5,968.4
88.2	162.6	93.3	56.0	11.9	0.8	0.0	606.7
1,075.3	923.7	2,077.8	1,032.0	127.1	11.9	0.0	5,930.3
152.2	210.0	225.8	231.2	37.5	0.8	0.0	1,115.6
179.5	135.7	194.6	129.6	20.6	3.4	0.0	835.7
184.3	235.4	214.6	155.4	46.7	0.0	0.0	1,240.1
120.6	250.2	563.0	97.8	129.0	10.0	0.0	1,490.1
194.0	337.5	371.1	204.3	92.9	90.0	0.0	1,567.2
131.4	513.6	430.0	177.4	29.8	0.0	0.0	1,395.8
62.9	156.0	146.1	82.9	22.0	0.0	0.0	569.6
11.0	257.5	305.0	125.0	110.0	0.0	0.0	935.5
137.6	272.7	354.8	308.4	30.7	0.0	0.0	1,358.8

Table 6.7: Details of Protected Areas in Bhutan, by Year of Establishment, Area and Dzongkhags, Bhutan, 2017

Name of Area	Year of Establishment	Area (Sq. km)	Dzongkhags
National Parks			
Wangchuck Centenial National Park	2008	4,914.00	Gasa, Wangdue, Bumthang, Trongsa & Lhuentse
Jigme Dorji National Park	1995	4,316.00	Punakha, Gasa, Thimphu & Paro
Jigme Singye Wangchuck National Park	1995	1,730.00	Trongsa, Wangdue, Sarpang, Tsirang & Zhemgang
Royal Manas National Park	1965	1,057.00	Sarpang & Zhemgang
Phrumsengla National Park	2000	905.05	Bumthang, Lhuntse, Mongar & Zhemgang
Wildlife Sanctuaries			
Bomdeling Wildlife Sanctuary	1998	1,520.00	Trashiyangtse, Lhuntse & Mongar
Sakteng Wildlife Sanctuary	2003	740.60	Trashigang & Samdrupjongkhar
Phibsoo Wildlife Sanctuary		268.93	Sarpang & Dagana
JomotshangkhaWildlife Sanctuary		334.73	Samdrupjongkhar
Strict Nature Reserves			
Jigme Khesar Strict Nature Reserve		609.51	Haa
Biological Corridors		3,307.14	Haa, Paro, Thimphu, Punakha, Wangdue, Sarpang, Tsirang, Trongsa, Zhemgang, Bumthang, Mongar, Lhuentse, Trashigang & Samdrupjngkhar
Recreational Park			
Royal Botanical Park	2004	47.00	Thimphu
Total		**19,749.96**	

Source: FIMS, FRMD, DoFPS, MoAF, Thimphu

Table 6.8: Wood and Non-Wood Forest Products Supplied by Natural Resources Development Corporation Limited, Bhutan, (2013-2017)

Product Type	2013	2014	2015	2016	2017
Wood Products					
Logs, Urban/Commercial (cft)	1,747,583.00	1,758,993.00	1,903,067.00	1,466,420.00	1,069,722.53
Logs, Rural (cft)	292,037.00	112,936.00	51,850.00	40,622.93	15,309.29
Logs, Dzongs/Lhakhangs Construction (cft)				165,326.21	196,765.57
Swan timber (cft)				136,483.54	176,734.09
Poles (cft)				56,148.55	...
Post (Nos)				5,869.83	14,785.00
Hakaries (cft)				1,058.89	14,844.04
Non-Wood Products					
Sand	375,360.91	303,381.42	330,132.36	433,799.95	526,490.00
Stone	3,358,656.92	3,218,789.58	3,008,570.04	5,447,635.11	5,378,333.00
Stone aggregates from the crushing plant	944,640.01	1,450,665.65	1,901,010.39	1,423,920.95	1,004,746.00
Stone Chips (Others)				1,423,920.95	...
Stone Chips (Phubana)				144,821.88	...
Firewood	32,866.91	35,988.34	40,490.66	38,184.81	34,452.00
Woodchips	12,517.07	10,297.18	8,004.91	2250.68 (MT)	6621.76 (MT)
Briquettes				266,580.00	185,340.00

Source: NRDCL, MoAF, Thimphu.

Table 6.9: Supply of Timber by Divisions by Product Type, Bhutan, 2017

Product Type	Bumthang	Dagana	Gedu	Mongar	Paro	Pema Gatshel	
Drashing	2,561.00	3,383.00	2,528.00	1,896.00	2,782.00	1,104.00	
Shinglep	...	...	...	...	...	...	
Cham	1,918.00	1,516.00	472.00	1,449.00	1,700.00	33.00	
Tsim	468.00	293.00	3,169.00	7.00	81.00	...	
Dangchu	4.00	12.00	...	10.00	26.00	210.00	
Swan timber	1,698.00	389.00	...	63.00	142.00	171.00	
Logs	769.00	1,013.00	42.00	1,534.00	13,180.00	32.00	
Bakals	7,131.00	143.00	4.00	27.00	1.00	4.00	
Firewood	9,717.00	8,575.00	14,575.00	12,258.00	1,300.00	652.00	
Lops and Tops	346.00	14.00	558.00	723.00	544.00	...	
Offcuts							
Poles	4,143.00	1,587.00	1,410.00	469.00	220.00	181.00	
Posts	2,377.00	390.00	367.00	552.00	133.00	1.00	
Driftwood	...	...	...	...	...	...	
Woodchips	...	...	...	...	...	...	
Mushroom Billets	...	...	...	20.00	210.00	...	
Hakaries	...	...	...	...	...	...	
Others	...	...	...	...	...	...	
Total	**31,132.00**	**17,315.00**	**23,125.00**	**19,008.00**	**20,319.00**	**2,388.00**	

Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu

(M3)

	Samtse	Sarpang	Thimphu	Trashigang	Tsirang	Wangdue	Zhemgang	S/Jongkhar
	3,659.00	651.00	3,597.00	2,880.00	7,468.00	6,223.00	1,262.00	785.00
	...	...	...	...	...	...	...	...
	15.00	20.00	2,010.00	523.00	0	2,173.00	51.00	1.00
	4.00	...	406.00	72.00	0	155.00	45.00	...
	3.00	...	18.00	...	...	3.00	...	...
	...	849.00	140.00	54.00	213.00	25.00	79.00	64.00
	...	3,712.00	1,153.00	197.00	153.00	1,446.00	...	138.00
	3.00	3.00	21.00	616.00	8.00	92.00	...	7.00
	3,830.00	792.00	5,698.00	9,600.00	3,051.00	8,545.00	2,233.00	595.00
	360.00	...	264.00	372.00	...	1,804.00	12.00	...
	70.00	25.00	3,008.00	418.00	11.00	466.00	609.00	284.00
	651.00	197.00	1,035.00	1,226.00	15.00	977.00	621.00	11.00
	...	...	...	...	...	...	...	...
	...	...	8.00	...	...	1,990.00	79.00	...
	13.00	...	34.00	468.00	...	60.00	...	...
	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...
	8,608.00	**6,249.00**	**17,392.00**	**16,426.00**	**10,919.00**	**23,959.00**	**4,991.00**	**1,885.00**

Table 6.10: Supply of Timber by Parks and Wildlife Sancturies by Product Type, Bhutan, 2017

(M3)

Product Type	BWS	JDNP	JSWNP	JWS	PNP	PWS	RMNP	SWS	WCNP
Drashing	383.00	946.00	965.00	13.00	225.00	69.00	125.00	10,616.00	270.00
Shinglep	...	...	...	...	502.00	...	...	...	...
Cham	238.00	836.00	378.00	...	1,151.00	...	117.00	...	1,337.00
Tsim	27.00	130.00	50.00	...	63.00	...	...	54.00	69.00
Dangchung	...	48.00	7.00	...	76.00	...	...	...	31.00
Swan timber	6.00	54.00	2.00	32.00	152.00	1.00	...	2.00	14.00
Logs	520.00	45.00	...	94.00	244.00	19.00	...	...	20.00
Bakals	7.00	...	...	...	91.00	...	...	313.00	...
Firewood	3,387.00	3,072.00	1,174.00	648.00	2,304.00	59.00	686.00	3,142.00	1,851.00
Hakaries	...	...	...	2.00	...	...	...	...	...
Lops and Tops	...	12.00	...	...	40.00	...	...	2.00	8.00
Offcuts	...	...	...	...	...	...	...	...	...
Poles	65.00	57.00	18.00	3.00	213.00	21.00	3.00	427.00	47.00
Posts	76.00	262.00	180.00	13.00	995.00	56.00	103.00	789.00	454.00
Driftwood	...	...	...	...	...	...	...	...	...
Mushroom Billets	...	0	...	...	...	...	...	...	...
Others	...	...	...	...	...	...	...	...	...
Total	**4,709.00**	**5,462.00**	**2,774.00**	**805.00**	**6,056.00**	**225.00**	**1,034.00**	**15,345.00**	**4,101.00**

Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu

Table 6.11: Quantity of Timber Supplied and Royalties Realized by Divisions and Parks, Bhutan, (2013-2014 to 2017)

Division/Park	2013-2014	Nu. in Millions	2014-2015	Nu. in Millions	2016	Nu. in Millions	2017	Nu. in Millions
Bumthang	4,041	0.56	6,757	0.45	20,348.00	1.78	31,131.00	1.50
Dagana	...	...	...	...	27,987.97	0.47	17,316.00	0.34
Gedu	4,903	0.11	7,835	0.47	21,199.40	0.86	23,124.00	0.36
Mongar	10,290	0.80	6,262	0.21	19,461.28	0.54	19,007.00	0.94
Paro	7,299	0.69	9,278	0.28	8,408.65	0.48	20,318.00	0.53
Pemagatshel	...	...	...	...	...	...	2,389.00	0.15
Samdrup Jongkhar	4,283	0.14	3,867	0.42	3,837.68	0.52	1,884.00	0.19
Samtse	2,815	1.53	6,051	1.06	3,496.46	0.48	8,609.00	0.30
Sarpang	3,282	0.67	8,542	11.88	3,160.39	0.33	6,250.00	0.34
Thimphu	4,498	0.14	5,495	0.15	24,732.66	0.29	17,393.00	0.45
Trashigang	4,914	1.61	14,287	0.57	13,507.82	0.64	16,426.00	0.79
Tsirang	3,362	0.83	6,237	0.33	15,330.49	0.31	10,919.00	0.24
Wangdue	12,174	0.88	22,239	1.96	19,911.70	0.79	23,960.00	0.73
Zhemgang	2,080	0.22	3,614	0.16	5,807.49	0.22	4,991.00	0.20
Bumdeling Wildlife Sanctury	872	0.59	11,623	0.18	2,262.74	0.10	4,709.00	0.21
Jigme Dorji National Park	7,238	0.35	3,322	0.24	3,566.23	0.34	5,463.00	0.23
Jigme Singye Wangchuck National Park	400	0.80	973	0.15	2,299.64	0.08	2,774.00	0.08
Phrumshengla National Park	...	...	...	...	17,827.20	0.37	6,056.00	0.32
Phibsoo Wildlife Sanctuary	...	...	...	...	111.90	0.01	226.00	0.06
Royal Manas National Park	394	0.95	471	0.18	714.24	0.06	1,033.00	0.03
Sakteng Wildlife Sanctury	3,658	17.02	3,543	0.10	23,902.60	0.23	15,347.00	0.21
Thrumshingla National Park	2,332	1.29	4,845	0.18	...	...	...	...
Wangchuck Centinial National Park	439	0.78	4,572	0.14	1,491.82	0.05	4,101.00	0.14
Jomotsangkha Wildlife Sanctuary	...	...	...	...	...	...	805.00	0.15
Total	**79,276**	**29.94**	**129,812**	**19.11**	**239,366.36**	**8.95**	**244,231.00**	**8.49**

Note: From 2016 onwards, the data are supplied on calender year.
Source: RNR Statistics Division, Directorate of Services, MoAF

Table 6.12: Non-Wood Forest Products Supplied and Revenue Generated Through Royalty (Nu.) , Bhutan, 2017

Product Type	Units	Qty Supplied	Royalty Realised (Nu.)
Aconitum	Truckload	1	20.00
	KGM	150	3,000.00
Bamboo	Bundle	1,118	7,830.00
	Truckload	727	2,098.00
	NMB	170,120	119,288.00
	M3	1	110.00
	Head Load	215	208.00
	KGM	150	300.00
Cane/ Cane Shoot	Bundle	15	60.00
	Truckload	8	44.00
	NMB	9,304	6,796.00
	Headload	2,281	9,448.00
Charcoal	Truckload	1	40.00
	KGM	600,770	1,429.00
Cordyceps	NMB	41	8,200.00
	KGM	241	2,055,372.00
Daphne Bholua (Bark)	KGM	4,860	3,010.00
Hippophae rhar	KGM	100	1,200.00
Incense	Truckload	20	674.00
	KGM	15,747	50,164.00
Knema tenuine	NMB	100	1,000.00
Leaf Litters	Truckload	33	1,980.00
Leaf Mould	Truckload	997	61,430.00
	M3	16	200.00
Lemon Grass Oil	LTR	319	1,595.00
Mushrooms	NMB	4,300	4,300.00
	KGM	685	4,520.00
Orchid	Bundle	40	1,960.00
Paris Polyphylla	KGM	482	7,288.00
Persia	KGM	200	2,010.00
Picorrhiza	KGM	100	1,200.00
Pine Needles	Truckload	54	1,856.00
	Headload	458	994.00
Piper spp	KGM	1,955	36,700.00
Pouzolzia	KGM	3,397	6,794.00
Resin	KGM	3,029	12,116.00

cont...

Table 6.12 cont...

Product Type	Units	Qty Supplied	Royalty Realised (Nu.)
Rhododendron	KGM	865	1,730.00
Rubia	KGM	31,761	515,368.00
Saccharum	Headload	148	15.00
Sand	Truckload	26,877	1,106,764.00
	M3	2,463	15,406.00
Sapindus	Truckload	2	80.00
Soil	Truckload	2,211	139,030.00
	KGM	2,255	4,600.00
Star Anise	KGM	2,770	5,540.00
Stone Boulders	Truckload	86,143	3,573,203.00
Swertia chirata	KGM	457	10,968.00
Terminalia	Truckload	2	80.00
Wildlings	Truckload	16	640.00
	NMB	6,389	7,044.00
Wood burrs	NMB	420	4,600.00
Others	Bundle	10	40.00
	Truckload	17	569.00
	NMB	2,303	4,685.00
	Headload	672	1,998.00
	KGM	560	3,485.00
Grand Total			**7,811,079.00**

Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu

Table 6.13: Distribution of Geographical Area by Agro-Ecological Zones, Bhutan, 2010

Dzongkhag	Total Area (Sq.km)	Distribution of areas (Sq.km) by agro-ecological zones					
		Wet Subtropical (100-600)	Humid Subtropical (600-1200)	Dry Subtropical (1200-1800)	Warm Temperate (1800-2600)	Cool Temperate (2600-3600)	Alpine (3600-7500)
Bumthang	2,666.89	0.0	0.0	0.0	1.3	36.1	62.6
Chhukha	1,879.55	7.2	17.8	21.3	27.1	23.7	3.0
Dagana	1,712.70	15.8	19.0	19.1	25.7	16.6	4.0
Gasa	2,951.07	0.0	0.0	0.1	2.2	9.8	87.9
Haa	1,904.65	0.0	2.4	6.9	15.0	35.1	40.6
Lhuentse	2,850.76	0.0	1.0	6.9	20.6	30.6	40.9
Monggar	1,940.26	3.3	17.8	27.0	28.7	21.8	1.5
Paro	1,286.93	0.0	0.0	0.0	13.6	42.2	44.3
Pema Gatshel	1,021.94	20.9	41.7	28.1	9.3	0.0	0.0
Punakha	1,109.57	0.0	0.2	17.6	36.7	29.4	16.2
Samdrup Jongkhar	1,876.62	22.9	23.0	25.6	20.8	7.3	0.4
Samtse	1,256.09	20.9	27.7	22.2	21.0	7.3	0.7
Sarpang	1,655.04	25.9	25.1	24.7	21.2	2.8	0.3
Thimphu	1,791.73	0.0	0.0	0.0	6.2	30.2	63.5
Trashigang	2,197.65	0.1	4.4	14.8	29.2	32.7	18.8
Trashi Yangtse	1,447.35	0.0	2.5	6.8	24.1	34.4	32.2
Trongsa	1,813.71	0.0	2.7	10.2	28.2	41.4	17.5
Tsirang	637.83	7.4	31.6	30.7	22.7	7.0	0.6
Wangdue Phodrang	3,977.28	0.2	3.2	8.9	19.0	32.4	36.4
Zhemgang	2,416.48	11.9	29.6	26.8	19.5	9.9	2.3
Bhutan	**38,394.09**	**5.6**	**10.2**	**13.1**	**18.6**	**23.9**	**28.6**

Source: Bhutan RNR Statistics 2016, MoAF

Table 6.14: Mineral Production by Type, Bhutan, (2013-2017)

Minerals	2013	2014	2015	2016	2017
Dolomite (metric tonnes)	1,740,015.95	2,040,690.96	2,662,309.68	2,367,659.00	2,536,693.31
Lime stone (metric tonnes)	1,006,234.63	1,122,825.09	850,431.17	1,257,101.00	1,235,161.67
Gypsum (metric tonnes)	351,420.64	414,147.54	389,364.80	317,597.00	328,127.99
Coal (metric tonnes)	77,743.58	121,890.58	85,164.45	117,783.00	161,526.74
Marble (metric tonnes)	60,708.49	61,921.10	97,647.84	75,031.00	96,567.10
Slate (square feet)	...	...	...	...	...
Quartzite (metric tonnes)	90,909.28	83,907.14	79,818.50	92,770.00	175,501.08
Talc (metric tonnes)	9,584.24	12,601.37	5,807.27	2,261.00	1,293.20
Stone (metric tonnes)	38,542.28	1,474,394.94	2,203,065.41	3,414,215.00	3,828,254.00
Granite (metric tonnes)	6,463.81	4,362.21	3,889.05	...	26,364.04
Phyllite (metric tonnes)	13,818.40	40,076.71	40,417.25	41,800.00	61,910.29
Calc Tufa (metric tonnes)	...	...	...	...	...
Iron Ore (metric tonnes)	20,505.81	18,997.37	43,201.96	28,065.00	32,974.37
Clay	15,165.66	10,208.95	...	...	...

Source: Department of Geology and Mines, MoEA, Thimphu.

Table 6.15: Mineral Production by Type and Use, Bhutan, (2014-2017)

Minerals	2014			2015	
	Export	Domestic Use	Total	Export	Domestic Use
Dolomite (metric tonnes)	2,004,877	35,814	2,040,691	2,495,580	166,730
Lime stone (metric tonnes)	16,406	1,106,419	1,122,825	24,579	825,853
Gypsum (metric tonnes)	368,411	45,736	414,148	343,684	45,681
Coal mines (metric tonnes)	26,574	95,317	121,891	5,403	79,762
Marble (square feet) [1]	39,850	22,071	61,921	14,543	83,105
Slate (square feet) [1]	...	...	...	...	...
Quartzite (metric tonnes)	2,228	81,679	83,907	2,120	77,699
Talc (metric tonnes)	6,917	5,685	12,601	3,470	2,338
Stone (metric tonnes	28,340	1,446,055	1,474,395	104,482	2,098,584
Granite (square feet) [1]	0.00	4,362	4,362	-	63,438
Phyllite (metric tonnes)	12	40,065	40,077	36,592	3,826
Calc Tufa (metric tonnes)	...	...	...	...	...
Iron Ore (metric tonnes)	0.00	18,997	18,997	...	43,202
Clay	0.00	10,209	10,209	...	...

Source: Department of Geology and Mines, MoEA, Thimphu.

		2016			2017		
	Total	Export	Domestic Use	Total	Export	Domestic Use	Total
	2,662,310	2,283,725	83,934	2,367,659	2,546,210	46	2,546,256
	850,431	1,244,999	12,102	1,257,101	40,121	1,195,041	1,235,162
	389,365	241,650	75,948	317,597	269,385	58,743	328,128
	85,164	...	117,783	117,783	18,931	142,596	161,527
	97,648	36,358	38,674	75,031	75,655	20,912	96,567
	...	...	...	...	...	...	...
	79,818	2,745	90,025	92,770	...	175,501	175,501
	5,807	...	2,261	2,261	1,293	...	1,293
	2,203,065	553,639	2,860,576	3,414,215	299,369	3,528,885	3,828,254
	63,438	...	96,827	96,827	...	26,423	26,423
	40,417	2,615	39,185	41,800	771	61,139	61,910
	...	...	...	...	...	...	...
	43,202	...	28,065	28,065	...	32,974	32,974
	...	...	...	...	...	...	...

Table 6.16: Length of Roads by Type, Bhutan, (2013-2017)

(Length in Km)

Type of Road	Express-way	Primary National Highway	Secondary National Hig-hway	Dzongkhag Road	Urban Road	Farm Road	Access Road [1]	All road
2013	6.2	1,860.1	578.2	1,178.3	349.7	5,255.2	1,350.5	10,578.2
Black topped	6.2	1,662.4	510.9	202.1	324.5	2.5	266.7	2,975.3
Non-black topped	0.0	197.7	67.3	976.2	25.2	5,252.7	1,083.8	7,602.9
2014	6.2	1,941.7	579.2	1,260.7	349.7	5,707.8	1,398.1	11,243.4
Black topped	6.2	1,758.6	511.1	211.8	327.0	2.5	265.5	3,082.7
Non-black topped	0.0	183.2	68.1	1,049.0	22.7	5,705.3	1,132.6	8,160.8
2015	6.2	1,974.6	584.5	1,508.0	396.8	5,221.5	1,485.4	11,177.0
Black topped	6.2	1,809.0	515.9	228.1	377.1	2.5	263.1	3,201.9
Non-black topped	0.0	165.7	68.6	1,279.9	19.7	5,219.0	1,222.3	7,975.1
2016	6.2	1,965.2	878.4	2,606.2	436.8	5,049.7	1,406.2	12,348.7
Black topped	6.2	1,560.5	641.8	1,075.3	350.0	0.0	0.0	3,633.8
Non-black topped	0.0	404.7	236.6	1,530.9	86.8	5,049.7	1,406.2	8,714.9
2017	6.2	1,822.7	903.3	2,004.7	417.1	11,292.3	1,735.1	18,181.3
Black topped	6.2	1,733.9	677.9	1,135.1	402.8	12.6	506.7	4,475.2
Non-black topped	0.0	88.8	225.4	869.6	14.3	11,279.7	1,228.4	13,706.1

Note: [1] *Access road includes Forest road and Power tiller road.*

a. The national highway before year 2011 is now primary national highway, the distric road is now secondary national highway and the feeder road is now Dzongkhag road, therefore it is not available for the provious year.

b. The changes in the length of the road esp (PNH/SNH/Access Road)is mainly due to the reclassification of the road done by DoR mainly to fit proper defination.

c. Farm road information was collected by DoR from MoAF

Source: Design Division, Department of Roads, MoWHS, Thimphu.

Table 6.17: Length of Roads by Type and Dzongkhag, Bhutan, June 2018

(Length in Km)

Dzongkhag	Express-way	Primary National Highway	Secondary National Highway	Dzongkhag Road [2]	Urban Road [1]	Farm Road	Access Road [1]	Total	%
Bumthang	0.0	92.8	66.0	17.6	1.7	261.9	107.1	547.1	3.0
Chhukha	0.0	255.6	0.0	133.4	28.6	492.0	217.7	1127.3	6.2
Dagana	0.0	18.0	166.6	121.5	1.5	643.9	50.4	1001.9	5.5
Gasa	0.0	0.0	46.0	8.1	0.0	41.0	2.3	97.3	0.5
Haa	0.0	55.5	99.0	18.6	7.9	274.5	81.0	536.6	3.0
Lhuentse	0.0	0.0	44.5	107.6	0.8	691.7	138.0	982.5	5.4
Monggar	0.0	181.5	20.5	287.6	12.0	1169.9	65.0	1736.4	9.6
Paro	0.0	96.3	32.0	16.9	5.2	665.2	84.6	900.2	5.0
Pema Gatshel	0.0	120.4	128.0	144.0	0.0	600.1	42.9	1035.4	5.7
Punakha	0.0	47.5	30.4	36.2	4.4	430.8	101.7	651.0	3.6
Samdrup Jongkhar	0.0	77.0	72.0	119.6	7.3	431.1	43.7	750.7	4.1
Samtse	0.0	51.0	109.0	109.9	8.3	752.9	39.5	1070.6	5.9
Sarpang	0.0	97.8	0.0	107.2	15.8	326.6	163.8	711.2	3.9
Thimphu	6.2	50.5	7.2	54.5	281.8	113.0	231.7	744.9	4.1
Trashigang	0.0	45.0	17.0	284.7	6.6	1709.0	32.4	2094.6	11.5
Trashi Yangtse	0.0	90.4	0.0	71.4	8.7	467.8	28.1	666.3	3.7
Trongsa	0.0	178.5	0.0	37.0	0.6	364.9	39.3	620.3	3.4
Tsirang	0.0	63.0	3.0	68.5	3.3	351.2	20.0	509.0	2.8
Wangdue Phodrang	0.0	141.0	6.8	104.8	8.5	976.5	187.8	1425.4	7.8
Zhemgang	0.0	161.0	55.0	155.7	14.1	528.5	58.1	972.4	5.4
Bhutan	**6.2**	**1,822.7**	**902.9**	**2,004.7**	**417.1**	**11,292.3**	**1,735.1**	**18,180.9**	**100.0**

Note: [1] No Dzongkhag wise details on Urban and Access road is available except for whole total . (Access roads shall include Private roads and Institutional roads)

[2] Dzongkhag roads and Gewog connectivity roads are clubbed together as they have same specification.

Source: Department of Roads,MoWHS, Thimphu.

Table 6.18: Number of Registered Vehicles by Type and Region, (2014- June 2018)

Region	Government											
	Heavy	Medium	Light	Two-Wheeler	Power Tiller	TR	EME [1]	Electric Vehicle	Total	Heavy	Medium	Light
2014	1,176	231	2,572	1,454	162	91	253	...	5,939	7,298	1,161	39,252
Thimphu	545	39	1,520	520	95	47	118	...	2,884	2,139	288	23,530
Phuntsholing	523	139	668	588	0	17	58	...	1,993	4,535	752	12,720
Gelephu	61	18	162	111	27	6	37	...	422	267	81	1,409
Samdrup Jongkhar	47	35	221	235	40	20	40	...	638	357	40	1,539
Monggar	0	0	1	0	0	1	0	...	2	0	0	54
2015	1,185	238	2,512	1,400	333	113	266	28	6,075	7,381	1,244	45,222
Thimphu	532	36	1,405	461	266	55	133	21	2,909	2,055	316	26,662
Phuntsholing	542	146	707	587	0	20	56	7	2,065	4,680	786	14,640
Gelephu	65	19	169	120	27	6	37	0	443	278	91	1,885
Samdrup Jongkhar	45	34	223	232	40	30	40	0	644	359	40	1,733
Monggar	1	3	8	0	0	2	0	0	14	9	11	302
2016	1,237	259	2,654	1,417	388	119	278	29	6,381	8,243	1,346	51,541
Thimphu	567	43	1,418	460	302	62	138	22	3,012	2,271	357	30,416
Phuntsholing	547	154	757	607	0	19	58	7	2,149	5,205	823	16,205
Gelephu	68	18	205	116	28	6	42	0	483	334	107	2,381
Samdrup Jongkhar	50	37	227	233	40	30	40	0	657	392	42	1,939
Monggar	5	7	47	1	18	2	0	0	80	41	17	600
June 2017	1,250	266	2,795	1,415	451	125	320	26	6,648	8,582	1,391	54,215
Thimphu	567	45	1,519	458	317	65	143	19	3,133	2,349	372	31,873
Phuntsholing	557	154	780	610	15	20	65	7	2,208	5,426	838	16,901
Gelephu	70	20	210	114	59	7	72	-	552	355	118	2,657
Samdrup Jongkhar	51	37	219	232	42	31	40	-	652	400	44	2,059
Monggar	5	10	67	1	18	2	-	-	103	52	19	725
June 2018	1,264	280	2,872	1,432	692	127	346	26	7,039	9,708	1,504	59,225
Thimphu	570	51	1,585	461	505	65	149	19	3,405	2,601	409	34,840
Phuntsholing	564	159	790	626	15	21	65	7	2,247	6,179	886	18,041
Gelephu	72	20	208	112	66	7	93	0	578	431	135	3,132
Samdrup Jongkhar	52	38	212	230	61	32	39	0	664	427	49	2,229
Monggar	6	12	77	3	45	2	0	0	145	70	25	983

Note: [1] Earth Moving Equipments (EME) include bull dozers, road rollers, pay loaders, excavators, cranes, etc.
a. Excludes vehicles of armed forces.

Private								BHT		Diplomats/CD				All Types
	Two-Wheeler	Taxi	Power Tiller	TR	EME	Electric Vehicle	Total	Light	Total	Light	Two-Wheeler	Electric Vehicle	Total	
	8,529	4,109	1,219	238	1,752	...	63,558	55	55	45	5	...	50	69,602
	3,746	2,707	804	70	523	...	33,807	55	55	45	5	...	50	36,796
	2,680	1,192	66	124	1,134	...	23,203	0	0	0	0	...	0	25,196
	900	156	105	17	50	...	2,985	0	0	0	0	...	0	3,407
	1,160	54	244	26	45	...	3,465	0	0	0	0	...	0	4,103
	43	0	0	1	0	...	98	0	0	0	0	...	0	100
	7,578	3,939	1,382	271	1,942	63	69,022	53	53	39	1	...	40	75,190
	2,392	2,652	948	76	600	57	35,758	53	53	39	1	...	40	38,760
	2,929	1,030	67	146	1,211	4	25,493	0	0	0	0	...	0	27,558
	975	195	113	22	60	2	3,621	0	0	0	0	...	0	4,064
	1,177	44	244	26	62	0	3,685	0	0	0	0	...	0	4,329
	105	18	10	1	9	0	465	0	0	0	0	...	0	479
	8,223	4,222	1,556	302	2,317	80	77,830	49	49	36	1	...	37	84,297
	2,656	2,826	1,116	87	755	70	40,554	49	49	36	1	...	37	43,652
	3,115	1,015	67	152	1,345	6	27,933	0	0	0	0	...	0	30,082
	1,046	289	118	28	95	4	4,402	0	0	0	0	...	0	4,885
	1,195	43	245	28	86	0	3,970	0	0	0	0	...	0	4,627
	211	49	10	7	36	0	971	0	0	0	0	...	0	1,051
	8,451	4,283	1,681	321	2,514	66	81,504	46	46	28	-	1	29	88,227
	2,765	2,841	1,236	93	829	56	42,414	46	46	28	0	1	29	45,622
	3,202	1,002	69	158	1,408	6	29,010	0	0	0	0	0	0	31,218
	1,068	325	121	34	113	4	4,795	0	0	0	0	0	0	5,347
	1,201	47	245	29	116	-	4,141	0	0	0	0	0	0	4,793
	215	68	10	7	48	-	1,144	0	0	0	0	0	0	1,247
	9,047	4,518	1,933	351	2,853	67	89,206	37	37	24	-	1	25	96,307
	3,076	2,940	1,483	109	991	56	46,505	37	37	24	0	1	25	49,972
	3,400	947	70	165	1,499	7	31,194	0	0	0	0	0	0	33,441
	1,112	425	124	40	150	4	5,553	0	0	0	0	0	0	6,131
	1,218	77	245	29	155	0	4,429	0	0	0	0	0	0	5,093
	241	129	11	8	58	0	1,525	0	0	0	0	0	0	1,670

Table 6.19: Total Electricity Generation and Supply, Bhutan, (2013-2017)

Details	2013	2014	2015	2016	2017
Installed capacity (MW)	**1,498.83**	**1,498.83**	**1,614.10**	**1,623.03**	**1,622.74**
Chhukha hydro power	336.00	336.00	336.00	336.00	336.00
Kurichu hydro power	60.00	60.00	60.00	60.00	60.00
Basochu - I hydro power	24.00	24.00	24.00	24.00	24.00
Basochu - II hydro power	40.00	40.00	40.00	40.00	40.00
THPA	1,020.00	1,020.00	1,020.00	1,020.00	1,020.00
Dagachhu hydro power	...	...	126.00	126.00	126.00
Other hydro power	8.10	8.10	8.10	8.10	8.10
All diesel generators	10.73	10.73	8.04	8.93	8.04
Wind Power (MW)	...	...	...	0.60	0.60
Electricity generation (MU)	**7,550.04**	**7,164.16**	**7,747.17**	**7,953.58**	**7,729.77**
Chhukha hydro power	1,907.44	1,797.83	1,867.36	1,929.68	1,883.18
Kurichu hydro power	378.60	368.03	379.02	390.75	389.56
Basochu - I hydro power	117.74	109.25	113.21	116.71	122.55
Basochu - II hydro power	212.65	197.08	199.55	205.97	216.43
THPA	4,914.59	4,675.03	4,821.75	4,924.50	4,645.10
Dagachhu hydro power	...	...	350.26	374.23	460.35
Other hydro power	18.48	16.93	16.01	11.03	11.22
All diesel generators	0.54	0.01	0.02	0.00	0.27
Wind Energy (MU)	...	...	...	0.71	1.11
Exports (MU)	5,624.59	5,146.60	5,721.12	5,763.13	5,700.99
Imports (MU)	36.75	159.15	124.52	84.16	91.92
Total energy requirement (MU)	1,924.24	2,085.46	2,122.96	2,054.46	2,243.71
Total energy sales (MU)	3,346.60	3,959.81	4,576.30	2,008.91	2,185.75
Energy losses (MU)	82.77	80.63	66.73	3,716.90	57.96
Percentage losses (%)	4.00	4.00	3.00	44.16	3.00
Peak system demand (MW)	313.94	333.41	336.52	335.87	362.09
Length of HT lines (33/11 KV)					
Overhead lines (km)	5,021.27	5,568.40	5,705.57	6,286.09	6,310.91
Underground lines (km)	104.41	108.91	105.71	114.95	158.93
Overhead ABC Conductor (km)	...	...	114.45	129.04	132.57
Length of LT lines					
Overhead lines (km)	6,620.85	7,077.35	1,557.97	1,741.53	1,741.53
Underground lines (km)	314.74	360.16	368.50	396.66	321.67
Overhead ABC Conductor (km)	...	...	6,193.79	6,361.73	6,892.84

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 6:20: Consumption of Electricity by Type of Consumer, 2017

Type of Consumer	Energy Sales (MU)	% of Total Sales	No. of Consumers
Rural Residential	108.610	4.97	104,230
Rural Cooperatives	0.300	0.01	428
Rural Micro Trade	1.610	0.07	1,222
Rural Community Lhakhangs	1.321	0.06	1,239
Urban	133.270	6.10	48,618
Religious Institutions	4.292	0.20	712
Commercial	63.389	2.90	12,827
Industrial	8.711	0.40	365
Agriculture	2.275	0.10	1,754
Institutions	59.642	2.73	8,189
Street Lighting	3.983	0.18	515
Power House Auxiliaries	0.896	0.04	43
Temporary Connections	26.274	1.20	4,135
Total LV Bulk Consumption	67.055	3.07	778
Total MV Consumption	114.322	5.23	59
Total HV Consumption	1589.798	72.73	19
Total consumption (MU)	**2185.748**	**100.00**	**185,133**

Source: Department of Hydropower & Power Systems, MoEA and BPC, Thimphu.

Table 6.21: Percentage of Major Attraction to Bhutan, 2017

Attractions/Activities	%
Cutural	89.80
Adventure	9.20
Spiritual and Wellness	0.40
Nature	0.60

Note: Includes International Leisure purpose tourist only.
Source: Tourism Council of Bhutan, Thimphu.

Table 6.22: Import of Petroleum Products by Volumn and Value, (2013-2017)

PoL Products	2013			
	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	
Diesel (HSD)	126,120.29	5,655.31	117,615.80	
Petrol(KL)	30,272.20	1,750.31	31,458.20	
Kerosene(S.K oil)/Industrial	4,966.01	67.38	24.00	
S.K. Oil (subsidy)	48.00	0.62	5,685.00	
S.K. Oil (Industrial)	0.00	0.00	21.00	
Kerosene type jet fuel(ATF)	3,168.00	197.09	3,585.00	
LPG	6719.48	181.77	7,056.18	
Lubricating Oil	2,573.47	404.56	2,512.93	
Furnance Oil	721.58	34.03	473.35	
LDO	204.00	13.49	3,698.00	
Petroleum Bitumen	5,594.84	260.75	7,563.67	
Others (waste oils)	218.28	21.66	172.03	
Others (containing biodiesel other than waste oils)	58.29	1.70	2.51	

Note: a. The codes for Kerosene (S.K Oil) and S.K. Oil (Industrial) has been merged together w.e.f.January 1, 2017
b. S.K. Oil (quota) has been renamed as S.K.Oil (subsidy)
c. Two types of waste oils falling under BTC Code 2710.91.00 and 2710.99.00 are clubbed together

Source: Bhutan Trade Statistics ,DRC, MoF, Thimphu

Table 6.23: Total Ghg Emissions in Bhutan, 2000

GHG Sources & Sink	Total(CO2, CH4 and N20), CO2 -equiv			
		CO2	CH4	
1 Energy	270.23	260.31	0.38	
2 Industrial Processe	237.76	237.76	0	
3 Solvent & Other Product Us	0	0	0	
4 Agriculture	1005.3	0	25.85	
5 Land-Use Change and Forestry	-6,309.00	-6,309.00	0	
6 Waste	46.27	0	2	
Total GHG Emission, excluding LUCF	1559.56	498.07	28.23	
Total GHG Emission, including LUCF	-4750.04	-5810.9	28.23	

Source: Second National Communication to the UNFCCC, NEC

2014		2015		2016		2017	
	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million
	5,865.98	126,139.40	5,262.71	133,851.27	5,776.53	144,620.70	6,648.56
	1,826.52	33,846.60	1,692.97	36,214.80	1,755.31	39,119.50	1,969.39
	1.25	48.00	2.13	24.01	1.09	12.00	0.60
	74.74	4,599.00	60.17	4,815.00	65.79	4,328.00	76.02
	1.23	12.00	0.51	24.00	1.18	...	...
	219.69	3,291.00	142.08	3,294.00	127.92	3,982.00	170.65
	183.38	7,289.73	188.94	7,593.30	198.61	8,078.90	223.31
	414.69	3,378.26	397.50	2,478.56	416.96	2,239.17	377.22
	22.11	1,302.20	37.45	1,425.29	34.89	1,688.01	49.60
	198.83	136.00	6.20	36.00	1.24	...	...
	376.85	11,778.43	479.68	11,707.12	377.86	15,663.27	454.08
	19.65	5.40	0.89	10.79	1.69	140.38	15.40
	0.48	...	...	...	...	...	...

GHG, Giga Grams				
N2O	NOx	CO	NMVOC	SO2
0.01	1.76	9	1.3	0.96
0	0	0	1.69	0.1
0	0	0	0	0
1.49	0.2	0.41	0	0
0	0	0	0	0
0.01	0	0	0	0
1.51	1.78	9.41	4.7	1.05
1.51	1.78	9.41	4.7	1.05

Table 6.24: PM 10 Concentration (Microgram/m3) for Thimphu Dzongkhag, (2013-2017)

Microgram/m3

Month	2013		2014	2015	2016			2017	
	(PM 10) mg/m3	(PM 10) mg/m3	(PM 10) mg/m3	(PM 10) mg/m3	(PM 10) ug/m3	(PM 2.5) ug/m3	(Carbon) ng/m3	(PM 10) ug/m3	(PM 2.5) ug/m3
	City RBP Office roof top	NEC office roof top	NEC office roof top	NEC office roof top	Royal Thai Pavilion Compound, Thimphu			Royal Thai Pavilion Compound, Thimphu	
January	84.46	66.33	59.65	...	59.07	40.72	6662.84	83.75	61.06
Febuary	100.92	54.47	67.15	33.86	69.16	49.52	7034.20	75.27	49.95
March	98.07	64.87	58.89	48.77	59.22	43.74	5885.06	50.58	35.06
April	76.51	49.56	43.99	44.34	64.34	43.96	5796.46	39.71	24.91
May	51.27	33.84	41.35	29.16	38.99	26.49	...	30.22	19.02
June	39.73	16.06	24.91	23.65	20.08	11.87	...	21.08	12.64
July	27.39	7.56	...	12.58	12.60	8.18	...	13.88	8.24
August	33.01	7.95	...	15.74	15.79	9.79	...	14.89	7.66
September	64.18	18.65	14.84	62.61	21.42	11.78	...	18.74	10.33
October	47.28	21.75	...	...	31.71	17.53	...	26.07	14.84
November	97.24	51.10	35.08	...	59.87	36.86	...	46.39	28.76
December	105.49	57.55	54.63	138.88	74.32	43.74	...	62.75	40.63

Note: a. Due to technical problem PM 10 concentration couldnot be measured in missing months for the year 2014 & 2015
b. From 2016, the above data has started to be observed at Climate Observatory.
c. Carbon data couldnot be measured due to technical problem with equipments.

Source: Climate Change Division, National Environment Commission, Thimphu

CHAPTER 7 INDUSTRIES

Industries cover the whole range of industrial activities carried out by businesses in all fields including mining, manufacturing, wholesale and retail trade, and other service industries. In Bhutan, the industrial sector has until recently played a relatively small role in the economy.

The mining industry in Bhutan is as yet relatively undeveloped. The kingdom has significant deposits of a number of mineral resources, including limestone, coal, graphite, gypsum, slate and dolomite. Most mining activities are limited to relatively small operations, mainly involved in the mining of dolomite, gypsum, limestone, slate, coal, marbles, quartzite and talc

The manufacturing industry is dominated by a small number of major operators such as the Penden Cement Authority Ltd., the Bhutan Board Products Ltd., Bhutan Carbide and Chemicals Ltd., the Bhutan Ferro Alloys Ltd. and Bhutan Agro Industries Ltd. Besides these, there are a number of other small manufacturing plants concentrated in the food processing activities. Cottage industry also plays a prominent role with its good timber resources and favorable agricultural conditions.

As the industrial sector grows in Bhutan, statistics on industry will become increasingly important. The Department of Industry keeps a record of all industrial licenses and activities. Besides, Censuses of Manufacturing Industries conducted at regular intervals viz. Industrial Census of 1998 and 2001 have been the source of important information on Industries. For example, information on the number of industries in operation, types of industries, and employment in industries etc. presented in this chapter is the results from those Censuses. Most of the existing industrial establishments are small scale or cottage industries.

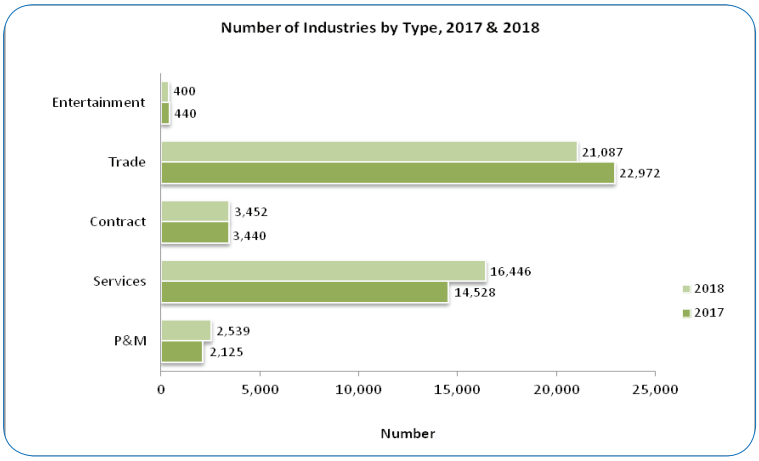


Table 7.1: Number of Lincensed Firms in Production & Manufacturing, Services and Contract by Ownership, Bhutan, (June 2017- June 2018)

Industry	June 2017			
	Sole Propietorship	Partnership	Company	
Production & Manufacturing	1,872	47	192	
Services	14,092	134	268	
Contract	3,202	1	237	
Total	**19,166**	**182**	**697**	

Note: [1] Others includes Government, Dratsang, Schools etc.
Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.2: Number of Industrial Establishments by Sector, Bhutan, (2014 - June 2018)

Sector	2014	2015	June 2016	June 2017	June 2018
Production & manufacturing	**2,823**	**2,073**	**1,648**	**2,125**	**2,539**
New establishments	335	294	144	445	514
Existing establishments	2,488	1,779	1,504	1,680	2,025
Services	**26,465**	**18,067**	**12,221**	**14,528**	**16,446**
New establishments	2,128	790	1,175	2,253	2,693
Existing establishments	24,337	17,277	11,046	12,275	13,753
Contract	**13,511**	**4,298**	**3,135**	**3,440**	**3,452**
New establishments	363	31	84	233	318
Existing establishments	13,148	4,267	3,051	3,207	3,134
Trade	**27,048**	**31,150**	**17,759**	**22,972**	**21,087**
New registration/establishments	5,092	4,102	2,143	3,767	4,231
Existing establishments	21,956	27,048	15,616	19,205	16,856
Entertainment	**361**	**356**	**412**	**440**	**400**
New establishments	79	96	83	34	42
Existing establishments	282	260	329	406	358
All sectors	**70,208**	**55,944**	**35,175**	**43,505**	**43,924**

Note: a. The figures for P&M, Services and Contract includes all Large, Medium, Cottage and Small Industries
Source: Department of Industry, Department of Cottage & Small Industry,Department of Trade (MoEA) & BIC-MA,Thimphu.

	June 2018			
Others	Sole Propietorship	Partnership	Company	Others
14	2,256	64	198	22
34	15,921	180	301	43
...	3,195	0	250	7
48	**21,372**	**244**	**749**	**72**

Table 7.3: Number of Contract Firms by Size,by Dzongkhag, Bhutan (June 2017 - June 2018)

Dzongkhag	As of June 2017			Total	As of June 2018			Total
	Size of Contract Firm				Size of Contract Firm			
	Small	Medium	Large		Small	Medium	Large	
Bumthang	67	10	1	78	67	12	1	80
Chhukha	151	31	16	198	258	44	18	320
Dagana	54	6	...	60	66	7	0	73
Gasa	14	...	...	14	16	0	0	16
Haa	62	54	1	117	58	48	1	107
Lhuentse	43	9	3	55	49	8	4	61
Monggar	88	30	6	124	77	31	5	113
Paro	225	96	1	322	131	76	2	209
Pema Gatshel	75	8	1	84	70	14	1	85
Punakha	68	13	4	85	83	13	4	100
Samdrup Jongkhar	82	15	21	118	82	19	26	127
Samtse	89	11	1	101	95	13	2	110
Sarpang	97	22	24	143	120	26	30	176
Thimphu	556	670	172	1,398	568	596	146	1,310
Trashi Yangtse	82	9	4	95	78	10	5	93
Trashigang	103	49	10	162	102	52	9	163
Trongsa	58	12	...	70	63	13	1	77
Tsirang	25	4	...	29	37	4	0	41
Wangdue Phodrang	104	26	3	133	101	23	2	126
Zhemgang	44	8	2	54	50	11	4	65
Bhutan	**2,087**	**1,083**	**270**	**3,440**	**2,171**	**1,020**	**261**	**3,452**

Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.4: Number of Industries by Ownership, Size and Type, Bhutan, (June 2016 - June 2018)

Industrial Establishments	June 2016	June 2017	June 2018
Ownership	**16,986**	**20,093**	**22,437**
Sole Proprietorship	16,202	19,166	21,372
Partnership	158	182	244
Company	589	697	749
Others [1]	37	48	72
Size	**17,004**	**20,093**	**22,437**
Production & Manufacturing	1,648	2,125	2,539
Large scale	93	114	111
Medium scale	151	196	202
Small scale	365	470	600
Cottage scale	1,039	1,345	1,626
Services	12,221	14,528	16,446
Large scale	99	101	122
Medium scale	218	297	323
Small scale	1,224	1,472	1,810
Cottage scale	10,680	12,658	14,191
Contract	3,135	3,440	3,452
Large scale	231	270	261
Medium scale	1,038	1,083	1,020
Small scale	1,866	2,087	2,171
Cottage scale	...	...	...
Type	**17,004**	**20,093**	**22,437**
Production & Manufacturing	1,648	2,125	2,539
Contract	3,135	3,440	3,452
Services	12,221	14,528	16,446

Source: Department of Industry and Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.5: Number of Industrial Firms by Scale, by Dzongkhag, Bhutan (June 2017 & June 2018)

Dzongkhag	As of June 2017				Total	As of June 2018				Total
	Scale of Industry					Scale of Industry				
	Cottage	Small	Medium	Large		Cottage	Small	Medium	Large	
Bumthang	505	134	31	3	673	527	152	33	4	716
Chhukha	1,742	336	121	87	2,286	1,858	526	144	84	2,612
Dagana	293	74	9	1	377	325	108	10	1	444
Gasa	69	23	...	...	92	81	19	0	0	100
Haa	148	102	57	1	308	161	99	52	1	313
Lhuentse	174	57	9	3	243	171	70	8	4	253
Monggar	633	140	40	10	823	664	131	41	9	845
Paro	982	405	151	13	1,551	1,156	335	141	17	1,649
Pema Gatshel	414	144	14	13	585	444	147	21	12	624
Punakha	360	112	29	12	513	426	133	33	13	605
Samdrup Jongkhar	494	189	29	29	741	500	270	31	38	839
Samtse	693	133	39	15	880	822	154	45	15	1,036
Sarpang	837	177	38	35	1,087	980	272	46	43	1,341
Thimphu	4,577	1,343	846	231	6,997	5,391	1,460	771	216	7,838
Trashi Yangtse	276	102	12	4	394	285	96	13	5	399
Trashigang	473	146	56	11	686	534	155	58	12	759
Trongsa	312	78	23	2	415	339	85	23	3	450
Tsirang	193	73	9	...	275	261	79	7	0	347
Wangdue Phodrang	526	208	53	13	800	574	212	55	13	854
Zhemgang	302	53	10	2	367	326	70	12	5	413
Bhutan	**14,003**	**4,029**	**1,576**	**485**	**20,093**	**15,825**	**4,573**	**1,544**	**495**	**22,437**

Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.6: Number of Industries by Type in Cottage and Small by Dzongkhag, Bhutan (June 2017 & June 2018)

Dzongkhag	As of June 2017						As of June 2018					
	Production & Manufacturing		Services		Contract	All Types (Total)	Production & Manufacturing		Services		Contract	All Types (Total)
	Cottage	Small	Cottage	Small			Cottage	Small	Cottage	Small		
Bumthang	75	16	380	39	51	561	90	37	437	48	67	679
Chhukha	62	39	1,405	111	131	1,748	89	69	1,769	199	258	2,384
Dagana	15	6	246	9	46	2,309	23	17	302	25	66	433
Gasa	1	2	61	6	13	83	7	2	74	1	16	100
Haa	35	15	98	21	56	225	42	20	119	21	58	260
Lhuentse	18	3	140	9	40	308	23	7	148	14	49	241
Monggar	54	10	531	30	77	702	75	12	589	42	77	795
Paro	139	39	662	105	215	1,160	206	62	950	142	131	1,491
Pema Gatshel	35	22	351	38	74	1,862	48	15	396	62	70	591
Punakha	21	5	285	27	55	393	35	11	391	39	83	559
Samdrup Jongkhar	47	18	401	75	73	614	63	34	437	154	82	770
Samtse	40	23	547	15	84	1,007	83	26	739	33	95	976
Sarpang	64	18	673	29	83	867	92	53	888	99	120	1,252
Thimphu	193	90	3,324	562	494	4,663	388	159	5,003	733	568	6,851
Trashi Yangtse	91	10	142	9	78	5,530	118	5	167	13	78	381
Trashigang	60	13	359	22	93	547	97	18	437	35	102	689
Trongsa	17	3	257	11	51	339	24	7	315	15	63	424
Tsirang	11	10	157	30	23	886	34	17	227	25	37	340
Wangdue Phodrang	22	17	420	74	91	624	39	22	535	89	101	786
Zhemgang	39	6	241	2	38	326	50	7	276	13	50	396
Bhutan	**1,039**	**365**	**10,680**	**1,224**	**1,866**	**15,174**	**1,626**	**600**	**14,199**	**1,802**	**2,171**	**20,398**

Source: Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.7: Number of Industries by Type in Medium and Large by Dzongkhag, Bhutan (June 2017 - June 2018)

Dzongkhag	All Types (Total)	As of June 2017								As of June 2018							
		Production & Manufacturing				Services	Contract	Others	All Types (Total)	Production & Manufacturing				Services	Contract	Others	All Types (Total)
		Agro Based	Forest Based	Mineral Based	Other					Agro Based	Forest Based	Mineral Based	Other				
Bumthang	27	0	0	1	4	18	11	0	34	1	0	2	2	19	13	0	37
Chhukha	182	32	11	29	54	35	47	0	208	25	14	14	77	36	62	0	228
Dagana	9	0	0	2	1	1	6	0	10	0	0	3	1	1	7	0	12
Gasa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haa	52	0	0	0	0	3	55	0	58	0	0	0	0	4	49	0	53
Lhuentse	11	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	12
Monggar	42	2	0	5	2	5	36	0	50	2	0	5	2	5	36	0	50
Paro	137	5	1	4	4	53	97	0	164	3	1	5	7	64	78	0	158
Pema Gatshel	28	0	0	12	3	3	9	0	27	0	1	7	6	4	15	0	33
Punakha	34	1	0	0	0	23	17	0	41	0	0	0	1	28	17	0	46
Samdrup Jongkhar	40	4	2	6	2	8	36	0	58	5	0	3	8	8	45	0	69
Samtse	43	7	2	23	7	3	12	0	54	4	2	26	11	3	15	0	61
Sarpang	61	6	2	2	2	15	46	0	73	3	2	1	7	18	56	0	87
Thimphu	997	9	7	12	9	198	842	0	1,077	5	7	5	16	212	742	0	987
Trashi Yangtse	12	0	0	2	0	1	13	0	16	0	0	2	0	1	15	0	18
Trashigang	65	1	0	1	0	6	59	0	67	1	0	1	0	7	61	0	70
Trongsa	22	1	0	4	1	7	12	0	25	0	0	4	1	7	14	0	26
Tsirang	4	1	0	2	0	2	4	0	9	0	0	1	0	2	4	0	7
Wangdue Phodrang	56	4	0	14	3	16	29	0	66	4	0	12	2	25	25	0	68
Zhemgang	8	0	0	1	0	1	10	0	12	0	0	1	0	1	15	0	17
Bhutan	**1,830**	**73**	**25**	**120**	**92**	**398**	**1,353**	**0**	**2,061**	**53**	**27**	**92**	**141**	**445**	**1,281**	**0**	**2,039**

Source: Department of Industry, MoEA, Thimphu.

Table 7.8: Establishments covered by Dzongkhag and Area, Bhutan, 2017

Dzongkhag	Rural	Urban	Total
Bumthang	39	147	186
Chhukha	96	621	717
Dagana	29	38	67
Gasa	20	4	24
Haa	27	41	68
Lhuentse	11	18	29
Monggar	47	93	140
Paro	147	237	384
Pema Gatshel	111	18	129
Punakha	71	136	207
Samdrup Jongkhar	95	142	237
Samtse	125	81	206
Sarpang	41	234	275
Thimphu	101	1527	1628
Trashi Yangtse	62	69	131
Trashigang	34	34	68
Trongsa	39	36	75
Tsirang	8	54	62
Wangdue Phodrang	121	106	227
Zhemgang	15	64	79
Total	**1,239**	**3,700**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.9: Establishments covered by Trade Region and Area, Bhutan, 2017

Region	Rural	Urban	Total
Thimphu	487	2,051	2,538
Phuentsholing	221	702	923
Gelephu	78	326	404
Samdrup Jongkhar	206	160	366
Monggar	154	214	368
Trongsa	93	247	340
Total	**1,239**	**3,700**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.10: Establishments covered by Trade Region and Sector, Bhutan, 2017

Sector	Construction	Education & Training	ICT	Production	Services	Tourism	Total
Thimphu region	102	100	173	219	1,567	377	2,538
Phuentsholing region	28	17	79	125	607	67	923
Gelephu region	17	7	34	27	287	32	404
Samdrup Jongkhar region	18	8	31	61	211	37	366
Monggar region	24	10	11	59	234	30	368
Trongsa region	44	0	11	39	183	63	340
Total	**233**	**142**	**339**	**530**	**3,089**	**606**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.11: Establishments covered by Trade Region and Scale, Bhutan, 2017

Region	Cottage	Small	Medium	Large	Total
Thimphu	1,609	718	179	32	2,538
Phuentsholing	620	224	63	16	923
Gelephu	324	67	13	0	404
Samdrup Jongkhar	273	79	7	7	366
Monggar	296	64	7	1	368
Trongsa	273	55	5	7	340
Total	**3,395**	**1,207**	**274**	**63**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.12: Establishment covered by Sector and Scale, Bhutan, 2017

Sector	Cottage	Small	Medium	Large	Total
Construction	71	108	39	15	233
Education & Training	47	60	30	5	142
ICT	240	80	15	4	339
Production	269	192	51	18	530
Services	2,493	518	62	16	3,089
Tourism	275	249	77	5	606
Total	**3,395**	**1,207**	**274**	**63**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.13: Establishments covered by Subsector and Scale, Bhutan, 2017

Sub-sector	Cottage	Small	Medium	Large	Total
Automobile Services	100	151	22	0	273
Café,Restauranr & bar	1,629	163	4	0	1,796
Tailoring	187	28	2	0	217
Hair & beauty	229	17	1	0	247
Other services	347	159	33	16	555
Tour operator	103	57	14	0	174
Hotels & resorts	172	192	63	5	432
Pre-primary/primary education	22	29	4	0	55
Secondary education	2	4	16	0	22
Tertiary education	1	0	6	5	12
Training provider	22	27	4	0	53
Film & media	75	35	4	2	116
ICT repair & services	166	45	11	2	224
Production-others	79	80	21	12	192
Production-wood & furniture related	138	82	18	1	239
Production-food related	52	30	12	5	99
Hydro construction	0	4	7	13	24
Non-hydro construction	71	104	32	2	209
Total	**3,395**	**1,207**	**274**	**63**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.14: Establishments covered by type of Organization and Scale, Bhutan, 2017

Type of Organization	Cottage	Small	Medium	Large	Total
Sole proprietorship	3,295	1,063	189	7	4,554
Partnership	52	42	12	1	107
Private Limited Company	23	54	33	11	121
Government Owned Company	7	2	16	26	51
FDI/Foreign based company	2	9	14	15	40
NGO/CSO	10	30	7	0	47
Co-operatives	6	7	3	3	19
Total	**3,395**	**1,207**	**274**	**63**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.15: Employments covered by Major Economic Activity and Scale, Bhutan, 2017

Major Economic Activity	Cottage	Small	Medium	Large	Total
Mining and Quarrying	6	20	9	3	38
Manufacturing	512	232	52	18	814
Electricity and Gas Supply	2	5	5	3	15
Water Supply, Sewerage, Waste Management and Remediation Activities	1	3	0	0	4
Construction	72	112	38	14	236
Wholesale Trade & Repair of Motor Vehicles	167	169	27	1	364
Transportation and Storage	9	9	6	1	25
Accomodation and Food Service Activities	1,804	359	68	5	2,236
Information and Communication	79	43	4	2	128
Financial and Insurance Activities	2	5	1	8	16
Real Estate Activities	1	2	0	1	4
Professional, Scientific and Technical Activities	126	33	2	1	162
Tour Operator & Other Support Services Activities	153	76	19	0	248
Education	43	60	29	5	137
Human Health and Social Work Activities	9	20	4	0	33
Arts, Entertainment and Recreation	10	7	4	1	22
Others Services Activities	399	51	4	0	454
Activities of Extraterritorial Organizations	0	1	2	0	3
Total	**3,395**	**1,207**	**274**	**63**	**4,939**

Source: Establishment Survey Report, November Edition 2017, MoLHR.

CHAPTER 8 TRANSPORT AND COMMUNICATIONS

An efficient road system for a landlocked country assumes paramount importance as it plays a crucial role in supporting all development activities and in stimulating domestic and international trade. The first appearance of motor vehicle was in 1962 and surface transport continues to be the main means of transport. The Bhutan Government Transport Service (BGTS) originally entrusted with goods transportation was restructured to concentrate on passenger transport. The gradual privatization of the passenger transport services began in 1985 on pilot basis and was achieved fully by October 1991 with 21 operators managing a fleet of more than 100 buses on 73 routes. As of June 2017, there were 88,227 registered vehicles in Bhutan.

The Government, in order to promote and develop the surface transport, with emphasis on safety, formulated the Roads Safety and Transport Act, which became operational since October 1997. In the last 27 years, tremendous achievements were made in establishing 6920.10 kilometers of motorable roads and several motorable bridges. In the difficult areas where the construction of motorable road has not yet begun, suspension bridges provide the vital transport links. Today, the Department of Roads under the Ministry of Works and Human Settlements is responsible for the design and planning of roads and in setting standards for quality.

Druk Air, the national airline was founded in April 1981 and was commercialized in February 1983. It is a Government owned airline run by the Druk Holding Investment. Bhutan established its first international air links with Kolkata, followed by six destinations in South Asia, including Bangkok. The Division of Civil Aviation was established in January 1986 to provide infrastructure and air traffic services and to regulate the airline industry and it became the member of ICAO (International Civil Aviation Organization). The Paro International Airport inaugurated on 10th April 1999 has taken the air transport sectors further ahead in providing reliable, safe and comfortable travel services. Druk Air Corporation Limited also introduced domestic flights to Bumthang, Younphula (Trashigang) and to Gelephu (Sarpang) in 2011.

Tashi Air Pvt. Ltd, Bhutan's first Private Airline came into existence after the Tashi Group of Companies, outbid other joint ventures companies and won the License to operate Airline Service both Domestic and International Sectors. On 4th December 2011, Tashi Group of Companies introduced its first aircraft Bhutan Airline for domestic operations. It started its international operation on 10th October 2013. Later on 1st of May 2014, Bhutan Airlines started its fleet with new Airbus A319 with 122 seating capacity.

Since the establishment of first telephone network in 1963 the ICT sector has come a long way. Telecommunication network has changed from physical wire network to a national digital network today. Bhutan's first satellite international link was established in 1990 with the

installation of the Earth satellite station and an international gateway switch in Thimphu. By March 1999 all the 20 district headquarters had access to telecommunication services.

The national telecommunication network opened the path to global information network. On 2nd June 1999, the country established the first television network and also started the Internet Services. Since then, the information and communication technology such as Internet provides access to global information and plays an important role in the everyday affairs. Bhutan Telecom Limited (BTL) is the leading provider of telecommunications and Internet services in the Kingdom of Bhutan. Besides fixed line telephony, it provides GSM Mobile services under its flagship brand B-Mobile, and Internet Services under the brand name of DrukNet which was launched on 11th November 2003 coinciding with His Majesty Fourth Druk Gyalpo's Birthday. Later, Tashi InfoComm Limited, Bhutan's first private mobile company came into existence on October 2006. Now, B-mobile and TashiCell has its services available in all 20 Dzongkhags.

The Postal Service in Bhutan was first launched on 10th October 1962 with the opening of a post office in Phuentsholing. It was called the Department of Posts and Telegraphs under the Ministry of Communications. Initially, the services offered were basic services such as letter mail, postcards and parcels. International mail was only exchanged with India. On 1st October 1996, The Division of Posts and Telegraphs was converted to autonomous Commercial Corporation as Bhutan Post. Bhutan became a member of the Universal Postal Union (UPU) and member of the Asian Pacific Postal Union (APPU) in 1983.

Today, there are in total 88 postal infrastructures in the country. Its portfolio of services also developed and improved over time and an International Express Mail Service (EMS) was introduced in July 1993. Express mail services were introduced into the domestic sector in 1966. Money order services were improved with the introduction of Facsimile Money Order for Bhutan and Express Money Order (EMO) for exchange with India. In 1997, Bhutan Post set up a transport network for the purpose of carrying both passenger and mail. This network presently covers between Thimphu and Phuentsholing and between Phuentsholing and Calcutta.

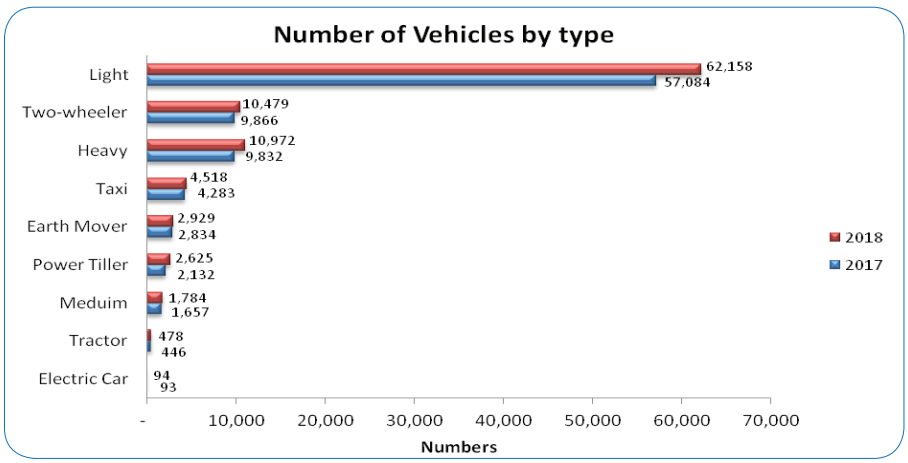


Table 8.1: Number and Length of Motorable Bridges by Type, Bhutan, June 2018

(Length in m)

Type of Bridges	Number	%	Length	%
Permanent bridges				
RCT Beam / T-Girder/Box Grid	75	20.8	1,591.20	12.5
RCC Slab	29	8.0	507.45	4.0
Pre-Stressed Concrete	21	5.8	1,210.00	9.5
RCC Arch	4	1.1	383.00	3.0
Composite	20	5.5	384.00	3.0
Steel Pony Truss	5	1.4	265.00	2.1
Steel Arch	11	3.0	1,059.25	8.3
Steel Hamilton	8	2.2	280.60	2.2
Steel Truss / Girder	20	5.5	1,241.40	9.7
Multicell Box Culvert	6	1.7	304.00	2.4
RCC bridges on GC Roads	5	1.4	57.00	0.4
Temporary (semi-permanent)bridges				
Bailey Bridges	84	23.3	2,579.84	20.2
Bailey Suspension Bridge	2	0.6	231.71	1.8
Bailey Bridges on Farm Roads in various Dzongkhags	14	3.9	451.21	3.5
Bailey bridges on GC & Farm Roads in various Dzongkhags (2011 & 2012)	19	5.3	719.51	5.6
Bailey bridges on GC & Farm Roads in various Dzongkhags (2012 & 2013)	14	3.9	478.66	3.7
Bailey bridges on GC & Farm Roads in various Dzongkhags (2013)	13	3.6	469.51	3.7
Bailey & Bailey Suspension Bridges on GC Roads (2015-June 2018)	11	3.0	564.02	4.4
All bridges	**361**	**100**	**12,777.36**	**100**

Source: Bridge Division, DoR , MoWHS, Thimphu.

Table 8.2: Number of Pedestrian Bridges Constructed Since 5Th Five Year Plan by Dzongkhag, June 2018

Dzongkhag	Five Year Plans periods								Total Constructed (I-XI)	Percent (I-XI)	Existing Bridge as of present
	IV & Before	V	VI	VII	VIII	IX	X	XI			
Bumthang	1	7	3	4	2	2	1		20	3.66	18
Chhukha	3	5	1	3	4	2	4	1	23	4.21	16
Dagana	3	4	2	5	4	4	6	1	29	5.31	24
Gasa	0	0	2	2	2	1	0	1	8	1.47	4
Haa	3	6	1	4	2	0	1	1	18	3.30	15
Lhuentse	3	4	2	4	4	6	5	2	30	5.49	20
Monggar	9	5	2	5	6	7	7		41	7.51	33
Paro	3	8	3	2	2	2	3	1	24	4.40	21
Pema Gatshel	5	11	2	4	6	4	5	1	38	6.96	29
Punakha	3	4	1	1	1	3	3	1	17	3.10	14
Samdrup Jongkhar	7	11	6	3	3	3	7	3	43	7.88	26
Samtse	9	15	2	1	4	2	4	4	41	7.51	32
Sarpang	6	8	5	0	5	3	1		28	5.13	18
Thimphu	1	1	3	3	0	4	2	4	18	3.30	13
Trashigang	8	10	2	4	7	7	2	1	41	7.51	30
Trashi Yangtse	3	6	4	3	3	3	7		29	5.31	25
Trongsa	4	6	3	4	1	2	2	1	23	4.21	17
Tsirang	5	4	1	2	2	1	1		16	2.93	13
Wangdue Phodrang	2	10	5	3	2	3	2		27	4.95	25
Zhemgang	1	5	4	4	5	6	4	3	32	5.86	27
Bhutan	**79**	**130**	**54**	**61**	**65**	**65**	**67**	**25**	**546**	**100.00**	**420**

Source: Suspension Bridge Section ,Bridge Division, Department of Roads, MoWHS, Thimphu.

Table 8.3: Number of Driving Licenses Issued by Region, Bhutan, (2013 - June 2018)

Region	2013	2014	2015	2016	2017	2018
Thimphu	46,588	49,159	52,134	56,007	60,213	63,052
Phuentsholing	9,902	10,689	11,676	12,884	14,364	15,306
Gelephu	11,002	12,225	13,351	14,466	15,786	16,515
Samdrup Jongkhar	8,496	9,048	9,492	10,018	10,684	10,993
Monggar	...	134	681	1,260	1,975	2,336
PDL (Professional Driving Licence)	15,022	15,404	16,424	16,734	17,086	17,332
Total	**91,010**	**96,659**	**103,745**	**111,369**	**120,108**	**125,534**

Note: a. The total driving license for the year 2015 was less with 13 because of cancellation
Source: Road Safety and Transport Authority, MOIC, Thimphu.

Table 8.4: Number of Passengers Carried & Revenue Earned by Druk Air Flights by Area of Operation , (2013-2017)

Area of Operation	2013	2014	2015	2016	2017
International	**208,125**	**210,338**	**204,746**	**225,882**	**254,643**
Paro to Kolkata	11,484	9,337	10,764	13,908	13,452
Kolkata to Paro	10,846	8,323	10,516	13,374	13,064
Paro to Bangkok	33,471	28,984	27,971	27,573	29,907
Bangkok to Paro	32,059	27,296	25,946	27,851	29,101
Paro to Dhaka	3,495	4,595	6,918	7,907	8,649
Dhaka to Paro	3,539	4,886	7,169	7,993	9,057
Paro to Delhi	18,667	18,280	22,713	23,684	31,267
Delhi to Paro	17,840	18,242	22,591	24,481	29,888
Paro to Kathmandu	18,721	21,515	11,792	13,912	20,889
Kathmandu to Paro	19,133	21,604	12,155	13,898	21,102
Kathmandu to Delhi	2,657	2,255	2,172	1,601	1,590
Delhi to Kathmandu	1,390	464	1,211	736	594
Kolkata to Bangkok	0	0	899	1,926	1,536
Bangkok to Kolkata	0	0	1,281	3,571	2,573
Dhaka to Bangkok	2,627	2,127	44	0	0
Bangkok to Dhaka	2,266	1,277	23	0	0
Gaya to Bangkok	551	701	468	399	375
Bangkok to Gaya	549	738	390	486	164
Paro to Gaya	507	992	987	1,353	1,168
Gaya to Paro	468	891	877	777	1,305
Paro to Bagdora	2,143	2,209	2,120	1,771	1,632
Bagdora to Paro	2,161	2,560	2,512	2,141	2,658
Bagdora to Bangkok	2,284	2,691	2,531	2,513	2,166
Bangkok to Bagdora	1,902	2,401	2,322	2,009	1,990
Paro to Guwahati	1,072	1,306	1,420	1,600	1,606
Guwahati to Paro	797	1,043	1,231	1,638	1,768
Guwahati to Bangkok	1,511	1,840	2,259	2,003	1,675
Bangkok to Guwahati	1,446	1,599	2,058	1,577	1,586
Paro to Singapore	3,831	3,915	4,268	6,170	7,105
Singapore to Paro	3,772	3,635	4,400	6,110	6,956
Kolkata to Singapore	3,213	3,877	4,231	5,734	2,509
Singapore to Kolkata	3,295	4,212	4,534	5,356	3,013
Kolkata to Dhaka	183	0	...	...	...
Dhaka to Kolkata	245	0	...	...	...
Paro to Munbai	...	3,187	2,040	915	2,214

cont...

Table 8.4 cont...

Area of Operation	2013	2014	2015	2016	2017
Mumbai to Paro	...	3,356	1,933	915	2,084
Domestic	**2,766**	**3,007**	**4,676**	**7,688**	**11,890**
Paro to Bumthang	990	1,363	2,032	3,704	5,239
Bumthang to Paro	1,410	1,644	2,600	3,510	5,527
Paro to Gelephu	21	0	33	137	138
Gelephu to Paro	20	0	11	181	81
Paro to Younphula	175	0	...	...	429
Younphula to Paro	150	0	...	...	476
Gelephu to Bumthang	...	...	...	81	...
Bumthang to Gelephu	...	...	...	75	...
Total Passengers	**210,891**	**213,345**	**209,422**	**233,570**	**266,533**
Revenue (Nu.in millions)	**2,976.00**	**2,837.00**	**2,698.00**	**2,860.00**	**3,526.45**

Note: Revenue includes only total operating revenues.
Source: Druk Air Corporation Ltd., Thimphu.

Table 8.5: Number of Flights Made by Druk Air by International and Domestic by Area of Operation, (2013-2017)

Area of Operation	2013	2014	2015	2016	2017
International	**4,683**	**4,997**	**5,036**	**5,029**	**5,330**
Paro to Kolkata	279	271	298	357	354
Kolkata to Paro	277	267	320	352	350
Paro to Bangkok	446	479	403	391	406
Bangkok to Paro	448	439	402	390	408
Paro to Dhaka	132	144	190	178	222
Dhaka to Paro	126	130	191	178	222
Paro to Delhi	254	263	311	304	359
Delhi to Paro	253	231	315	304	358
Paro to Kathmandu	339	405	333	369	358
Kathmandu to Paro	336	370	333	356	357
Paro to Gaya	17	23	18	25	35
Gaya to Paro	18	24	16	26	26
Gaya to Bangkok	...	...	...	13	17
Bangkok to Gaya	...	...	...	14	8
Delhi to katmandu	84	117	122	50	53
kathmandu to Delhi	85	98	122	62	55
Bangkok to kolkata	0	0	98	138	139
Kolkata to Bangkok	0	0	78	138	140
Dhaka to Bangkok	96	99	7	0	0
Bangkok to Dhaka	96	85	7	0	0
Paro to Bagdora	135	149	144	109	104
Bagdora to Paro	133	130	112	89	104
Bagdora to Bangkok	125	146	144	109	104
Bangkok to Bagdora	126	139	112	89	104
Paro to Guwahati	94	106	107	105	104
Guwahati to Paro	96	105	99	103	103
Guwahati to Bangkok	95	104	108	105	104
Bangkok to Guwahati	96	105	101	103	103
Paro to Singapore	107	102	120	139	146
Singapore to Paro	107	100	121	138	147
Kolkata to Singapore	107	102	120	139	146
Singapore to Kolkata	102	100	121	137	142
Kolkata to Dhaka	20	0	0	0	0
Dhaka to Kolkata	20	0	0	0	0
Paro to Mumbai	...	65	31	9	26

cont...

Table 8.5 cont...

Area of Operation	2013	2014	2015	2016	2017
Mumbai to Paro	...	65	32	10	26
Domestic	**284**	**263**	**295**	**448**	**644**
Paro to Bumthang	118	132	142	178	288
Bumthang to Paro	118	131	144	177	289
Paro to Gelephu	1	0	3	31	15
Gelephu to Paro	1	0	3	31	16
Gelephu to Bumthang	...	...	3	15	...
Bumthang to Gelephu	...	...	...	16	...
Paro to Younphula	23	0	0	0	18
Younphula to Paro	23	0	0	0	18
All sectors	**4,967**	**5,260**	**5,331**	**5,477**	**5,974**

Note: Total number of flights includes both the Aircrafts AB 319 and ATR 42.
Source: Druk Air Corporation Ltd., Thimphu.

Table 8.6: Number of Passengers Carried & Revenue Earned by Tashi Air Flights by Area of Operation, (2013-2017)

Area of Operation	2013	2014	2015	2016	2017
Paro to Kolkata	154	5,326	8,839	8,552	9,331
Kolkata to Paro	88	5,010	7,499	8,150	8,785
Paro to Bangkok	1,704	16,722	16,226	15,584	19,008
Bangkok to Paro	1,654	17,110	15,670	16,144	17,658
Kolkata to Bangkok	1236	16,876	13,382	17,700	3,942
Bangkok to Kolkota	812	16,628	13,144	17,600	4,834
Paro to Kathmandu	...	4,378	5,781	5,687	4,518
Kathmandu to Paro	...	4,009	5,815	6,374	3,862
Paro to Delhi	...	...	1,422	6,725	7,853
Delhi to Paro	...	25	988	6,820	7,241
Paro to Gaya	...	...	...	400	544
Gaya to Paro	...	...	...	400	688
Bangkok to Gaya	...	...	...	520	867
Gaya to Bangkok	...	...	...	420	896
Delhi to Kathmandu	...	...	...	...	2
Kathmandu to Delhi	...	...	...	...	395
Total Passengers	**5,648**	**86,084**	**88,766**	**111,076**	**90,424**
Revenue (Nu.in millions)	**51.71**	**864.13**	**1,039**	**1,418**	**1,691**

Note: Revenue includes only total operating revenues.
Source: Bhutan Airlines Corporation Ltd., Thimphu.

Table 8.7: Number of Flights Made by Tashi Air by International and by Area of Operation, (2013-2017)

Area of Operation	2013	2014	2015	2016	2017
Paro to Kolkata	16	353	327	346	331
Kolkata to Paro	15	351	328	334	328
Paro to Bangkok	77	388	352	353	370
Bangkok to Paro	78	387	351	353	371
Kolkata to Bangkok	16	353	326	327	313
Bangkok to Kolkota	15	351	328	315	309
Paro to Kathmandu	...	110	128	175	129
Kathmandu to Paro	...	110	125	162	120
Delhi to Paro	...	1	21	148	153
Paro to Delhi	...	...	21	148	152
Paro to Gaya	...	...	...	8	20
Gaya to Paro	...	...	...	8	20
Bangkok to Gaya	...	...	...	8	20
Gaya to Bangkok	...	...	...	8	20
Kathmandu to Delhi	...	...	...	...	14
Delhi to Kathmandu	...	...	...	...	8
All sectors	**217**	**2,404**	**2,307**	**2,693**	**2,678**

Note: Flights includes Scheduled, Additional and Chartered Flights.
Source: Bhutan Airlines Corporation Ltd., Thimphu.

Table 8.8: Type of Helicopter Services and Number of Flights Made, 2017

Type of Services	No. of Flights
Medical Evacuations	159
Fire Fighting	4
Airlifting of relief materials during the flood	0
Aerial Works	20
Tourist Charter	110
Local Charter	85
Local Charter - Highlanders	40
Total	**418**

Source: Annual Info-Comm and Transport Statistics, MoIC, Thimphu.

Table 8.9: Number of Telephone Connection Capacity by Dzongkhag, (2013-2017)

Dzongkhag	2013	2014	2015	2016	2017
Bumthang	712	662	612	503	521
Chhukha	3,662	2,763	2,706	2,535	2,448
Dagana	208	183	103	172	179
Gasa	50	45	42	65	67
Haa	403	356	326	301	305
Lhuentse	108	128	138	136	123
Monggar	793	705	671	610	586
Paro	1,910	1,768	1,560	1,689	1,737
Pema Gatshel	265	270	172	211	204
Punakha	650	552	442	424	383
Samdrup Jongkhar	1,112	1,063	946	922	890
Samtse	764	723	620	557	540
Sarpang	1,294	1,217	1,218	1,031	984
Thimphu	10,745	10,417	9,578	9,445	9,993
Trashigang	824	784	761	675	643
Trashi Yangtse	140	159	152	167	173
Trongsa	644	416	377	380	363
Tsirang	347	272	250	224	197
Wangdue Phodrang	1,501	1,057	799	734	740
Zhemgang	353	283	338	300	288
Bhutan	**26,485**	**23,823**	**21,811**	**21,081**	**21,364**

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.10: Number of Telephone Trunk Circuits, Bhutan, June 2018

Sector	Type of Connection	No. of Circuits
Thimphu Softswitch- USA (TELCO)	N°7	123
Thimphu Softswitch- Thimphu Bmobile	N°7	337
Thimphu Softswitch- Phuentsholing (NEC)	No trunk circuits	
Thimphu Softswitch- Samtse (NEC)	No trunk circuits	
Thimphu Softswitch- Wangdue (E10)	No trunk circuits	
Thimphu Softswitch- Singapore (SINGTEL)	N°7	26
Thimphu Softswitch- Thailand (CAT Telecom)	N°7	30
Thimphu Softswitch- Thimphu Tashicell (National trunk)	N°7	246
Thimphu Softswitch- Bangladesh (MIRT)	N°7	29
Thimphu Softswitch- Nepal (NTC)	N°7	31
Thimphu Softswitch- Samdrupjongkhar (Corvan)	No trunk circuits	
Thimphu Softswitch- London (British Telecom)	No trunk circuits	
Thimphu Softswitch- Thimphu Tashicell International	N°7	123
Thimphu Softswitch- India (BSNL Chennai)	N°7	122
Thimphu Softswitch- India (BSNL Delhi)	N°7	122
Thimphu Softswitch- India (Airtel Chennai)	N°7	91
Thimphu Softswitch- India (Airtel Delhi)	N°7	122
Thimphu Softswitch- India (RELIANCE)	N°7	61
Thimphu Softswitch-Thimphu Druk Air (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BPC (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BOB CC (PRA)	PRA link	30
Thimphu Softswitch-Thimphu NRDCL (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BT EPBAX (PRA)	PRA link	30
Thimphu Softswitch-Thimphu RBP (PRA)	PRA link	30
Thimphu Softswitch-Thimphu UNDP (PRA)	PRA link	30
Thimphu Softswitch-Thimphu LAND COMMISSION (PRA)	PRA link	30
Thimphu Softswitch-Thimphu BHUTAN HOTEL (PRA)	PRA link	30
Thimphu Softswitch- Thimphu DCCL (PRA)	PRA link	30
Thimphu Softswitch- Thimphu MoH (PRA)	PRA link	30
Thimphu Softswitch- Thimphu BTL (PRA)	PRA link	30
Thimphu Softswitch- Paro LE MERIDIEN(PRA)	PRA link	30
Thimphu Softswitch- Thimphu Bhutan Post (PRA)	PRA link	30
Thimphu Softswitch- Thimphu G2C (PRA)	PRA link	30
Thimphu Softswitch- Thimphu BoB (PRA)	PRA link	30
Thimphu Softswitch- Thimphu NPPF (PRA)	PRA link	30
Thimphu Softswitch- Thimphu BNB (PRA)	PRA link	30

cont...

Table 8.10 cont...

Sector	Type of Connection	No. of Circuits
Thimphu Softswitch- Thimphu RICBL (PRA)	PRA link	30
Thimphu Softswitch-PRA DRC (PRA)	PRA link	30
Thimphu Softwitch-Thimphu DGPC (PRA)	PRA link	30
Thimphu Softswitch-Phuntsholing DGPC (PRA)	PRA link	30
Thimphu Softswitch- Japan (KDDi) (VoIP)	VoIP	120
Thimphu Softswitch- Japan (KDDi) (ONLY JAPAN) (VoIP)	VoIP	4
Thimphu Softswitch- CAT Telecom (VoIP)	VoIP	80
Thimphu Softswitch- USA (TELCO) (VoIP)	VoIP	60
Thimphu Softswitch- MIR Telecom (VoIP)	VoIP	60
Thimphu Softswitch- GET A CALL (VoIP)	VoIP	100
Thimphu Softswitch-Bmobile SIP Thimphu	VoIP	1000
Thimphu Softswitch-Bmobile SIP Kanglung	VoIP	1000
Thimphu Softswitch-TATA_SINGAPORE GSX A	VoIP	300
Thimphu Softswitch-TATA_SINGAPORE GSX B	VoIP	300
Trongsa - Zhemgang (corDECT)	No trunk circuits	
Trongsa - Zhemgang (corVAN)	No trunk circuits	
Trongsa - Phuntsholing (NEC)	No trunk circuits	
Phuentsholing - Samtse	No trunk circuits	
Total trunk lines (National, International and DAMA)		**5,147**

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.11: Number of Trunk Lines, Connection Capacities, Sets in Use & Mobile Subscribers, (2013-2017)

Details	2013	2014	2015	2016	2017
Trunk lines	3,392	2,906	2,314	2,434	2,242
Satellite Communications	871	783	...	...	...
International Lines	871	783	...	...	...
Digital Microwave	...	...	...	...	...
Digital Radio Concentrator System	...	...	...	...	...
DRMASS	...	...	...	...	...
VOIP (International)	...	264	424	424	424
SDH	...	...	...	...	...
Connection capacity	48,534	48,534	44,192	44,144	43,368
Telephone sets in use	26,485	26,952	21,460	21,081	21,364
B-Mobile Subscribers	406,353	454,543	486,228	475,373	475,394
Internet (B-mobile)	197,458	250,907	337,969	375,007	438,307
3 G	112,119	181,585	337,969	375,007	438,307
GPRS/EDGE	85,339	69,322	...	...	...
Internet (Druknet)	20,630	25,204	28,037	16,753	15,921
Broadband	20,391	24,904	27,606	16,172	15,323
Leased Line	239	300	431	581	598

Note: a. Digital Radio Concentrator System, DRMASS, and SDH systems has been removed therefore no figures on these.
b.The source also cannot provide data on Digital Microwave due to system migration(SAP) at BTL.
c. Trunk lines are inclusive of international trunk lines
d. Earlier the Telecom use to have a parameter (REGSER-12) in MSC to segregate 3G users and 2G users but then it was removed from system by Ericsson. By default all b-mobile users are 3G although we have 2G user.

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.12: Number of Telephone Trunk Calls and Revenue Earnings, Bhutan, (2013-2017)

Type of Call	2013	2014	2015	2016	2017
Domestic calls	27,790,081	16,744,884	16,156,253	15,014,226	15,977,980
International calls	918,797	588,679	441,089	377,738	332,676
India	779,853	495,364	375,266	325,722	291,204
Other	138,944	93,315	65,823	52,016	41,472
All calls	28,708,878	17,333,563	16,597,342	15,391,964	16,310,656
Revenue earnings (Nu. In Million)	**108**	**98**	**93**	**102**	**95**

Note: Revenue Earnings are Revenue from Telephone Trunk Calls only
Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.13: Number of B-Mobile Trunk Calls and Revenue Earnings, Bhutan, (2013 - 2017)

Type of Call	2013	2014	2015	2016	2017
Total no. of subcribers	406,353	454,543	486,228	475,373	475,394
Domestic calls	...	...	...	...	...
International calls	...	...	...	...	...
India	...	...	...	...	...
Other	...	...	...	...	...
Mobile/GPRS subscribers	85,339	69,322	...	...	...
Mobile 3G	112,119	181,585	337,969	375,007	438,307
Revenue earnings (Nu.in Million)	**2,328**	**2,305**	**2,691**	**3,038**	**3,194**

Note: a. Since the Bhutan telecom Ltd. did not have data recording system, they have no data for the past years, will be available only by Febuary 2014.
b. Revenue Earnings are revenue from three services (mobile, Internet and FL)
Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.14: Number of Tashicell Trunk Calls and Revenue Earnings, Bhutan, (2013-2017)

Type of Call	2013	2014	2015	2016	2017
Total no. of subcribers	139,589	161,993	189,805	223,266	255,229
Domestic calls	65,016,115	19,307,646	74,013,660	151,060,457	86,250,668
International calls	8,186,128	6,805,167	6,004,497	10,107,815	7,402,851
India	7,776,822	6,540,465	5,800,733	...	7,230,994
Others	409,306	264,702	203,764	...	171,857
GPRS/EDGE/3G	21,022	74,595	119,893	177,668	206,068
Revenue earnings (Nu. In Million)	**482.70**	**750.70**	**918.47**	**27.71**	**88.00**

Note: a. The figures mentioned here for the domestic and international calls are counts not minutes of calls.
b. And the figures includes both prepaid and postpaid calls made.

Source: Tashi Infocomm Ltd., Thimphu.

Table 8.15: Number of Postal Infractructures, (2013-2017)

Postal Infrastructure	2013	2014	2015	2016	2017
General Post Offices	4	4	4	4	4
Post Offices	39	39	36	37	39
Community Mail Offices	41	41	35	34	6
Fax Offices	44	44	41	41	39
Total	**128**	**128**	**116**	**116**	**88**

Note: a. WT.Stations are merged with Telecommunication Division since july 1995, includes 3 stations installed at New Delhi, Dhaka and Kalingpong.
b. Fax Offices are Post Offices having fascimile services, they are not different establishment.

Source: Bhutan Postal Corp. Ltd., Thimphu.

Table 8.16: Volume of Mail, by Type of Article, (2013-2017)

Type of Service	2013	2014	2015	2016	2017
Domestic Mail					
Ordinary Mail	362,529	306,070	102,168	129,817	66,635
Registered	95,436	89,956	73,990	64,083	...
Parcel	1,668	1,033	680	210	...
Facsimile message	1,724	2,666	3,124	1,989	879
Newspapers	10,179	9,903	16,379	15,570	...
Local Urgent Mail (LUM)	176,278	145,787	145,684	152,391	24,004
Express mail service (EMS)	9,812	10,496	12,574	26,148	27,872
International Mail Dispatch					
Ordinary Mail	39,097	60,239	22,367	18,190	5,450
Registered	7,371	6,985	6,539	6,033	5,750
Parcel	69	56	168	110	50
FedEx	558	355	305	394	322
Facsimile message	164	183	108	18	...
Post Overnight Courier (POC)	2,816	2,786	884	2,888	973
Express mail service (EMS)	6,113	2,589	3,648	4,748	7,005
International Mail Receipt					
Ordinary Mail	283,732	246,223	170,436	246,640	...
Registered	6,773	8,040	13,289	38,628	75,428
Parcel	1,002	2,185	2,176	2,615	3,136
FedEx	1,635	1,101	1,492	3,588	1,890
Facsimile message	192	228	75	...	...
Post Overnight Courier (POC)	1,101	2,291	2,047	1,952	859
Express mail service (EMS)	5,033	6,087	7,564	8,078	7,278
Revenue Earnings (Nu. in million)	**125.53**	**115.40**	**123.19**	**152.26**	**...**
Total mail items	**1,013,282**	**905,259**	**483,652**	**724,090**	**227,531**

Source: Bhutan Postal Corp. Ltd, Thimphu.

Table 8.17: Financial Services, Number and Value of Money Order by Type, Bhutan, (2013-2017)

Type	2013	2014	2015	2016	2017
Total money orders					
Number of orders	50,757	33,906	21,609	14,619	
Amount of orders	144,995,795	81,468,850	88,445,927	52,872,362	
Domestic money order					
Number of orders	48,917	32,165	18,889	13,363	
Amount of orders	131,017,148	65,421,740	53,303,329	39,783,948	18,472,135
International money order					
Dispatched					
Number of orders	614	1,740	2,720	1,256	
Amount of orders	21,126,154	16,046,110	35,142,589	13,088,414	11,904,046
Receipts					
Number of orders	27	1	0	0	0
Amount of orders	237,000	1,000	0	0	0
Others					
Number of pensioners	1,632	1,723	1,833	1,839	1,441
Amount of pensioners	47,144,228	53,471,807	56,065,814	57,171,344	49,182,092
WUMT Receipts					
Numbers	13,450	16,295	22,189	31,634	39,966
Amount (USD)	6,800,000	7,516,253.49	9,943,621.00	14,279,136.00	1,125,306,451.00
WUMT Sent					
Numbers	1,433	1,310	1,389	973	170
Amount (USD)	300,000	420,030.38	568,883.43	268,718.00	2,379,722.00

Source: Bhutan Postal Corp. Ltd, Thimphu.

Table 8.18: Volume of Mail, by Type of Article, DHL, (2013-2017)

Type of Service	2013	2014	2015	2016	2017
Inbound					
Documents (DOX)	6,214	7,871	5,760	5,200	5,820
World wide Express (WPX)	1,716	3,511	2,592	2,100	2,510
Outbound					
Documents (DOX)	2,909	5,349	2,753	2,550	2,725
World wide Express (WPX)	539	4,613	426	432	498
Revenue Earnings (Nu. In million)	**6.53**	**222.60**	**20.10**	**19.10**	**19.80**
Total mail items	**11,378**	**21,344**	**11,531**	**10,282**	**11,553**

Source: DHL Courier Service, Thimphu.

Electricity is the main energy source of lighting in 99 percent of households in Bhutan as per the Bhutan Living Standard Survey (BLSS) 2017. It is also the most widely used sources of energy for cooking with 94.9 percent households. Electricity generation, though still relatively small in comparison with the rest of the world is growing in importance. Up until recently, electricity generation was based on small diesel generating and micro hydro stations, providing limited supply of electricity, which was supplemented by imports from India. The economy of the country is largely dependent on the development of Hydropower generations. Hydropower plants contribute significantly to the overall GDP Growth and economy, both during constructions and operation phases. With the commissioning of the first two units of Chhukha Hydro Projects in 1986, and the other two units in 1988 Bhutan substantially increased its electricity generation and became a significant exporter of electricity to India. The revenue earned from export of electricity is a significant contributor to the overall revenues of the kingdom.

The Chhukha Hydro power with the installed capacity of 336 MW, the Kurichu Hydro power with 60 MW and Basochu Hydro Power with 64 MW generated 1,883.18 MU, 389.56 MU and 338.98 MU respectively in 2017. With the commissioning of mega Tala Hydro Power Project with the installed capacity of 1,020 MW, there is a substantial increase in the energy generation of the country. In 2017, the total electricity generation was 7,729.77 Million Unit (MU). Domestic consumption of electricity has been marginal but should increase with the ongoing emphasis on Rural Electrification Programs. Other forms of energy such as the solar, wind and biomass energy are being explored.

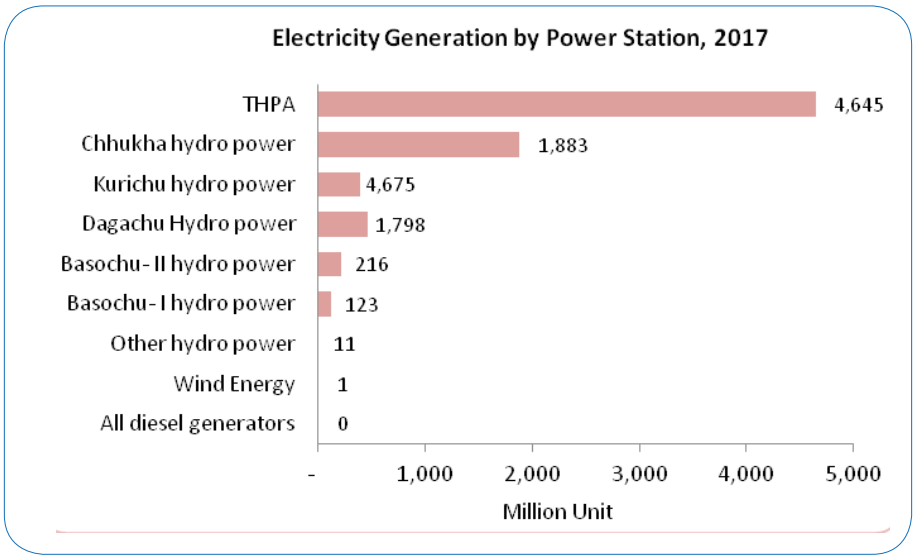


Table 9.1: Hydro Generating Stations and Their Capacities, Bhutan, (2015-2017)

Generating Stations	2015						
	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissi-oning	Installed Capacity	
	(No. x MW)	(MW)	(MW)	(GWh)		(No. x MW)	
Large Hydroelectric plants							
Chhukha	4X84.00	336.000	368.000	1,867.36	1986-88	4X84.00	
Kurichu (Mongar)	4X15.00	60.000	66.400	379.02	2001	4X15.00	
Basochu..I (W/phodrang)	2X12.00	24.000	24.000	113.21	2002	2X12.00	
Basochu..II (W/phodrang)	2X20.00	40.000	40.000	199.55	2004	2X20.00	
Tala (Chukha)	6X170.00	1020.000	1122.000	4,821.75	2006-07	6X170.00	
Dagachu (Dagana)	2X63.00	108.000	100.790	350.26	Feb-15	2X63.00	
Total	**1606.000**	**1588.000**	**1721.190**	**7,731.14**		**1606.000**	
Mini and Micro Hydels	**(No. x kW)**	**(kW)**	**(MW)**			**(No. x kW)**	
Jushina (Thimphu)	4x90	...	0.180	0.944	1967	4x90	
Hesothangkha (Wangdue)	3x100	...	0.070	0.377	1972	3x100	
Chenari (Tashigang)	3x250	...	0.000	0.000	1972	3x250	
Gidakom (Thimphu)	5x250	...	0.630	4.919	1973	5x250	
Khalanzi (Mongar)	3x130	...	0.000	0.000	1976	3x130	
Chumey (Bumthang)	3x500	...	0.000	0.000	1988	3x500	
Gangzur (Lhuentse)	2x60	...	0.050	0.419	2000	2x60	
Rukubji (Wangdue)	1x40	...	-	0.555	1986-87	1x40	
Tangsibji (Trongsa)	1x30	...	0.000	0.291	-do-	1x30	
Sherabling (Trongsa)	1x50	...	0.000	0.000	-do-	1x50	
Bubja (Trongsa)	1x30	...	0.000	0.000	-do-	1x30	
Tamzhing (Bumthang)	1x30	...	...	0.015	-do-	1x30	
Ura (Bumthang)	1x50	...	...	0.159	-do-	1x50	
Surey (Sarpang)	Dismantled	...	0.000	0.000	-do-	Dismantled	
Kekhar (Zhemgang)	1x20	...	...	0.000	-do-	1x20	
Changchey (Tsirang)	2x100	...	0.060	0.050	1991	2x100	
Tingtibi (Zhemgang)	2x100	...	0.100	0.019	1992	2x100	
Darachhu (Dagana)	2x100	...	0.125	0.303	1992	2x100	
Lingzhi (Thimphu)	1x8	...	...	...	1999	1x8	
Rangjung (Tashigang)	2x1100	...	1.110	7.122	1996	2x1100	
Rongchu (Lhuentse)	2x100	...	0.047	0.657	2001	2x100	
Chendebji (Trongsa)	1x70	...	0.000	0.119	2005	1x70	
Sengor (Mongar)	1x100	...	...	0.064	2007	1x100	
Total	**8098.000**	**...**	**2.372**	**16.014**		**8098.000**	

Note: The generating capacity of power plants are not available, so the generating capacity and peak generation from last year (2011) where applicable has been used.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

2016					2017				
	Generating Capacity	Peak Generation	Energy Generation	Year of Commissi-oning	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissi-oning
	(MW)	(MW)	(GWh)		(No. x MW)	(MW)	(MW)	(GWh)	
	360.000	368.000	1929.682	1986-88	4X84.00	360.000	368.000	1,883.18	1986-88
	60.000	64.000	390.748	2001	4X15.00	60.000	66.000	389.56	2001
	24.000	24.000	116.707	2002	2X12.00	24.000	24.900	122.55	2002
	40.000	40.000	205.969	2004	2X20.00	40.000	40.280	216.43	2004
	1020.000	1122.000	4924.505	2006-07	6X170.00	1020.000	1122.000	4,645.10	2006-07
	108.000	118.000	374.232	42036	2X63	108.000	126.770	460.35	Feb-15
	1612.000	**1736.000**	**7941.843**		**1606.000**	**1612.000**	**1747.950**	**7,256.82**	
	(kW)	**(MW)**			**(No. x kW)**	**(kW)**	**(MW)**	**(GWh)**	
	...	0.180	1.273	1967	4x90	...	0.050	0.330	1967
	...	0.680	0.093	1972	3x100	...	0.080	0.242	1972
	...	0.000	0.000	1972	3x250	...	0.000	0.000	1972
	...	0.675	4.738	1973	5x250	...	0.675	4.072	1973
	...	0.000	0.000	1976	3x130	...	0.000	0.798	1976
	...	0.000	0.000	1988	3x500	...	0.000	0.000	1988
	...	0.030	0.018	2000	2x60	...	0.030	0.136	2000
	...	...	0.016	1986-87	1x40	...	...	0.000	1986-87
	...	0.000	0.047	-do-	1x30	...	0.000	0.011	-do-
	...	0.000	0.000	-do-	1x50	...	0.000	0.011	-do-
	...	0.000	0.000	-do-	1x30	...	0.000	0.000	-do-
	...	...	0.015	-do-	1x30	...	...	0.000	-do-
	...	...	0.265	-do-	1x50	...	...	0.018	-do-
	...	0.000	0.000	-do-	1x20	...	0.000	0.000	-do-
	...	...	0.000	-do-	Dismantled	...	...	0.000	-do-
	...	0.660	0.252	1991	2x100	...	0.083	0.214	1991
	...	0.087	0.117	1992	2x100	...	0.143	0.347	1992
	...	0.285	0.385	1992	2x100	...	0.323	0.490	1992
	...	...	...	1999	1x8	...	...	...	1999
	...	0.746	2.810	1996	2x1100	...	1.387	4.166	1996
	...	0.480	0.765	2001	2x100	...	0.155	0.372	2001
	...	0.063	0.185	2005	1x70	...	0.000	0.000	2005
	...	0.035	0.049	2007	1x100	...	0.058	0.013	2007
	...	**3.921**	**11.027**		**8098.000**	**...**	**2.984**	**11.222**	

Table 9.2: Details of Diesel Generator Sets, Bhutan, 2017

Dzongkhag/ Generating tations	No. & Rating of Machines (No.X kVA)	Total Capacity (kVA)	Energy Generated (KWh)
Bumthang		1,140.00	0.00
	DG set - I (380 kVA)		0.00
	DG set - II(380 kVA)		0.00
	DG set - III(380 kVA)		0.00
Chhukha		505.00	23820.00
	DG set (380 kVA)		23820.00
	DG set (125 kVA)		0.00
Dagana		380.00	0.00
	DG set(380 kVA)		0.00
Gelephu		1,183.00 `	0.00
	DG set (350kVA)		0.00
	DG set (318 kVA)		0.00
	DG set (515kVA)		0.00
Monggar		380.00	0.00
	DG set (380 kVA)		0.00
Pema Gatshel		380.00	0.00
	DG set (380 kVA)		0.00
Samdrup Jongkhar		380.00	0.00
	DG set (380 kVA)		0.00
Samtse		50.00	0.00
	DG set (50 kVA)		0.00
Thimphu		3,140.00	3294.93
	DG set (10 kVA)		1336.60
	DG set (1250 kVA)		1958.33
	DG set (1250 kVA)		0.00
	DG set (125 kVA)		0.00
	DG set (380 kVA)		0.00
	DG set (125 kVA)		0.00
Trongsa		250.00	0.00
	DG set (250 kVA)		0.00
Trashi Yangtse		380.00	0.00
	DG set(380 kVA)		0.00
Trirang		380.00	0.00
	DG set (380 kVA)		0.00
Zhemgang		380.00	0.00
	DG set (380 kVA)		0.00
Total	**(8,928 kVA)**	**8,928.00**	**54,229.86**

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.3 Major Transmission Lines, 2017

Line Name	No. of Towers	400 kV	220 kV		132 kV	
		D/C	S/C	D/C	S/C	
Tala - Khogla	104	24.615				
Tala - Malbase - Pugli	48	49.528				
Chukha-Gedu-India Border	97			35.780		
Chukha-Gedu-Malbase	95		29.841			
Chukha-Semtokha	144		54.010			
Semtokha-Rurichhu	106		44.900			
Rurichhu - Tsirang	114		46.600			
Malbase-India Border (Birpara)	6		4.075			
Malbase Singhigaon (Fdr-I)	6		2.607			
Malbase Singhigaon (Fdr-II)	12					
Kurichhu-Kilikhar	28				10.060	
Kilikhar-Kanglung	81				29.705	
Kilikhar-Tangmachhu (Lhuntse)	114				42.800	
Kurichhu- Nangkor	98				31.078	
Nangkor-Deothang	60				23.300	
Nangkor-Nganglam	102				33.793	
Nganglam-Tingtibi	246				83.296	
Gelephu-Pelrithang (Lodrai)	122				10.784	
Pelrithang (Lodrai) - Tingtibi	20				34.956	
Gelephu-India Border	1				0.100	
Deothang-Motanga	38				10.451	
Motanga - India border					1.894	
Tingtibi - Yurmoo	83				32.628	
Chhukha-Chumdo	200					
Chumdo-Khasadrapchu						
Khasadrapchu-Olakha						
Khasadrapchu - Jemina	23					
Chumdo-Paro	84					
Chumdo-Haa	123					
Watsa Tie Line	4					
Semtokha-Olakha	7					
Semtokha - Lobeysa	81					
Lobeysa-Rurichhu	76					
Rurichhu-Hebisa	14					
Semtokha-Dechencholing	46					
Chhukha-Gedu	73					

	66kV				Conductor Type	Remarks
	S/C	D/C	Q/C	UG Cable		
					Twin Moose ACSR	
					Twin Moose ACSR	
					Zebra ACSR	
					Zebra ACSR	
					Zebra ACSR	
					Zebra ACSR	Charged at 66kV
					Zebra ACSR	
					Zebra ACSR	
					Zebra ACSR	
					Zebra ACSR	
					Panther ACSR	
					Panther ACSR	Realigned at Kilikar (2012)
					Panther ACSR	22-Feb-02, Charged at 33 kV
					Panther ACSR	Relocated KP20 KP21(2013)
					Panther ACSR	
					Panther ACSR	Realigned at Denchi (2012)
					Panther ACSR	
					Panther ACSR	
					Panther ACSR	
					Panther ACSR	
					Panther ACSR	
					Panther ACSR	reroute in 2016
					Panther ACSR	
	36.980				Dog ACSR	
	4.780				Dog ACSR	
	11.740				Dog ACSR	1 km 66kV UG Cabling at IT Park
		5.960			Dog ACSR	
	24.010				Dog ACSR	
	33.400				Dog ACSR	
	0.500				Dog ACSR	
	1.700				Dog ACSR	
	24.430				Dog ACSR	Realigned at Dochula
	20.300				Dog ACSR	
	3.080				Dog ACSR	
	11.450				Dog ACSR	
	20.400				Dog ACSR	

cont...

Table 9.3 cont...

Line Name	No. of Towers	400 kV		220 kV	132 kV	
		D/C	S/C	D/C	S/C	
Gedu-Phuentsholing	67					
Phuentsholing-Gomtu	95					
Malbase-Phuentsholing	24					
Malbase-Pasakha (multi circuit)	17					
Malbase Samtse-Singhigaon	107			41.642		
Samtse-Sibsoo	96					
Samtse-Gomtu	53					
Yurmoo-Trongsa	73					
Yurmoo-Bumthang	134					
Tsirang- Jigmeling	69			30.565		
Tsirang-Dagachu Port head yard	56			20.202		
Jigmeling-Pelrithang(Lodrai)	28			10.42		
Tshendengang-Dagapela (LILO)	20			4.396		
Khasadrapchu-Olakha Pasakha Industrial Area						
Total	**3295**	**74.143**	**182.033**	**143.005**	**344.845**	

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

	66kV				Conductor Type	Remarks
	S/C	D/C	Q/C	UG Cable		
	16.700				Dog ACSR	
	26.900				Dog ACSR	
	8.690				Dog ACSR	reroute in 2016
			3.405		Dog ACSR	
					Zebra ACSR	Capitalized in 2014
		26.958			Wolf ACSR	Capitalized in 2014
		14.851			Wolf ACSR	Capitalized in 2014
	20.94				Wolf ACSR	Charged at 33kV
	34.856				Wolf ACSR	Charged at 33kV
					Zebra ACSR	2013
					Zebra ACSR	2013
					Zebra ACSR	Charged at 132 kV (2013)
					Zebra ACSR	2013
				1.000	UG	IT Park 2013
				5.018	UG	Pasakha Industrial Area
	300.856	**47.769**	**3.405**	**6.018**		**1,102.073**

Table 9.4: Monthly Revenue From Sale of Energy from Chhukha Power Plant, (2014-2017)

(Nu. in Million)

Month	2014			2015			2016			2017		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	81.71	81.71	163.42	68.90	49.40	118.30	83.96	47.19	131.15	120.54	100.03	220.58
February	42.63	40.92	83.55	37.35	42.24	79.60	42.01	43.30	85.32	52.39	78.43	130.82
March	69.12	38.53	107.65	69.84	39.23	109.07	72.87	41.40	114.27	109.92	96.11	206.03
April	93.26	29.86	123.12	322.04	26.94	348.98	216.36	38.73	255.09	339.89	67.57	407.45
May	231.78	16.88	248.66	354.83	10.84	365.67	234.60	39.99	274.59	321.10	60.40	381.50
June	445.31	0.00	445.31	483.13	1.63	484.76	435.61	31.40	467.01	468.27	56.40	524.67
July	630.46	0.00	630.46	624.09	0.00	624.09	686.97	52.21	739.18	813.82	67.31	881.13
August	630.43	0.00	630.43	616.15	0.00	616.15	687.53	52.21	739.74	790.18	71.25	861.42
September	612.75	0.00	612.75	616.69	11.47	628.16	677.92	46.61	724.53	707.62	68.69	776.31
October	480.12	0.75	480.87	472.73	25.13	497.86	802.27	49.56	851.83	588.18	70.25	658.42
November	229.08	22.17	251.25	222.71	40.63	263.34	415.22	69.28	484.50	255.98	88.06	344.04
December	0.00	37.99	37.99	123.48	47.68	171.16	208.31	62.41	270.73	113.44	108.36	221.80
Total	**3,546.63**	**268.81**	**3815.44**	**4011.96**	**295.19**	**4307.15**	**4563.64**	**574.29**	**5137.93**	**4681.31**	**932.87**	**5614.18**

Note: a. Internal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.5: Monthly Revenue From Sale of Energy From Tala Power Plant, (2014-2017)

(Nu. in Million)

Month	2014			2015			2016			2017		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	76.97	112.58	189.55	33.86	141.10	174.96	9.44	121.50	130.94	45.20	180.89	226.09
February	26.27	107.63	133.90	23.01	108.01	131.03	0.00	123.04	123.04	13.17	170.10	183.28
March	39.32	117.71	157.03	39.72	122.89	162.61	14.40	117.29	131.69	58.91	190.77	249.68
April	42.43	126.99	169.42	146.51	94.33	240.85	89.15	100.46	189.62	137.01	181.23	318.24
May	324.96	102.86	427.82	497.32	84.66	581.98	273.78	100.37	374.15	364.43	200.77	565.20
June	771.78	52.97	824.75	837.04	45.93	882.97	651.31	55.24	706.56	646.24	193.49	839.73
July	1,401.89	0.00	1401.89	1,341.20	0.00	1,341.20	1,267.54	0.00	1,267.54	1,402.40	252.67	1,655.06
August	1,417.43	0.00	1417.43	1,367.32	0.00	1,367.32	1,304.07	0.00	1,304.07	1,409.26	249.74	1,659.00
September	1,373.63	0.00	1373.63	1,305.72	0.00	1,305.72	1,281.66	0.00	1,281.66	1,206.11	202.11	1,408.22
October	710.27	55.94	766.21	650.75	64.86	715.61	1,031.88	9.70	1,041.58	670.12	227.34	897.47
November	249.81	114.41	364.22	241.47	100.20	341.67	377.40	67.27	444.67	211.11	216.61	427.72
December	102.21	142.10	244.31	93.16	129.79	222.95	163.56	91.32	254.89	75.37	216.21	291.59
Total	**6536.96**	**933.18**	**7470.14**	**6,577.10**	**891.77**	**7,468.87**	**6,464.21**	**786.19**	**7,250.40**	**6,239.32**	**2,481.94**	**8,721.26**

Note: a. Internal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.6: Monthly Revenue From Sale of Energy From Kurichu Power Plant, (2014-2017)

(Nu. in Million)

Month	2014			2015			2016			2017		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	0.00	40.16	40.16	0.00	43.83	43.83	48.89	0.00	48.89	0.00	23.27	23.27
February	0.00	38.48	38.48	0.00	37.92	37.92	43.66	0.00	43.66	0.00	19.13	19.13
March	0.00	39.28	39.28	0.00	42.48	42.48	48.09	0.00	48.09	0.00	27.23	27.23
April	0.00	31.34	31.34	0.00	32.13	32.13	18.81	0.00	18.81	0.00	43.26	43.26
May	19.78	29.23	49.01	30.27	26.62	56.89	10.34	6.79	17.13	19.70	46.34	66.04
June	33.55	26.53	60.07	36.81	26.45	63.26	0.00	26.55	26.55	28.25	49.08	77.32
July	44.70	24.90	69.60	37.23	18.48	55.70	0.00	30.53	30.53	26.59	54.70	81.29
August	41.86	27.40	69.26	33.75	27.08	60.83	0.00	33.55	33.55	35.18	49.01	84.19
September	41.30	26.14	67.44	33.59	11.03	44.63	0.00	27.54	27.54	33.04	49.77	82.81
October	20.37	30.93	51.31	19.60	13.50	33.10	0.00	26.63	26.63	30.46	48.23	78.69
November	0.00	32.86	32.86	0.00	28.49	28.49	0.00	0.00	0.00	0.00	40.79	40.79
December	0.00	43.60	43.60	0.00	42.85	42.85	19.87	0.00	19.87	0.00	30.51	30.51
Total	**201.55**	**390.85**	**592.40**	**191.25**	**350.86**	**542.11**	**2,185.79**	**151.58**	**341.24**	**173.21**	**481.30**	**654.51**

Note: Interal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.7: Monthly Revenue From Sale of Energy From Dagachu Power Plant, (2016-2017)

(Nu. in Million)

Month	2015			2016			2017		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	0.00	0.00	0.00	0.00	0.00	0.00	52.01	0.00	52.01
February	7.12	0.00	7.12	0.00	0.00	0.00	36.97	0.00	36.97
March	28.83	0.00	28.83	10.65	0.00	10.65	42.19	0.00	42.19
April	37.27	0.00	37.27	37.82	0.00	37.82	51.35	0.00	51.35
May	45.01	0.00	45.01	39.14	0.00	39.14	56.86	0.00	56.86
June	96.34	0.00	96.34	92.07	0.00	92.07	124.90	0.00	124.90
July	144.68	0.00	144.68	250.48	0.00	250.48	212.71	0.00	212.71
August	176.11	0.00	176.11	246.52	0.00	246.52	233.12	0.00	233.12
September	180.13	0.00	180.13	195.37	0.00	195.37	211.61	0.00	211.61
October	146.35	0.00	146.35	132.69	0.00	132.69	150.72	0.00	150.72
November	81.23	0.00	81.23	112.86	0.00	112.86	76.25	0.00	76.25
December	45.52	0.00	45.52	71.83	0.00	71.83	54.24	0.00	54.24
Total	**3,003.59**	**0.00**	**988.59**	**3,205.42**	**0.00**	**1,189.42**	**1,302.93**	**0.00**	**1,302.93**

Note: Internal refers to the sale of energy by BPC only.

Source: Department of Hydropower & Power Systems, MoEA, Thimphu.

Table 9.8: Details of Domestic Electrical Energy Consumption, (2013-2017)

Details	2013	2014	2015	2016	2017
Towns electrified (numbers)	51	52	57	55	51
Villages electrified (numbers)	3,242	3,675	3,719	3,786	3,909
Total Consumers ('000)	146.5	149.1	168.3	176.4	182.5
Sales of energy (Nu.in million)	3,346.6	3,959.8	4,576.3	4,771.6	4,913.9
Per capita energy consumption (kWh)	2,625.1	2,798.8	2,804.3	2,673.1	2,877.8

Note: Number of towns have been modified from BPC

Source: Department of Hydropower & Power Systems, MoEA and BPC, Thimphu.

The tourism industry in Bhutan began in 1974. The government agency, erstwhile Bhutan Tourism Corporation, controlled tourism until its privatization in 1991. The revenue generation from the tourism sector has increased from over USD 2 million in the late 1980's to over USD 79.81 million in 2017. The tourism industry in Bhutan enjoyed continued growth rate with the tourist arrivals in the country rising steadily during the 1990s through 2000, while in 2001 there was a comparative decrease in tourist arrivals owing to terrorism and outbreak of SARS. However, the industry saw growing number of international tourist arrival thereafter. In 2008 tourist arrivals had grown significantly than the usual trends owing to the Coronation and the Centenary celebrations where Bhutan had unprecedented media coverage. Also the Smithsonian festival in 2008 also put Bhutan into the international limelight and must have contributed to the growth in numbers.

Bhutan remains a much admired destination throughout the global tourism industry, particularly in the high-end markets. This is attributed to the pristine state of the country's cultural and natural heritage, which attracts both an affluent and adventurous clientele, political stability and good governance, which ensures equitable and sustainable national development. In 2015, Bhutan celebrated the 60th birth anniversary of His Majesty the Fourth Druk Gyalpo, the Jewel of Bhutan. To commemorate this special year, Bhutan declared 2015 as "Visit Bhutan Year" to allow visitors from all over the world to join in the celebrations of the Bhutanese for a much loved and revered monarch. There is unequal distribution of tourist arrival in Bhutan in terms of time of their visit. Majority of tourist arrivals are in the month of March, April and May. Paro, Thimphu and Punakha received the largest number of tourist in 2017, also recorded maximum bed nights by Dzongkhag. "Culture and Nature" has always been the Unique Selling Proposition (USP) for the tourism industry of Bhutan.

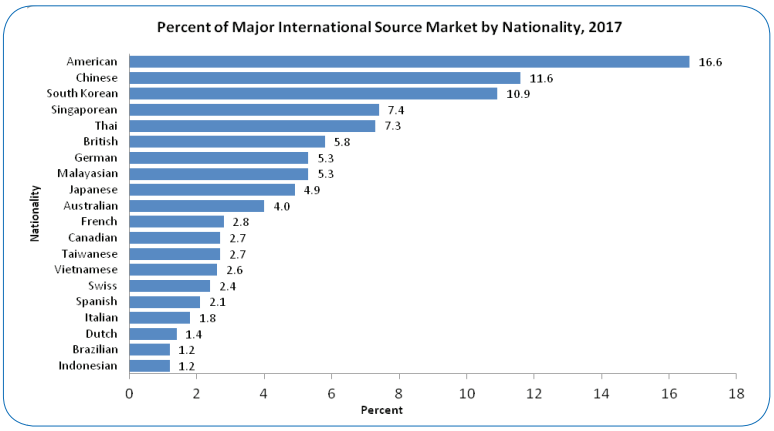


Table 10.1: Annual International Tourist Arrivals by Country and Region, Bhutan, (2013-2017)

Country	2013	2014	2015	2016	2017
AFRICA	**94**	**160**	**112**	**99**	**106**
East Africa	19	16	17	34	22
Burundi	0	0	0	0	0
Comoros	0	0	0	1	0
Djibouti	0	1	0	0	0
Eritrea	0	0	0	0	0
Ethiopia	2	0	0	3	1
Kenya	5	7	10	12	9
Madagascar	1	0	0	0	0
Malawi	0	0	0	2	0
Mauritius	5	8	4	10	10
Mozambique	2	0	0	0	1
Reunion	0	0	0	0	0
Rwanda	0	0	0	0	0
Seychelles	2	0	0	0	0
Somalia	0	0	0	0	0
Tanzania	0	0	1	2	1
Uganda	1	0	1	2	0
Zambia	0	0	0	0	0
Zimbabwe	1	0	1	2	0
Other countries of East Africa	0	0	0	0	0
Central Africa	0	2	2	0	1
Angola	0	0	1	0	0
Cameroon	0	0	0	0	0
Central African Republic	0	0	0	0	0
Chad	0	2	1	0	1

Congo	0	0	0	0	0
Congo, Democratic Republic of the	0	0	0	0	0
Equatorial Guinea	0	0	0	0	0
Gabon	0	0	0	0	0
Sao Tome and Principe	0	0	0	0	0
Other countries of Central Africa	0	0	0	0	0
North Africa	6	12	4	4	2
Algeria	1	2	2	0	2
Morocco	1	2	2	4	0
South Sudan	0	0	0	0	0
Sudan	0	0	0	0	0
Tunisia	4	8	0’	0	0
Western Sahara	0	0	0	0	0
Other countries of North Africa	0	0	0	0	0
South Africa	62	115	80	58	75
Botswana	0	0	1	0	0
Lesotho	0	0	0	0	0
Namibia	6	6	5	5	1
South Africa	56	109	70	53	74
Swaziland	0	0	1	0	0
Other countries of Sourthern Africa (Motswana)	0	0	3	0	0
West Africa	7	15	9	3	6
Benin	0	1	0	0	0
Burkina Faso	0	0	0	0	0
Cabo Verde	0	0	0	0	0
Cote d’lvoire	2	1	0	1	0
Ghana	1	0	1	1	1

cont...

Table 10.1 cont...

Country	2013	2014	2015	2016	2017
Guinea	0	0	0	0	0
Guinea-Bassau	0	0	0	0	0
Liberia	0	0	1	0	0
Mali	0	0	0	0	0
Mauritania	1	1	0	0	2
Niger	0	5	0	0	0
Nigeria	3	6	7	1	2
Saint Helena	0	0	0	0	0
Senegal	0	1	0	0	1
Sierrra Leone	0	0	0	0	0
Togo	0	0	0	0	0
Other countries of Western Africa	0	0	0	0	0
Other Africa	0	0	0	0	0
Other countries of Africa	0	0	0	0	0
AMERICAS	**9,079**	**9,845**	**9,392**	**9,432**	**12,299**
Caribbean	13	18	13	8	13
Anguilla	0	0	0	0	0
Antigua and Barbuda	0	0	0	0	1
Aruba	0	0	0	0	0
Bahamas	2	3	0	1	2
Barbados	0	0	0	0	1
Bermuda	0	0	0	0	0
Bonaire	0	0	0	0	0
British Virgin Islands'	0	0	0	0	0
Cayman Islands	0	0	0	0	0
Cuba	0	0	0	0	1

Curacao	0	0	0	0	0
Dominica	6	4	0	2	0
Dominican Republic	0	0	0	0	4
Grenada	0	0	0	0	0
Guadeloupe	0	0	0	0	0
Haiti	0	0	0	0	1
Jamaica	4	2	1	0	1
Martinique	0	0	0	0	0
Montserrat	0	0	0	0	0
Netherlands Antilles	0	0	0	0	0
Puerto Rico	0	0	0	0	0
Saba	0	0	0	0	0
Saint Kitts and Nevis	1	3	5	3	2
Saint Lucia	0	0	0	0	0
Saint Vincent and the Grenadines	0	0	0	0	0
Sint Eustatius	0	0	0	0	0
Sint Maarten (Dutch part)	0	0	0	0	0
Trinidad and Tobago	0	6	7	2	0
Turks and Caicos Islands	0	0	0	0	0
United States Virgin Islands	0	0	0	0	0
Windward Islands	0	0	0	0	0
Other countries of the Caribbean	0	0	0	0	0
Central America	8	24	22	46	51
Belize	0	1	2	1	0
Costa Rica	2	5	6	35	26
El Salvador	2	2	0	2	2
Guatemala	0	12	7	7	15

cont...

Table 10.1 cont...

Country	2013	2014	2015	2016	2017
Honduras	1	0	1	0	0
Nicaragua	1	3	1	0	0
Panama	2	1	5	1	8
Other countries of Central America	0	0	0	0	0
North America	8,218	8,833	8,557	8,707	11,109
Canada	1,055	1,297	1,177	1,109	1,524
Greenland	0	0	0	0	0
Mexico	236	245	243	308	365
Saint Pierre and Miquelon	0	0	0	0	0
United States of America	6,927	7,291	7,137	7,290	9,220
Hawaii, USA	0	0	0	0	0
Other countries of North America	0	0	0	0	0
South America	840	970	800	671	1,126
Argentina	114	119	84	162	175
Bolivia, Plurinational State of	2	2	2	1	2
Brazil	556	583	538	321	680
Chile	87	157	78	73	102
Colombia	39	64	57	56	90
Ecuador	6	1	6	4	7
Falkland Islands (Malvinas)	0	0	0	0	0
French Guiana	0	0	0	0	0
Guyana	3	0	0	0	0
Paraguay	0	3	1	0	11
Peru	8	23	14	31	14
Surinam	2	0	0	0	0
Uruguay	2	6	14	7	20

Venezuela	21	12	6	16	25
Other countries of Sourthern Americas	0	0	0	0	0
Other Americas	0	0	0	0	0
Other countries of the Americas	0	0	0	0	0
EAST ASIA AND THE PACIFIC	**21,245**	**32,105**	**24,668**	**30,288**	**33,257**
North-East Asia	10,478	12,957	13,710	16,893	16,712
China	4,764	8,111	9,399	9,210	6,421
Hongkong, China	0	0	0	0	0
Japan	4,015	2,707	2,437	4,832	2,744
Korea, Democratic People's Republic of Korea (north)	2	3	0	0	0
Korea, Republic of Korea (south)	596	858	640	1,035	6,048
Macao, china	0	0	0	0	0
Mongolia	0	10	7	4	8
Taiwan Province of China	1,101	1,268	1,227	1,812	1,491
Other countries of North-East Asia	0	0	0	0	0
South- East Asia	8,506	16,918	8,906	11,376	13,972
Brunei Darrussalam	8	7	3	17	39
Cambodia	3	1	6	10	8
Indonesia	579	619	333	536	664
Lao People's Democratic Republic	13	0	6	12	18
Malaysia	2,029	2,067	1,546	1,959	2,956
Myanmar	5	12	12	20	96
Philippines	240	206	234	383	549
Singapore	2,037	1,720	2,587	3,011	4,129
Thailand	3,494	12,105	3,778	4,175	4,047
Timor-Leste	0	0	0	0	0

cont...

Table 10.1 cont...

Country	2013	2014	2015	2016	2017
Viet Nam	98	181	395	1,253	1,423
Asean countries	0	0	0	0	0
Other countries of South-East Asia (Burmese)	0	0	6	0	43
Australia	2,255	2,230	2,051	2,017	2,571
Australia	2,044	2,037	1,833	1,818	2,249
New Zealand	211	193	218	199	322
Melanesia	6	0	1	2	2
Fiji	6	0	1	2	2
New Caledonia	0	0	0	0	0
Norfolk Island	0	0	0	0	0
Papua New Guinea	0	0	0	0	0
Solomon Islands	0	0	0	0	0
Vanuatu	0	0	0	0	0
Other countries of Melanesia	0	0	0	0	0
Micronesia	0	0	0	0	0
Christmas Island, Australia	0	0	0	0	0
Cocos (Keeling) Islands	0	0	0	0	0
Guam	0	0	0	0	0
Johnston Island	0	0	0	0	0
Kiribati	0	0	0	0	0
Kosrae State	0	0	0	0	0
Marshall Islands	0	0	0	0	0
Micronesia	0	0	0	0	0
Midway Islands	0	0	0	0	0
Nauru	0	0	0	0	0

Northern Mariana Islands	0	0	0	0	0
Palau	0	0	0	0	0
Pohnpei State	0	0	0	0	0
Truk State	0	0	0	0	0
Wake Island	0	0	0	0	0
Yap State	0	0	0	0	0
Other countries of Micronesia	0	0	0	0	0
Polynesia	0	0	0	0	0
American Samoa	0	0	0	0	0
Cook Islands	0	0	0	0	0
French Polynesia	0	0	0	0	0
Niue	0	0	0	0	0
Pitcairn	0	0	0	0	0
Samoa	0	0	0	0	0
Tokelau	0	0	0	0	0
Tonga	0	0	0	0	0
Tuvalu	0	0	0	0	0
Wallis and Futuna Islands	0	0	0	0	0
Other countries of Polynesia	0	0	0	0	0
Other East Asia and the Pacific	0	0	0	0	0
Other countries of Asia	0	0	0	0	0
Other countries of East Asia/Pacific	0	0	0	0	0
Other Countries of Oceania	0	0	0	0	0
EUROPE	**13,616**	**15,550**	**14,356**	**14,361**	**16,169**
Central/ Eastern Europe	1,148	1,378	1,080	1,188	1,406
Armenia	4	5	9	10	7

cont...

Table 10.1 cont...

Country	2013	2014	2015	2016	2017
Azerbaijan	0	0	2	8	2
Belarus	12	2	8	4	8
Bulagria	26	68	26	34	44
Czech Republic	161	195	157	195	145
Estonia	16	23	32	9	41
Georgia	1	2	2	5	2
Hungary	106	127	115	69	151
Kazakhstan	6	4	7	1	13
Kyrgyzstan	1	7	0	0	0
Latvia	17	10	16	44	35
Lithuania	18	37	43	14	50
Moldova, Republic of	0	1	0	0	3
Poland	288	289	284	313	312
Romania	34	55	23	64	78
Russian Federation	389	450	269	242	390
Slovakia	36	72	42	86	45
Tajikistan	0	0	0	0	0
Turkmenistan	0	0	0	2	2
Ukraine	33	31	44	88	78
Uzbekistan	0	0	1	0	0
Baltic Countries	0	0	0	0	0
Other countries of Central/ East Europe	0	0	0	0	0
Nothern Europe	3,188	3,634	4,037	4,114	4,241
Channel Islands	0	0	0	0	0
Denmark	202	188	210	208	197
Faeroe Islands	0	0	0	0	0

Finland	144	120	195	124	162
Iceland	2	5	5	30	19
Ireland	64	112	98	139	144
Isle of Man	0	0	0	0	0
Norway	218	245	185	234	225
Svalbard and Jan Mayen Islands	0	0	0	0	0
Sweden	267	284	386	253	248
United Kingdom	2,291	2,680	2,958	3,125	3,246
Scandinavia	0	0	0	0	0
Other countries of Nothern Europe	0	0	0	1	0
Southern Europe	1,557	2,031	1,548	2,147	2,549
Albania	0	0	0	1	0
Andorra	2	1	3	7	0
Bosnia and Herzegovina	0	0	0	0	1
Croatia	14	8	10	13	16
Gibraltar	0	0	0	0	0
Greece	47	57	24	55	94
Holy See	0	0	0	0	0
Italy	750	837	781	1,022	978
Malta	0	23	3	5	11
Montenegro	0	0	0	0	0
Portugal	222	145	135	224	229
San Marino	0	0	2	0	0
Serbia	2	8	5	21	21
Slovenia	28	8	6	12	57
Spain	492	944	579	787	1,142

cont...

Table 10.1 cont...

Country	2013	2014	2015	2016	2017
Other countries of Southern Europe	0	0	0	0	0
Western Europe	7,389	7,992	7,402	6,539	7,558
Austria	653	578	513	504	396
Belgium	514	574	716	460	506
France	1,561	1,636	1,563	1,501	1,545
Germany	2,753	2,971	2,498	2,301	2,970
Liechtenstein	3	2	12	1	5
Luxembourg	54	70	97	22	24
Monaco	1	0	3	4	3
Netherlands	785	863	709	641	757
Switzerland	1,065	1,298	1,291	1,105	1,352
Benelux	0	0	0	0	0
Other countries of Western Europe	0	0	0	0	0
East Mediterranean Europe	334	514	288	371	415
Cyprus	3	4	1	7	6
Israel	165	251	132	167	283
Turkey	166	259	155	197	126
Other Europe	0	1	1	2	0
Other countries of Europe (Macedonia (S.E))	0	0	1	2	0
MIDDLE EAST	**23**	**29**	**43**	**79**	**85**
Bahrain	3	1	0	3	7
Dubai	0	0	0	0	0
Egypt	0	2	5	4	15
Iraq	0	0	0	0	0
Jordan	4	0	4	4	2
Kuwait	0	8	6	8	13

Lebanon	6	10	9	16	16
Libya	0	0	0	0	0
Oman	1	1	0	7	2
Qatar	3	2	3	1	1
Saudi Arabia	5	2	4	9	9
State of Palestine	0	0	0	1	0
Syrian Arab Republic	0	0	1	0	1
United Arab Emirates	1	2	11	25	0
Emirian	0	0	0	0	19
Yemen	0	1	0	1	0
Other countries of Middle East	0	0	0	0	0
SOUTH ASIA	**195**	**245**	**229**	**341**	**356**
Afghanistan	0	0	0	1	0
Iran, Islamic Republic of	4	5	10	13	18
Nepal	170	203	192	285	265
Pakisthan	6	10	9	14	16
Sri Lanka	15	27	18	28	57
India, Pakistan	0	0	0	0	0
Other countries of South Asia	0	0	0	0	0
Total arrivals	**44,252**	**57,934**	**48,800**	**54,600**	**62,272**

Note: Includes only the international leisure tourist
Source: Tourism Council of Bhutan, Thimphu.

Table 10.2: Tourist Arrivals by Regions and Revenue Receipts, Bhutan, (2013-2017)

(Numbers)

Region	2013	2014	2015	2016	2017
Africa	**94**	**160**	**112**	**99**	**106**
East Africa	19	16	17	34	22
Central Africa	0	2	2	0	1
North Africa	6	12	4	4	2
Southern Africa	62	115	80	58	75
West Africa	7	15	9	3	6
Americas	**9,079**	**9,845**	**9,392**	**9,432**	**12,299**
Caribbean	13	18	13	8	13
Central America	8	24	22	46	51
North America	8,218	8,833	8,557	8,707	11,109
South America	840	970	800	671	1,126
East Asia and Pacific	**21,245**	**32,105**	**24,668**	**30,288**	**33,257**
North-East Asia	10,478	12,957	13,710	16,893	6,421
South-East Asia	8,506	16,918	8,906	11,376	13,972
Australasia	2,255	2,230	2,051	2,017	2,571
Melanesia	6	0	1	2	2
Micronesia	0	0	0	0	0
Polynesia	0	0	0	0	0
Europe	**13,616**	**15,550**	**14,356**	**14,361**	**16,169**
Central/Eastern Europe	1,148	1,378	1,080	1,188	1,406
Northern Europe	3,188	3,634	4,037	4,114	4,241
Southern Europe	1,557	2,031	1,548	2,147	2,549
Western Europe	7,389	7,992	7,402	6,539	7,558
East Mediterranean Europe	334	514	288	371	415
Middle East	**23**	**29**	**43**	**79**	**85**
South Asia	**195**	**245**	**229**	**341**	**356**
All regions (persons)	**44,252**	**57,934**	**48,800**	**54,600**	**62,272**
Tourism revenue receipts [1]					
Ngultrums (million)	**3,483.06**	**4,392.00**	**4,557.15**	**4,954.59**	**5,195.63**
Or					
US Dollars (million)	**63.49**	**73.20**	**71.05**	**73.74**	**79.81**

Note: [1] The revenue receipts includes only for the International Tourist.

Source: Tourism Council of Bhutan, Thimphu.

Table 10.3: Number of Tourist Arrivals by Season and Month, Bhutan, (2013-2017)

Season & Month	2013	2014	2015	2016	2017
Winter	**19,365**	**22,262**	**30,968**	**37,097**	**46,751**
December	9,540	12,051	16,882	20,484	23,587
January	4,072	5,088	6,427	7,793	12,224
February	5,753	5,123	7,659	8,820	10,940
Spring	**35,015**	**34,511**	**51,452**	**65,277**	**87,324**
March	10,687	7,528	14,004	17,480	20,872
April	11,681	13,052	16,135	17,527	27,115
May	12,647	13,931	21,313	30,270	39,337
Summer	**21,445**	**30,080**	**29,910**	**44,143**	**53,158**
June	9,230	10,142	13,668	20,225	27,263
July	4,982	7,839	8,312	11,974	13,133
August	7,233	12,099	7,930	11,944	12,762
Autumn	**40,384**	**46,627**	**55,049**	**63,053**	**67,471**
September	9,460	12,359	12,831	18,009	22,123
October	20,165	23,516	26,880	27,932	28,281
November	10,759	10,752	15,338	17,112	17,067

Note: The total number of tourist arrivals here shows International and Regional Tourist only.
Source: Tourism Council of Bhutan, Thimphu.

Table 10.4: Percentage of Tourist Arrivals by Purpose of Visit, Bhutan, 2017

Purpose	%
Leisure	85.8
Official	4.0
Business	2.6
Others	7.6

Source: Tourism Council of Bhutan, Thimphu.

Table 10.5: Total Number of Tourist Arrivals by Dzongkhag, 2017

Dzongkhag	No. of visitors
Bumthang	11,321
Chhukha	3,276
Dagana	10
Gasa	693
Haa	5,225
Lhuntse	385
Monggar	2,036
Paro	61,523
Pema Gatshel	71
Punakha	51,831
Samdrup Jongkhar	1,682
Samtse	0
Sarpang	284
Thimphu	59,164
Trashi Yangtse	705
Trashigang	1,886
Trongsa	5,956
Tsirang	27
Wangdue Phodrang	17,781
Zhemgang	259

Note: Includes only the international leisure tourist.
Source: Tourism Council of Bhutan, Thimphu.

Table 10.6: Percent of Top Ten Markets by Gender, Bhutan, 2017

Purpose	Sex	
	% Male	% Female
Australia	39.4	60.7
China	35.7	64.3
Germany	48.2	51.8
Japan	49.8	50.2
Malaysia	39.8	60.2
Singapore	33.9	66.1
South Korea	34.9	65.2
Thailand	29.7	70.3
United Kingdom	46.4	53.6
United States	41.2	58.8

Source: Tourism Council of Bhutan, Thimphu.

Table 10.7: Total Number of Accommodation Providers by Bed Nights by Dzongkhag, 2017

Dzongkhag	Bed Nights
Bumthang	28,942
Chhukha	3,605
Dagana	15
Gasa	3,733
Haa	6,727
Lhuntse	990
Monggar	3,124
Paro	140,571
Pema Gatshel	199
Punakha	73,179
Samdrup Jongkhar	1,840
Samtse	0
Sarpang	403
Thimphu	106,271
Trashi Yangtse	894
Trashigang	3,408
Trongsa	6,548
Tsirang	33
Wangdue Phodrang	26,333
Zhemgang	702

Note: Includes only the International leisure tourist.
Source: Tourism Council of Bhutan, Thimphu.

Table 10.8: Comparision of Top Ten Ranking of International Markets for the year 2015, 2016 and 2017, Bhutan

2015	2016	2017
China	China	America
USA	USA	China
Thailand	Japan	South Korea
UK	Thailand	Singapore
Singapore	UK	Thailand
Germany	Sinagapore	Britain
Japan	Germany	Germany
Australia	Malaysia	Malaysia
France	Australia	Japan
Malaysia	Taiwan	Australia

Source: Tourism Council of Bhutan, Thimphu.

The importance of foreign trade statistics is instrumental in gauging the overall economic performance in relation with other countries. Foreign Trade Statistics are vital to the policy maker, the economic planner and the public in general. The data related to merchandise is being compiled by the Department of Revenue and Custom, Ministry of Finance and the services by the Royal Monetary Authority of Bhutan.

Balance of Payments statistics are designed to show the difference between the total payments made to foreign countries and the total receipts from foreign countries. Thus, it provides systematic summary of economic transaction, for a specific time period, between an economy and the rest of the world. The transactions included goods, services, income, transfers and financial claims. Balance of payments statistics in Bhutan are compiled by the Royal Monetary Authority based on information from its own accounts and those of the Banks, together with information on imports and exports.

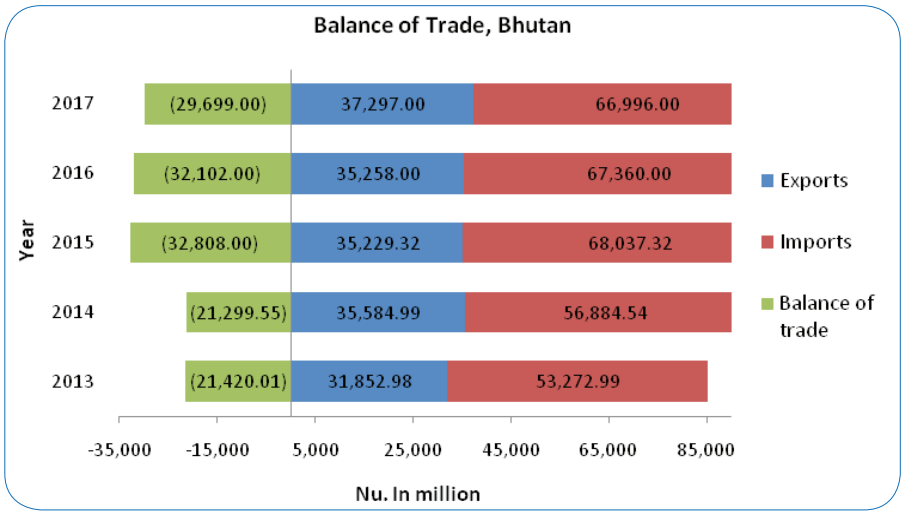


Table 11.1: Balance of Trade, Bhutan, (2013 - 2017)

(Nu. in Million)

Trade	2013	2014	2015	2016	2017
Exports	**31,852.98**	**35,584.99**	**35,229.32**	**35,258.00**	**37,297.00**
India	28,979.16	31,801.44	31,801.35	32,052.00	31,618.00
Third Countries	2,873.82	3,783.55	3,427.97	3,206.00	5,679.00
Imports	**53,272.99**	**56,884.54**	**68,037.32**	**67,360.00**	**66,996.00**
India	43,889.37	47,847.62	53,740.50	55,285.00	53,973.00
Third Countries	9,383.62	9,036.92	14,296.82	12,075.00	13,023.00
Balance of trade	**(21,420.01)**	**(21,299.55)**	**(32,808.00)**	**(32,102.00)**	**(29,699.00)**
India	(14,910.21)	(16,046.18)	(21,939.15)	(23,233.00)	(22,355.00)
Third Countries	(6,509.80)	(5,253.37)	(10,868.85)	(8,869.00)	(7,344.00)

Notes Figures within bracket indicate deficit (-).

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.2: Top Ten Commodities of Export, Bhutan, 2017

Commodity Description	Value (Nu. in Million)	Percent share
Containing by weight more than 55% of silicon	9,662.23	54.41
Neither crushed nor ground	1,330.18	7.49
Portland pozzolana cement	1,245.37	7.01
Other, of rectangular (other than square) cross-section	1,051.39	5.92
Dolomite, not calcined or sintered, chips	1,049.27	5.91
Of calcium	859.78	4.84
Of silicon	704.58	3.97
Boulders	690.07	3.89
Ordinary portland cement	587.97	3.31
Of other plastics	578.74	3.26
Total	**17,759.57**	**100.00**

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.3: Top Ten Commodities of Import, Bhutan, 2017

Commodity	Value (Nu. in Million)	Percent share
Other light oils and preparations (HSD)	6,648.56	32.91
Motor spirit (gasolene) including aviation spirit (petrol)	1,969.39	9.75
Ferrous products obtained by direct reduction of iron ore	1,845.53	9.14
Parts, including regulators	1,802.02	8.92
Semi-milled or wholly milled rice, whether or not polished or glazed	1,677.41	8.30
Machinery with a 360 degree revolving superstructure	1,489.81	7.38
Coke and semi-coke	1,370.51	6.78
Other	1,277.97	6.33
Other apparatus	1,124.32	5.57
g.v.w. not exceeding 5 tonnes	993.83	4.92
Total	**20,199.35**	**100.00**

Source : Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.4: Country wise Import in Ranking Order, 2017

SI. No.	Country Name	Value (Nu. in million)	SI. No.	Country Name	Value (Nu. in million)
1	India	53,897.73	22	Switzerland	75.21
2	Korea South	2,593.51	23	France	66.24
3	Japan	1,656.24	24	Nepal	64.59
4	China	1,609.89	25	New Zealand	62.03
5	Thailand	1,262.34	26	Netherlands	60.17
6	Singapore	1,066.42	27	Indonesia	56.34
7	Germany	577.33	28	Denmark	52.69
8	Sweden	496.64	29	Turkey	49.18
9	United Arab Emirates	372.09	30	Malaysia	48.53
10	Bangladesh	329.18	31	Australia	37.91
11	United States of America	224.08	32	Belgium	22.32
12	United Kingdom	220.77	33	Canada	20.13
13	Italy	181.75	34	Spain	17.38
14	Austria	178.96	35	Taiwan	14.11
15	Hong Kong	154.55	36	Slovakia	12.87
16	Saudi Arabia	148.22	37	South Africa	11.47
17	Norway	147.25	38	Cyprus	10.41
18	Viet Nam	107.26	39	Philippines	7.79
19	Qatar	103.70	40	Ukraine	6.83
20	Israel	91.71	41	Brazil	4.45
21	Finland	85.05	42	Ireland	2.40
				Total	**66,207.72**

Note: Imports value which is less than or equal to Nu. 2,000,000.00 is excluded for computation of import ranking order.

Source :Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.5: Country wise Export in Ranking Order, 2017

(Nu. in Million)

Sl. No.	Country Name	Value
1	India	19,635.36
2	Bangladesh	3,486.28
3	Italy	428.20
4	Netherlands	350.96
5	Nepal	321.21
6	Germany	186.79
7	Hong Kong	138.47
8	Japan	103.88
9	Turkey	96.13
10	Spain	81.83
11	Singapore	62.99
12	Switzerland	56.05
13	Poland	51.64
14	Viet Nam	50.19
15	Austria	46.54
16	United Arab Emirates	35.41
17	Thailand	33.64
18	United States of America	29.34
19	Malaysia	24.53
20	Sweden	23.68
21	Belgium	16.81
22	France	15.26
23	South Africa	10.58
24	United Kingdom	9.46
25	Taiwan	3.50
26	Qatar	1.87
27	Mexico	1.84
28	China	1.46
Total		**25,303.90**

Note: Export value which is less than or equal to Nu. 1,000,000.00 is excluded for computation of export ranking
Source :Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

Table 11.6: Overall Balance of Payments Estimates, Bhutan, FY 2012/13 to 2016/17

(Nu. in Million)

Item	2012/13	2013/14	2014/15	2015/16	2016/17
A. Current Account	**(25,761.64)**	**(29,741.96)**	**(35,655.56)**	**(43,758.84)**	**(36,341.51)**
Exports cif	29,931.47	32,876.57	35,982.17	32,789.32	36,872.02
Imports, cif	50,639.99	57,096.56	62,675.46	70,270.66	68,008.38
Trade balance	(20,708.52)	(24,220.00)	(26,693.29)	(37,481.34)	(31,136.35)
Services	**(2,964.97)**	**(4,004.42)**	**(4,276.40)**	**(4,079.49)**	**(3,359.26)**
Credit	6,764.61	7,646.23	7,864.41	9,666.68	10,526.01
Debit	9,729.58	11,650.65	12,140.81	13,746.17	13,885.26
Primary Income	**(9,085.70)**	**(7,429.59)**	**(9,737.84)**	**(11,770.77)**	**(13,474.78)**
Credit	965.86	1,192.43	1,650.12	1,623.07	1,998.95
Debit	10,051.56	8,622.03	11,387.96	13,393.84	15,473.73
Secondary Income	**6,997.55**	**5,912.05**	**5,051.96**	**9,572.76**	**11,628.88**
Credit	8,684.69	7,333.36	6,912.38	11,378.14	13,256.53
Of Which, Budgetary Grants	4,716.15	3,856.53	4,785.01	8,373.35	6,415.85
Debit	1,687.14	1,421.31	1,860.41	1,805.38	1,627.65
B. Capital Account	**14,458.99**	**16,901.74**	**13,981.04**	**12,668.05**	**12,391.57**
o/w Budgetary Grants for Investment	4,698.63	7,541.54	4,408.03	6,114.55	3,532.33
C. Financial Account	**(16,515.96)**	**(15,347.50)**	**(22,357.71)**	**(43,384.04)**	**(24,236.84)**
Other Investment	(15,398.58)	(13,556.13)	(21,697.16)	(42,851.10)	(25,014.15)
o/w RGOB loans, net	17,933.72	18,716.19	24,217.70	37,617.48	23,159.30
o/w Other loans, net	201.35	(5,842.45)	(3,427.79)	6,845.47	1,345.74
C. Net Errors and Omissions	**3,998.86**	**1,773.22**	**(1,254.02)**	**1,452.87**	**(1,852.19)**
D. Overall balance	**9,212.16**	**4,280.49**	**(570.83)**	**13,746.12**	**(1,565.30)**

Note: a. Segregation of budgetary grants into Secondary Income and Capital Transfers carried out from FY 2006/07 onwards. b. Net acquisition of financial assets minus net incurrence of financial liabilities; (+) figure denotes net lending and (-) figure denotes net borrowing; Excludes reserve assets. c. Includes hydropower loans and accrued interest. Note on general sign convention: (+) = increase in assets or liabilities; (-) = decrease in assets or liabilities.

d. Launched for the first time in FY 2012/13, Bhutan's BOP statistics have been revised in line with IMF BPM6 methodology (from FY 2006/07 onwards), replacing BPM5 methodology. Revisions were made under the IMF-JSA project to improve external sector statistics in the Asia-Pacific region and also includes other improvements in data coverage and classifications that were carried out in 2013. Please refer to Section I Economic Review 3. External Sector for details.

Source : Royal Monetary Authority of Bhutan, Thimphu

Table 11.7: Gross International Reserves (End Period), Bhutan, 2012/13 To 2016/17

(Nu. in Million)

Item	2012/13	2013/14	2014/15	2015/16	2016/17
1.Rupee reserves	**11,352.24**	**10,133.27**	**10,865.88**	**20,811.87**	**21,092.36**
Royal Monetary Authority of Bhutan	10,706.43	9,493.07	9,826.55	19,017.73	19,433.11
Bank of Bhutan Ltd.	229.83	447.91	598.04	830.28	1,075.85
Bhutan National Bank Ltd.	56.46	61.91	193.91	141.99	212.23
TBank Ltd.	115.72	74.91	77.25	175.94	122.35
Druk PNB Ltd.	243.79	55.47	170.14	645.92	248.81
Bhutan Development Bank Ltd.	...	...	...	...	...
2.Convertible currency reserves (US $)	**726.71**	**829.26**	**788.02**	**810.98**	**776.60**
Royal Monetary Authority of Bhutan	692.68	789.15	759.44	789.51	748.79
Bank of Bhutan Ltd.	21.58	22.71	20.26	13.37	10.99
Bhutan National Bank Ltd.	10.61	14.80	6.94	5.77	7.30
TBank Ltd.	0.12	0.13	0.11	0.44	0.85
Druk PNB Ltd.	1.72	2.48	1.26	1.88	8.68
Bhutan Development Bank Ltd.	...	...	...	...	...
3. Total reserves (US $)	**916.86**	**997.89**	**958.45**	**1,118.77**	**1,103.76**
4. Months of Merchandise Imports					
Total reserves	20.68	13.01	11.84	13.25	12.56
Rupee reserves	5.21	2.56	2.56	4.26	4.45
Convertible currency reserves	92.77	76.77	54.76	66.17	54.29

Note: Convertible currency reserves of RMA have been revised in 2013 to exclude the US dollar pledge on any oustanding overdraft as of each reference period. Reserves also exclude (from July 2007 onwards) the local currency component of Bhutan's IMF Quota and the Kuwait fund investment. (2) Data for 2012/13 are based on provisional import figures for 2012/13 and are subject to change.

Source: Royal Monetary Authority, Thimphu

Table 11.8: Monthly Average Exchange Rates, Ngultrum Per US $, (2013 - 2017)

Month	2013	2014	2015	2016	2017
January	54.31	62.08	62.14	67.29	68.09
February	53.75	62.25	62.03	68.24	66.74
March	54.39	61.01	62.45	67.02	65.92
April	54.38	60.36	62.75	66.47	64.51
May	55.03	59.31	63.81	66.89	64.41
June	58.33	59.73	63.86	67.30	64.44
July	59.78	60.06	63.65	67.22	64.44
August	63.21	60.90	65.07	66.94	63.97
September	63.64	60.88	66.19	66.74	64.46
October	61.63	61.35	65.08	66.76	65.09
November	62.71	61.68	66.05	67.53	64.87
December	61.95	62.71	66.60	67.90	64.24
Calendar year average exchange rate	**58.59**	**61.47**	**64.14**	**67.19**	**65.10**
Fiscal year	**2012/13**	**2013/14**	**2014/15**	**2015/16**	**2016/17**
Fiscal year average exchange Rate	54.86	61.47	62.05	66.32	66.43

Source: Royal Monetary Authority, Thimphu.

The sound growth of financial institutions plays pivotal role in developing countries in pursuit of economic growth responding to monetary problems to the government's task of nation building. The financial sector in Bhutan comprises of Royal Monetary Authority (Bhutan's Central Bank); the Bank of Bhutan, Bhutan National Bank and two private banks: Druk Punjab Bank and Tashi Bank both established in 2010. The non-bank financial institutions are the Royal Insurance Corporation of Bhutan, Bhutan Development Bank Limited and National Pension & Provident Fund.

The Royal Monetary Authority has developed a comprehensive statistical system for the money, banking and finance sector. The main element of the system is the monetary survey, which is a consolidation of the accounts of the Royal Monetary Authority and other Banks and Financial Institutions showing the financial relationship between these institutions and other sectors of the economy. In addition, financial statements are also available for the two non-bank financial institution.

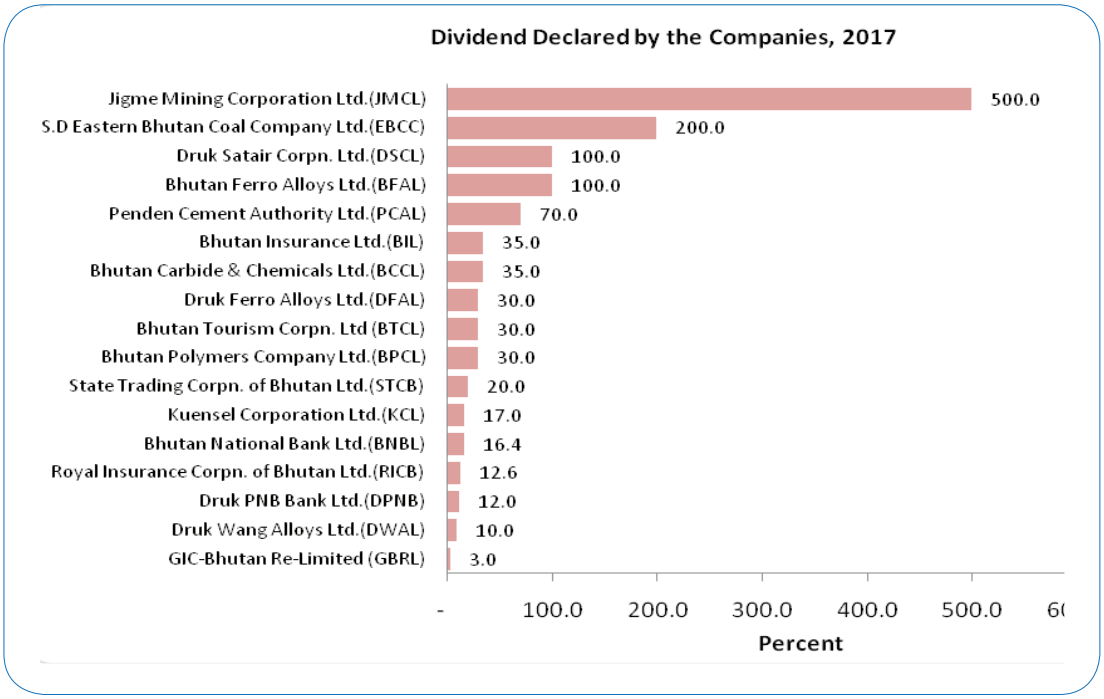


Table 12.1: Monetary Survey: Royal Monetary Authority, Bhutan National Bank, Bank Of Bhutan, Bhutan Development Bank, Druk PNB Bank and T Bank (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**99,352.28**	**120,531.16**	**125,501.60**	**144,334.56**	**163,234.59**
Foreign Assets(net)	51,342.67	69,081.59	66,305.10	73,220.22	72,878.53
Rupee	(3,757.20)	11,034.15	7,324.01	15,748.46	20,598.40
Others	55,099.87	58,047.44	58,981.09	57,471.76	52,280.13
Domestic Credit	48,009.60	51,449.57	59,196.50	71,114.34	90,356.05
Claims on Government (net)	(2,388.52)	(5,013.40)	(6,123.14)	(4,300.67)	2,498.61
Claims on Other Public Sector [1]	1,646.34	3,112.88	5,340.60	4,988.85	5,702.22
Claims on private sector [2]	48,751.77	53,350.09	59,979.03	70,426.17	82,155.22
Liabilities total	**99,352.28**	**120,531.16**	**125,501.60**	**144,334.56**	**163,234.59**
Broad money (M2)	58,209.85	73,366.10	76,148.61	93,680.71	110,000.90
Narrow Money (M1)	34,077.92	43,296.20	44,428.81	52,057.52	63,478.17
Nu. Outside Banks	5,406.20	5,671.59	6,587.16	8,318.93	8,767.08
Transferable Deposits	28,671.71	37,624.61	37,841.65	43,738.60	54,711.09
Other Deposits [3]	24,131.94	30,069.91	31,719.80	41,623.18	46,522.73
Other items(net)	41,142.42	47,165.05	49,352.99	50,653.86	53,233.68

Note: [1] *It includes claims on Government Corporations and Other Public Corporations*

[2] *It includes claims on Non-bank financial institutions (NBFIs)*

[3] *Other Deposits includes time deposits plus foreign currency deposits*

a. Starting from January 2003 onwards, a major reclassification has been carried out in the accounts of all the economic sectors. Data prior to 2003 cannot always be directly compared with the subsequent data, because of a break in continuity.

b. Broad money (M2)=M=Narrow Money+Other Deposits, Narrow Money (M1)=Nu. Outside banks+Transferable Deposits+NBFIs Deposits; Figures in the brackets ( ) are negative

c. The terms Demand Deposits and Quasi Money are replaced by Transferable Deposits and Other Deposits as per the International Monetary Fund's Monetary and Financial Statistics Manual, 2000

Source : Royal Monetary Authority of Bhutan, Thimphu.

Table 12.2: Monetary and Financial Statistics of Royal Insurance Corporation of Bhutan, (2013 -2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**8,283.38**	**10,885.42**	**13,805.95**	**18,021.63**	**20,494.85**
Reserves	232.31	880.26	399.63	917.18	1,560.31
Foreign Assets	**26.30**	**36.71**	**14.05**	**76.36**	**20.62**
Rupee	0.04	34.00	11.21	6.70	...
Others	26.25	2.70	2.84	69.66	20.62
Domestic Credit [1]	**6,631.65**	**9,968.46**	**13,392.27**	**17,028.09**	**18,913.93**
Claims on Public Sector [2]	13.48	38.98	38.98	71.35	50.46
Claims on private sector	6,582.67	8,283.53	11,860.06	15,549.45	17,501.29
Claims on NBFIs	35.50	42.83	65.10	103.67	58.56
Claims on DMBs	**1,393.13**	**1,603.13**	**1,428.13**	**1,303.61**	**1,303.61**
Liabilities total	**8,283.43**	**10,885.42**	**13,805.95**	**18,021.63**	**20,494.85**
Life fund	...	...	...	3,083.5	3,849.9
Gebneral Insurance Fund	...	...	...	251.4	272.9
Group Insurance Fund	...	...	...	4,140.2	1,702.4
Credit from DMBs	740.68	642.77	812.30	2,501.20	1,621.26
Credit from NBFIs	2,898.37	3,461.31	3,595.67	3,595.22	3,452.49
Capital accounts	1,764.56	1,991.01	2,479.25	2,852.25	2,907.28
Other items (net)	2,879.82	4,790.33	6,918.74	1,597.81	6,688.60

Note: [1] Domestic credit excluding the claims on DMBs

[2] With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

DMBs = Deposit Money Banks, NBFIs = Non Bank Financial Institutions.

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.3: Monetary and Financial Statistics of Bhutan National Bank Limited, (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**24,085.96**	**26,818.79**	**28,786.35**	**33,723.48**	**36,579.76**
Reserves with RMA	4,815.36	6,004.22	6,183.74	7,661.65	8,944.45
Foreign Assets	**1,002.65**	**820.87**	**1,269.97**	**1,079.74**	**668.50**
Rupee	206.43	482.06	384.62	179.07	176.45
Others	796.22	338.82	885.35	900.67	492.05
Domestic Credit	**18,267.95**	**19,993.70**	**21,332.63**	**24,982.09**	**26,966.80**
Claims on Government	105.37	997.78	...	...	0.27
Claims on Government Corps	...	115.33	115.33	215.33	115.33
Claims on Public Sector1	791.30	767.61	766.41	641.23	607.26
Claims on private sector	17,347.39	18,092.37	20,273.96	23,239.70	25,467.88
Claims on NBFIs	23.89	20.61	176.93	885.83	776.06
Liabilities total	**24,085.96**	**26,818.79**	**28,786.35**	**33,723.48**	**36,579.76**
Demand Deposits (Current and saving Deposits)	6,478.48	7,861.42	8,033.82	9,361.72	11,376.49
Time Deposits	9,424.53	10,327.59	10,810.99	14,513.55	13,821.48
Foreign currency Deposits	542.72	307.74	402.95	660.13	2,098.33
Capital accounts	6,264.77	7,129.63	7,655.63	7,235.49	7,560.93
Other items (net)	1,375.46	1,192.41	1,882.96	1,952.60	1,722.52

Note: [1]With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority Bhutan, Thimphu.

Table 12.4: Monetary and Financial Statistics of Bhutan Development Bank Limited, December (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**9,360.87**	**15,188.26**	**16,834.73**	**21,182.33**	**23,223.76**
Reserves With RMA	841.24	3,802.29	2,189.65	3,796.08	3,873.22
Foreign Assets	**11.84**	**14.84**	**23.67**	**0.86**	**11.69**
Rupee	11.84	14.84	23.67	0.86	11.69
Others	...	...	...	...	...
Domestic Credit	**8,507.80**	**11,371.13**	**14,621.42**	**17,385.39**	**19,338.85**
Claims on Govt.	...	...	...	...	...
Claims on Govt. Corporations	...	455.54	504.49	54.31	52.29
Claims on Public Sector1	7.381	18.756	38.442	33.44	33.44
Claims on private sector	8,500.42	10,485.56	13,667.22	16,474.36	18,631.19
Claims on NBFIs	...	411.27	411.27	823.27	621.93
Liabilities total	**9,360.87**	**15,188.26**	**16,834.73**	**21,182.33**	**23,223.76**
Demand Deposits (Current and Saving Deposits)	1,687.71	2,288.25	2,591.33	3,541.79	4,398.66
Time Deposits	3,411.48	7,630.44	8,214.07	10,566.61	11,672.38
Foreign Currency Deposits	...	...	...	...	...
Foreign Liabilities 2	...	...	...	...	279.60
Domestic Borrowing	1,308.51	1,067.11	824.80	681.58	263.77
Capital accounts	2,199.31	2,846.24	3,378.26	3,241.01	2,014.94
Other items(net)	753.85	1,356.22	1,826.28	3,151.35	4,594.41

Note: [1]With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

[2] Due to changes in the classification of foreign liabilities, the external borrowing of the BDBL has been reclassified as the domestic borrowing as this borrowing was onlent by Government to the BDBL

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.5: Monetary and Financial Statistics of Royal Monetary Authority of Bhutan, (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**59,044.72**	**75,684.23**	**69,582.69**	**78,200.66**	**77,975.19**
Foreign assets	57,928.18	75,502.07	68,810.31	76,483.96	76,485.98
Indian rupee	5,746.52	19,731.01	12,210.03	21,604.32	26,617.34
Convertible Foreign Currency (Including Gold)	52,181.66	55,771.06	56,600.28	54,879.64	49,868.63
Claims on deposit money banks	1,104.05	166.09	744.51	1,679.70	1,427.67
Claims on Government	...	...	...	...	27.92
Claims of private sector	12.49	16.06	27.88	37.00	33.62
Liabilities total	**59,044.72**	**75,684.23**	**69,582.69**	**71,200.66**	**77,975.19**
Reserve money	21,953.07	34,746.44	25,801.07	34,262.93	32,712.25
Currency outside banks	5,406.20	5,671.59	6,587.16	8,318.93	8,767.08
Foreign Liabilities	10,136.43	10,000.00	7,000.00	7,000.00	7,046.14
Rupee	10,136.43	10,000.00	7,000.00	7,000.00	7,046.14
Others	...	...	...	...	...
Government deposits	5,279.42	8,049.98	11,628.32	11,118.32	9,530.99
RMA Bills Outstanding	...	...	...	...	...
Capital Account	2,834.87	3,261.22	4,057.68	3,422.87	3,858.36
Other items (net)	18,840.92	19,626.59	21,095.63	22,396.54	24,827.46

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.6: Monetary and Financial Statistics: Bank of Bhutan Limited, (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**30,367.15**	**39,496.06**	**37,760.38**	**42,634.70**	**49,385.31**
Reserve with RMA	10,335.45	17,658.54	13,283.35	17,305.22	18,021.38
Foreign assets	2,170.60	2,098.74	2,290.97	1,487.78	1,724.95
Rupee	330.85	488.09	933.92	598.98	293.02
Other	1,839.74	1,610.65	1,357.05	888.80	1,431.93
Claims on Government	105.37	...	...	...	...
Claims on Government corpns.	773.25	1,167.27	2,867.45	2,919.08	3,989.07
Claims on public sector [1]	52.49	375.56	569.40	660.37	386.26
Claims on private sector	16,310.82	17,624.68	18,349.94	19,625.81	24,843.64
Claims on NBFIs	619.18	571.27	399.27	636.44	420.02
Liabilities total	**30,367.15**	**39,496.06**	**37,760.38**	**42,634.70**	**49,385.31**
Demand deposit	17,453.85	23,364.32	22,189.24	25,055.05	30,283.60
Time deposit	6,666.38	7,778.64	8,307.75	9,810.58	11,256.16
Foreign currency deposits	542.40	676.30	832.60	1,021.95	1,167.50
Capital accounts	3,776.93	4,614.17	5,285.72	6,206.47	5,812.48
Other items (net)	1,927.60	3,062.63	1,145.07	540.65	865.58

Note: [1]With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.7: Monetary and Financial Statistics of T-Bank Ltd, December (2013 - 2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**3,145.57**	**2,955.17**	**3,138.85**	**5,053.58**	**6,714.41**
Reserve with RMA	879.06	424.32	574.23	852.82	1,219.08
Foreign assets	40.75	65.96	81.85	282.15	244.18
Rupee	32.61	42.07	53.96	200.72	142.03
Other	8.14	23.89	27.89	81.43	102.14
Domestic Credit	**2,225.76**	**2,464.90**	**2,482.77**	**3,918.61**	**5,251.16**
Claims on Government	...	40.00	40.00	40.00	40.00
Claims on Government Corps	...	...	...	...	...
Claims on Public Sector [1]	21.93	36.95	51.92	51.63	51.94
Claims on private sector	2,203.83	2,380.45	2,383.09	3,819.49	5,151.72
Claims on NBFIs	...	7.50	7.75	7.50	7.50
Liabilities Total	**3,145.57**	**2,955.17**	**3,138.85**	**5,053.58**	**6,714.41**
Demand deposit	516.22	925.30	857.25	1,588.51	2,340.13
Time deposit	1,231.79	1,265.62	1,258.85	1,584.48	1,990.57
Foreign currency deposits	...	13.09	8.20	6.51	7.00
Foreign liabilities	...	...	...	...	...
Rupee	...	...	...	...	...
Other	...	...	...	...	...
Government deposites	...	...	...	...	...
Capital accounts	396.28	565.76	586.23	625.36	721.43
Other items (net)	1,001.28	185.41	428.32	1,248.71	1,655.28

Note: [1]With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority, Thimphu.

Table 12.8: Monetary and Financial Statistics of Druk PNB Bank Ltd., December (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**5,638.96**	**6,545.14**	**7,070.08**	**8,521.45**	**11,678.74**
Reserve with RMA	1,381.61	2,049.87	1,532.87	2,345.51	3,941.48
Foreign assets	325.10	579.10	828.33	885.72	1,068.98
Rupee	50.99	276.08	717.80	164.50	404.01
Other	274.11	303.02	110.53	721.21	664.97
Domestic Credit	**3,932.25**	**3,916.18**	**4,708.88**	**5,290.23**	**6,668.29**
Claims on Government	198.50	...	...	...	...
Claims on Government corpns.	...	129.44	365.27	307.89	318.71
Claims on public sector [1]	...	46.42	61.90	105.57	147.91
Claims on private sector	3,547.03	3,639.35	4,248.03	4,626.70	5,870.43
Claims on NBFIs	186.72	100.96	33.68	250.08	331.23
Liabilities total	**5,638.96**	**6,545.14**	**7,070.08**	**8,521.45**	**11,678.74**
Demand deposit	2,535.45	3,185.32	4,170.00	4,191.53	6,312.21
Time deposit	2,063.35	1,843.01	1,864.73	2,743.13	4,509.31
Foreign currency deposits	249.29	227.48	19.66	716.25	...
Foreign liabilities	...	...	...	...	...
Rupee	...	...	...	...	...
Other	...	...	...	...	...
Credit from RMA	...	...	...	...	...
Capital accounts	791.39	977.82	1,080.67	1,189.58	1,306.07
Other items (net)	(0.52)	311.51	(64.98)	(319.03)	(448.85)

Note: [1] With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority, Thimphu.

Table 12.9: Monetary and Financial Statistics of Bhutan Insurance Limited, December (2013-2017)

(Nu. in Million)

Item	2013	2014	2015	2016	2017
Assets total	**453.78**	**624.55**	**1,040.65**	**1,248.56**	**1,878.50**
Reserves	47.96	81.58	94.65	109.46	191.89
Foreign Assets	...	...	...	...	0.00
Rupee	...	...	...	...	0.00
Others	...	...	...	...	0.00
Domestic Credit	**405.82**	**542.97**	**946.00**	**1,139.10**	**1,686.61**
Claims on Govt. (Net)	...	...	...	...	0.00
Claims on Govt. Corps.	...	...	...	...	0.00
Claims on public sector [1]	...	...	1.75	1.75	1.75
Claims on private sector	374.82	412.56	798.84	1,001.94	1,549.44
Claims on NBFIs	0.00	...	60.00	60.00	60.00
Claims on DMBs	30.00	130.41	85.41	75.41	75.41
Liabilities total	**453.78**	**624.55**	**1,040.65**	**1,248.56**	**1,878.50**
Life fund	...	...	...	...	0.00
Private provident funds	...	...	...	...	0.00
Group Insurance Fund	...	...	...	...	0.00
Credit from DMB	35.00	0.00	430.90	0.00	0.00
Credit from NBFIs	...	...	...	505.65	295.50
Capital accounts	272.94	417.37	493.70	506.47	558.08
Other items (net)	145.84	207.18	116.05	236.44	1,024.92

Note : [1] With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA NBFIs stands for Non Bank Financial Institutions; DMBs Deposit Money Banks

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.10: Lending of Financial Institutions by Industry, Amounts Outstanding, (2013-2017)

(Nu. in Million)

Industry	2013	2014	2015	2016	2017
Agriculture	**1,745.42**	**2,653.64**	**3,830.04**	**4,630.57**	**5,690.27**
Bank of Bhutan Ltd	0.82	0.70	21.85	36.51	58.8
Royal Insurance Corporation of Bhutan Ltd	...	...	...	0.70	3.8
Bhutan Development Bank Ltd	1,741.83	2,650.19	3,803.80	4,571.77	5606.0
Bhutan National Bank Ltd	...	0.71	0.71	0.42	0.4
Druk PNB Bank Ltd	1.32	0.60	0.62	15.48	17.0
T Bank Ltd	1.45	1.46	1.60	2.42	0.0
Bhutan Insurance Ltd	...	...	1.45	3.28	4.2
Service and Tourism	**7,040.60**	**8,827.20**	**10,898.61**	**16,757.79**	**22,905.26**
Bank of Bhutan Ltd	1,780.21	2,509.35	2,933.71	4,061.62	7587.5
Royal Insurance Corporation of Bhutan Ltd	148.59	246.81	564.71	3,763.09	5489.7
Bhutan Development Bank Ltd	1,708.62	1,965.69	2,333.81	2,917.54	3102.1
Bhutan National Bank Ltd	2,588.65	2,992.78	3,490.14	483.87	4435.9
Druk PNB Bank Ltd	574.80	806.99	1,177.08	1,367.95	1692.2
T Bank Ltd	222.93	288.78	359.15	4,083.31	490.7
Bhutan Insurance Ltd	16.80	16.80	40.01	80.40	107.3
Manufacturing	**9,974.40**	**10,236.36**	**10,153.10**	**11,041.91**	**13,362.01**
Bank of Bhutan Ltd	3,022.83	3,397.09	3,509.01	3,730.82	3753.9
Royal Insurance Corporation of Bhutan Ltd	760.56	1,111.76	1,398.45	3,799.45	2034.6
Bhutan Development Bank Ltd	714.55	801.18	822.55	797.49	934.5
Bhutan National Bank Ltd	4,737.69	4,094.74	3,497.49	141.20	4729.3
Druk PNB Bank Ltd	513.04	631.15	617.11	734.09	1476.1
T Bank Ltd	201.73	177.08	230.54	1,669.25	266.9
Bhutan Insurance Ltd	24.00	23.37	77.94	169.62	166.8

Industry	2013	2014	2015	2016	2017
Building and construction	**15,506.11**	**16,414.67**	**18,288.51**	**20,304.32**	**23,421.99**
Bank of Bhutan Ltd	5,288.66	5,435.02	5,372.66	5,456.67	6723.1
Royal Insurance Corporation of Bhutan Ltd	2,001.21	2,285.16	2,613.40	6,862.91	2749.6
Bhutan Development Bank Ltd	1,013.88	1,469.64	2,110.30	2,540.14	3094.8
Bhutan National Bank Ltd	5,739.82	5,774.98	6,473.26	1,034.83	7234.0
Druk PNB Bank Ltd	962.31	953.86	1,202.00	1,455.97	1635.5
T Bank Ltd	492.80	475.12	449.66	2,817.88	1624.9
Bhutan Insurance Ltd	7.43	20.89	67.23	135.93	360.2
Trade and commerce	**7,301.22**	**9,892.56**	**14,289.43**	**14,014.75**	**14,195.04**
Bank of Bhutan Ltd	1,057.31	1,229.54	1,594.45	1,514.52	1759.3
Royal Insurance Corporation of Bhutan Ltd	1,855.23	2,661.65	4,761.67	6,177.46	3592.0
Bhutan Development Bank Ltd	803.67	1,120.76	1,432.86	1,614.40	1487.9
Bhutan National Bank Ltd	2,598.98	3,857.38	5,376.31	762.57	5938.2
Druk PNB Bank Ltd	466.38	468.76	491.44	414.74	436.7
T Bank Ltd	454.58	460.97	503.38	3,394.72	783.9
Bhutan Insurance Ltd	65.07	93.49	129.33	136.34	197.1
Transport	**3,246.90**	**2,390.10**	**3,216.45**	**4,226.51**	**5,510.52**
Bank of Bhutan Ltd	883.87	610.91	586.19	790.44	1,205.15
Royal Insurance Corporation of Bhutan Ltd	575.47	401.03	726.03	1,162.28	629.82
Bhutan Development Bank Ltd	247.55	260.64	630.05	1,063.81	1,293.66
Bhutan National Bank Ltd	955.32	680.90	789.90	223.91	1,515.88
Druk PNB Bank Ltd	158.46	109.72	116.28	127.77	121.38
T Bank Ltd	287.30	209.82	151.83	540.87	236.34
Bhutan Insurance Ltd	138.93	117.09	216.18	317.42	508.29
Personal loans	**10,406.62**	**11,499.28**	**11,648.06**	**13,019.93**	**13,001.07**
Bank of Bhutan Ltd	5,397.28	5,594.84	5,394.17	5,399.93	5,309.12

Royal Insurance Corporation of Bhutan Ltd	1,159.18	1,465.09	1,407.72	1,148.31	2,317.10
Bhutan Development Bank Ltd	1,963.78	2,320.19	2,475.43	2,729.58	2,459.39
Bhutan National Bank Ltd	884.57	1,044.73	1,104.91	755.37	1,259.33
Druk PNB Bank Ltd	565.43	524.26	519.13	533.06	546.45
T Bank Ltd	371.47	479.70	551.69	2,377.43	985.06
Bhutan Insurance Ltd	64.91	70.47	195.01	76.25	124.62
Loan Against Shares	**577.40**	**702.59**	**661.69**	**487.75**	**337.45**
Bank of Bhutan Ltd	130.47	181.41	179.92	26.58	5.36
Royal Insurance Corporation of Bhutan Ltd	41.13	68.56	88.67	63.44	84.79
Bhutan Development Bank Ltd	...	...	...	...	...
Bhutan National Bank Ltd	85.29	110.49	83.43	140.47	...
Druk PNB Bank Ltd	278.93	287.78	264.64	104.32	99.09
T Bank Ltd	12.90	12.43	9.53	99.02	100.07
Bhutan Insurance Ltd	28.68	41.92	35.50	53.92	48.14
Others	**1,661.86**	**1,365.63**	**1,791.73**	**3,925.29**	**4,914.99**
Bank of Bhutan Ltd	340.43	312.00	320.90	498.17	812.10
Royal Insurance Corporation of Bhutan Ltd	15.96	19.15	359.37	1,650.85	487.77
Bhutan Development Bank Ltd	306.54	352.81	562.64	660.29	806.33
Bhutan National Bank Ltd	576.17	211.89	260.92	328.89	1,610.27
Druk PNB Bank Ltd	213.10	133.95	71.18	286.85	393.86
T Bank Ltd	180.60	307.29	180.53	471.46	771.76
Bhutan Insurance Ltd	29.06	28.53	36.20	28.77	32.89
Total	**57,460.53**	**63,982.05**	**74,777.63**	**88,408.81**	**103,338.61**

Note: Loan availed by Ministry of Finance has been reported under Service and Tourism in case of BoB Manufacturing and Industry in case of BNB.
Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.11: Interest Rates of Deposits in Financial Institutions, 2013 to 2017

(in percent)

Type of Deposit	2013	2014	2015	2016	2017
Savings	5.00	5.00	5.00	5.00	5.00
Fixed Deposit					
i) 3 months to less than 1 year	5.00	5.00	5.00	5.00	5.00
ii) 1 year to less than 2 years	7.00	7.00	6.75	6.75	6.75
iii) 2 years to less than 3 years	7.50	7.50	7.25	7.25	7.25
iv) 3 years less than 5 years	8.00	8.00	7.75	7.75	7.75
v) 5 years less than 7 years	8.50	8.50	8.50	8.50	8.50
vi) 7 years and above	8.80	8.80	8.75	8.75	8.75
For Institutions & Companies					
i) 91 days to less than 1 year	6.50	6.50	...	...	...
ii) 1 year to less than 2 years	7.00	7.00	7.00	7.00	7.00
iii) 2 years to less than 3 years	7.50	7.50	7.50	7.50	7.50
iv) 3 years to less than 5 years	8.00	8.00	8.00	8.00	8.00
v) 5 years to less than 7 years	8.50	8.50	8.25	8.25	8.25
vi) 7 years & above	8.50	8.50	8.50	8.50	8.75

Source: Bank of Bhutan, Thimphu

Table 12.12: Royal Securities Exchange of Bhutan Ltd. Number of Share Holders at the End of December, (2013 - 2017)

(In Numbers)

Company	2013	2014	2015	2016	2017
Bhutan Board Products Ltd. (BBPL)	487	480	479	477	478
Bhutan Carbide & Chemical Ltd. (BCCL)	259	259	260	263	265
Bhutan Ferro Alloys Ltd. (BFAL)	43	43	43	43	43
Bhutan Insurance Ltd. (BIL)	4,395	4,370	4,318	4,294	4,269
Bhutan National Bank Ltd. (BNBL)	4,519	4,521	4,514	4,514	4,533
Bhutan Polymers Company Ltd. (BPCL)	128	127	128	129	127
Bhutan Times Ltd. (BTL) [1]	288	...	...	...	...
Bhutan Tourism Corpn. Ltd (BTCL)	156	155	156	156	156
Druk Ferro Alloys Ltd. (DFAL)	459	457	459	459	457
Dungsam Polymers Ltd. (DPL) [2]	14,833	14,487	14,416	14,359	14,317
Druk plaster & Chemicals Ltd. (DPOP)	214	214	214	214	214
Druk PNB Bank (DPNB)	22,378	22,253	22,143	22,050	21,941
T Bank Ltd. (TBL)	7,955	7,864	7,756	7,703	7,647
Druk Satair Corporation Ltd. (DSCL)	1,267	1,266	1,265	1,262	1,262
Druk Wang Alloys Ltd. (DWAL)	496	494	494	498	500
Jigme Mining Corporation Ltd. (JMCL)	418	420	416	417	417
Kuensel Corporation Ltd. (KCL)	233	233	232	231	231
Penden Cement Authority Ltd. (PCAL)	1,447	1,425	1,417	1,418	1,403
Royal Insurance Corpn. of Bhutan (RICB)	1,506	1,494	1,493	1,484	1,481
S.D Eastern Bhutan Coal Company Ltd. (EBCC)	1,069	1,062	1,059	1,053	1,052
State Trading Corpn. of Bhutan Ltd. (STCB)	137	137	136	137	136
GIC-Bhutan Re-Limited (GBRL) [3]	...	1,230	1,157	1,138	1,137
TOTAL	**62,687**	**62,991**	**62,555**	**62,299**	**62,066**

Note: [1] Delisted in November 2014, 2 Listed on August 2013 , & 3 Listed on August 2014

Source: Royal Securities Exchange of Bhutan Ltd, Thimphu.

Table 12.13: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2015-2017)

Sector	2015	
	Interest Rate (% p.a)	Repayment Period (Yrs)
Export Finance		
Convertible Currency (Upto 60 days of credit)	13.75	1 yr. subject to review renewal
Convertible Currency (More than 60 days of credit)	13.75	1yr. subject to review renewal
General Trade	13.75	1 yr. subject to review renewal
Trade & Commerce - Hiring Units-Machinery	...	...
Trade & Commerce - Wholesale and Retail	...	...
Trade & Commerce - Contractors and Suppliers	...	...
Buses and trucks		
Term Loan	11.73-12.15	1-5 Years
Working Capital	13.75	1 yr. subject to review renewal
Other Passenger vehicles	11.73-12.15	1-5 years
Agriculture and livestock	11.73-12.15	1-5 years
Manufacturing Industry		
Term Loan	11.73-13	1-15 years
Working Capital	13.75	1 yr. subject to review renewal
Service Industries		
Working Capital (General)	...	...
Working Capital (Automobile workshops etc.)	...	...
Construction of Hotels and Resturants	...	...
Hospitality/Entertainment/Recreational	...	...
IT related business	...	...
Set up of Hotel/Resort/Restaurant etc.	...	...
Setting up of Institutions (Schools/Colleges etc.)	...	...
Transport (Tourism)	...	...
Personal Loans	15	1 year
Equity finance	11.73-12.23	1-6 years
Housing (commercial)		
New Construction	12.73-13.25	1-20 years
Repair/Renovation	12.73-13.25	1-20 years
Purchase	12.73-13.25	1-20 years
Consumer Loans	12.35-12.75	1-5 Years
Housing (residential)		
New Construction	12.48-13	1-20 years
Repair/Renovation	12.48-13	1-20 years
Purchase	12.48-13	1-20 years
Consumer Loans	12.48-13	1-20 years

Source: Bank of Bhutan, Thimphu

	2016		2017	
	Interest Rate (% p.a)	Repayment Period (Yrs)	Interest Rate (% p.a)	Repayment Period (Yrs)
	9.86	1 yr. subject to review renewal	9.71	1 year
	9.86	1yr. subject to review renewal	10.71	1 year
	10.30	5 years	10.15	1-5 years
	11.50	1 years	11.35	1 year
	10.66	3 years	10.51	1-3 years
	9.07	5 years	9.89-11.85	1-10 years
	11.00	1 yr. subject to review renewal	10.20	1 year
	9.07	5 years	8.92	1-5 years
	8.49	15 years	7.99-9.98	1-15 years
	11.07	20 years	9.98-11.93	1-20 years
	11.05	1 yr. subject to review renewal	11.05	1 year
	11	1 year	10.20	1 year
	12	1 year	11.85	1 year
	9.18	20 years	8.14-10.85	1-20 years
	10.1	20 years	9.95-11.88	1-20 years
	8.49	20 years	8-10.51	1-20 years
	8.29	20 years	8.14-10.85	1-20 years
	8.49	20 years	8.34-10.85	1-20 years
	9.29	5 years	9.14	1-5 years
	15.00	1 year	13.14	1 year
	11.05	6 years	10.90-12.60	1-6 years
	12.73-13.25	1-20 years	9.15-12.90	1-20 years
	12.73-13.25	1-20 years	9.15-12.90	1-20 years
	12.73-13.25	1-20 years	9.15-12.90	1-20 years
	12.35-12.75	1-5 Years	.....	.....
	12.48-13	1-20 years	8.20-10.75	1-20 years
	12.48-13	1-20 years	8.20-10.75	1-20 years
	12.48-13	1-20 years	8.20-10.75	1-20 years
	12.48-13	1-20 years	.....	.....

Table 12.14: Royal Securities Exchange of Bhutan Ltd. Market Information at the End of December, 2017

Company	Paid-Up Shares	Price per share (Nu)	Market capitalization (Nu)
Bhutan Board Products Ltd. (BBPL)	14,000,140	10.00	140.00
Bhutan Carbide & Chemical Ltd. (BCCL)	10,000,000	70.00	700.00
Bhutan Ferro Alloys Ltd. (BFAL)	15,000,000	60.00	900.00
Bhutan Insurance Ltd. (BIL)	20,000,000	31.00	620.00
Bhutan National Bank Ltd. (BNBL)	329,193,596	26.50	8,723.63
Bhutan Polymers Company Ltd. (BPCL)	2,493,340	10.00	24.93
Bhutan Tourism Corpn. Ltd (BTCL)	2,094,000	40.00	83.76
Druk Ferro Alloys Ltd. (DFAL)	28,977,620	18.50	536.09
Dungsam Polymers Ltd. (DPL)	8,272,350	13.60	112.50
Druk plaster & Chemicals Ltd. (DPOP)	1,000,000	20.00	20.00
Druk PNB Bank (DPNB)	45,000,000	25.10	1,129.50
T Bank Ltd. (TBL)	30,000,000	19.50	585.00
Druk Satair Corporation Ltd. (DSCL)	9,130,860	34.00	310.45
Druk Wang Alloys Ltd. (DWAL)	20,369,961	34.00	692.58
Jigme Mining Corporation Ltd. (JMCL)	3,981,341	80.00	318.51
Kuensel Corporation Ltd. (KCL)	5,000,000	12.00	60.00
Penden Cement Authority Ltd. (PCAL)	34,000,070	66.00	2,244.00
Royal Insurance Corpn. of Bhutan (RICB)	120,000,000	59.00	7,080.00
S.D Eastern Bhutan Coal Company Ltd. (EBCC)	5,210,000	45.00	234.45
State Trading Corpn. of Bhutan Ltd. (STCB)	18,000,160	17.50	315.00
GIC-Bhutan Re-Limited (GBRL)	50,000,000	15.00	750.00
TOTAL	**771,723,438**	-	**25,580.41**

Source: Royal Securities Exchange of Bhutan Ltd. Thimphu.

Table 12.15: Royal Securities Exchange of Bhutan Ltd.Total Traded Volume at the End of December, (2013 - 2017)

(Numbers)

Company	2013	2014	2015	2016	2017
Bhutan Board Products Ltd. (BBPL)	10,100	...	1,000	40,000	...
Bhutan Carbide & Chemicals Ltd.(BCCL)	20	40	800	75,000	1,250
Bhutan Ferro Alloys Ltd.(BFAL)	...	...	...	1,000	...
Bhutan Insurance Ltd.(BIL)	171,831	359,709	715,020	244,820	47,800
Bhutan National Bank Ltd.(BNBL)	5,589,791	12,435,817	4,983,929	9,893,122	3,166,772
Bhutan Polymers Company Ltd.(BPCL)	...	...	...	23,790	20,000
Bhutan Tourism Corpn. Ltd(BTCL)	40	1,500	3,200	...	...
Druk Ferro Alloys Ltd.(DFAL)	4,050	899,350	11,500	60,000	113,200
Dungsam Polymers Ltd.(DPL)	858,983	32,743	32,360	17,320	8,930
Druk Plaster & Chemicals Ltd.(DPOP)	...	...	...	...	...
Druk PNB Bank Ltd.(DPNB)	37,561	66,908	105,254	52,250	77,309
T Bank Ltd. (TBL)	826,699	57,994	274,672	256,730	150,880
Druk Satair Corpn. Ltd.(DSCL)	...	...	...	...	10,280
Druk Wang Alloys Ltd.(DWAL)	1,175	11,325	1,033,836	5,050	183,130
Jigme Mining Corporation Ltd.(JMCL)	801	3,468	37,350	4,044	...
Kuensel Corporation Ltd.(KCL)	432	...	8,670	1,500	...
Penden Cement Authority Ltd.(PCAL)	3,585	386,482	310,940	65,050	23,125
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	3,250	2,506,765	72,334,495	442,200	423,600
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	1,000	4,950	9,000	500	7,000
State Trading Corpn. of Bhutan Ltd.(STCB)	900,448	...	85,500	148,300	900
GIC-Bhutan Re-Limited (GBRL)	...	50,384,350	340,450	155,940	5,952
Total	**8,409,766**	**67,151,401**	**80,287,976**	**11,486,616**	**4,240,128**

Note: Total traded volume is inclusive of Initial Public Offering (IPO), Secondary trading and Corporate actions.

Source: Royal Securities Exchange of Bhutan Ltd. Thimphu

Table 12.16: Royal Securities Exchange of Bhutan Ltd. Traded Values, (2013 - 2017)

(In Million Nu.)

Company	Capital Market	2013	2014	2015	2016	2017
Bhutan Board Products Ltd. (BBPL)	Primary	...	...	...	...	...
	Secondary	1.01	...	0.01	0.40	...
Bhutan Carbide & Chemicals Ltd. (BCCL)	Primary	...	...	...	...	...
	Secondary	0.02	0.03	0.06	5.63	0.09
Bhutan Ferro-Alloys Ltd. (BFAL)	Primary	...	...	...	...	...
	Secondary	...	...	...	0.06	...
Bhutan National Bank Ltd. (BNBL)	Primary	...	...	...	...	...
	Secondary	165.38	89.84	134.26	282.97	86.57
Bhutan Polymers Company Ltd. (BPCL)	Primary	...	...	...	...	...
	Secondary	...	...	...	0.24	0.20
Bhutan Tourism Corpn. Ltd (BTCL)	Primary	...	...	...	...	...
	Secondary	0.02	0.06	0.13	...	...
Druk plaster & Chemicals Ltd. (DPOP)	Primary	...	...	...	...	...
	Secondary	...	...	...	...	...
Druk Satair Corpn. Ltd. (DSCL)	Primary	...	...	...	...	...
	Secondary	...	...	...	...	0.35
Druk PNB Bank Ltd. (DPNB)	Primary	...	...	...	...	...
	Secondary	11.78	1.80	1.65	1.12	1.75
T Bank Ltd.(TBL)	Primary	...	...	...	...	...
	Secondary	4.94	4.14	4.06	3.85	2.62
Druk Wang Alloys Ltd.(DWAL)	Primary	...	...	...	...	...
	Secondary	0.53	0.98	2.43	0.19	6.27
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	Primary	...	...	...	...	...
	Secondary	0.34	0.23	0.36	0.02	0.30
Kuensel corporation Ltd.(KCL)	Primary	...	...	...	...	...
	Secondary	0.05	...	0.10	0.02	...

Penden Cement Authority Ltd.(PCAL)	Primary	...	...	...	...	...
	Secondary	2.39	27.66	17.76	3.62	1.35
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	Primary	...	...	...	...	...
	Secondary	1.72	13.53	10.36	17.63	22.46
State Trading Corpn. of Bhutan Ltd.(STCB)	Primary	...	...	...	...	...
	Secondary	0.09	...	1.47	2.61	...
Jigme Mining Corporation Ltd. (JMCL)	Primary	...	...	...	...	...
	Secondary	0.59	2.90	2.68	0.32	...
Druk Ferro Alloys Ltd.(DFAL)	Primary	...	...	...	...	...
	Secondary	0.87	22.73	0.28	1.40	2.14
Dungsam Polymers Ltd. (DPL)	Primary	136.49	...	...	...	...
	Secondary	8.34	2.26	0.57	0.30	0.14
Bhutan Insurance Ltd.(BIL)	Primary	...	...	...	...	...
	Secondary	31.76	11.48	13.56	6.24	1.34
GIC-Bhutan Re-Limited (GBRL)	Primary	...	500.00	...	...	...
	Secondary	...	4.22	4.04	2.05	0.10
TOTAL		**366.32**	**681.87**	**193.78**	**328.67**	**125.68**

Source: Royal Securities Exchange of Bhutan Ltd.Thimphu

Table 12.17: Dividend Declared by the Company, (2013-2017)

(In Percent)

Company	2013	2014	2015	2016	2017
Bhutan Board Products Ltd. (BBPL)	10.0	7.0	8.0	...	...
Bhutan Carbide & Chemicals Ltd.(BCCL)	40.0	40.0	10.0	...	35.0
Bhutan Ferro Alloys Ltd.(BFAL)	65.0	75.0	40.0	...	100.0
Bhutan Insurance Ltd.(BIL)	10.0	9.4	16.8	27.0	35.0
Bhutan National Bank Ltd.(BNBL)	7.7	10.0	14.1	13.4	16.4
Bhutan Polymers Company Ltd.(BPCL)	8.0	...	15.0	25.0	30.0
Bhutan Tourism Corpn. Ltd (BTCL)	25.0	15.0	...	30.0	30.0
Druk Ferro Alloys Ltd.(DFAL)	20.0	30.0	...	11.0	30.0
Druk PNB Bank Ltd.(DPNB)	7.0	8.0	...	10.0	12.0
Druk Plaster & Chemicals Ltd.(DPOP)	10.0	...	...	...	...
Druk Satair Corpn. Ltd.(DSCL)	100.0	125.0	130.0	80.0	100.0
Druk Wang Alloys Ltd.(DWAL)	50.0	70.0	15.0	20.0	10.0
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	200.0	300.0	200.0	200.0	200.0
Jigme Mining Corporation Ltd.(JMCL)	125.0	150.0	200.0	500.0	500.0
Kuensel Corporation Ltd.(KCL)	...	12.0	18.0	18.0	17.0
Penden Cement Authority Ltd.(PCAL)	90.0	80.0	35.0	70.0	70.0
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	45.0	35.0	20.0	25.0	12.6
T Bank Ltd. (TBL)	...	5.7	5.7	...	...
State Trading Corpn. of Bhutan Ltd.(STCB)	...	...	15.0	18.0	20.0
Dungsam Polymers Ltd.(DPL)	...	...	...	...	...
GIC-Bhutan Re-Limited (GBRL)	...	...	...	...	3.0

Source: Royal Securities Exchange of Bhutan Ltd, Thimphu.

Until the inception of five year development plan in the country, the economic activities were basically involved in traditional way. The economic transaction was done through barter system; taxes were being collected in the form of kind and labor. The citizens were to remit certain portion of their agricultural, forest and livestock produce to government and mandatory to provide labor services to accomplish national developmental activities.

With start of Five Year Plan development in 1961 and steady economic integration at regional to global level has necessitated institutionalization of contemporary public finance system in the country. For this, the position of a Finance Secretary was created in the Royal Secretariat in 1963 and Ministry of Finance is one among the first few Ministries established in 1968. Further with introduction of Bhutanese paper currency in 1974, there has been systematic transition from barter system to monetized economy and the ancient taxation system has been gradually phased out and replaced by monetary taxation. In order to institutionalize the fair and equitable taxation and for coherent and rational tax system, taxation policy were initiated in the year 1989. The taxation policy was further revised in 1992, to trim down the tax formation and also to widen tax base in the country.

As required by Public Finance Act, 2007, the Ministry of Finance is responsible for overall financial management through effective and efficient use of public resources. As mandated for maintaining sound fiscal and macroeconomic policies, it coordinate, presents and produce macro-fiscal or government finance statistics of the country. Share of government expenditure to GDP is substantial and is significant for overall economic development of the country.

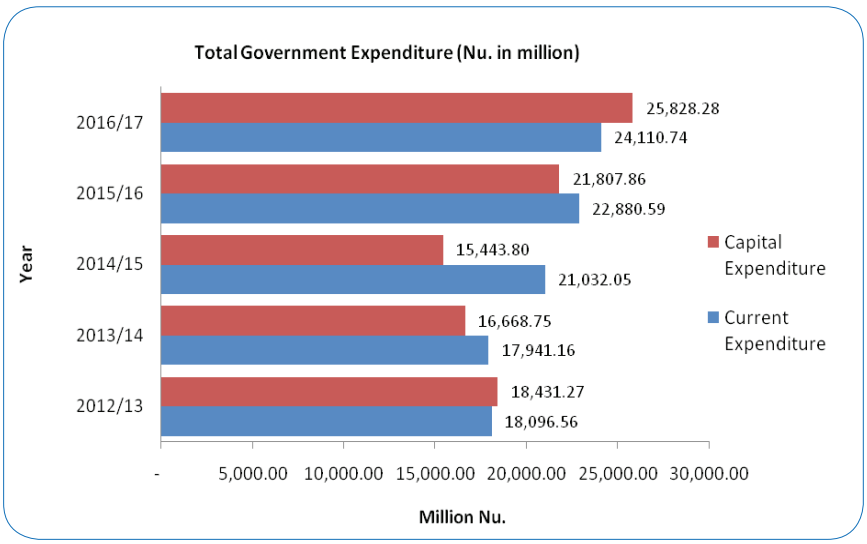


Table 13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2012/13 To 2016/17

(Nu. in million)

Agency	2012/13	2013/14	2014/15	2015/16	2016/17
Ministry	**10,095.127**	**9,451.016**	**10,849.192**	**12,687.916**	**11,918.394**
Ministry of Home & Cultural Affairs	1,294.970	1,391.982	1,482.861	1,618.889	1,832.516
Ministry of Finance	4,404.295	3,991.738	4,226.497	4,670.590	4,666.228
Ministry of Foreign Affairs	516.263	552.268	529.463	620.016	599.043
Ministry of Agriculture & Forests	1,381.678	1,489.781	1,739.289	1,850.925	2,029.863
Ministry of Economic Affairs	248.740	245.989	309.807	323.176	331.232
Ministry of Works & Human Settlement	417.044	423.675	497.333	578.009	609.642
Ministry of Information & Communications	184.330	178.575	218.142	231.673	253.921
Ministry of Health	1,294.622	840.545	843.424	934.666	962.171
Ministry of Education	168.101	152.531	783.946	1,625.620	394.163
Ministry of Labour & Human Resources	185.084	183.932	218.430	234.352	239.615
Judiciary	**206.721**	**225.945**	**259.929**	**265.067**	**269.217**
Constitutional Bodies	**589.405**	**274.232**	**279.184**	**376.740**	**538.455**
Royal Civil Service Commission	38.962	46.789	57.283	82.202	67.767
Anti-Corruption Commission	35.595	34.584	44.703	52.243	72.488
Election Commission of Bhutan	412.871	90.702	44.757	94.401	243.413
Royal Audit Authority	101.977	102.157	132.441	147.894	154.787
Autonomous Bodies	**1,734.889**	**2,424.393**	**3,049.232**	**3,140.169**	**3,605.317**
His Majesty's Secretariat	30.349	27.305	33.659	28.773	33.474
His Majesty's Secretariat (4th King)	18.759	17.447	21.660	19.890	23.194
National Assembly of Bhutan	95.939	76.681	98.892	106.081	111.984
National Council of Bhutan	63.601	61.542	67.344	74.373	83.820
Council For Religious Affairs	484.073	503.060	571.636	597.524	635.466
Cabinet Secretariat	50.461	33.240	40.464	48.369	60.713
Office of The Attorney General	19.252	20.540	25.535	34.168	37.301
Bhutan Olympic Committee	38.918	23.788	24.327	48.986	32.035
Dzongkha Development Commission	14.822	14.574	19.248	15.710	20.937

National Land Commission	218.607	198.878	232.482	154.465	149.234
Centre For Bhutan Studies And GNH Research	17.960	11.692	38.298	35.394	24.985
Gross National Happiness Commission	34.384	34.946	39.245	41.265	37.526
National Environment Commission	27.151	33.716	33.276	31.134	29.870
Royal Institute of Management	41.530	40.114	48.311	49.906	45.456
Royal University of Bhutan	0.000	0.000	0.575	...	2.700
National Statistics Bureau	26.669	22.734	30.426	84.383	218.139
Bhutan Narcotic Control Authority	11.494	12.764	16.776	15.437	14.922
Bhutan Information Communication Media Authority	14.227	14.668	17.620	17.039	17.446
Thromdeys	344.203	520.185	591.860	563.030	744.496
Drug Regulatory Authority	8.113	9.141	11.660	12.891	13.065
Tourism Council of Bhutan	47.118	48.657	56.298	57.739	55.057
National Commission For Women & Children	13.869	10.548	12.551	12.444	14.310
Royal Education Council	19.001	23.147	17.905	43.367	38.645
Bhutan Council For School Examination & Assessment	61.538	68.085	90.504	98.471	113.166
Royal Privy Council	8.288	9.464	13.328	14.650	12.620
Bhutan Standard Bureau	24.563	23.551	28.427	26.904	27.616
Khesar Gyalpo University of Medical Sciences of Bhutan	...	560.194	20.973	25.620	39.497
Jigme Singye Wangchuk School of Law	...	3.732	8.168	8.275	15.959
Bhutan National Legal Institute	...	...	17.005	14.328	17.936
Civil Society Organisations Authority	...	...	4.027	3.024	3.136
Jigme Dorji Wangchuk National Referral Hospital	...	...	816.752	856.529	930.612
Dzongkhag Administration	**5,285.211**	**5,375.795**	**6,342.087**	**6,147.512**	**7,542.579**
Gewog Administration	**185.206**	**189.777**	**252.424**	**263.188**	**236.777**
Total Expenditure	**18,096.559**	**17,941.158**	**21,032.048**	**22,880.592**	**24,110.739**

Source : Annual Financial Statement, Department of Public Accounts, MoF, Thimphu.

Table 13.2: Actual Annual Capital Expenditure of the Government by Agency for the FY 2012/13 to 2016/17

(Nu. in million)

Agency	2012/13	2013/14	2014/15	2015/16	2016/17
Ministry	**11,053.986**	**11,620.247**	**10,591.096**	**14,440.963**	**15,871.804**
Ministry of Home & Cultural Affairs	619.224	373.123	658.583	1,028.667	1,330.663
Ministry of Finance	1,425.346	3,982.025	1,954.083	3,022.270	2,687.375
Ministry of Foreign Affairs	21.592	14.414	26.296	46.129	113.611
Ministry of Agriculture & Forests	1,188.594	1,110.801	997.912	1,493.486	1,575.417
Ministry of Economic Affairs	525.508	455.588	484.284	751.852	1,245.443
Ministry of Works & Human Settlement	4,247.685	3,603.307	3,775.760	5,046.126	5,409.501
Ministry of Information & Communications	1,140.182	519.773	699.476	653.451	754.095
Ministry of Health	504.815	603.279	683.024	795.977	821.582
Ministry of Education	1,144.178	714.243	1,014.719	1,137.330	1,432.231
Ministry of Labour & Human Resources	236.862	243.694	296.959	465.675	501.886
Judiciary	**434.457**	**299.663**	**173.231**	**104.509**	**201.185**
Constitutional Bodies	**210.693**	**209.133**	**272.897**	**321.803**	**427.406**
Royal Civil Service Commission	103.601	91.186	118.526	145.521	252.399
Anti-Corruption Commission	44.934	69.253	40.185	36.428	58.107
Election Commission of Bhutan	29.122	16.095	89.055	81.301	15.663
Royal Audit Authority	33.036	32.599	25.131	58.553	101.237
Autonomous Bodies	**2,066.471**	**1,041.105**	**989.330**	**1,478.426**	**2,057.292**
His Majesty's Secretariat	5.302	1.407	2.162	0.975	1.173
His Majesty's Secretariat (4th King)	...	...	...	0.050	0.100
National Assembly of Bhutan	9.129	26.824	21.525	9.373	6.143
National Council of Bhutan	17.770	19.071	14.324	5.377	10.677
Council For Religious Affairs	245.803	183.803	156.006	212.897	250.015
Cabinet Secretariat	7.007	8.720	22.552	51.585	39.374
Office of The Attorney General	30.332	25.729	29.751	4.065	3.864
Bhutan Olympic Committee	21.871	12.636	11.004	59.327	131.726
Dzongkha Development Commission	5.580	5.165	3.299	3.793	4.872

National Land Commission	181.638	130.498	137.351	81.617	47.515
Centre For Bhutan Studies And GNH Research	2.912	2.950	1.270	11.204	37.310
Gross National Happiness Commission	59.031	45.383	73.274	84.197	79.888
National Environment Commission	34.530	33.141	60.436	115.908	80.798
Royal Institute of Management	71.761	77.013	51.171	40.187	31.834
Royal University of Bhutan	994.646	104.764	112.525	229.494	487.818
National Statistics Bureau	30.435	16.946	19.151	5.470	3.328
Bhutan Narcotic Control Agency	1.401	1.660	2.433	4.589	9.048
Bhutan Information Communication Media Authority	100.681	25.404	2.671	153.956	114.074
Thromdeys	66.002	69.526	34.771	75.768	145.952
Drug Regulatory Authority	3.200	3.221	3.937	3.569	4.628
Tourism Council of Bhutan	106.380	127.016	82.216	59.893	54.868
National Commission For Women & Children	19.650	12.629	26.030	14.552	26.808
Royal Education Council	36.371	18.183	1.849	39.434	34.772
Bhutan Council For School Examination & Assessment	6.638	9.425	10.632	12.865	13.739
Royal Privy Council	2.896	1.336	1.219	2.701	0.426
Bhutan Standard Bureau	5.505	1.876	7.397	3.455	4.926
Khesar Gyalpo University of Medical Sciences of Bhutan	...	73.721	16.310	58.548	43.468
Jigme Singye Wangchuk School of Law	...	3.058	6.118	14.581	293.525
Bhutan National Legal Institute	...	...	6.727	8.376	10.204
Civil Society Organizations Authority	...	...	0.090	1.525	1.359
Jigme Dorji Wangchuck National Referral Hospital	...	...	71.129	109.095	83.060
Dzongkhag Administration	**3,089.335**	**2,272.550**	**2,391.211**	**3,479.466**	**4,805.328**
Gewog Administration	**1,576.328**	**1,226.056**	**1,026.036**	**1,982.691**	**2,465.268**
Total Expenditure	**18,431.270**	**16,668.754**	**15,443.801**	**21,807.858**	**25,828.283**

Source : Annual Financial Statement, Department of Public Accounts, Mof, Thimphu.

Table 13.3: The Sector-wise Government Expenditures for the FY 2013/14 to 2016/17

(Nu. in million)

Sectors	2013/14		2014/15		2015/16		2016/17	
	Current	Capital	Current	Capital	Current	Capital	Current	Capital
Social Services	**6,085.223**	**2,635.160**	**7,729.926**	**3,029.017**	**9,238.171**	**3,853.878**	**9,241.227**	**5,846.502**
Health	2,049.465	924.672	2,473.893	983.760	2,732.031	1,371.164	2,837.284	1,521.74
Education	4,035.758	1,710.488	5,256.033	2,045.257	6,506.140	2,482.714	6,403.943	4,324.77
Economic Services	**2,882.380**	**6,701.375**	**3,388.883**	**7,027.985**	**3,984.276**	**10,943.615**	**3,680.943**	**11,377.887**
RNR Services	1,857.977	2,216.113	2,160.221	1,983.035	2,279.893	3,748.088	2,436.568	4,327.98
Mining, Manuftg. & Industries Services	158.401	62.712	192.791	108.490	217.067	129.509	91.267	51.566
Transport & Communication Services	521.456	3,611.172	613.632	4,154.617	1,027.770	5,682.554	771.161	5,517.83
Energy Services	70.427	387.544	89.219	361.354	89.782	575.052	98.506	806.992
Other Economic Services	274.119	423.834	333.020	420.489	369.764	808.412	283.441	673.522
Housing & Public Amenities Services	**333.402**	**861.969**	**404.822**	**725.864**	**502.943**	**1,707.065**	**444.752**	**1,664.923**
General Public Services	**6,481.871**	**5,072.188**	**7,114.433**	**3,134.840**	**6,559.296**	**3,266.782**	**8,054.467**	**4,419.977**
General Public Service	3,226.034	1,531.739	3,774.839	1,545.924	4,450.213	3,266.782	6,055.752	4,419.977
Public Debt Services	3,255.837	3,540.449	3,339.594	1,588.916	2,109.083	...	1,998.715	...
Religion & Cultural Services	**628.990**	**888.034**	**752.489**	**1,105.009**	**790.320**	**1,513.764**	**819.255**	**1,758.808**
Public Order & Safety Services	**1,529.285**	**510.025**	**1,641.491**	**421.091**	**1,805.586**	**522.752**	**1,888.943**	**768.926**
Total Expenditure	**17,941.151**	**16,668.751**	**21,032.044**	**15,443.806**	**22,880.592**	**21,807.856**	**24,129.587**	**25,837.023**

Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance

Table 13.4: Summary of National Revenue Collections by Source for the FY 2012/13 to 2016/17

(Nu. in Million)

Source of Revenue	2012/13	2013/14	2014/15	2015/16	2016/17
(1) Tax Revenue (I+II)	**15,403.12**	**16,182.77**	**18,387.34**	**19,884.63**	**21,248.11**
(I) Direct Tax	**9,390.04**	**11,132.04**	**11,626.97**	**12,200.09**	**12,462.47**
Corporate Income Tax	4,864.28	6,127.43	6,488.78	7,459.58	8,171.42
Business Income Tax	1,690.63	1,783.89	1,585.02	1,175.30	1,277.26
Personal Income Tax	1,112.05	1,280.98	1,536.16	1,770.36	955.65
Other Tax Revenue	**1,723.08**	**1,939.75**	**2,017.01**	**1,794.86**	**2,058.13**
Motor Vehicle Tax	218.11	250.01	248.25	42.85	35.32
Business & Professional Licences	79.56	93.72	104.95	87.40	118.38
Airport Service Tax	44.41	51.32	59.13	64.14	78.76
Dzongkhag Municipal tax (Recurrent taxes on immovable property)	3.68	5.58	8.45	4.24	3.59
Health Contribution	145.83	157.41	32.19	57.39	(79.86)
Royalties	1,231.49	1,381.71	1,564.04	1,538.83	1,901.94
(II) Indirect Tax	**6,013.08**	**5,050.73**	**6,760.37**	**7,684.53**	**8,785.64**
Sales Tax	2,171.03	2,162.89	3,060.07	3,576.48	3,800.12
Excise Duty	3,481.83	2,556.47	2,686.85	2,483.07	3,496.78
Customs Duty	305.54	312.79	447.40	597.39	562.56
Green Tax	35.94	1.68	545.87	1,007.12	909.65
Other Indirect Tax Revenue	18.75	16.90	20.18	20.47	16.52
(2) Non Tax Revenue	**5,698.57**	**7,061.84**	**6,753.69**	**8,149.19**	**8,465.49**
Administrative Fees & Charges	331.06	349.22	350.52	714.23	654.50
Dividends	3,035.78	3,779.39	3,692.13	3,785.69	4,041.25
Revenue from Govt. Departments	342.61	357.99	454.17	498.48	562.71
Capital Revenue	88.89	82.36	110.06	120.45	193.35
Net Surplus Transfer	...	...	...	788.68	874.07
Other Non-Tax Revenue	84.27	81.02	115.37	86.71	244.95
Interest on loan from corporations	1,815.95	2,411.87	2,031.44	2,154.95	1,894.66
Total Revenue (1+2)	**21,101.69**	**23,244.61**	**25,141.03**	**28,033.81**	**29,713.60**

Source : National Revenue Report, Department of Revenue & Customs, MoF, Thimphu.

Table 13.5: Fiscal Framework of Government, Bhutan 2012/13 to 2016/17

(Nu. in Millions)

Item	2012/13	2013/14	2014/15	2015/16	2016/17
Revenue & Grants	**30,656.116**	**37,819.123**	**36,231.052**	**42,039.298**	**42,673.126**
Domestic Revenue	**21,101.691**	**23,244.610**	**25,141.030**	**28,033.812**	**29,713.600**
Tax revenue	15,403.118	16,182.774	18,387.335	19,884.626	21,706.997
Non-tax revenue	5,698.573	7,061.836	6,753.695	8,149.186	8,006.603
Other Receipts	**(8.210)**	**338.160**	**1,135.001**	**(884.124)**	**(27.226)**
Grants	**9,562.635**	**14,236.353**	**9,955.021**	**14,889.610**	**12,986.752**
Programme Grants	**2,618.453**	**1,749.693**	**2,125.000**	**2,340.015**	**2,125.000**
GoI	1,050.00	1,625.00	2,125.00	1,275.00	2,125.00
Other Donors	1,568.453	124.693	...	1,065.015	...
Project Tied Grants	**6,944.182**	**12,486.660**	**7,830.021**	**12,549.595**	**10,861.752**
GoI	3,643.402	9,059.430	4,468.760	9,446.698	7,757.572
Other Donors	3,300.780	3,427.230	3,361.261	3,102.897	3,104.180
Outlay	**34,900.809**	**33,522.834**	**34,334.259**	**43,603.000**	**48,017.988**
Total Expenditure	**36,527.815**	**34,609.903**	**36,475.849**	**44,688.447**	**49,966.611**
Current	18,096.551	17,941.151	21,032.044	22,880.591	24,129.587
Capital	18,431.264	16,668.752	15,443.805	21,807.856	25,837.024
Net lending (NL)	**(739.889)**	**(1,331.989)**	**(2,552.746)**	**(1,885.332)**	**(2,003.122)**
Advance/Suspense (Net)	**(887.117)**	**244.920**	**411.156**	**799.885**	**54.499**
Overall Balance	**(4,244.692)**	**4,296.289**	**1,896.795**	**(1,563.702)**	**(5,344.862)**
Financing	**(3,260.080)**	**(4,120.987)**	**(1,896.795)**	**1,563.702**	**5,344.862**
Net Borrowings	**492.306**	**(867.009)**	**(1,086.409)**	**(1,215.482)**	**524.326**
Borrowings	16,463.456	1,534.544	1,685.268	1,818.681	3,227.662
Repayments	15,971.150	2,401.553	2,771.677	3,034.163	2,703.336
Resource Gap	**(3,752.386)**	**(3,253.978)**	**(810.386)**	**(2,779.184)**	**(4,820.536)**

Source : Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance

Table 13.6: Revenue Collection by Sector, FY 2012/13 To 2016/17

(Nu. in Millions)

Sector	2012/13	2013/14	2014/15	2015/16	2016/17
Primary (Agriculture)	**372.31**	**403.42**	**629.69**	**403.31**	**533.32**
Industry	**4,307.93**	**5,269.80**	**5,122.11**	**5,981.96**	**3,719.05**
Manufacturing	602.77	548.44	682.44	554.68	528.91
Electricity	3,705.16	4,721.36	4,439.66	5,427.28	3,190.14
Service	**11,291.41**	**10,736.61**	**12,862.40**	**15,340.30**	**18,298.41**
Services (Transport, communication, hotel & restaurant)	2,739.81	2,962.02	4,776.74	5,152.81	7,235.51
Trade	7,816.84	7,122.25	7,444.50	8,227.40	9,102.63
Finance	734.76	652.34	641.16	1,960.09	1,960.27
Gross Sectoral Revenue Collection [1]	15,971.65	16,409.83	18,614.19	21,725.57	22,550.78

Note:[1] Sectoral revenue are based on gross collection and excludes PIT collections, Druk Holding Investment (DHI) dividends and interest receipts on loan from corporations

Source: National Revenue Report, Department of Revenue & Customs, Ministry of Finance

Table 13.7: Government Debt Stock & Debt Service, 2011/12 to 2015/16

(Nu. in Millions)

Debt	2011/12	2012/13	2013/14	2014/15	2015/16
Total Public Debt	**62,813.11**	**101,310.19**	**108,370.35**	**120,783.00**	**160,562.06**
Domestic Debt	1,092.55	6,342.72	2,913.44	2,106.81	4,656.12
External Debt	**61,720.56**	**94,967.47**	**105,456.91**	**118,676.19**	**155,905.94**
Indian Rupee Debt	32,546.30	60,826.65	67,870.16	81,183.64	115,393.82
Convertible Currency Debt	29,174.26	34,140.82	37,586.76	37,492.55	40,512.13
Total Debt Service	**9,106.06**	**19,659.64**	**23,530.08**	**24,118.27**	**27,504.02**
Domestic	5,067.55	13,253.95	12,719.04	15,639.24	21,202.62
External	4,038.51	6,405.69	10,811.04	8,479.04	6,301.39
Interest payment	**1,886.04**	**3,371.73**	**2,871.23**	**2,646.62**	**3,688.53**
Domestic	76.15	186.19	153.28	45.08	78.00
External	**1,809.89**	**3,185.54**	**2,717.96**	**2,601.53**	**3,610.53**
Indian Rupee	1,497.56	2,731.25	2,208.77	2,044.18	1,805.27
Convertible Currency	312.33	454.29	509.19	557.35	1,805.27
Principal payment	**7,220.02**	**16,287.91**	**20,658.84**	**21,471.66**	**25,004.62**
Domestic	4,991.40	13,067.76	12,565.76	15,594.16	21,124.63
External	**2,228.62**	**3,220.15**	**8,093.08**	**5,877.50**	**3,879.99**
Indian Rupee	1,581.84	2,486.27	7,227.76	4,816.13	2,516.64
Convertible Currency	646.78	733.88	865.32	1,061.37	1,363.35

Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance

Development planning in Bhutan can be tracked back to the year 1961 when the first Five Year Plan (1961/62 to 1965/66) was drawn up. Initially, self-contained development secretariat was established to implement the plan. At the time of preparation of the third plan in 1971, the Planning Commission (now, Gross National Happiness Commission) was established headed by the His Majesty the King. In the absence of basic economic information and skilled manpower, the formulation of the third plan, like earlier ones was relatively simple. Major developments in regard to the consolidation of the planning process took place in the fourth plan period, when the Dzongkhags were involved in the development process.

The **Ninth Five Year Plan (2002-2007)** focused on five major goals; 1. Improve the quality of life and income, 2. Ensure good governance, 3. Promote private sector growth and employment generation, 4. Preserve and promote cultural heritage and conversation of environment, 5. Achieve rapid economic growth and transformation. The plan, as a whole, emphasized on perusing maximization of Gross National Happiness as a development goal and an objective.

The **Tenth Five Year Plan (2008-2013)** began in July 2007 will peruse towards poverty reduction as a primary goal, achieving country's long term development vision GNH and Bhutan's commitment towards global compacts, including MDGs.

The **Eleventh Five Year Plan (2013-2018)** is the second five year plan to be implemented since the introduction of Democratic Constitutional Monarchy in 2008. A notable paradigm shift of the 11th FYP is the adoption of a result based planning (RBP) framework that articulates clear outcomes and outputs that need to be achieved in order to realize the eleventh plan objectives of *"Self –reliance and Inclusive Green Socio-Economic Development"*.

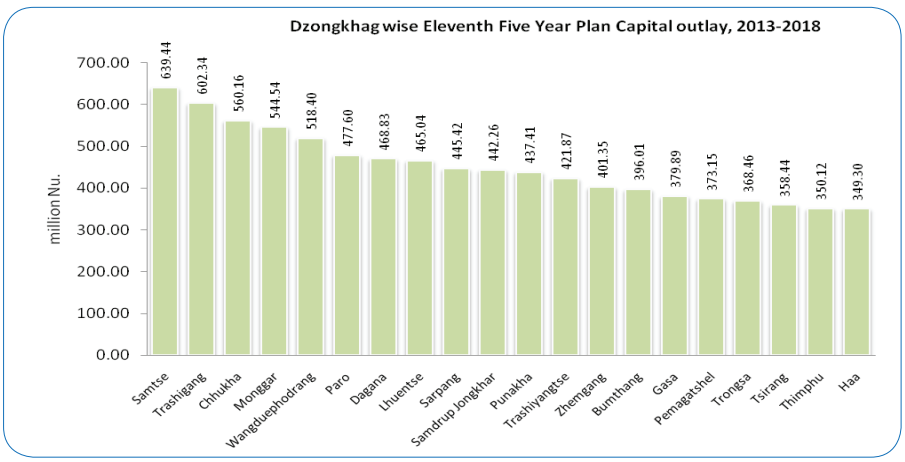


Table 14.1: Tenth Plan Budgetary Outlay and Allocation, Bhutan (2008-2013)

(Nu. in Million)

Organization	Recurrent	Capital	Total	Percent
Constitutional Bodies	**1,577.88**	**5,199.11**	**6,776.98**	**4.62**
Judiciary	611.89	724.51	1,336.40	0.91
Royal Audit Authority	289.02	53.56	342.57	0.23
Election Commission Of Bhutan	523.50	79.91	603.41	0.41
Anti Corruption Commission	64.66	125.37	190.03	0.13
Royal Civil Service Commission	88.81	4,215.76	4,304.57	2.94
Autonomous Agencies	**5,783.46**	**6,503.98**	**12,287.44**	**8.40**
His Majesty's Secretariat	147.22	100.00	247.22	0.17
Secretariat of His Majesty the Fourth King	89.33	50.00	139.33	0.10
National Assembly Secretariat	252.86	42.91	295.77	0.20
Royal Advisory Council (National Council)	149.59	56.99	206.58	0.14
Cabinet Secretariat	141.18	15.58	156.76	0.11
Office of the Attorney General	64.84	56.15	120.99	0.08
GNH Commission	170.08	1,050.00	1,220.08	0.83
National Land Commission	454.81	385.86	840.67	0.57
National Environment Commission	78.02	109.30	187.32	0.13
Dzongkha Development Commision	77.10	30.60	107.70	0.07
Council for Ecclesiasstical Affairs	1,864.27	633.55	2,497.82	1.71
National Statistics Bureau	129.20	45.29	174.49	0.12
Royal University of Bhutan	1,532.97	2,427.10	3,960.07	2.71
Royal Institute of Management	129.19	275.05	404.24	0.28
Centre for Bhutan Studies	45.50	50.00	95.50	0.07
Bhutan Narcotic Control Agency	23.00	21.40	44.41	0.03
Bhutan Olympic Committee	158.26	100.00	258.26	0.18
Bhutan Broadcasting service Corporation	...	406.78	406.78	0.28
National commission for Women and Children	70.82	64.21	135.02	0.09

Bhutan Information Communication Media Authority	38.32	10.50	48.82	0.03
Drug Regulatory Authority	16.15	...	16.15	0.01
Tourism Council ob Bhutan	150.75	572.71	723.45	0.49
Ministries	**48,897.65**	**49,908.69**	**98,806.32**	**67.56**
Ministry of Agriculture	4,497.09	3,626.51	8,123.60	5.55
Ministry of Education	875.12	9,489.13	10,364.25	7.09
Ministry of Finance	29,632.49	699.92	30,332.41	20.74
Ministry of Foreign Affairs	1,319.63	447.51	1,767.14	1.21
Ministry of Health	4,175.97	4,394.34	8,570.30	5.86
Ministry of Home and Cultural Affairs	4,301.61	3,000.64	7,302.24	4.99
Ministry of Information and Communication	561.99	3,776.47	4,338.46	2.97
Ministry of labour and Human Resources	742.67	1,446.07	2,188.74	1.50
Ministry of Econimic Affairs	1,057.54	5,763.18	6,820.72	4.66
Ministry of Works and Human Settlements	1,733.54	17,264.92	18,998.46	12.99
Others	**963.97**	**...**	**963.97**	**0.66**
Thimphu Thromdey Schools	963.97	...	963.97	0.66
Total (Constitutional Bodies, Autonomous Bodies and Ministries)	57,222.95	61,611.76	118,834.70	81.25
Dzongkhags and Gewogs	**15,417.52**	**12,000.00**	**27,417.52**	**18.75**
Dzongkhags	...	7,200.00	7,200.00	4.92
Gewogs	...	4,800.00	4,800.00	3.28
Total Outlay	**72,640.47**	**73,611.76**	**146,252.22**	**100.00**

Source: Tenth Plan Document 2008-2013", GNH Commision, Thimphu.

Table 14.2: Eleventh Plan Budgetary Outlay and Allocation, Bhutan (2013-2018)

(Nu. in Million)

Organization	Outlays			% of Total
	Current	Capital	Total	
Constitutional Body	**2,613.50**	**1,567.50**	**4,181.00**	**1.96**
Judiciary	1,247.99	623.00	1,870.99	0.88
Royal Audit Authority	659.01	216.00	875.01	0.41
Election Commission Of Bhutan	220.58	428.00	648.58	0.30
Anti Corruption Commission	237.53	93.50	331.03	0.16
Royal Civil Service Commission	248.39	207.00	455.39	0.21
Autonomous Agency	**11,619.16**	**7,014.65**	**18,633.81**	**8.74**
His Majesty's Secretariat	182.14	...	182.14	0.09
Secretariat of His Majesty the Fourth King	135.06	...	135.06	0.06
National Assembly Secretariat	535.12	54.00	589.12	0.28
National Council	355.36	330.00	685.36	0.32
Royal Privy Council	83.89	...	83.89	0.04
Cabinet Secretariat	179.61	23.00	202.61	0.09
Office of the Attorney General	124.87	43.90	168.77	0.08
Gross National Happiness Commission	227.95	625.00	852.95	0.40
National Land Commission	1,182.19	500.00	1,682.19	0.79
National Environment Commission	183.94	374.00	557.94	0.26
Dzongkha Development Commision	88.34	63.00	151.34	0.07
Council for Religious Affairs	2,983.26	379.00	3,362.26	1.58
National Statistics Bureau	153.46	92.44	245.90	0.12
Royal University of Bhutan	...	1,086.45	1,086.45	0.51
Royal Education Council	181.43	292.00	473.43	0.22
Bhutan Council for School Examination & Assessment	404.01	50.00	454.01	0.21
Royal Institute of Law & Bhutan National Legal Institute	32.80	589.50	622.30	0.29
University of Medical Sciences of Bhutan	3,233.61	487.30	3,720.91	1.74
Royal Institute of Management	280.94	273.00	553.94	0.26
Centre for Bhutan Studies	97.64	14.50	112.14	0.05
Bhutan Narcotic Control Agency	87.94	45.00	132.94	0.06

Bhutan Olympic Committee	176.07	395.00	571.07	0.27
Bhutan Broadcasting service Corporation	...	340.00	340.00	0.16
National commission for Women and Children	99.17	55.00	154.17	0.07
Bhutan Information Communication Media Authority	93.75	118.25	212.00	0.10
Bhutan Standard Bureau	145.77	36.00	181.77	0.09
Drug Regulatory Authority	56.67	33.00	89.67	0.04
Tourism Council of Bhutan	314.17	345.61	659.78	0.31
Royal Institute of Tourism and Hospitality	...	25.50	25.50	0.01
JDWNR Hospital	...	334.20	334.20	0.16
CSO Authority	...	10.00	10.00	0.00
Ministry	**70,429.48**	**55,657.19**	**126,086.67**	**59.11**
Ministry of Agriculture and Forest	8,786.88	4,856.00	13,642.88	6.40
Ministry of Education	933.75	7,438.74	8,372.49	3.93
Ministry of Finance	38,589.53	2,678.55	41,268.08	19.35
Ministry of Foreign Services	3,287.34	320.00	3,607.34	1.69
Ministry of Health	4,306.82	3,839.41	8,146.23	3.82
Ministry of Home and Cultural Affairs	8,076.18	3,702.00	11,778.18	5.52
Ministry of Information and Communication	1,068.58	3,548.43	4,617.01	2.16
Ministry of Labour and Human Resources	1,271.25	1,383.00	2,654.25	1.24
Ministry of Econimic Affairs	1,626.42	6,782.06	8,408.48	3.94
Ministry of Works and Human Settlements	2,482.73	21,109.00	23,591.73	11.06
Others (HRD and Exigencies)	**...**	**2,910.66**	**2,910.66**	**1.36**
Human Resource Development	...	2,000.00	2,000.00	0.94
Other Capital (Vehicles, misc. exigences etc.)	...	910.66	910.66	0.43
Total for Central Agencies	**84,662.14**	**67,150.00**	**151,812.14**	**71.18**
Local Governments	**36,629.32**	**24,850.00**	**61,479.32**	**28.82**
Dzongkhags and Gewogs	33,578.44	20,000.00	53,578.44	25.12
Thromdey	...	4,850.00	4,850.00	2.27
Thromdey Schools	3,050.88	...	3,050.88	1.43
Total Outlay	**121,291.46**	**92,000.00**	**213,291.46**	**100.00**

Source: Eleventh Five Year Plan Document 2013-2018", GNH Commission, Thimphu.

Table 14.3: Dzongkhag Wise Ninth Five Year Plan Outlay, Bhutan (2002 - 2007)

(Nu.in Million)

Dzongkhags	Current	Capital	Total
Bumthang	274.96	198.8	473.8
Chhukha	647.6	797.9	1,445.5
Dagana	197.2	315.1	512.3
Gasa	98.9	145.8	244.7
Ha	252.7	290.1	542.8
Lhuentse	269.1	617.3	886.3
Monggar	496.6	651.5	1,148.1
Paro	487.7	602.5	1,090.1
Pemagatshel	309.3	444.5	753.8
Punakha	355.9	303.0	658.9
Samdrup Jongkhar	523.5	645.2	1,168.7
Samtse	327.7	592.9	920.6
Sarpang	503.9	490.4	994.2
Thimphu	740.4	677.8	1,418.2
Trashi Yangtse	298.5	357.1	655.6
Trashigang	671.5	781.3	1,452.8
Trongsa	255.9	309.4	565.3
Tsirang	210.1	316.6	526.7
Wangdue Phodrang	414.9	355.8	770.7
Zhemgang	466.2	425.4	891.6
Total	**7,802.5**	**9,318.3**	**17,120.8**

Source: "Ninth Plan Main Document 2002-2007", Planning Commission, Thimphu.

Table 14.4: Dzongkhag Wise Tenth Five Year Plan Outlay (2008 - 2013)

(Nu.in Million)

Dzongkhags	Current	Capital	Total
Bumthang	...	139.0	139.0
Chhukha	792.7	483.1	1,275.8
Dagana	294.2	273.6	567.8
Gasa	...	58.9	58.9
Ha	...	123.6	123.6
Lhuentse	226.9	292.6	519.5
Monggar	486.9	529.0	1,016.0
Paro	...	259.1	259.1
Pemagatshel	474.5	278.9	753.4
Punakha	277.3	244.6	522.0
Samdrup Jongkhar	...	358.0	358.0
Samtse	...	715.2	715.2
Sarpang	369.3	316.7	686.0
Thimphu	...	177.8	177.8
Trashi Yangtse	135.5	225.4	360.9
Trashigang	314.3	686.6	1,000.8
Trongsa	205.8	126.7	332.5
Tsirang	...	200.3	200.3
Wangdue Phodrang	426.9	233.3	660.1
Zhemgang	375.4	247.3	622.7
Total	**4,379.7**	**5,969.7**	**10,349.4**

Note : Capital budget does not include the gewogs capital budget

Source: Gross National Happiness Commission (GNHC), Thimphu.

Table 14.5: Dzongkhag Wise Eleventh Five Year Plan Outlay (2013 - 2018)

(Nu.in Million)

Dzongkhag	Capital
Bumthang	396.01
Chhukha	560.16
Dagana	468.83
Gasa	379.89
Haa	349.30
Lhuentse	465.04
Monggar	544.54
Pemagatshel	373.15
Paro	477.60
Punakha	437.41
Samdrup Jongkhar	442.26
Samtse	639.44
Sarpang	445.42
Trashiyangtse	421.87
Trashigang	602.34
Thimphu	350.12
Trongsa	368.46
Tsirang	358.44
Wangduephodrang	518.40
Zhemgang	401.35
TOTAL	**9,000.00**

Source: "Eleventh Five Year Plan Vol. I 2013-2018", Gross National Happiness Commission

Table 14.6: Indicative Capital Allocation to Gewogs, Eleventh Five Year Plan (2013-2018)

(Nu. In million)

Dzongkhag	Sl. No.	Gewog	Capital
Bumthang	1	Chhoekhor	58.435
	2	Chhumey	36.654
	3	Tang	31.456
	4	Ura	26.401
		Total	**152.946**
Chhukha	1	Bjachho	26.286
	2	Bongo	58.631
	3	Chapcha	28.461
	4	Dala	79.562
	5	Dungna	16.079
	6	Geling	27.014
	7	Getena	20.207
	8	Logchina	45.355
	9	Metap	12.191
	10	Phuntsholing	53.715
	11	Sampheling	51.692
		Total	**419.193**
Dagana	1	Deorali	20.134
	2	Dorona	16.770
	3	Drujegang	24.928
	4	Gesarling	21.962
	5	Gozhi	25.739
	6	Kana	28.615
	7	Khibisa	20.078
	8	Lajab	15.384
	9	Lhamoizingkha	20.240
	10	Nichula	12.861
	11	Trashiding	25.007
	12	Tsangkha	21.253
	13	Tsendagang	23.222
	14	Tseza	22.151
		Total	**298.344**
Gasa	1	Goenkhamey	13.330
	2	Goenkhatoe	11.609
	3	Laya	26.978

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
Gasa	4	Lunana	38.519
		Total	**90.436**
Haa	1	Bji	34.346
	2	Gakidling	25.019
	3	Katsho	12.569
	4	Sama	23.957
	5	Sangbeykha	22.136
	6	Uesu	22.292
		Total	**140.319**
Lhuentse	1	Gangzur	52.713
	2	Jarey	25.175
	3	Khoma	39.027
	4	Kurtoe	34.093
	5	Menbi	34.494
	6	Metsho	26.694
	7	Minji	28.187
	8	Tsenkhar	35.584
		Total	**275.967**
Monggar	1	Balam	22.574
	2	Chali	27.123
	3	Chaskhar	37.644
	4	Drametse	39.090
	5	Drepong	20.991
	6	Gongdue	31.133
	7	Jurmey	34.732
	8	Kengkhar	43.098
	9	Mongar	46.165
	10	Narang	23.411
	11	Ngatshang	26.524
	12	Saleng	41.824
	13	Sherimung	36.055
	14	Silambi	28.559
	15	Thangrong	32.240
	16	Tsakaling	25.786
	17	Tsamang	24.362
		Total	**541.311**

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
Paro	1	Doga	19.433
	2	Dopshari	23.478
	3	Doteng	14.518
	4	Hungre	11.307
	5	Lamgong	22.873
	6	Lungnyi	20.208
	7	Naja	35.624
	8	Shaba	30.342
	9	Tsento	45.520
	10	Wangcha	36.711
		Total	**260.014**
Pema Gatshel	1	Chimung	12.802
	2	Chokhorling	15.226
	3	Chongshing	13.440
	4	Dechenling	26.382
	5	Dungmen	20.073
	6	Khar	22.457
	7	Nanong	28.663
	8	Norbugang	25.661
	9	Shumar	40.146
	10	Yurung	14.552
	11	Zobel	18.233
		Total	**237.635**
Punakha	1	Baap	23.801
	2	Chhubu	24.158
	3	Dzoma	18.171
	4	Goenshari	12.747
	5	Guma	29.490
	6	Kabjisa	27.870
	7	Lingmukha	9.966
	8	Shengana	15.111
	9	Talo	16.175
	10	Toebesa	20.654
	11	Toewang	23.137
		Total	**221.280**

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
Samdrup Jongkhar	1	Dewathang	38.214
	2	Gomdar	41.287
	3	Langchenphu	21.334
	4	Lauri	56.009
	5	Martshalla	43.346
	6	Orong	43.662
	7	Pemathang	27.865
	8	Phuntshothang	48.899
	9	Samrang	6.377
	10	Serthi	38.655
	11	Wangphu	35.181
		Total	**400.829**
Samtse	1	Norgaygang	67.834
	2	Pemaling	54.561
	3	Sang Ngag Chhoeling	52.654
	4	Norboogang	64.547
	5	Denchukha	48.251
	6	Dophuchen	80.670
	7	Dungtoed	29.528
	8	Namgyel Chhoeling	53.085
	9	Phuntshopelri	63.013
	10	Samtse	57.882
	11	Trashichholing	43.668
	12	Tadhing	72.359
	13	Tendruk	72.115
	14	Ugyentse	26.423
	15	Yoeseltse	44.191
		Total	**725.042**
Sarpang	1	Samtenling	19.429
	2	Chuzargang	26.024
	3	Dekiling	37.669
	4	Chhuzom	31.841
	5	Gelephu	28.304
	6	Gakidling	32.445
	7	Jigmecholing	49.004
	8	Sershong	20.206
	9	Shompangkha	14.590

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
Sarpang	10	Singye	12.949
	11	Tareythang	4.440
	12	Umling	17.129
		Total	**294.030**
Thimphu	1	Chang	23.699
	2	Dagala	16.783
	3	Geyni	11.277
	4	Kawang	24.432
	5	Lingshi	14.889
	6	Mewang	41.487
	7	Naro	11.031
	8	Soe	9.082
		Total	**152.680**
Trashigang	1	Bartsham	19.854
	2	Bidung	23.992
	3	Kanglung	47.271
	4	Kangpara	34.484
	5	Khaling	38.320
	6	Lumang	60.044
	7	Merak	39.079
	8	Phongme	33.616
	9	Radhi	37.330
	10	Sakteng	38.631
	11	Samkhar	30.845
	12	Shongphu	41.308
	13	Thrimshing	29.019
	14	Udzorong	42.583
	15	Yangnyer	33.485
		Total	**549.861**
Trashi Yangtse	1	Bumdeling	35.297
	2	Jamkhar	13.973
	3	Khamdang	29.597
	4	Ramjar	13.266
	5	Toetsho	20.473
	6	Tongmijangsa	17.241
	7	Yalang	18.321

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital
Trashi Yangtse	8	Yangtse	21.917
		Total	**170.085**
Trongsa	1	Drakteng	26.184
	2	Korphu	17.712
	3	Langthel	36.327
	4	Nubi	37.274
	5	Tangsibji	24.593
		Total	**142.090**
Tsirang	1	Barshong	10.656
	2	Beteni	17.738
	3	Dunglagang	14.807
	4	Goseling	15.470
	5	Kikhorthang	21.289
	6	Mendregang	15.841
	7	Patale	18.380
	8	Phuentenchu	15.591
	9	Rangthangling	16.447
	10	Semjong	17.132
	11	Tsholingkhar	16.950
	12	Tsirangtoe	14.807
		Total	**195.108**
Wangdue Phodrang	1	Athang	25.066
	2	Bjena	22.002
	3	Daga	22.848
	4	Dangchu	19.895
	5	Gangtoe	20.113
	6	Gasetshogom	20.604
	7	Gasetshowom	13.329
	8	Kazhi	26.095
	9	Nahi	13.814
	10	Nyisho	23.864
	11	Phangyuel	13.496
	12	Phobjikha	24.462
	13	Ruepaisa	20.681
	14	Sephu	38.323
	15	Thedtsho	18.794
		Total	**323.386**

cont...

Dzongkhag	Sl. No.	Gewog	Capital
Zhemgang	1	Bardo	41.925
	2	Bjoka	24.384
	3	Goshing	31.792
	4	Nangkor	47.360
	5	Nangla	41.830
	6	Phangkhar	36.129
	7	Shingkhar	34.321
	8	Trong	45.965
		Total	**303.706**

Source: "Eleventh Five Year Plan Vol. I 2013-2018", Gross National Happiness Commission

The System of National Accounts (SNA) is a systematic framework of accounts that measures the level of economic development and the rate of economic growth over time. It gives a macroeconomic depiction of how the economy as a whole functions and its relationship with the rest of the world. This is measured conventionally through Gross Domestic Product (GDP).

GDP represents the end result of all economic activities that take place in the economy. It is the sum total of value of all goods and services produced within the economic boundary of the country, which are available for final uses such as consumption, investment and exports.

GDP is measured both in current and constant prices. The base year for GDP estimation in Bhutan is the year 2000. The current price estimate reflects the monetary value of all goods and services produced in the economy at prices prevailing in the year of reporting, while the constant price estimate reflects the monetary value of all goods and services at the base year prices. The estimation and compilation methodology is as per the United Nations System of National Accounting. GDP in Bhutan is estimated using production and expenditure approach.

The objective of the National Accounts Report is to provide timely, comprehensive and reliable description of the condition and performance of the economy. This is done through measurement of GDP, Gross National Income (GNI), and Final Consumption Expenditure (FCE), Gross Capital Formation (GCF), Saving and Net Exports. These information serve as useful and critical information to politicians, policy makers, planners, academicians, researchers and other users in the overall socio-economic planning and policy formulation, monitoring, analysis, and evaluation of the performance of the economy

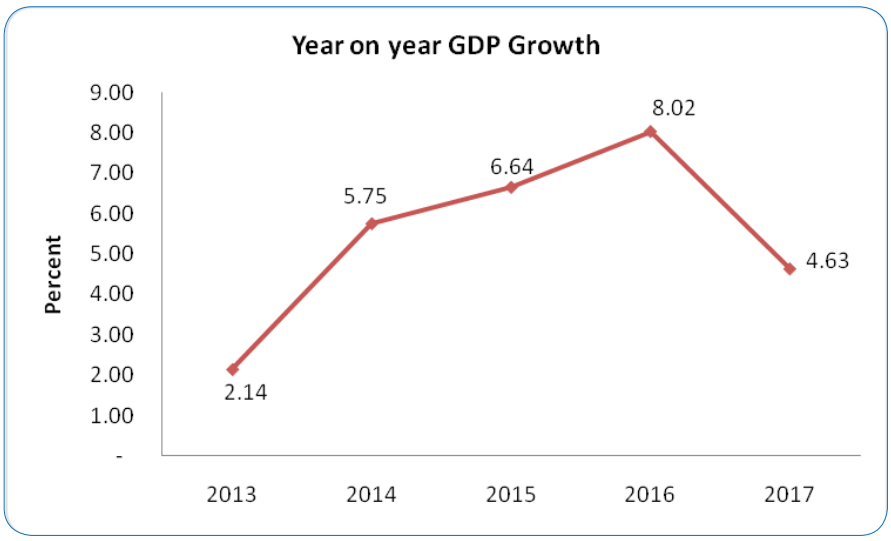


Table 15.1: GDP by Economic Activity at Current Prices, (2013 - 2017)

(Nu. in million)

Sectors	2013	2014	2015	2016	2017
1. Agriculture, Livestock & Forestry	16,969.71	20,050.39	22,007.59	24,565.44	28,591.14
1.1 Crops	9,404.66	12,029.02	13,340.02	14,794.58	17,513.39
1.2 Livestock	4,537.22	4,869.27	5,236.88	5,779.41	7,057.30
1.3 Forestry & Logging	3,027.84	3,152.09	3,430.69	3,991.45	4,020.45
2. Mining & Quarrying	2,793.69	3,376.43	4,484.27	6,455.09	6,954.62
3. Manufacturing	8,778.67	9,705.14	10,543.50	11,085.11	11,938.23
4. Electricity & Water Supply	15,230.29	16,917.83	18,933.12	19,892.13	21,766.87
4.1 Electricity	15,201.13	16,885.90	18,901.14	19,856.94	21,728.17
4.2 Water Supply	29.17	31.93	31.99	35.19	38.70
5. Construction	17,826.07	18,479.70	20,612.96	24,204.73	26,126.36
6. Wholesale & Retail Trade	6,823.31	8,471.66	10,233.35	11,624.75	13,460.01
7. Hotels & Restaurants	1,616.37	2,045.91	2,485.70	2,823.74	3,476.78
8. Transport, Storage & Communications	9,806.81	11,508.69	11,883.73	13,387.49	14,923.42
9. Financing, Insurance, Real Estates & Business Services	8,064.75	9,048.88	9,827.57	10,892.39	11,667.34
9.1 Finance & Insurance	5,781.09	6,461.22	6,901.34	7,574.04	7,945.71
9.2 Real Estate & Dwellings	2,198.01	2,489.76	2,738.74	3,176.94	3,408.28
9.3 Business Services	85.66	97.89	187.48	141.41	313.35
10. Public Administration	6,981.50	8,079.11	9,103.73	9,829.28	11,647.29
11. Education & Health	4,555.00	4,874.55	5,672.73	6,523.31	5,334.49
12. Private Social & Recreational Services	436.86	471.81	503.70	532.45	654.69
13. Taxes Net of Subsidies	5,495.31	6,515.65	5,729.34	6,863.02	8,086.67
GDP	**105,378.35**	**119,545.75**	**132,021.30**	**148,678.93**	**164,627.92**

Source: National Accounts Statistics, NSB

Table 15.2: Percentage Share of GDP by Economic Activity at Current Prices, (2013 - 2017)

Sectors	2013	2014	2015	2016	2017
1. Agriculture, Livestock & Forestry	16.10	16.77	16.67	16.52	17.37
1.1 Crops	8.92	10.06	10.10	9.95	10.64
1.2 Livestock	4.31	4.07	3.97	3.89	4.29
1.3 Forestry & Logging	2.87	2.64	2.60	2.68	2.44
2. Mining & Quarrying	2.65	2.82	3.40	4.34	4.22
3. Manufacturing	8.33	8.12	7.99	7.46	7.25
4. Electricity & Water Supply	14.45	14.15	14.34	13.38	13.22
4.1 Electricity	14.43	14.13	14.32	13.36	13.20
4.2 Water Supply	0.03	0.03	0.02	0.02	0.02
5. Construction	16.92	15.46	15.61	16.28	15.87
6. Wholesale & Retail Trade	6.48	7.09	7.75	7.82	8.18
7. Hotels & Restaurants	1.53	1.71	1.88	1.90	2.11
8. Transport, Storage & Communications	9.31	9.63	9.00	9.00	9.06
9. Financing, Insurance, Real Estates & Business Services	7.65	7.57	7.44	7.33	7.09
9.1 Finance & Insurance	5.49	5.40	5.23	5.09	4.83
9.2 Real Estate & Dwellings	2.09	2.08	2.07	2.14	2.07
9.3 Business Services	0.08	0.08	0.14	0.10	0.19
10. Public Administration	6.63	6.76	6.90	6.61	7.07
11. Education & Health	4.32	4.08	4.30	4.39	3.24
12. Private Social & Recreational Services	0.41	0.39	0.38	0.36	0.40
13. Taxes Net of Subsidies	5.21	5.45	4.34	4.62	4.91
Overall GDP	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**

Source: National Accounts Statistics, NSB

Table 15.3: Sectoral Growth Rates of GDP in Constant Prices, (2013 - 2017)

(Nu. in million)

Sectors	2013	2014	2015	2016	2017
1. Agriculture, Livestock & Forestry	2.40	2.37	4.56	3.65	3.39
1.1 Crops	3.38	3.98	5.74	6.54	6.33
1.2 Livestock	2.04	2.31	3.36	5.54	4.41
1.3 Forestry & Logging	0.82	(0.97)	3.51	(5.42)	(5.63)
2. Mining & Quarrying	36.20	17.01	13.38	11.47	7.01
3. Manufacturing	(5.25)	9.17	4.41	2.42	5.50
4. Electricity & Water Supply	10.76	(2.83)	7.43	2.64	(3.81)
4.1. Electricity	10.78	(2.85)	7.44	2.63	(3.83)
4.2. Water Supply	1.47	9.49	0.17	10.00	10.00
5. Construction	(2.16)	6.54	10.33	13.31	6.34
6. Wholesale & Retail Trade	6.81	13.65	12.72	10.59	10.41
7. Hotels & Restaurants	15.33	17.38	16.15	9.90	15.20
8. Transport, Storage & Communications	4.80	9.01	8.80	11.20	12.09
9. Financing, Insurance, Real Estates & Business Services	1.87	3.82	5.53	10.70	3.64
9.1 Finance & Insurance	1.49	3.82	6.12	10.06	2.85
9.2 Real Estate & Dwellings	3.55	3.76	3.34	12.38	1.11
9.3 Business Services	(1.45)	5.60	2.31	31.70	111.12
10. Public Administration	(5.27)	7.04	7.60	5.35	0.44
11. Education & Health	(6.32)	5.98	3.73	12.21	(2.31)
12. Private Social & Recreational Services	2.78	1.69	2.95	3.78	20.74
13. Taxes Net of Subsidies	(8.54)	13.88	(14.95)	14.99	10.61
Overall GDP	**2.14**	**5.75**	**6.49**	**7.99**	**4.63**

Source: National Accounts Statistics, NSB

Table 15.4: Gross Domestic Product by Major Economic Sectors in Current Prices, (2013 - 2017)

(Nu. in Million)

Sector	2013	2014	2015	2016	2017
1. Primary	16,969.71	20,050.39	22,007.59	24,565.44	28,591.14
2. Secondary	44,628.72	48,479.10	54,573.85	61,637.06	66,786.08
3. Tertairy	43,779.91	51,016.26	55,439.86	62,476.43	69,250.71
Overall GDP	**105,378.35**	**119,545.75**	**132,021.30**	**148,678.93**	**164,627.92**

Source: National Accounts Statistics, NSB

Table 15.5: Percentage Share of GDP by Major Sector in Current Prices, (2013 - 2017)

Sector	2013	2014	2015	2016	2017
1. Primary	0.16	0.17	0.17	0.17	17.37
2. Secondary	0.42	0.41	0.41	0.41	40.57
3. Tertairy	0.42	0.43	0.42	0.42	42.06
Overall GDP	**1.00**	**1.00**	**1.00**	**1.00**	**100.00**

Source: National Accounts Statistics, NSB

Table 15.6: Year on Year GDP Growth, (2013-2017)

(in Percent)

Sector	2013	2014	2015	2016	2017
1. Primary	2.40	0.31	0.59	3.65	3.39
2. Secondary	3.90	1.64	3.52	6.79	2.41
3. Tertairy	0.30	3.79	2.39	10.48	7.15
Overall GDP	**2.14**	**5.75**	**6.49**	**7.99**	**4.63**

Source: National Accounts Statistics, NSB

Table 15.7: GDP by Expenditure at Current Prices, (2013 - 2017)

(Nu. in million)

Description	2013	2014	2015	2016	2017
1. Final Consumption Expenditure	71,637.26	82,900.68	96,496.79	100,732.35	113,926.90
Households & NPISHs	53,362.80	62,706.64	73,031.24	75,670.97	86,867.04
General Government	18,274.46	20,194.04	23,465.55	25,061.39	27,059.85
2. Gross Domestic Capital Formation	48,432.57	61,813.47	71,286.96	82,700.52	84,386.26
a. Construction	40,414.59	46,352.54	48,392.69	55,265.46	57,284.00
b. Machinery & Equipment	8,155.02	17,061.61	22,984.31	26,020.49	24,821.87
c. Software, database dev.(gov)	193.48	350.83	210.71	433.17	2,368.72
d. Valuables	215.65	236.86	47.96	95.32	86.50
e. Changes in Inventories	(546.17)	(2,188.36)	(348.70)	886.08	(174.83)
3. Net Export	(22,988.64)	(25,168.39)	(35,762.45)	(34,753.94)	(33,685.24)
Export of Goods & Services	42,636.41	43,376.76	43,414.41	44,184.40	47,893.47
Import of Goods & Services	65,625.05	68,545.15	79176.858	78938.345	81578.709
GDP, Expenditure	97,081.19	119,545.75	132,021.30	148,678.93	164,627.92

Source: National Accounts Statistics, NSB

Table 15.8: GDP Share of Expenditure at Current Prices, (2013 - 2017)

(in Percent)

Expenditure	2013	2014	2015	2016	2017
1. Final Consumption Expenditure	73.79	69.35	73.09	67.75	69.20
Households & NPISHs	54.97	52.45	55.32	50.90	52.77
General Government	18.82	16.89	17.77	16.86	16.44
2. Gross Domestic Capital Formation	49.89	51.71	54.00	55.62	51.26
Construction	41.63	38.77	36.66	37.17	34.80
Machinery & Equipment	8.40	14.27	17.41	17.50	15.08
software data base dev.	0.20	0.29	0.16	0.29	1.44
Nvaluables	0.22	0.20	0.04	0.06	0.05
Changes in Inventories	(0.56)	(1.83)	(0.26)	0.60	(0.11)
3. Net Export	(23.68)	(21.05)	(27.09)	(23.38)	(20.46)
Export of Goods & Services	43.92	36.28	32.88	29.72	29.09
Import of Goods & Services	67.60	57.34	59.97	53.09	49.55
GDP, Expenditure	100.00	100.00	100.00	100.00	100.00

Source: National Accounts Statistics, NSB

Price statistics is an important macro-economic indicator to monitor the overall price movement in the economy. It provides information on inflationary trends in the economy which is essential for formulation of monetary and fiscal policies. It is also used in various other purposes like adjustment of income, deflator in economic series like GDP, business analysis, cost escalation, etc.

Bhutan currently compiles and publishes two price indices namely the Consumer Price Index (CPI) and the Producer Price Index (PPI). CPI is a measure of average price change over time in the prices of goods & services purchased by households whereas PPI is a measure of average price change over time in the prices of goods & services sold by domestic producers. CPI measures price change from a consumer's perspective while PPI measures price change from a producer's perspective.

Bhutan started the first compilation of CPI in 1979. CPI was published biannually from 1979 to 2003, and quarterly from third quarter of 2003 till fourth quarter of 2012. However, starting from January 2013 CPI is produced on a monthly basis. The index reference period is December 2012=100 based on which the relative index changes are compared. The current CPI is rebased using the recent BLSS 2012 data and reflects the latest expenditure pattern of the Bhutanese households.

The first PPI was published for 2nd quarter 2011. It is a quarterly publication, and provides monthly indices as well for monitoring price movements on a monthly basis. It includes sectors such as Logging, Mining & Quarrying, Manufacturing, Electricity & Water, Transport and Communication. PPI is compiled by economic activity using the International Standard Industrial Classification (ISIC rev. 4) and by Product group using the Central Product Classification (CPC ver. 2). The weight reference period for PPI is 2010 and the relative index changes are calculated based on September 2011=100 as the index reference period.

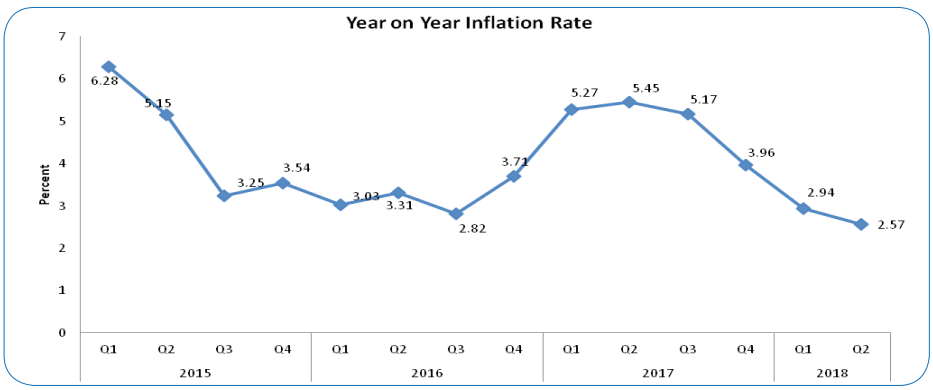


Table 16.1: Year on Year Inflation

Group	Weights	2017							
		Jan	Feb	Mar	Apr	May	June	July	Aug
Food	39.92	6.35	7.82	6.30	8.38	8.08	6.53	7.24	7.32
Non-Food	60.08	4.28	4.22	4.27	4.07	4.07	3.89	4.00	4.04
Total	**100**	**5.10**	**5.64**	**5.08**	**5.77**	**5.65**	**4.94**	**5.28**	**5.34**

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

Table 16.2: Year-on-Year Percent Change by Group Level

12 Major Groups	Weights					
		Jan	Feb	Mar	Apr	May
Food and non-alcoholic Beverages	36.88	6.74	8.35	6.71	8.94	8.65
Alcoholic Beverages and Narcotics	3.03	1.71	1.55	1.45	1.83	1.33
Clothing and Footwear	9.20	3.81	4.28	4.27	4.31	3.98
Housing, Water, Electricity, Gas and other Fuels	21.70	6.96	6.70	6.70	6.54	6.66
Furnishing, Household Equipment and Routine Maintenance of the House.	2.22	1.26	0.71	0.91	1.09	1.32
Health	4.67	-0.18	0.53	0.55	0.54	1.03
Transport	11.98	4.27	4.39	4.60	3.78	3.40
Communication	3.03	-0.01	-0.01	-0.00	-0.00	-0.00
Recreational and Culture	2.35	1.17	1.04	1.12	1.17	1.63
Education	1.64	6.83	3.63	3.63	3.63	3.63
Restuarents and Hotels	1.24	1.95	1.93	1.85	2.00	2.42
Miscellaneous Goods and Services	2.06	1.63	1.45	1.52	1.42	1.65
Total	**100.00**	**5.10**	**5.64**	**5.08**	**5.77**	**5.65**

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

					2018					
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	6.82	6.96	6.36	6.97	6.70	5.94	7.83	5.50	5.52	5.10
	3.66	3.49	1.98	0.93	0.58	0.46	0.28	0.63	0.74	0.89
	4.91	**4.86**	**3.71**	**3.30**	**2.98**	**2.61**	**3.23**	**2.55**	**2.62**	**2.55**

	2017							2018					
	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	6.98	7.64	7.63	7.08	7.23	6.58	7.08	6.76	5.95	8.00	5.46	5.52	5.05
	1.28	2.55	3.66	3.64	3.69	3.78	5.66	5.87	5.79	5.86	6.00	5.62	5.69
	3.81	4.05	3.82	3.63	2.91	2.69	3.02	2.34	1.82	2.04	2.64	2.81	2.97
	6.76	7.16	7.26	7.07	7.03	4.19	1.75	1.23	1.24	1.26	1.19	0.73	0.65
	1.60	1.75	1.74	1.40	1.46	1.42	1.96	1.92	1.65	1.45	1.40	1.40	1.15
	0.74	1.10	1.55	1.58	1.55	1.55	2.02	2.02	1.41	1.29	1.29	1.29	1.29
	2.56	2.01	1.93	0.61	0.50	-1.68	-3.24	-3.57	-3.42	-4.42	-3.22	-2.00	-1.19
	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	-0.01	-0.01	-0.03
	1.70	1.84	1.71	1.77	0.28	0.36	0.36	0.39	0.34	0.29	0.34	0.31	0.29
	3.63	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.25	3.25	3.25	3.25	3.25
	2.05	1.86	2.42	2.42	3.76	2.59	4.05	4.00	3.84	3.84	5.49	5.49	5.19
	1.51	2.08	2.41	2.26	2.65	2.39	2.71	2.78	2.32	2.65	2.74	2.73	2.83
	4.94	**5.28**	**5.34**	**4.91**	**4.86**	**3.71**	**3.30**	**2.98**	**2.61**	**3.23**	**2.55**	**2.62**	**2.55**

Table 16.3: Month-on-Month Index and Percent Change in the CPI by Overall Index

Year	Month/ weight	Index (December 2012=100)			Purchasing Power of Ngultrum (Nu.)	Percent Change (%)		
		Group				Group		
		Food	Non-Food	Total		Food	Non-Food	Total
	Weights	**39.92**	**60.08**	**100.00**		**39.92**	**60.08**	**100.00**
2016	Jan	125.07	121.90	123.16	81.20	0.09	-0.03	0.02
	Feb	124.68	122.29	123.24	81.14	-0.32	0.32	0.06
	Mar	124.69	122.44	123.33	81.08	0.01	0.13	0.08
	Apr	124.85	122.65	123.52	80.96	0.13	0.17	0.15
	May	125.23	122.87	123.80	80.77	0.31	0.18	0.23
	Jun	126.76	123.07	124.53	80.30	1.22	0.16	0.58
	Jul	127.26	123.22	124.82	80.12	0.39	0.13	0.23
	Aug	127.90	123.47	125.22	79.86	0.51	0.20	0.32
	Sep	128.61	123.67	125.62	79.60	0.56	0.16	0.32
	Oct	129.36	124.01	126.12	79.29	0.58	0.28	0.40
	Nov	131.66	125.38	127.85	78.22	1.77	1.10	1.37
	Dec	132.35	126.49	128.80	77.64	0.53	0.89	0.74
2017	Jan	133.01	127.12	129.44	77.26	0.50	0.49	0.50
	Feb	134.43	127.45	130.19	76.81	1.07	0.26	0.58
	Mar	132.54	127.68	129.60	77.16	-1.40	0.18	-0.46
	Apr	135.31	127.64	130.65	76.54	2.09	-0.03	0.81
	May	135.35	127.87	130.80	76.45	0.03	0.18	0.12
	Jun	135.04	127.85	130.67	76.53	-0.23	-0.01	-0.10
	Jul	136.47	128.15	131.41	76.10	1.06	0.23	0.56
	Aug	137.27	128.45	131.90	75.81	0.58	0.24	0.37
	Sep	137.38	128.20	131.79	75.88	0.08	-0.20	-0.09
	Oct	138.36	128.34	132.25	75.61	0.72	0.11	0.35
	Nov	140.03	127.86	132.59	75.42	1.21	-0.37	0.25
	Dec	141.58	127.67	133.05	75.16	1.10	-0.15	0.35
2018	Jan	141.92	127.85	133.29	75.02	0.24	0.14	0.18
	Feb	142.42	128.04	133.59	74.85	0.35	0.14	0.23
	Mar	142.92	128.03	133.78	74.75	0.36	-0.00	0.14
	Apr	142.76	128.44	133.98	74.64	-0.12	0.32	0.14
	May	142.83	128.81	134.23	74.50	0.05	0.29	0.19
	Jun	141.92	128.99	134.00	74.63	-0.63	0.14	-0.17

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

Table 16.4: Month-on-Month Index and Percent Change by Domestic

Year	Month/ weight	Index (December 2012=100)			Percent Change (%)		
		Group			Group		
		Food	Non-Food	Domestic	Food	Non-Food	Domestic
	Weights	17.77	30.24	48.01	17.77	30.24	48.01
2017	Jan	136.98	130.23	132.69	0.78	0.40	0.54
	Feb	139.03	130.43	133.55	1.49	0.16	0.65
	Mar	134.67	130.45	131.99	-3.13	0.01	-1.16
	Apr	140.00	130.46	133.91	3.96	0.01	1.45
	May	139.74	130.46	133.82	-0.18	0.00	-0.07
	Jun	139.26	130.47	133.65	-0.35	0.01	-0.12
	Jul	139.95	130.91	134.19	0.50	0.34	0.40
	Aug	140.23	131.00	134.35	0.20	0.07	0.12
	Sep	139.76	130.97	134.16	-0.34	-0.02	-0.14
	Oct	140.60	131.08	134.53	0.60	0.08	0.27
	Nov	142.69	131.10	135.27	1.48	0.02	0.56
	Dec	144.87	130.38	135.56	1.53	-0.55	0.21
2018	Jan	145.54	130.39	135.81	0.46	0.01	0.18
	Feb	146.02	130.57	136.09	0.33	0.14	0.21
	Mar	146.16	130.57	136.14	0.09	0.00	0.04
	Apr	145.66	130.68	136.04	-0.35	0.08	-0.08
	May	145.79	130.68	136.08	0.09	0.00	0.03
	Jun	144.45	130.67	135.61	-0.92	-0.01	-0.35

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

Table 16.5: Month-on-Month Index and Percent Change by Imported

Year	Month/ weight	Index (December 2012=100)			Percent Change (%)		
		Group			Group		
		Food	Non-Food	Domestic	Food	Non-Food	Domestic
	Weights	17.77	30.24	48.01	17.77	30.24	48.01
2017	Jan	129.76	124.04	126.44	0.28	0.59	0.46
	Feb	130.71	124.50	127.11	0.73	0.37	0.52
	Mar	130.71	124.93	127.36	0.00	0.35	0.20
	Apr	131.52	124.84	127.65	0.62	-0.07	0.22
	May	131.78	125.29	128.02	0.19	0.36	0.29
	Jun	131.60	125.26	127.92	-0.14	-0.03	-0.07
	Jul	133.60	125.41	128.83	1.52	0.12	0.71
	Aug	134.78	125.92	129.62	0.89	0.41	0.61
	Sep	135.35	125.44	129.57	0.42	-0.38	-0.04
	Oct	136.44	125.63	130.13	0.81	0.15	0.43
	Nov	137.78	124.66	130.09	0.98	-0.77	-0.03
	Dec	138.83	124.99	130.71	0.76	0.26	0.47
2018	Jan	138.92	125.32	130.94	0.06	0.27	0.18
	Feb	139.43	125.51	131.26	0.37	0.15	0.24
	Mar	140.22	125.51	131.58	0.57	-0.00	0.24
	Apr	140.32	126.21	132.04	0.07	0.56	0.35
	May	140.34	126.94	132.48	0.01	0.58	0.34
	Jun	139.76	127.30	132.47	-0.41	0.28	-0.01

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

Table 16.6: Month-on-Month Index and Percent Change by Group Level

Group			Food and non-alcoholic Beverages	Alcoholic Beverages and Narcotics	Clothing and Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishing, Household Equipment and Routine Maintenance of the House.	Health	Transport	Communication	Recreational and Culture	Education	Restuarents and Hotels	Miscellaneous Goods and Services	Total
Weights			**36.89**	**3.03**	**9.20**	**21.70**	**2.20**	**4.68**	**11.98**	**3.03**	**2.35**	**1.64**	**1.24**	**2.06**	**100.00**
Percent Change (%)	2017	Jan	132.38	140.96	130.13	135.35	130.70	108.79	129.31	95.61	111.36	132.27	127.91	126.24	129.44
		Feb	133.89	141.22	130.86	135.37	131.05	109.57	129.41	95.61	111.41	135.69	128.11	126.84	130.19
		Mar	131.85	141.22	130.86	135.37	131.32	109.59	130.47	95.62	111.47	135.69	128.11	127.02	129.60
		Apr	134.79	141.83	130.90	135.51	131.43	109.59	129.94	95.62	111.53	135.69	128.30	127.03	130.65
		May	134.83	141.86	130.86	136.15	131.43	109.59	129.99	95.62	111.57	135.69	128.30	127.04	130.80
		Jun	134.49	141.89	130.75	136.27	131.76	109.59	129.72	95.63	111.58	135.69	128.30	127.12	130.67
		Jul	135.90	143.69	131.45	136.78	132.23	109.98	129.29	95.63	111.64	136.63	128.06	128.09	131.41
		Aug	136.63	145.27	131.99	136.94	132.40	110.47	129.72	95.62	111.55	136.63	128.77	128.73	131.90
		Sep	136.75	145.24	131.73	136.93	132.27	110.51	128.63	95.62	111.63	136.63	128.77	128.75	131.79
		Oct	137.79	145.52	132.00	136.95	132.36	110.47	128.80	95.62	111.81	136.63	130.63	129.33	132.25
		Nov	139.55	146.04	132.03	136.96	132.38	110.47	126.33	95.62	111.79	136.63	131.00	129.31	132.59
		Dec	141.01	148.70	132.44	136.96	133.09	110.98	124.48	95.62	111.79	136.63	132.86	129.71	133.05
Percent Change (%)	2018	Jan	141.33	149.23	133.17	137.02	133.21	110.98	124.69	95.62	111.79	136.63	133.03	129.76	133.29
		Feb	141.86	149.39	133.25	137.05	133.22	111.12	124.99	95.63	111.79	140.11	133.03	129.78	133.59
		Mar	142.40	149.49	133.53	137.08	133.22	111.00	124.69	95.63	111.79	140.11	133.03	130.38	133.78
		Apr	142.15	150.34	134.36	137.12	133.28	111.00	125.76	95.61	111.91	140.11	135.34	130.52	133.98
		May	142.27	149.84	134.55	137.14	133.28	111.00	127.40	95.61	111.91	140.11	135.34	130.52	134.23
		Jun	141.28	149.98	134.63	137.17	133.28	111.00	128.18	95.61	111.91	140.11	134.95	130.72	134.00

Percent Change (%)	2017	Jan	0.53	0.17	1.21	0.56	0.13	-0.00	0.51	0.00	-0.02	0.00	0.17	-0.04	0.50
		Feb	1.14	0.18	0.57	0.01	0.27	0.72	0.08	0.00	0.04	2.58	0.16	0.47	0.58
		Mar	-1.52	0.00	-0.00	0.00	0.20	0.02	0.82	0.00	0.06	0.00	0.00	0.14	-0.46
		Apr	2.23	0.43	0.03	0.10	0.09	-0.00	-0.41	0.00	0.05	0.00	0.14	0.01	0.81
		May	0.03	0.03	-0.02	0.48	0.00	-0.00	0.04	0.00	0.04	0.00	0.00	0.01	0.12
		June	-0.25	0.02	-0.09	0.09	0.25	-0.00	-0.21	0.02	0.01	0.00	0.00	0.06	-0.10
		July	1.05	1.27	0.54	0.37	0.35	0.36	-0.33	-0.01	0.05	0.69	-0.19	0.76	0.56
		Aug	0.54	1.10	0.41	0.12	0.13	0.45	0.33	-0.01	-0.09	0.00	0.56	0.50	0.37
		Sep	0.09	-0.02	-0.19	-0.01	-0.10	0.03	-0.84	0.00	0.07	0.00	0.00	0.01	-0.09
		Oct	0.76	0.19	0.20	0.02	0.07	-0.03	0.13	0.00	0.16	0.00	1.44	0.45	0.35
		Nov	1.28	0.36	0.02	0.01	0.02	0.00	-1.92	0.00	-0.02	0.00	0.29	-0.02	0.25
		Dec	1.04	1.82	0.31	0.00	0.53	0.46	-1.46	0.00	0.01	0.00	1.42	0.31	0.35
Percent Change (%)	2018	Jan	0.23	0.36	0.55	0.04	0.09	0.00	0.17	0.00	0.00	0.00	0.13	0.04	0.18
		Feb	0.37	0.11	0.06	0.02	0.01	0.13	0.24	0.01	0.00	2.55	0.00	0.01	0.23
		Mar	0.38	0.06	0.21	0.02	0.00	-0.11	-0.24	0.00	0.00	0.00	0.00	0.47	0.14
		Apr	-0.17	0.57	0.62	0.03	0.04	0.00	0.85	-0.03	0.10	0.00	1.73	0.11	0.14
		May	0.08	-0.33	0.14	0.02	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.19
		Jun	-0.69	0.09	0.06	0.02	0.00	0.00	0.61	0.00	0.00	0.00	-0.29	0.15	-0.17

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

Table 16.7: Monthly Producer Price Index (PPI) by Industry (September 2011=100)

Sectors	Share (%)	Jan	Feb	Mar	Apr	May	Jun	Jul
Agriculture, Forestry and Logging	0.72	134.79	134.79	134.79	134.79	134.79	134.79	134.79
Mining and quarrying	0.89	127.85	129.22	127.84	127.41	127.49	125.85	127.47
Manufacturing	1.55	113.49	113.80	117.08	120.74	120.35	120.28	118.79
Electricity, gas, steam and air conditioning supply	35.35	123.80	123.80	123.80	123.80	123.80	123.80	123.80
Water supply; sewerage, waste management and remediation activities	0.08	109.39	109.39	109.39	109.39	109.39	109.39	109.39
Transport and Storage	2.45	130.32	129.60	129.16	128.39	128.34	128.35	128.35
Information and communication	0.33	89.76	89.76	89.76	89.76	89.76	89.76	89.76
All Industry	**41.36**	**117.72**	**117.90**	**119.41**	**121.11**	**120.93**	**120.80**	**120.17**

Source: PPI 2nd Qtr 2018,Economic and Environment Statistics Division, NSB, Thimphu.

Table 16.8: Monthly Percentage Change in Producer Price Index (PPI) by Industry

Sectors	Share (%)	Jan	Feb	Mar	Apr
Agriculture, Forestry and Logging	0.72	2.48	0.00	0.00	0.00
Mining and quarrying	0.89	1.82	1.07	-1.06	-0.34
Manufacturing	1.55	0.46	0.27	2.88	3.13
Electricity, gas, steam and air conditioning supply	35.35	7.66	0.00	0.00	0.00
Water supply; sewerage, waste management and remediation activities	0.08	0.00	0.00	0.00	0.00
Transport and Storage	2.45	0.08	-0.55	-0.34	-0.60
Information and communication	0.33	0.00	0.00	0.00	0.00
All Industry	**41.36**	**3.00**	**0.16**	**1.28**	**1.42**

Source: PPI 2nd Qtr 2018,Economic and Environment Statistics Division, NSB, Thimphu.

Table 16.9: Annual Percentage Change in Producer Price Index (PPI) by Industry

Sectors	Share (%)	Jan	Feb	Mar	Apr
Agriculture, Forestry and Logging	0.72	17.04	17.04	17.04	17.04
Mining and quarrying	0.95	5.05	5.05	5.05	5.05
Manufacturing	0.35	5.71	5.71	5.71	5.71
Electricity, gas, steam and air conditioning supply	0.02	1.74	1.74	1.74	1.74
Water supply; sewerage, waste management and remediation activities	4.07	0.00	0.00	0.00	0.00
Transport and Storage	0.00	-2.05	-2.05	-2.05	-2.05
Information and communication	0.00	0.00	0.00	0.00	0.00
All Industry	**6.10**	**3.60**	**3.60**	**3.60**	**3.60**

Source: PPI 2nd Qtr 2018,Economic and Environment Statistics Division, NSB, Thimphu.

	2017					2018					
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79
	127.84	126.40	128.16	128.40	128.21	122.77	122.68	122.70	124.86	125.56	125.17
	116.16	118.56	119.90	121.26	121.56	130.98	133.29	131.49	131.67	132.48	132.42
	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80
	109.39	109.39	109.39	109.39	109.39	109.39	109.39	109.39	109.39	109.39	109.39
	128.09	128.36	128.71	128.59	127.74	120.11	120.49	120.82	121.15	122.10	122.23
	89.76	89.76	89.57	89.57	89.57	89.57	89.57	89.57	89.57	89.57	89.57
	118.90	**120.01**	**120.76**	**121.41**	**121.50**	**125.13**	**126.19**	**125.39**	**125.62**	**126.09**	**126.05**

	2017								2018					
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.06	-1.29	1.29	0.29	-1.13	1.39	0.18	-0.14	-4.24	-0.07	0.01	1.76	0.56	-0.31
	-0.32	-0.06	-1.24	-2.21	2.07	1.13	1.13	0.25	7.75	1.76	-1.35	0.14	0.62	-0.05
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-0.04	0.01	0.00	-0.20	0.21	0.27	-0.09	-0.66	-5.97	0.31	0.27	0.28	0.78	0.10
	0.00	0.00	0.00	0.00	0.00	-0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-0.15	**-0.10**	**-0.52**	**-1.06**	**0.93**	**0.62**	**0.54**	**0.07**	**2.99**	**0.85**	**-0.63**	**0.18**	**0.37**	**-0.04**

	2017								2018					
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04
	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05
	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71	5.71
	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05	-2.05
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3.60	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**	**3.60**

Table 16.10: Monthly Producer Price Index (PPI) by Product

Description	Share (%)	Jan	Feb	Mar	Apr	May	Jun
Agriculture, Forestry and Fishery Products	0.72	134.79	134.79	134.79	134.79	134.79	134.79
Ores and Minereals; Electricity, gas and water	5.81	127.85	129.22	127.84	127.41	127.49	125.85
Food products, beverages and tobacco; textiles, apparel and leather products	3.56	112.34	112.34	112.29	112.63	112.38	112.44
Other transportable goods, except metal products, machinery and equipment	15.36	119.70	120.64	121.96	126.06	127.34	127.44
Metal products, machinery and equipment	28.75	110.45	110.49	115.15	119.01	117.77	117.59
Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services	41.34	124.69	124.59	124.53	124.42	124.41	124.41
Business and production services	4.47	89.76	89.76	89.76	89.76	89.76	89.76
All Product	**100.00**	**117.72**	**117.90**	**119.41**	**121.11**	**120.93**	**120.80**

Source: PPI 2nd Qtr 2015, National Accounts Division, NSB, Thimphu.

Table 16.11: Monthly Percentage Change in Producer Price Index (PPI) by Product

Description	Share (%)	Jan	Feb	Mar	Apr
Agriculture, Forestry and Fishery Products	0.72	2.48	0.00	0.00	0.00
Ores and Minereals; Electricity, gas and water	5.81	1.82	1.07	-1.06	-0.34
Food products, beverages and tobacco; textiles, apparel and leather products	3.56	-0.00	0.00	-0.04	0.30
Other transportable goods, except metal products, machinery and equipment	15.36	-0.14	0.78	1.10	3.36
Metal products, machinery and equipment	28.75	0.84	0.04	4.22	3.35
Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services	41.34	6.53	-0.08	-0.05	-0.09
Business and production services	4.47	0.00	0.00	0.00	0.00
All Product	**100.00**	**3.00**	**0.16**	**1.28**	**1.42**

Source: PPI 2nd Qtr 2018,Economic and Environment Statistics Division, NSB, Thimphu.

	2017						2018					
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79	134.79
	127.47	127.84	126.40	128.16	128.40	128.21	122.77	122.68	122.70	124.86	125.56	125.17
	112.91	112.91	112.91	112.83	112.84	113.05	113.56	113.55	113.59	113.46	113.39	113.39
	123.34	118.88	120.07	118.68	118.68	118.68	117.75	118.08	118.48	118.92	120.27	117.39
	117.16	115.13	118.48	121.47	123.76	124.23	141.12	145.04	141.55	141.61	142.22	143.95
	124.41	124.38	124.42	124.46	124.45	124.33	123.24	123.29	123.34	123.39	123.53	123.55
	89.76	89.76	89.76	89.57	89.57	89.57	89.57	89.57	89.57	89.57	89.57	89.57
	120.17	**118.90**	**120.01**	**120.76**	**121.41**	**121.50**	**125.13**	**126.19**	**125.39**	**125.62**	**126.09**	**126.05**

	2017								2018					
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.06	-1.29	1.29	0.29	-1.13	1.39	0.18	-0.14	-4.24	-0.07	0.01	1.76	0.56	-0.31
	-0.22	0.05	0.42	0.00	0.00	-0.07	0.01	0.19	0.45	-0.01	0.04	-0.12	-0.06	0.00
	1.01	0.08	-3.21	-3.62	1.00	-1.15	-0.01	0.00	-0.78	0.28	0.34	0.37	1.14	-2.39
	-1.04	-0.15	-0.37	-1.73	2.91	2.52	1.88	0.39	13.59	2.78	-2.41	0.04	0.43	1.22
	-0.01	0.00	0.00	-0.03	0.03	0.04	-0.01	-0.09	-0.88	0.04	0.04	0.04	0.11	0.01
	0.00	0.00	0.00	0.00	0.00	-0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-0.15	**-0.10**	**-0.52**	**-1.06**	**0.93**	**0.62**	**0.54**	**0.07**	**2.99**	**0.85**	**-0.63**	**0.18**	**0.37**	**-0.04**

Table 16.12: Annual Percentage Change in Producer Price Index (PPI) by Product

Description	Share (%)	Jan	Feb	Mar	Apr	
Agriculture, Forestry and Fishery Products	0.72	2.48	2.48	2.48	2.48	
Ores and Minereals; Electricity, gas and water	5.81	4.83	6.39	2.89	2.48	
Food products, beverages and tobacco; textiles, apparel and leather products	3.56	1.39	2.05	1.90	1.70	
Other transportable goods, except metal products, machinery and equipment	15.36	-1.23	-0.77	0.01	3.66	
Metal products, machinery and equipment	28.75	0.60	5.02	6.41	7.01	
Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services	41.34	7.92	7.78	7.80	7.75	
Business and production services	4.47	0.00	0.00	0.00	0.00	
All Product	**100.00**	**3.53**	**4.95**	**5.28**	**5.98**	

Source: PPI 2nd Qtr 2018,Economic and Environment Statistics Division, NSB, Thimphu.

2017									2018					
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	0.00	0.00	0.00	0.00	0.00	0.00
	2.54	1.65	2.96	3.25	2.09	2.46	1.83	2.11	-3.97	-5.06	-4.02	-2.00	-1.51	-0.54
	1.47	1.44	0.76	0.75	0.56	0.50	0.47	0.63	1.09	1.08	1.16	0.74	0.90	0.85
	4.62	5.20	2.20	-1.52	-0.46	-2.17	-0.68	-1.00	-1.63	-2.12	-2.85	-5.67	-5.55	-7.88
	7.83	8.24	8.70	8.89	9.62	12.54	14.47	13.43	27.77	31.27	22.92	18.99	20.76	22.41
	7.71	7.69	7.69	7.68	6.37	6.41	6.35	6.22	-1.16	-1.04	-0.95	-0.83	-0.71	-0.70
	0.00	0.00	0.00	0.00	0.00	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
	6.34	**6.48**	**6.19**	**5.66**	**5.42**	**5.97**	**6.67**	**6.31**	**6.29**	**7.03**	**5.01**	**3.73**	**4.27**	**4.35**

This section presents the details of crime statistics by various categories and nature of crimes reported and registered by Royal Bhutan Police (RBP). The Crime and Criminal Information System (CCIS) is the main source for crime statistics for RBP. The police personnel working in various Divisions and Police Stations enter the data in this system as an when the crime is registered in their jurisdiction. The data covers: (a) Type of crime, age and gender of offender; (b) Place of occurrence and time of occurrence; (c) Person killed and injured; (d) Case charge-sheeted; and (e) Conviction report and daily crime report. Not all crimes that occur are reported to the police or other government agencies. Therefore, there is a gap between the official level of crime and the amount of crime in the community known as dark figure of crime.

The development and preparation are under way to upgrade the existing Crime and Criminal Information System (CCIS) and to conduct victimization survey to estimate the amount of crime not reported to police.

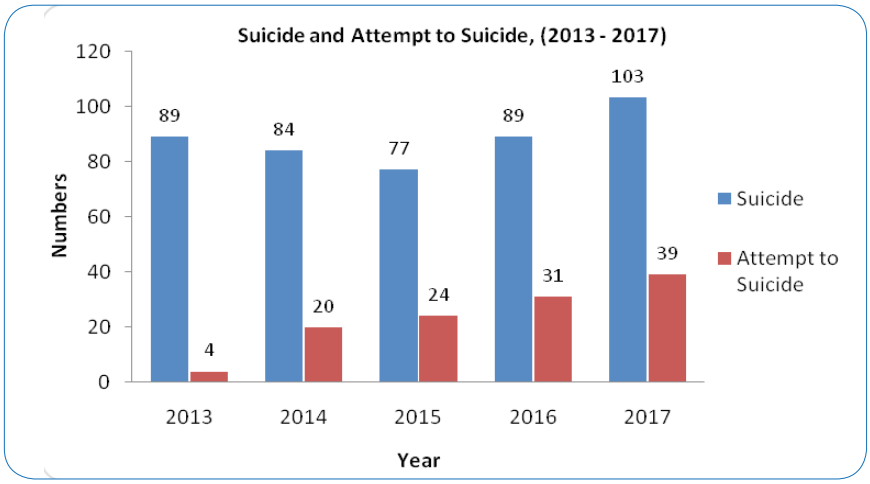


Table 17.1: Types of Offence Recorded, (2013 - 2017)

OFFENCE	2013	2014	2015	2016	2017
Aidding & abetting, solicitation & criminal conspiracy	**2**	**1**	**1**	**1**	**3**
Aiding & abetting, solicitation & criminal conspiracy	2	1	1	1	3
Offence against the person	**743**	**644**	**548**	**521**	**1,143**
Homicide	24	21	19	21	20
Assault, battery & related offences	644	532	456	417	1,032
Kidnapping & related offences	7	6	3	4	2
Sexual offences	64	81	68	77	77
Offence against infant, child, mentally disabled & incompetent person	4	4	2	2	12
Offence against the property	**1,331**	**837**	**845**	**888**	**1,863**
Arson and related offences	59	12	3	6	6
Burglary, trespass & related offences	486	311	362	342	478
Larceny, robbery, armed robbery & related offences	786	514	480	540	1,379
Commercial crime, fruad, corruption and related offences	**91**	**66**	**52**	**60**	**69**
Money laundering & smuggling	15	24	7	8	6
Embezzlement & bribery	4	6	2	6	4
Forgery & related offences	70	30	35	42	46
Defamation & related offences	2	6	8	4	13
Offence against state and public order	**444**	**404**	**256**	**197**	**343**
Treason, terrorism & related offences	7	4	2	2	1
Offences against cultural & national heritage	214	246	143	104	148
Offences against judicial authority	0	0	0	0	0
Prostitution & related offences	1	5	1	0	2
Offences against the public welfare	182	107	66	62	113
Offences related to public & civic duties	7	8	11	6	16
Offences related to public order & tranquility	33	34	33	23	63
Miscellaneous offences	**314**	**389**	**319**	**63**	**68**
Computer offences	0	2	0	3	6
Offences related to firearms & weapons	23	17	17	17	30
Offences related to protected species & other harmful substances	291	370	302	43	32

Narcotic drugs, psychotropic substances and substance abuse	**0**	**0**	**0**	**316**	**555**
Illegal possession of cannabis and its derivatives	0	0	0	43	58
Illegal trafficking of cannabis and its derivatives	0	0	0	46	41
Offences of substance abuse	0	0	0	22	245
Illegal possession of narcotic drug and psychotropic substance	0	0	0	14	11
Illicit trafficking of narcotic drugs and psychotropic substances	0	0	0	190	200
Illegal sale of inhalants or solvents	0	0	0	1	0
Non-penal offences	**1**	**26**	**34**	**47**	**37**
Smuggling of Tobacco and Tobacco product	0	25	33	47	37
Copy right infringement	1	1	0	0	0
Conveyances of unauthorized articles	0	0	1	0	0
All Offences	**2,926**	**2,367**	**2,055**	**2,093**	**4,081**

Source: Crime and Operations Branch, Royal Bhutan Police, Thimphu.

Table 17.2: Types of Other Non-Penal Incidents Recorded, (2013 - 2017)

Other Non-Penal Incidents	2013	2014	2015	2016	2017
Accidental Death	52	41	39	44	58
Accidental Injury	1	0	1	0	0
Drowning	23	27	17	20	20
Fire accident	0	0	45	51	88
Missing of Person	152	140	78	60	178
Un-Natural Death	41	47	33	57	32
Suicide	89	84	77	89	103
Attempt to Suicide	4	20	24	31	39
Grand Total	**362**	**359**	**314**	**352**	**518**

Table 17.3: Motor Vehicle Accident by Dzongkhag, (2013 - 2017)

(Incidents)

Dzongkhag	2013	2014	2015	2016	2017
Bumthang	1	2	2	1	4
Chhukha	186	84	61	36	44
Dagana	5	6	2	1	2
Gasa	1	0	0	0	2
Haa	0	0	2	1	0
Lhuentse	1	0	2	2	3
Monggar	4	6	10	10	10
Paro	37	41	16	61	174
Pema Gatshel	7	0	7	3	0
Punakha	4	4	2	4	5
Samdrup Jongkhar	12	11	18	8	12
Samtse	9	3	3	9	21
Sarpang	10	10	9	12	27
Thimphu	741	602	539	528	506
Trashigang	16	2	9	16	21
Trashi Yangtse	3	0	1	3	4
Trongsa	11	4	7	6	4
Tsirang	3	0	1	3	7
Wangdue Phodrang	38	14	16	14	13
Zhemgang	5	2	8	8	3
Bhutan	**1,094**	**791**	**715**	**726**	**862**

Source: Crime & Operations, Royal Bhutan Police, Thimphu.

Table 17.4: Monthly Motor Vehicle Accident by Dzongkhag, 2017 (Incidents)

Dzongkhag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Bumthang	0	0	1	1	0	0	0	1	0	1	0	0	4
Chukha	3	0	4	1	3	3	1	2	4	4	8	11	44
Dagana	0	0	0	0	0	0	0	0	1	0	1	0	2
Gasa	0	0	0	0	0	0	1	0	0	1	0	0	2
Haa	0	0	0	0	0	0	0	0	0	0	0	0	0
Lhuentse	0	0	0	1	0	0	1	0	1	0	0	0	3
Mongar	1	1	2	2	1	0	0	0	1	0	0	2	10
Paro	10	14	20	13	10	14	12	11	10	19	20	21	174
Pemagatshel	0	0	0	0	0	0	0	0	0	0	0	0	0
Punakha	1	0	0	1	0	0	0	1	0	0	2	0	5
Samdrup Jongkhar	1	1	0	1	1	1	0	2	1	3	0	1	12
Samtse	0	1	1	1	2	1	2	1	3	3	2	4	21
Sarpang	0	1	0	3	4	0	5	2	5	0	3	4	27
Thimphu	31	34	40	42	49	31	32	41	55	43	47	61	506
Trashigang	0	1	0	2	0	0	2	1	1	3	3	8	21
Trashi Yangtse	0	0	0	0	2	1	0	0	0	1	0	0	4
Trongsa	1	0	1	1	0	0	0	0	0	1	0	0	4
Tsirang	0	1	0	0	0	3	1	0	0	0	1	1	7
Wangdue Phodrang	2	1	0	1	0	0	0	1	3	2	1	2	13
Zhemgang	0	0	0	0	1	0	1	0	0	1	0	0	3
Bhutan	**50**	**55**	**69**	**70**	**73**	**54**	**58**	**63**	**85**	**82**	**88**	**115**	**862**

Source : Crime & Operations, Royal Bhutan Police, Thimphu.

Table 17.5: Motor Vehicle Accidents by Causes by Dzongkhag, (2013-2017)

(Incidents)

Dzongkhag	Causes	2013	2014	2015	2016	2017
Bumthang	Mechanical fault	1	0	0	0	0
	Drunk driving	0	0	0	1	0
	Bad weather	0	0	0	0	1
	Without licence	0	0	1	0	0
	Unknown causes	0	0	0	0	0
	Other causes	0	2	1	0	3
Chukha	Mechanical fault	25	5	4	3	1
	Drunk driving	15	5	10	8	4
	Bad weather	41	11	13	2	0
	Without licence	12	3	3	2	2
	Unknown causes	0	0	0	7	13
	Other causes	98	60	31	14	28
Dagana	Mechanical fault	0	2	0	0	0
	Drunk driving	1	1	1	0	1
	Bad weather	0	0	0	0	0
	Without licence	2	2	0	0	0
	Unknown causes	0	0	0	0	0
	Other causes	2	1	1	1	2
Gasa	Mechanical fault	0	0	0	0	0
	Drunk driving	0	0	0	0	0
	Bad weather	1	0	0	0	0
	Without licence	0	0	0	0	0
	Unknown causes	0	0	0	0	0
	Other causes	0	0	0	0	2
Haa	Mechanical fault	0	0	1	0	0
	Drunk driving	0	0	0	0	0
	Bad weather	0	0	0	0	0
	Without licence	0	0	0	0	0
	Unknown causes	0	0	0	0	0
	Other causes	0	0	1	1	0
Lhuentse	Mechanical fault	0	0	0	0	0
	Drunk driving	0	0	0	1	1
	Bad weather	0	0	0	0	0
	Without licence	0	0	1	1	2
	Unknown causes	0	0	0	0	0
	Other causes	1	0	1	0	2

cont...

Table 17.5 cont...

Dzongkhag	Causes	2013	2014	2015	2016	2017
Monggar	Mechanical fault	0	0	1	0	0
	Drunk driving	0	0	5	0	1
	Bad weather	0	0	1	0	0
	Without licence	0	0	1	3	0
	Unknown causes	0	0	0	1	1
	Other causes	4	6	2	6	10
Paro	Mechanical fault	0	2	0	2	1
	Drunk driving	8	8	5	8	20
	Bad weather	3	5	0	1	1
	Without licence	2	4	2	3	10
	Unknown causes	0	0	0	10	47
	Other causes	24	22	9	37	121
Pemagatshel	Mechanical fault	0	0	0	0	0
	Drunk driving	0	0	3	0	0
	Bad weather	0	0	0	0	0
	Without licence	2	0	0	0	0
	Unknown causes	0	0	0	1	0
	Other causes	5	0	4	2	0
Punakha	Mechanical fault	0	0	0	0	1
	Drunk driving	0	1	1	0	0
	Bad weather	1	0	0	0	0
	Without licence	1	0	1	0	0
	Unknown causes	0	0	0	1	0
	Other causes	2	3	0	3	4
Samdrup Jongkhar	Mechanical fault	0	2	3	0	0
	Drunk driving	0	0	7	0	0
	Bad weather	0	2	0	1	4
	Without licence	1	1	3	1	0
	Unknown causes	0	0	0	2	8
	Other causes	11	6	5	4	3
Samtse	Mechanical fault	1	0	0	1	3
	Drunk driving	1	0	1	1	1
	Bad weather	0	1	0	0	2
	Without licence	0	1	1	1	2
	Unknown causes	0	0	0	0	3
	Other causes	7	1	1	6	16
Sarpang	Mechanical fault	2	2	0	0	2
	Drunk driving	4	1	4	0	12
	Bad weather	1	0	0	0	0
	Without licence	1	0	1	0	3
	Unknown causes	0	0	0	6	6
	Other causes	2	7	4	6	13

cont...

Table 17.5 cont...

Dzongkhag	Causes	2013	2014	2015	2016	2017
Thimphu	Mechanical fault	2	2	7	1	1
	Drunk driving	89	142	138	136	165
	Bad weather	2	14	3	0	0
	Without licence	71	48	60	59	51
	Unknown causes	1	0	0	157	232
	Other causes	621	396	331	175	240
Trashigang	Mechanical fault	0	0	1	0	0
	Drunk driving	2	0	6	2	1
	Bad weather	0	0	0	1	0
	Without licence	3	1	1	1	2
	Unknown causes	0	0	0	2	1
	Other causes	11	1	1	10	18
Trashi Yangtse	Mechanical fault	0	0	1	0	0
	Drunk driving	1	0	0	0	0
	Bad weather	0	0	0	0	0
	Without licence	0	0	0	1	0
	Unknown causes	0	0	0	0	1
	Other causes	2	0	0	2	3
Trongsa	Mechanical fault	2	0	2	2	0
	Drunk driving		0	2	0	0
	Bad weather	5	1	1	1	1
	Without licence	0	0	0	1	1
	Unknown causes	0	0	0	0	1
	Other causes	4	3	2	2	1
Tsirang	Mechanical fault	0	0	0	2	1
	Drunk driving	0	0	1	0	1
	Bad weather	0	0		0	0
	Without licence	0	0	0	0	0
	Unknown causes	0	0	0	1	3
	Other causes	3.	0		0	4
Wangdue Phodrang	Mechanical fault	0	3	4	0	2
	Drunk driving	2	2	8	2	2
	Bad weather	0	1	1	0	0
	Without licence	6	1	0	1	4
	Unknown causes	0	0	0	1	0
	Other causes	30	7	3	10	7
Zhemgang	Mechanical fault	0	0	2	2	0
	Drunk driving	1	0	3	1	2
	Bad weather	3	0	2	0	0
	Without licence	0	1	1	0	1
	Unknown causes	0	0	0	1	0
	Other causes	1	1	0	4	2

Source: Crime & Operations, Royal Bhutan Police, Thimphu.

Table 17.6: Number of Houses Destroyed by Fire by Dzongkhag, (2013-2017)

Dzongkhag	2013	2014	2015	2016	2017
Bumthang	4	2	2	1	3
Chhukha	2	1	1	2	6
Dagana	0	0	0	0	1
Gasa	0	0	0	0	0
Haa	5	2	1	2	1
Lhuentse	0	2	0	1	0
Monggar	0	0	0	2	3
Paro	0	4	3	13	6
Pema Gatshel	2	0	2	0	2
Punakha	0	1	0	0	2
Samdrup Jongkhar	0	0	0	0	4
Samtse	1	1	0	1	2
Sarpang	2	1	0	1	1
Thimphu	18	15	3	18	30
Trashigang	7	1	1	1	2
Trashi Yangtse	2	1	0	4	0
Trongsa	0	1	1	1	3
Tsirang	0	0	0	0	0
Wangdue Phodrang	2	0	1	1	4
Zhemgang	0	0	0	2	5
Bhutan	**45**	**32**	**16**	**50**	**75**

Source: Fire Division, Royal Bhutan Police, Thimphu.

Table 17.7: Fines Imposed for Violation of Traffic Rules by Division, (2013-2017)

(Nu. in million)

Division/Dzongkhag	2013	2014	2015	2016	2017
Division I (Paro & Haa)	1.161	1.022	2.359	2.209	2.046
Division II (Punakha & Gasa)	0.364	0.246	0.504	1.798	1.515
Division III (Chhukha)	2.02	2.697	4.237	4.296	4.369
Division IV (Samtse)	0.661	0.817	1.935	1.868	1.643
Division V (Sarpang & Zhemgang)	0.725	0.693	1.737	2.163	2.812
Division VI (Tsirang & Dagana)	0.035	0.562	0.891	1.161	1.205
Division VII (Trongsa)	0.094	0.428	0.453	0.503	0.653
Division VIII (Samdrupjongkhar & Pemagatshel)	0.338	0.608	1.700	2.056	1.870
Division IX (Trashigang & Trashiyangtse)	0.292	0.500	0.971	0.707	1.293
Division X (Mongar & Lhuentse)	0.444	0.428	0.754	0.726	0.943
Division XI (Thimphu)	11.46	7.419	18.181	14.605	17.970
Division XII (Wangduephodrang)	0.769	1.291	8.469	3.616	2.971
Division XIII (Bumthang)	0.000	0.288	0.619	0.614	0.437
Division XIV (Tashi Yangtse)	...	...	...	0.336	0.154
Total	**18.363**	**17.001**	**42.809**	**36.657**	**39.881**

Source: Traffic Division, Royal Bhutan Police, Thimphu.

List of Dzongkhags, Gewogs and Chiwogs, Bhutan 2016.

Dzongkhag	Gewog	Chiwog
1. Bumthang	1. Chhoekhor	1. Nangisphel_ Zangling_Zhabjethang
		2. Dhur_Lusibee
		3. Kharsa_Thangbi
		4. Dawathang_Dorjibi_Kashingtsawa
		5. Pedtsheling_Tamzhing
	2. Chhumig	1. Gyaltsa
		2. Domkhar
		3. Phurjoen
		4. Zung-Ngae
		5. Choongphel
	3. Tang	1. Tadingang
		2. Khangrab
		3. Kidzom_Nyimalung
		4. Dazur
		5. Bezur_Kuenzargdrag
	4. Ura	1. Beteng_Pangkhar_Somthrang
		2. Shing-Nyer
		3. Singkhar
		4. Tangsibi
		5. Ura-Dozhi
2. Chhukha	1. Bjagchhog	1. Bjagchhog
		2. Mebisa
		3. Tashi Gatshel
		4. Tsimakha Tsimasham
		5. Wangkha
	2. Bongo	1. Baeyuel Kunzang
		2. Bongo Phasooma
		3. Choongkha Chhasilakha
		4. Gedu Miritsemo
		5. Ketogkha
		6. Togtokha Togtogongm
	3. Chapchha	1. Bunakha
		2. Dokharchhu Rimtekha
		3. Gangkha Shelyuel
		4. Lang Nyelsa

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Table cont...

Dzongkhag	Gewog	Chiwog
2. Chhukha	3. Chapchha	5. Pagga
		6. Tshamdrag
	4. Darla	1. Gamanang Kalzangri
		2. Gengu Yagang
		3. Nyimgang Tabji
		4. Samarchen Sinchula
		5. Sharphug
		6. Tagp-thang-boog
	5. Doongna	1. Babana Papaling
		2. Chhulakha Mangdokha
		3. Damchekha Uezhi
		4. Doongna Pagsellhakha
		5. Drukdingsa Khori
	6. Geling	1. Dagpa Sorchhen
		2. Dilibkha Lamjokha
		3. Geling Geygoen
		4. Gelingkha Tsanglina
		5. Kamji Nayekha
	7. Getana	1. Bachhu Getana
		2. Chiyuel Getag
		3. Darga Tshebji
		4. Janamo Phootsha
		5. Tashigang
	8. Loggchina	1. Aamleg Dofam
		2. Chagdokha Damchekha
		3. Dolepchen Bjagchhu
		4. Dzedokha
		5. Mongna Lhasarp
	9. Maedtabkha	1. Gumina Tenchhukha
		2. Jozhingkha Maedtab Toed
		3. Maedtab Maed
		4. Pangu
		5. Uekha

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Table cont...

Dzongkhag	Gewog	Chiwog
2. Chhukha	10. Phuentshogling	1. Chonggeykha Dophulakha
		2. Deling Marpji
		3. Dophugchen Wangduegatshel
		4. Lingdaen
		5. Pachhu
	11. Samphelling (Bhalujora)	1. Gorgboogang Pangna
		2. Khenpaithang Soramthang
		3. Pedtshelnang
		4. Pekarling Rigzingling
		5. Sengyagang Tshochhoongna
3. Dagana	1. Dorona	1. Dorona Chhewa
		2. Dorona Chhongwa
		3. Maamedthang
		4. Nyimtola
		5. Tshalamji
	2. Drukjegang	1. Ambithang Pangserpo
		2. Budepang Pangna
		3. Pangna Patala
		4. Pangserpo
		5. Thangna
	3. Gesarling	1. Gesarling
		2. Phuensoomgang
		3. Samtengang
		4. Tajoog
		5. Tashithang
	4. Gozhi	1. Baleggang
		2. Dogaag
		3. Gozhi
		4. Gozhi Maed
		5. Gozhi Toed
	5. Karmaling (Deorali)	1. Jemathang
		2. Karmaling
		3. Labtsakha
		4. Omchhu
		5. Senchumthang

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Table cont...

Dzongkhag	Gewog	Chiwog
3. Dagana	6. Karna	1. Bartsha Namgyalgang
		2. Dalithang Gangjab Khagochen
		3. Jurugang
		4. Lhaling
		5. Purgzhi
	7. Khebisa	1. Akhochen
		2. Gibsa
		3. Pagser
		4. Pogtog
		5. Thomgang
	8. Largyab	1. Baloong
		2. Barna
		3. Kompa
		4. Sidpa
		5. Thasa
	9. Lhamoi-Dzingkha	1. Chongsamling
		2. Kuendrelthang
		3. Lhamoidzingkha
		4. Loongilsa
		5. Tshaemzhigosa
	10. Nichula	1. Damchhunang
		2. Dangreyboog
		3. Dramzekesa
		4. Gangtogkha
		5. Yarpheling
	11. Tashiding	1. Gangyab
		2. Namchagla
		3. Norbuling
		4. Shamdolay
		5. Tashiding
	12. Tsangkha	1. Gelegchhu
		2. Goongpa Soomchu
		3. Pateykha
		4. Tsangkha
		5. Zinchila

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Table cont...

Dzongkhag	Gewog	Chiwog
3. Dagana	13. Tsenda-Gang	1. Gangzur Maed
		2. Gangzur Toed
		3. Norbuzingkha
		4. Samarchu
		5. Tsendagang
	14. Tseza	1. Karlingzingkha
		2. Pelling
		3. Samaed
		4. Tashigang
		5. Tsangleykha
4. Gasa	1. Khamaed	1. Barsha Panikong
		2. Damji
		3. Gayza Zomina
		4. Jabisa
		5. Khailog Tashithang
	2. Khatoed	1. Baychhu Tshedpgang
		2. Chhogley Phulakha
		3. Mani
		4. Rimi
		5. Tsheringkha
	3. Laya	1. Chongra Loobcha
		2. Gayza Lunggo
		3. Neylug
		4. Pazhi
		5. Toedkor
	4. Lunana	1. Lhedi
		2. Raminang Uesana
		3. Shang Threlga Wachey
		4. Thangza Toenchoe
		5. Tshozhong
5. Haa	1. Bji	1. Chenpa_Geychhukha
		2. Choompa_Jamgoen
		3. Gyensa_Tokey
		4. Tsenka_Taloong
		5. Yangthang

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Table cont...

Dzongkhag	Gewog	Chiwog
5. Haa	2. Gakidling	1. Dorithasa_Kowkha_Yangtse
		2. Phentena_Serktena
		3. Phootsena_Ngatse
		4. Rangtse_Tanga_Yowkha
		5. Sai-dzong_Thangdokha
	3. Kar-tshog	1. Bali_Mombitshogkha
		2. Dragding_Karjena
		3. Ingo_Pharikha
		4. Kargoen_Hatam
		5. Wangtsa
	4. Samar	1. Balamnang
		2. Dorikha_Langjogang
		3. Jenkanang_Pudunang
		4. Langpa_Norbugang
		5. Shar-ri
	5. Sangbay	1. Anakha_Shepji
		2. Mochhu_Bebji
		3. Nakha_Tashigang
		4. Sangbay Ama
		5. Shema_Yaba
	6. Euesu	1. Betso_Doomchhog
		2. Geyruna_Karnag
		3. Kipri_Tagchhu
		4. Pajekha_Sangkiri
		5. Tshaphel_Tsiloongkha
6. Lhuentse	1. Gangzur	1. Ney
		2. Jang_Ngar
		3. Kyidloong _Somshing
		4. Nyimzhong _Tongling
		5. Thrima Shawa _Zhamling
	2. Jarey	1. Artobi Ngangngae
		2. Kharchung
		3. Ladrong
		4. Yabi Zangkhar
		5. Yumchhe

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Table cont...

Dzongkhag	Gewog	Chiwog
6. Lhuentse	3. Khoma	1. Babtong_ Dragteng
		2. Berpa _Khoma
		3. Gangla_ Kholma
		4. Pangkhar
		5. Rolmateng _Tsangngo
	4. Kurtoed	1. Chagdzom_ Chhusa
		2. Dungkar
		3. Jasabi_ Ugyenphoog
		4. Tabi
		5. Tangroong _Wawel
	5. Maedtsho	1. Bamdhir _Yurung
		2. Gortshom _Tshangthromaed
		3. Obi _Tongthrong
		4. Oonggar
		5. Zhongmaed
	6. Maenbi	1. Kamdhar_ Moormo
		2. Maenjabi
		3. Nyaibi _Zhungkhar
		4. Phagidoong
		5. Tagmochhu _Gorgan
	7. Minjey	1. Amdrangchhu _Zham
		2. Boodur_ Kupinyalsa
		3. Chusa _Legshogang
		4. Draaggong_Jalang
		5. Minjey _Wangzhing
	8. Tsaenkhar	1. Artobadeb_ Guendrang
		2. Autsho_ Chharbi
		3. Dekaling _Tshochhen
		4. Domkhar _Umling
		5. Gonyid_ Wambur
7. Monggar	1. Balam	1. Bahkaphai
		2. Balam Morphu
		3. Doongmanma Selkhar
		4. Jadoong Yangbari
		5. Khebishing

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Table cont...

Dzongkhag	Gewog	Chiwog
7. Monggar	2. Chagsakhar	1. Borphai Chagsakhar
		2. Doongsingma Pam
		3. Kharnang Kheshingra
		4. Yangrapoongshing
		5. Yetong Jarshingpogtor
	3. Chhaling	1. Chhaling Dopang
		2. Chulabi
		3. Pangthang Thempang
		4. Shebchi Yangthang
		5. Wangmakhar Khalangji
	4. Dramedtse	1. Baging Shadang
		2. Bikhar Thoongdari
		3. Dramedtse Shaphangma
		4. Serkhagphoog Yengkhartshing
		5. Zangkhar
	5. Drepoong	1. Bainangri Nyamla
		2. Boompazor Drepoong
		3. Chhagsuzor Tsangkhar
		4. Labtsa Shinggar
		5. Zunglen
	6. Gongdue	1. Baagla Dengkaling
		2. Daagsa Kumadzong
		3. Damkhar Weringla
		4. Phadzong
		5. Pikari Yangbari
	7. Jurmed	1. Bilam Dangkila
		2. Kognala Yaragla
		3. Moodoongkhar Tselam
		4. Moogtangkhar Tsangkhazor
		5. Ngamphoog Sangkama
	8. Kengkhar	1. Dogtang Mooroong
		2. Kyidpari Yuldarig
		3. Neykolog Warongborang
		4. Olokid Tsalabi
		5. Phosothong Shingchongri
		6. Tongla Zitsibi

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Table cont...

Dzongkhag	Gewog	Chiwog
7. Monggar	9. Monggar	1. Gyalpoizhing Wangling
		2. Kidekhar
		3. Koenbar Tagchhu
		4. Phosorong
		5. Themnangbi Kentongri
		6. Wengkhar Yagpoogang
	10. Na-Rang	1. Dongshoom Pangkhang
		2. Gomchhu
		3. Khalong
		4. Narang Pangthang
		5. Thrinangphu
	11. Ngatshang	1. Ngatshaang
		2. Nyingala Phanasi
		3. Phelshoob
		4. Thoombari Zangdari
		5. Yadi Yekhar
	12. Saling	1. Drogsar
		2. Kalapang Resa
		3. Saling
		4. Senggor
		5. Thridangbi
		6. Tsenzabi Masangdaza
	13. Shermuhoong	1. Gangmoong
		2. Jabang Thueling
		3. Malang Serzhong
		4. Muhoong Shiling
		5. Soenakhar Yarab
	14. Silambi	1. Daag
		2. Gyalong
		3. Kadag Silambi
		4. Pang Nagor
		5. Wama
	15. Thang-Rong	1. Atola
		2. Bauchhoeling Panglen
		3. Changshing

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Table cont...

Dzongkhag	Gewog	Chiwog
7. Monggar	15. Thang-Rong	4. Lingkhar
		5. Ngaru Pongtang
	16. Tsakaling	1. Drengling Horong
		2. Drongtoed Tormazhong
		3. Kaling Thoomling
		4. Nyartsi Tsakaling
		5. Tagkhambi
	17. Tsamang	1. Baanjar
		2. Drangmaling Nanggor
		3. Ganglapong Maed
		4. Ganglapong Toed
		5. Thuenmong Tokari
8. Paro	1. Dokar	1. Dawakha Tshongkha
		2. Goensakha Phuchhekha
		3. Khamdraag Sali
		4. Mendrel Uesuna
		5. Tenchhekha Tsiphoog
	2. Dopshar-ri	1. Duezhi Jipa
		2. Jangsa Jooka
		3. Jizhigang
		4. Kempa Kuduphoog
		5. Rinchhending Sharri
	3. Doteng	1. Aatsho Phunoob
		2. Chhubar
		3. Jabji Loogchhoed
		4. Joogar Pachhu
		5. Phooshar
	4. Hungrel	1. Chhubjagkha
		2. Gaupel
		3. Goenkha
		4. Hoongrelkha Jangsarbu
		5. Loongchhungna
	5. Lamgong	1. Chhukha
		2. Ngopa Shomo
		3. Tsendonang

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Table cont...

Dzongkhag	Gewog	Chiwog
8. Paro	5. Lamgong	4. Gangjoog Kyidchhu
		5. Jagarthang
	6. Loong-nyi	1. Baangdey
		2. Dzongdraag Gadraag
		3. Jieu Woochhu
		4. Naemjog
		5. Pangbisa
	7. NaJa	1. Bemphu Lingzhi Nagu
		2. Bueltikha Jagoen
		3. Jazhina Tsuengoen
		4. Rangzhingang Tshebji
		5. Wanakha Zursuna
	8. Sharpa	1. Bara Zhunggar
		2. Bjizhikha Phubarna
		3. Chhukha Gangjoogkha
		4. Dochhoeten Neyphu
		5. Drugyaldingkha Zhelngo
	9. Tsento	1. Chhungjey Zamsar
		2. Mitshig Shana
		3. Nyamjey Phangdo
		4. Nyechhu Shari
		5. Soe Yagsa
	10. Wangchang	1. Changkhar Jangteyina
		2. Changmedthangka Khangkhu
		3. Dungkhar Namkhar
		4. Gebtoed Olathang Tajoog
		5. Mendrel Nakha
9. Pemagatshel	1. Chhimoong	1. Chhimoong
		2. Chhiphoong
		3. Loongkholom
		4. Nyasikhar
		5. Pangthang Redingla
	2. Chhoekhorling	1. Arden
		2. Chhoekhorling Gazawong
		3. Dizama Shoguri

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Table cont...

Dzongkhag	Gewog	Chiwog
9. Pemagatshel	2. Chhoekhorling	4. Kerong
		5. Yargyewoong
	3. Chongshing	1. Chongshing Jorphoong
		2. Guyoom Lanangzor
		3. Kamri Yomzor
		4. Maendi
		5. Thongsa
	4. Dechhenling	1. Bidoongri Yangmalashing
		2. Dechhenling Goenpawoong
		3. Doongchhilo Kholomri
		4. Doongphu Shingchongri
		5. Goishing Ridzommo
		6. Namdagling
	5. Dungmaed	1. Bangyuel
		2. Dungmaed Zimzor
		3. Lanyiri Thrumchoong
		4. Serduwa
		5. Woongborang
	6. Khar	1. Bongmaan
		2. Khar Yagyur
		3. Khengzor Labar
		4. Nagtseri Shemshem Tsebar
		5. Shinangri
	7. Nanong	1. Gashigkhar Tshatshi
		2. Nanong
		3. Raling
		4. Terphug Woongchhiloo
		5. Tokari
	8. Norboogang	1. Gashari
		2. Maenchhu Nganglam
		3. Norboogang Rinchhenzor
		4. Nyingshingborang
		5. Tshaelshingzor
	9. Shumar	1. Bartseri
		2. Chongmashing Dagor

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Table cont...

Dzongkhag	Gewog	Chiwog
9. Pemagatshel	9. Shumar	3. Goenpoong Shali
		4. Khothagpa Yalang
		5. Nangkor
	10. Yurung	1. Bangdala
		2. Doongsingma Thoongkhar
		3. Khangma
		4. Khominang Yangkhar
		5. Wanglakho Thoonggo
	11. Zobel	1. Choongkhar Pangthangdaza
		2. Maan Tshelinggor
		3. Ngangmalang Zorjoog
		4. Raysinang
		5. Zobel
10. Punakha	1. Barp	1. Chagsa
		2. Gamakha Sebtokha
		3. Sobsokha Yuwakha Zhikha
		4. Tshogkorna
		5. Usakha
	2. Chhuboog	1. Bali
		2. Bumtakha Tenpakha
		3. Jangwakha Sewala
		4. Ngoedroobchhu
		5. Yebisa
	3. Dzomi	1. Dzomisa Mendagang
		2. Gubji Tseykakha
		3. Jimithang
		4. Khilikhar Loongkha
		5. Tanag Uesa
	4. Goenshari	1. Draagchhukha
		2. Goomgang
		3. Sechaednang
		4. Yorbo
		5. Zhelngoesa
	5. Guma	1. Baymenang Phulingsoom Wangwakha
		2. Changyuel Loongsilgang Tashijong

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Table cont...

Dzongkhag	Gewog	Chiwog
10. Punakha	5. Guma	3. Dochhukha Dzomlingthang Ritsa
		4. Guma Wolakha
		5. Lakhu Tshowogm
	6. Kabisa	1. Agonang Zarbisa
		2. Chhoetennyingpo Uesarkha
		3. Heyloog Tongzhoognang
		4. Peltari
		5. Sirang Wakoodamchh
	7. Lingmukha	1. Dompala
		2. Goomkarmo
		3. Lingmukha
		4. Nabchhed
		5. Oomtekha
	8. Shelnga-Bjemi	1. Chongzhi Jarigang Jazhikha
		2. Datong
		3. Gangkha
		4. Khubji Tshosa
		5. Thongbji
	9. Talog	1. Dongkokhar Yonggu
		2. Gangthramo Labtsakha Soelwadrangsa
		3. Loongnangkha
		4. Norbugang
		5. Talog
	10. Toedwang	1. Dawakha
		2. Jibjo Yuesakha
		3. Kewanang Tsachhuphu
		4. Tamigdamchhu Thangbji
		5. Tsephug Khawakha
	11. Toepaisa	1. Bichhekha Yuelhamo
		2. Damkhyi Rinakha
		3. Dochogla Maenchhuna
		4. Goenmkha Mendrelgang
		5. Lemjakha Thinleygang
11. Samdrup Jongkhar	1. Dewathang	1. Bangtsho
		2. Chhenangri Rishor
		3. Domphoog Dungkharchhoeling

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Table cont...

Dzongkhag	Gewog	Chiwog
11. Samdrup Jongkhar	1. Dewathang	4. Martang
		5. Rikhey
	2. Gomdar	1. Broomi Chidoongkhar
		2. Denchhi
		3. Gomdar Richhanglu
		4. Khoyarpangthang Palroong
		5. Narphoong
	3. Langchenphu	1. Agoorthang
		2. Jampani
		3. Jangsa
		4. Langchenphu
		5. Rongchhuthang
	4. Lauri	1. Betseling Doongmanma
		2. Gonong Zangthig
		3. Lauri
		4. Momring Rolnang
		5. Tshothang
	5. Martshala	1. Chhoedoong Kakani
		2. Galingkhar Wangphoog
		3. Kaeptang Tsholingkhar
		4. Martshala
		5. Sarjoong
		6. Suzor Tshotsalu
	6. Orong	1. Bilam Orong Suzoong
		2. Jangchhubling
		3. Morong
		4. Nabar Philooma
		5. Nagzor Wooling
		6. Rimoong
	7. Pemathang	1. Chirtshosa Loongminang
		2. Kathoobdrang Shilinggye
		3. Pemathang
		4. Raling
		5. Uesarna Warong
	8. Phuentshogthang	1. Baylamsharang

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Table cont...

Dzongkhag	Gewog	Chiwog
11. Samdrup Jongkhar	8. Phuentshogthang	2. Doongkarling
		3. Khamaedthang
		4. Minjigang
		5. Phuentshogthang
		6. Samdrupchhoeling
	9. Samrang	1. Damsagang Maed
		2. Damsagang Toed
		3. Ngangtshothang Maed
		4. Ngangtshothang Toed
		5. Tshoduen
	10. Serthig	1. Dangtsho Serthig
		2. Drenphoog
		3. Khandophoog Maenjiwoong
		4. Monmola Tashithanggyed
		5. Phagchhog Suskar
	11. Wangphoog	1. Bayuel Pangthang
		2. Benporong Yarphoog
		3. Sacchilo
		4. Serchhenmo Wangphoog
		5. Shogshi
12. Samtse	1. Doongtoed (Dumtoe)	1. Doongtoed Chhewa
		2. Doongtoed Chhungwa Jarikha
		3. Doongtoed Khaling
		4. Gebji Kuzhuggang
		5. Maedgang
	2. Dophoogchen(Dorokha)	1. Aringgang Midzomsa
		2. Dangreyboog Ngagang
		3. Manigang Thingyersa
		4. Melonggang Thuloonggang
		5. Sangloong Senteng
		6. Singye
	3. Duenchhukha	1. Biloong Pongthra
		2. Dhuenchhukha Gabji
		3. Domchhukha Shitakha
		4. Gawaling Karzhing
		5. Gesarling Yomdeling

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Table cont...

Dzongkhag	Gewog	Chiwog
12. Samtse	4. Namgaychoeling (Lahireni)	1. Chhunaggang Chhoedleling
		2. Gyalposhing Satsangsa
		3. Namgaychhoeling
		4. Pagshingkha Tshachhugang
		5. Sernyagang Tsholingkhar
	5. Norboogang (Chengmari)	1. Damzhagsa Tsaphelthang
		2. Dawaling Yangphelthang
		3. Dramzedgang Maedgang
		4. Khangduzhi Kyidsa
		5. Lambi Lamjosa
	6. Norgaygang (Bara)	1. Chhugoo Phendegang
		2. Chongzhu Tshachhu
		3. Dangreyboog Patshaling
		4. Joenpang Lingarnang
		5. Khabaabgang Noryog
		6. Miphelgang Samphelgang
	7. Pemaling (Biru)	1. Chhusilgang Dramedsa
		2. Dizanggang Nakeyling
		3. Manigang Tashithang
		4. Norgeyling Singdregang
		5. Thangchhennang Damtshangna
	8. Phuentshogpelri (Pugli)	1. Chhunag Doomshinggang
		2. Gashingma Ketshaelgang Thongjabi
		3. Jangchhogling Lachhungthang
		4. Nyoenpaling Tingtingma
		5. Tashilakha Uelgyalling
	9. Samtse	1. Damtshangma Khandothang
		2. Dewathang Lamaithang
		3. Lingmaithang Taserpo
		4. Nyimaling Chhirlogsa
		5. Satshamchhu Tshongdzonm
	10. Sa-Ngag-Chhoeling (Chargharey)	1. Chhuchhungsa Karseling
		2. Dephellingmaed Khangzangling
		3. Dephellingtoed Namseling
		4. Joenlegsa Sangngangchhoeling
		5. Ngoedroobling

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Table cont...

Dzongkhag	Gewog	Chiwog
12. Samtse	11. Tading	1. Dangreyboong Nyindooglakha
		2. Khempagang Panzhing
		3. Norjangsa Zochhaling
		4. Tading Tenpaling
		5. Thongsa Tobchhenthang
	12. Tashichhoeling (Sipsu)	1. Baepoteng Kangdoongphug
		2. Daaling Gangjoog
		3. Dewachen Zhiwaling
		4. Norjangsa Peljorling
		5. Tashichhoeling
	13. Tendruk	1. Dawathang Kuengaling
		2. Kachhen Kuchhen
		3. Khengtong Targothang
		4. Miglamthang Thagpzosa
		5. Nyizergang Tendruk
	14. Ugyentse (Nainital)	1. Dangkarling Dechhengang
		2. Dangreyboog Rigpailing
		3. Jarithang
		4. Kardog
		5. Nyimalung Tharpaling
	15. Yoeseltse (Ghumauney)	1. Dungkar
		2. Koenchhogling Soenakha
		3. Pelkithang Rangjoongling
		4. Rinchhenphoog Samtenchhu
		5. Zurigang Jigmedthang
13. Sarpang	1. Chhudzom	1. Dragchhu
		2. Gaalegthang
		3. Jangchhubling
		4. Lhayuel
		5. Sherabling
	2. Chhuzaggang	1. Barthang
		2. Chagsakhar
		3. Nyimaling Shawapong
		4. Pangzor
		5. Thongjabi Yueling

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Table cont...

Dzongkhag	Gewog	Chiwog
13. Sarpang	3. Dekiling	1. Chhoekhorling
		2. Dekiling
		3. Gawaithang
		4. Jigmeling
		5. Nubgang
	4. Gakiling	1. Gakiling
		2. Getemkha
		3. Maenchhulam
		4. Rilangthang
		5. Sangkha
	5. Gelegphu	1. Dzomlingthang
		2. Lekidthang
		3. Pelrithang khamaed
		4. Pelrithang khatoed
		5. Pemathang
	6. Jigme-Chhoeling	1. Chhoetenkhar
		2. Gongduegang
		3. Gongtsekha
		4. Khamaed
		5. Khatoed
		6. Samkhar
	7. Samtenling	1. Chhoekhorling_Dechhenpelri
		2. Dechhenpelri
		3. Khenpagang
		4. Samteling
		5. Samthenthang
	8. Senggey	1. Labtsakha
		2. Nyenyul
		3. Rishong
		4. Sangyethang
		5. Yarpheling
	9. Serzhong	1. Barshong
		2. Norbuling
		3. Pemayoedling
		4. Sherzhong
		5. Tashiphu

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Table cont...

Dzongkhag	Gewog	Chiwog
13. Sarpang	10. Shompangkha	1. Dargyethang
		2. Gomchola
		3. Koenchhogling
		4. Risoomgang
		5. Shompangkha
	11. Tareythang	1. Dorjitse
		2. Pemachhoeling
		3. Tashichhoeling
		4. Woongchhiloo
		5. Yoezergang
	12. Umling	1. Daangling
		2. Doongmin
		3. Gaden
		4. Rijoog
		5. Tashithang
14. Thimphu	1. Chang	1. Rama
		2. Gangcheb Talakha
		3. Hongtsho
		4. Debsi
		5. Yusipang
	2. Dagala	1. Chamgang Moed
		2. Chamgang Toed
		3. Dungdro
		4. Gaytala
		5. Wangdro
	3. Genekha	1. Chizhi
		2. Genekha
		3. Tshochekha
		4. Wangbama
		5. Zanglakha
	4. Kawang	1. Begana
		2. Choekhor Chamina
		3. Changtagang
		4. Dazhi Zhoshuel
		5. Kuzhugchen

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Table cont...

Dzongkhag	Gewog	Chiwog
14. Thimphu	5. Lingzhi	1. Chakphu
		2. Chhuzarkha
		3. Gangyuel
		4. Khangkidyuel
		5. Shagyuel
	6. Mewang	1. Danglo Namsaeling
		2. Jeminang
		3. Khasadrapchu
		4. Sisinang
		5. Tshaluna
	7. Naro	1. Barshong
		2. Mentsephu
		3. Phagay
		4. Thaksethang
		5. Zhomthang
	8. Soe	1. Damgochong
		2. Dotaapaithang
		3. Jangothang
		4. Jomphu
		5. Dozoten
15. Trashigang	1. Bartsham	1. Bainangkhar Nangkhar
		2. Dzongthong Menchhari
		3. Jamoong Kumoong
		4. Moogtangkhar
		5. Trashang
	2. Bidoong	1. Kakaniwog
		2. Khairi Saling
		3. Lemphang
		4. Tsekhar
		5. Tsigtoom
	3. Kanglung	1. Maanthong
		2. Mertsham Thragom
		3. Pangthang Ritsangdoong
		4. Rongthoong Shingchen
		5. Yonphoogla

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Table cont...

Dzongkhag	Gewog	Chiwog
15. Trashigang	4. Kangpar	1. Bedengphoog Merdag
		2. Kangpar Lamyong
		3. Passaphoog Peydoong
		4. Threlphoog
		5. Zordoong
	5. Khaling	1. Barshong
		2. Bayphoog Togkaphu
		3. Brekha Meringzor
		4. Gomchhu Kholdoong
		5. Jiri Lemi
		6. Khaling
	6. Lumang	1. Chhengri Doongmanma
		2. Drubkhang Lumang
		3. Kharphoog Kurchhilo
		4. Moochhu Wakhar
		5. Riserboo Tsangpo
		6. Tshogoenpa
	7. Merag	1. Gyengo
		2. Khashateng
		3. Khiliphoo
		4. Merag Maed
		5. Merag Toed
	8. Phongmed	1. Lem
		2. Phimshong
		3. Phongmed
		4. Thongrong
		5. Yabrang
	9. Radi	1. Dekidling Tsenkhar
		2. Kadam
		3. Nagtshang Togshingmang
		4. Pakaling
		5. Tonglingpam
	10. Sagten	1. Borangmang Borangtse
		2. Joenkhar Moorbi
		3. Pusa Tenmang

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Table cont...

Dzongkhag	Gewog	Chiwog
15. Trashigang	10. Sagten	4. Sagteng
		5. Thagthri
	11. Samkhar	1. Bikhar Domkhar
		2. Chagzam Pam
		3. Kapang Yenangdrangsa
		4. Khabti Lungtenzampa
		5. Maelphel Samkhar
		6. Rangzhikhar Serdrang
	12. Shongphoog	1. Chaling
		2. Chhangmi Rangjoong
		3. Dramin Shongphoog
		4. Galing
		5. Gongtsephangma Yobinang
	13. Thrimshing	1. Berdoongma Thoongkhar
		2. Bongzor Phegpari
		3. Doongsingma Tsangpo
		4. Ramchongma Yemkhar
		5. Thrimshing
	14. Udzorong	1. Baepam
		2. Barkazor Maenkhar
		3. Benshingmo Jomtsang
		4. Chhiya
		5. Rizor Yerchhilo
	15. Yangnyer	1. Daliphang Ragshigo
		2. Dargyeling Kharthoong
		3. Duroong Ngambinlang
		4. Khardza Leyphoog
		5. Shokang Tagtagpa
16. Trashiyangtse	1. Boomdeling	1. Betsamang
		2. Bomdir Wogmanang
		3. Gangkhardoong Tshaling
		4. Ngalimang Phanteng
		5. Pangkhar Taphel
	2. Jamkhar	1. Chhema Tagchhema
		2. Laishoom Largyab

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Table cont...

Dzongkhag	Gewog	Chiwog
16. Trashiyangtse	2. Jamkhar	3. Neydrag Pachhu
		4. Rijoong Yoob
		5. Shingkhar Tongla
	3. Khamdang	1. Domtshang Karmazom
		2. Dungtse Lengkhar
		3. Khamdang Manla
		4. Nombaring Shazam
		5. Serpang Shalli
	4. Ramjar	1. Bainangreb Romang
		2. Bawoong
		3. Domtshang Doongmaen
		4. Khalapangthang Tsangrong
		5. Lengbartang Woongkhar
	5. Toedtsho	1. Chhemkhar Manam
		2. Jangphoogtse Thangdoong
		3. Khinyel Togshing
		4. Maeldoong
		5. Nangkhar Seb
		6. Sertsho
	6. Tongmizhangsa	1. Bagpa Kuenzangling
		2. Bainangkhar Gomkor
		3. Changmadoong Shoganang
		4. Maenchu Tsangdoong
		5. Pang Lhauzhing
	7. Yalang	1. Chhema Melongkhar
		2. Doogti Gashing
		3. Namthi Yarphel
		4. Phugyang Yalang
		5. Rolam Thragom
	8. Yangtse	1. Baney Bimkhar
		2. Bayling
		3. Gangkhar
		4. Lichen
		5. Rabti

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Table cont...

Dzongkhag	Gewog	Chiwog
17. Trongsa	1. Draagteng	1. Kuenga Rabten
		2. Samling Khamaed
		3. Samling Khatoed
		4. Tagtse_Tashidingkha
		5. Uesar
	2. Korphoog	1. Korphoog Maed
		2. Korphoog Toed
		3. Nabi
		4. Nyimzhong Maed
		5. Nyimzhong Toed
	3. Langthil	1. Baling
		2. Dangdoong
		3. Jangbi
		4. Langthil
		5. Yuedroongchhoeling
	4. Nubi	1. Bagochen_Boolingpang_Ueling
		2. Bemji_Chela
		3. Bji_Sengm_Bji
		4. Darbab_Sinphoog
		5. Gaghar_Kar-zhong
	5. Tangsibji	1. Chendenbji
		2. Kela
		3. Nyala_Drangla
		4. Tangsibji
		5. Tshangkha
18. Tsirang	1. Barshong	1. Barshong Maed
		2. Barshong Toed
		3. Chunyikhang
		4. Gangtogkha
		5. Toedsang
	2. Doonglagang	1. Dangreyboog Maed
		2. Dangreyboog Toed
		3. Dingrigang Lhamoiloongm
		4. Khirithang
		5. Norjangsa

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Table cont...

Dzongkhag	Gewog	Chiwog
18. Tsirang	3. Gosarling	1. Dzamlingthang
		2. Dzamlingzor
		3. Pelrithang
		4. Pemathang
		5. Phuensoomgang
	4. Kilkhorthang	1. Dekidling
		2. Maenchhana
		3. Nyizergang
		4. Satsangma
		5. Tashiyangjong
	5. Mendrelgang	1. Dzamlingzor
		2. Mendrelgang
		3. Pemashong Samshinggaden
		4. Riserboo
		5. Tashipang
	6. Patshaling (Beteni)	1. Chhuzomsa
		2. Pangthang
		3. Pantshaling Maed Tsakaling
		4. Pantshaling Toed
		5. Thakorling
	7. Pungtenchhu	1. Goentegkha Tongshinggang
		2. Norboothang
		3. Peljorling
		4. Serzhong
		5. Tashichhoeling
	8. Rangthangling	1. Chringma Rangthangling
		2. Darchhargang
		3. Gagaling Nyimazor
		4. Neymedsa
		5. Soonkosh
	9. Semjong	1. Dangreygang
		2. Dekidling
		3. Dzomling
		4. Tashiling Maed
		5. Tashiling Toed

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Table cont...

Dzongkhag	Gewog	Chiwog
18. Tsirang	10. Sergithang (Patala)	1. Norboogang
		2. Semdenjong
		3. Sergithang Maed
		4. Sergithang Toed
		5. Tashithang
	11. Tsholingkhar	1. Droobchhugang
		2. Gomsoom
		3. Kapazhing
		4. Tsholingkhar Maed
		5. Tsholingkhar Toed
	12. Tsirang Toed	1. Kabelzhing
		2. Soentabsa
		3. Tagthang Wangphoo
		4. Tongshingnang
		5. Tsirang Toed
19. Wangdue Phodrang	1. Athang	1. Jaroggang Dzawa
		2. Lawa Lamga
		3. Lomtshokha
		4. Lophokha Pagtakha
		5. Rookha
	2. Bjednag	1. Bjednagloongpa Thingmakha
		2. Garzhikha Omchheygang
		3. Ngawang Tongchennang
		4. Tashitokha
		5. Wachhey
	3. Dangchhu	1. Doongdoongnyelsa Norbooding
		2. Godraang Taagsar
		3. Tashidingkha Zimi
		4. Tokaling Tomla
		5. Uesagang
	4. Darkar	1. Gyapakha
		2. Kamichhu Umakha Maed
		3. Kamina Wogyal
		4. Sili Taagsha
		5. Umakha Toed

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Table cont...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	5. Gangteng	1. Jangchen Koomboo
		2. Gorgoen
		3. Gangteng
		4. Tapaiteng Uega
		5. Yaekorwog
	6. Gase Tsho-Gongm	1. Changche Matshigpogto
		2. Changkha
		3. Dabchhaykha Matshigkha
		4. Khamaedna
		5. Khatoedkha
	7. Gase Tsho-Woom	1. Haebisa
		2. Haetshokha
		3. Medpaisa Taabchhaekha
		4. Shingkheykha Toed
		5. Singkheykha Maed
	8. Kazhi	1. Baedrog
		2. Chegidp
		3. Kazhi
		4. Komathrang
		5. Lengbi
	9. Nahi	1. Haebisa
		2. Halued Uesawogm
		3. Khoorjoongla Langmizi
		4. Nagbisa
		5. Uesagongm Thabji
	10. Nyishog	1. Chhaebhakha
		2. Chitokha Pangkha
		3. Gangjab
		4. Geylegkha Kuenzangling
		5. Goensar Rajawog
		6. Samtengang
	11. Phangyuel	1. Chhunggoen
		2. Chhungserkha Domkha
		3. Goenkhar
		4. Koomchhi Phangyuel
		5. Uesargang Wampoekhar

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Table cont...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	12. Phobji	1. Damchhoe Gangphel
		2. Dogsenang Gorphoog
		3. Drangpa Pangsar
		4. Khemdro Nemphel
		5. Talachen Tawa Taphoog
	13. Ruebisa	1. Bangtoedkha
		2. Bjagphug
		3. Gyala
		4. Oola
		5. Zamding
	14. Saephoog	1. Boommilog
		2. Booso Zeri
		3. Longtoed
		4. Nakha
		5. Rukoobji
	15. Thedtsho	1. Jang Rinchhengang
		2. Lho Rinchhengang
		3. Martaloongchu
		4. Thanggoo
		5. Wangjokha
20. Zhemgang	1. Bardo	1. Bardo
		2. Digala
		3. Khomshar
		4. Langdorbi
		5. Phulabi
	2. Bjoka	1. Bjokar
		2. Chabdenba Dzarkabla
		3. Dali
		4. Kamati
		5. Sarpong Namirgang
	3. Goshing	1. Budhashi
		2. Lamthang
		3. Lichibi
		4. Lingmapong Samchhoeling
		5. Mewangang

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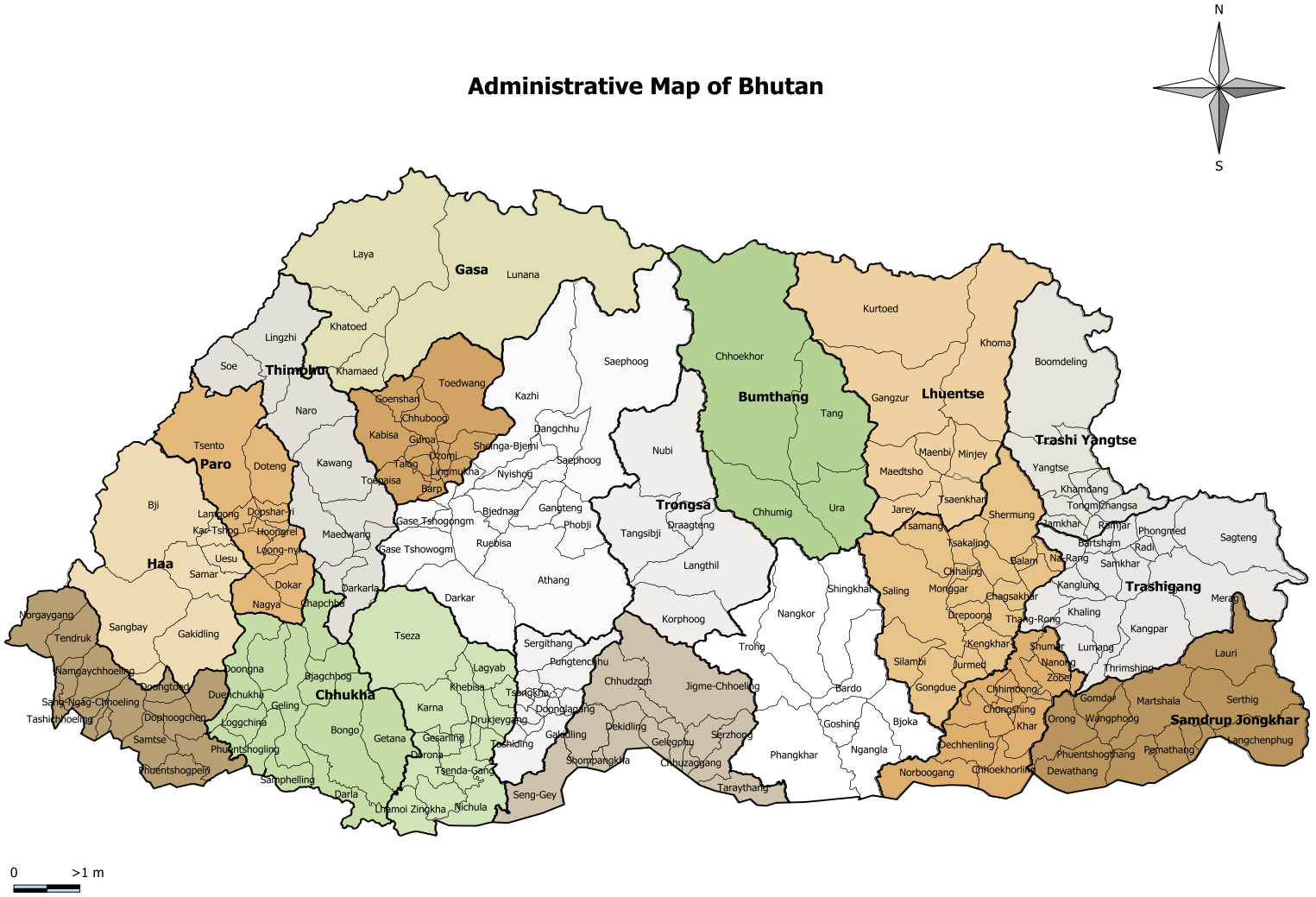
Table cont...

Dzongkhag	Gewog	Chiwog
20. Zhemgang	4. Nangkor	1. Buli
		2. Dakphel Tali
		3. Duenmang
		4. Goleng
		5. Nyakha
	5. Ngangla	1. Kagtong
		2. Marangduet
		3. Ngangla Trong
		4. Panbang Sonamthang
		5. Ribati
	6. Phangkhar	1. Chargngarzam
		2. Mamong Trong Pantang
		3. Panabi
		4. Rongchola Dadijong
		5. Shalingtoed Tashibi
	7. Shingkhar	1. Nyimzong Thajong
		2. Radi
		3. Singkhar
		4. Thrisa
		5. Wamling
	8. Trong	1. Berti Tagma
		2. Dangkhar Trong
		3. Gongphu
		4. Soobdrang
		5. Tshanglajong Zurphel

Source: Election Commission of Bhutan and Dzongkhag Administration.

Administrative Map of Bhutan