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National Statistics Bureau

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Statistical Yearbook of Bhutan 2017

September 2017

ORGANOGRAM OF THE ROYAL GOVERNMENT OF BHUTAN
POST CONSTITUTIONAL ENACTMENT 2009

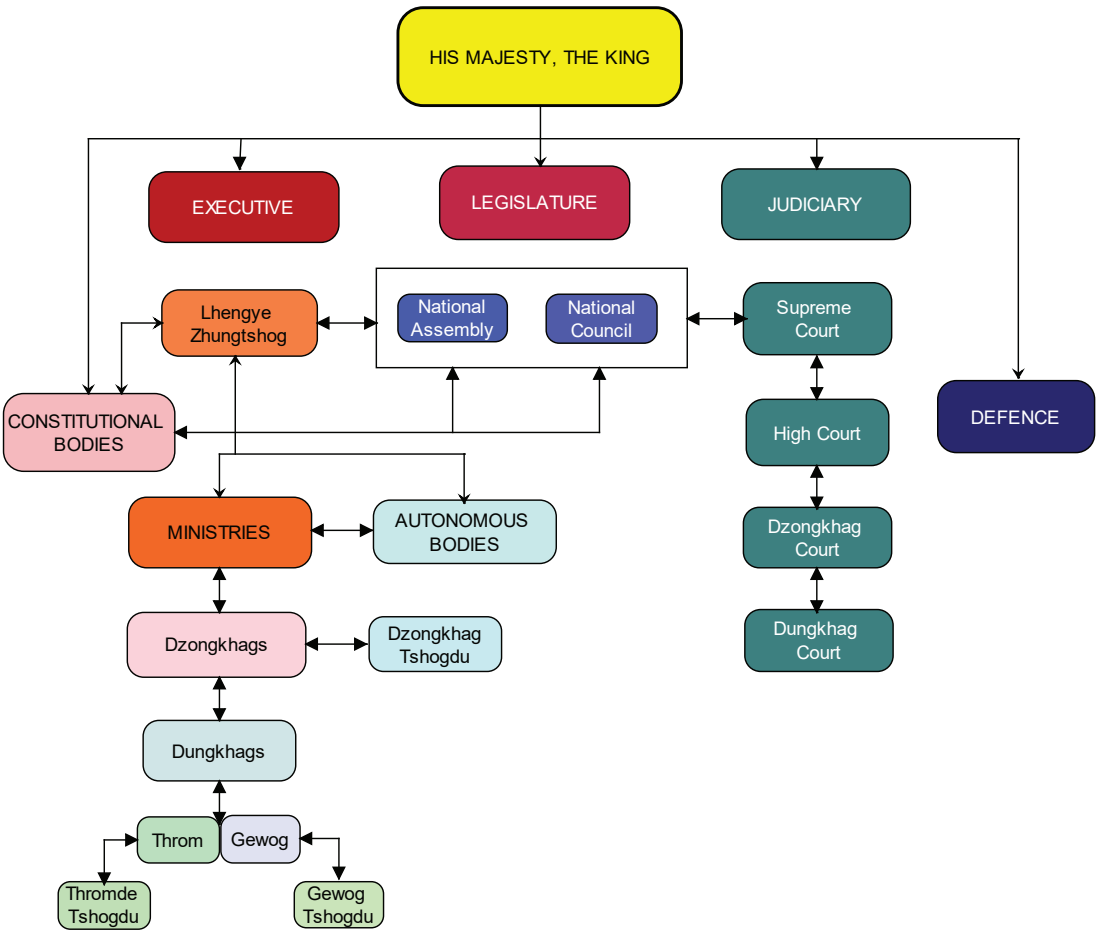


TABLE OF CONTENTS

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

CHAPTER 1: POPULATION 1

TABLE

1.1: Projected Population by Sex, Bhutan (2010-2030) 3
1.2: Projected Population by Age Group and Sex, Bhutan (2016 & 2017) 4
1.3: Crude Birth Rate by Area and Dzongkhag, 2005 5
1.4: General Fertility Rate, General Marital Fertility Rate and Total Fertility Rate by Area and Dzongkhag, 2005 6
1.5: Age Specific Fertility Rate by Age Group and Dzongkhag, 2005 7
1.6: Crude Death Rate by Area and Dzongkhag, 2005 8
1.7: Natural Population Growth Rate by Area and Dzongkhag, 2005 9
1.8: Infant Mortality Rate, Child Mortality Rate and Under 5 Mortality Rate by Dzongkhag, 2005 10

CHAPTER 2: HEALTH 11

TABLE

2.1: Summary of Health Facilities and Personnel, Bhutan (2012-2016 12
2.2: Type of Health Facilities by Dzongkhag, Bhutan, 2016 13
2.3: Health Personnel by Category, Bhutan (2012-2016) 14
2.4: Top Ten Morbidity, Bhutan, 2016 14
2.5: Top Ten Inpatient Hospital Mortality, Bhutan, 2016 15
2.6: Total Morbidity by Sex, Bhutan, 2016 16
2.7: Inpatient Cases in all Hospitals, Bhutan, 2016 26
2.8: Outpatient Cases in all Hospitals, Bhutan, 2016 36
2.9: Number of Patient Admissions & Average Length of Stay in Dzongkhag Hospitals, Bhutan (2014-2016) 46
2.10: Immunization Status by Dzongkhag, Bhutan, 2016 47
2.11: Nutritional and Vitamin A Status of Children Attending Clinics, Bhutan, 2016 48
2.12: Details of Maternal & Child Health Care Activities, Bhutan (2012-2016) 50
2.13: Family Planning Methods by Type, Bhutan (2012-2016) 50
2.14: Number of Users of Family Planning Methods by Type, by Dzongkhag, Bhutan, 2016 51

2.15: Number of Malaria Cases by Type and Deaths, Bhutan (2012-2016) 52
2.16: Number of Tuberculosis Cases by Type and Deaths, Bhutan (2012-2016) 52
2.17: Types of Water and Sanitation Facility by Dzongkhag, Bhutan, 2016 53

CHAPTER 3: EDUCATION 54

TABLE

3.1: Key Education Indicators by Year, (2012-2016) 55
3.2: Number of Schools, Institutes & Centres, Bhutan, 2016 56
3.3: Number of Students, Learners, Trainees and Novitiates, Bhutan, 2016 57
3.4: Summary of Teachers, Lecturers, Instructors, Trainers and Caregivers, Bhutan, 2016 58
3.5: Enrolment in Institutions and at Tertiary level, Bhutan (2012-2016) 59
3.6: Number of Schools by Type and Dzongkhag, Bhutan, 2016 60
3.7: Comparative Enrolment by Grade and Schools, (2015-2016) 62
3.8: Number of Students by Grade, Bhutan (2012-2016) 64

CHAPTER 4: LABOUR AND EMPLOYMENT 65

TABLE

4.1: Civil Servants by Position Category and Employment Type, Bhutan (2013-2016) 66
4.2: Civil Servants by Working Agency and Employment Type, Bhutan, 2016 68
4.3: Civil Servants by Position Level and Sex, Bhutan, 2016 72
4.4: Percentage Distribution of Employed Persons by Major Economic Activity and Sex, Bhutan, 2015 74
4.5: Percentage Distribution of Employed Persons by Major Occupation and Sex, Bhutan, 2015 75
4.6: Percentage Distribution of Employed Persons by Nature of Employment and Sex, Bhutan, 2015 75
4.7: Number of Persons Employed by Age Group, Type and Sex, Bhutan, 2015 76
4.8: Percentage Distribution of Labour Force Participation, Employment Status by Age Group and Sex, Bhutan, 2015 78
4.9: Total Employed Persons by Age Group and Completed Level of Education, Bhutan, 2015 79
4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2015 80
4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan, 2015 82
4.12: Employed Persons who looked for additional work by Dzongkhag, Sex and by Area of Residence, Bhutan, 2015 83
4.13: Employed Persons who Worked Per Week by Hours and by Major Economic Activity, Bhutan, 2015 84
4.14: Employed Persons who Worked During The Past One Week by Nature of Employment And Hours of Work, Bhutan, 2015 85

4.15: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2015 86
4.16: Unemployed Persons by Age Group, Sex and Area of Residence, Bhutan, 2015 88

CHAPTER 5: LAND USE AND AGRICULTURE 89

TABLE
5.1: Number of Agriculture Research and Extension Facilities, Bhutan (2012-2016) 90
5.2: Area Proportion by Altitude Zones as Percentage of Total Dzongkhag Area, Bhutan, 2016 92
5.3: Area Proportion by Altitude Zones as Percentage of Total Country Area, Bhutan, 2010 94
5.4: Distribution of Plant Protection Chemicals by Dzongkhag, Bhutan, (2010/11 – 2014/15) 95
5.5: Agriculture Land Holdings & Land Types by Dzongkhag, Bhutan, 2010 96
5.6: Cultivated Area, Production and Yield of Major Crops by Dzongkhag, Bhutan, 2016 98
5.7: Number of Livestock by Type and Dzongkhag, Bhutan (2014-2016) 100
5.8: Diary and Livestock Production by Type and Dzongkhag, Bhutan (2014-2016) 102
5.9: Fruit Production and Yield, Bhutan (2012-2016) 104
5.10: Vegetables, Oilseeds, Spices and Pulses Production, Bhutan (2012-2016) 105
5.11: Volume and Value of Exports by Major Commodities, Bhutan (2012-2016) 106
5.12: Volume and Value of Imports by Major Commodities, Bhutan (2012-2016) 108
5.13: Annual Average Price of Farm Products Received by Farmers by Type, Bhutan, (2012-2016) 109
5.14: Imports and Sales of Food Items by Food Corporation of Bhutan (2012-2016) 111
5.15: Quantity of Agricultural Produce Handled by Food Corporation of Bhutan (2012-2016) 112

CHAPTER 6: ENVIROMENT STATISTICS 113

TABLE
6.1: Area of Land-Use and Vegetation by Type, Bhutan, 2016 114
6.2: Area Proportion as Percentage of Total Dzongkhag Area by Type of Land Cover, Bhutan, 2016 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, 2016 118
6.6: Total Monthly Rainfall at Existing Stations in Each Dzongkhag, Bhutan, 2016 121
6.7: Details of Protected Areas in Bhutan, by Year of Establishment and Area, Bhutan, 2016 124

6.8: Disposal of Logwood, Natural Resources Development Corporation Limited, Bhutan, (2012-2016..... 125
6.9: Supply of Timber by Divisions by Product Type, Bhutan, 2016 126
6.10: Supply of Timber by Parks and Wildlife Sancturies by Product Type, Bhutan, 2016..... 128
6.11: Quantity of Timber Supplied and Royalties Realized by Divisions and Parks, Bhutan, (2012-2013 to 2016) 129
6.12: Non-wood Forest Products Supplied and Revenue Generated Through Royalty (Nu.), Bhutan, 2016 130
6.13: Distribution of Geographical Area by Agro-Ecological Zones, Bhutan, 2010..... 132
6.14: Mineral Production by Type, Bhutan (2012-2016 133
6.15: Mineral Production by Type and Use, Bhutan (2013-2016) 134
6.16: Length of Roads by Type, Bhutan (2012-2016)..... 136
6.17: Length of Roads by Type and Dzongkhag, Bhutan, June 2017 137
6.18: Number of Registered Vehicles by Type and Region (2012-June 2017..... 138
6.19: Total Electricity Generation and Supply, Bhutan (2012-2016) 140
6.20: Consumption of Electricity by Type of Consumer, 2016..... 141
6.21: Percentage of Major Attraction to Bhutan, 2016 141
6.22: Import of Petroleum Products by Volume and Value, (2012-2016)..... 142
6.23: Total Ghg Emissions in Bhutan, 2000 144
6.24: PM 10 Concentration (Microgram/m3) for Thimphu Dzongkhag (2012-2016) 145

CHAPTER 7: INDUSTRIES.....146

TABLE

7.1: Number of Industrial Establishments by Sector, Bhutan (2013-June 2017) 147
7.2: Number of Licensed Firms in Production& Manufacturing, Services and Contract by Ownership, Bhutan (June 2016-June 2017) 148
7.3: Number of Industries by Ownership, Size and Type, Bhutan (June 2016-June 2017) 149
7.4: Number of Contract Firms by Size, by Dzongkhag, Bhutan, (June 2016-June 2017) 150
7.5: Number of Industrial Firms by Scale, by Dzongkhag, Bhutan, (June 2016-June 2017) 151
7.6: Number of Industries by Type in Cottage and Small by Dzongkhag, Bhutan, (June 2016-June 2017) 152
7.7: Number of Industries by Type in Medium and Large by Dzongkhag, Bhutan, (June 2016-June 2017) 154
7.8: Establishment by Type of Ownership and Category, Bhutan, 2017 156
7.9: Establishments by Trade Region and Type of Ownership, Bhutan, 2017..... 156
7.10: Establishments by Type of Legal Organization and Category, Bhutan, 2017..... 157
7.11: Establishments by Trade Region and Sector, Bhutan, 2017..... 157
7.12: Establishments by Major Economic Activity and Category, Bhutan, 2017 158

7.13: Establishments by Dzongkhag and Type of Ownership, Bhutan, 2017 159
7.14: Establishments by Dzongkhag and Area, Bhutan, 2017 160
7.15: Employment by Major Economic Activity, Nationality and Gender, 2016 161
7.16: Number of Employed Persons by Major Economic Activity, Nationality and Gender, Bhutan, 2016 162
7.17: Number of Employees by Trade Region, Nationality, Gender and Nature of Employment, Bhutan, 2016 164
7.18: Bhutanese and Foreign Workers by Trade Region, Employment Nature and Gender, 2016 166
7.19: Unfilled Job Opening in Past One Year by Major Occupation and Trade Region, 2016 166
7.20: Establishments Having Difficulty Finding Qualified Applicants in Past One Year by Skills and Type of Ownership, 2017 167
7.21: Establishments Training in Past One Year by Trade Region and Reasons, 2017 168

CHAPTER 8: TRANSPORT AND COMMUNICATION 169

TABLE

8.1: Number and Length of Motorable Bridges by Type, Bhutan, June 2017 171
8.2: Number of Pedestrian Bridges Constructed Since 5Th Five Year Plan by Dzongkhag, June 2017 172
8.3: Number of Driving Licenses Issued by Region, Bhutan (2013-June 2017) 173
8.4: Number of Passengers Carried & Revenue Earned by Druk Air Flights by Area of Operation (2012-2016) 174
8.5: Number of Flights Made by Druk Air by International and Domestic by Area of Operation (2012-2016) 176
8.6: Number of Passengers Carried & Revenue Earned by Tashi Air Flights by Area of Operation (2013-2016) 178
8.7: Number of Flights Made by Tashi Air by International and by Area of Operation (2013-2016) 179
8.8: Type of Helicopter Services and Number of Flights Made, 2016 179
8.9: Number of Telephone Connection Capacity by Dzongkhag (2012-2016) 180
8.10: Number of Telephone Trunk Circuits, Bhutan, June 2017 181
8.11: Number of Trunk Lines, Connection Capacities, Sets in Use & Mobile Subscribers (2012-2016) 183
8.12: Number of Telephone Trunk Calls and Revenue Earnings, Bhutan (2012-2016) 184
8.13: Number of B-Mobile Trunk Calls and Revenue Earnings, Bhutan, (2012-2016) 184
8.14: Number of Tashicell Trunk Calls and Revenue Earnings, Bhutan (2012-2016) 185
8.15: Number of Postal Infrastructures (2012-2016) 185
8.16: Volume of Mail, by Type of Article (2012-2016) 186
8.17: Financial Services, Number and Value of Money Order by Type, Bhutan (2012-2016) 187
8.18: Volume of Mail, by Type of Article, DHL (2012-2016) 188

CHAPTER 9: ENERGY 189
TABLE
9.1: Hydro Generating Stations and Their Capacities, Bhutan (2014-2016) 190
9.2: Details of Diesel Generator Sets, Bhutan, 2016..... 194
9.3: Major Transmission Lines, 2016 195
9.4: Monthly Revenue from Sale of Energy from Chhukha Power Plant (2013-2016)..... 198
9.5: Monthly Revenue from Sale of Energy from Tala Power Plant (2013-2016)..... 199
9.6: Monthly Revenue from Sale of Energy from Kurichu Power Plant (2013-2016)..... 200
9.7: Monthly Revenue from Sale of Energy from Dagachhu Power Plant (2015-2016)..... 201
9.8: Details of Domestic Electrical Energy Consumption (2012-2016)..... 201

CHAPTER 10: TOURISM 202
TABLE
10.1: Annual International Tourist Arrivals by Country and Region, Bhutan (2012-2016)..... 203
10.2: Tourist Arrivals by Country of Residence and Revenue Receipts, Bhutan, (2012-2016)..... 212
10.3: Number of Tourist Arrivals by Season and Month, Bhutan (2012-2016) 213
10.4: Percentage of Tourist Arrivals by Purpose of Visit, Bhutan, 2016..... 213
10.5: Total Number of Tourist Arrivals by Dzongkhag, 2016..... 214
10.6: Total Number of Accommodation Providers by Bed Nights by Dzongkhag, 2016 215
10.7: Percent of Top Ten Markets by Gender, Bhutan, 2016..... 216
10.8: Comparison of Top Ten Ranking of International Markets for the Year 2015 & 2016..... 216

CHAPTER 11: FOREIGN TRADE AND BALANCE OF PAYMENTS 217
TABLE
11.1: Balance of Trade, Bhutan, (2012-2016)..... 218
11.2: Top Ten Commodities of Exports, Bhutan, 2016..... 218
11.3: Top Ten Commodities of Imports, Bhutan, 2016 219
11.4: Country wise Import in Ranking Order, 2016..... 220
11.5: Country wise Export in Ranking Order, 2016 221
11.6: Overall Balance of Payments Estimates, Bhutan, FY 2011/12 to 2015/16..... 222
11.7: Gross International Reserves (End Period), Bhutan, 2011/12 to 2015/16..... 223
11.8: Monthly Average Exchange Rates, Ngultrum per US $, (2012-2016)..... 224

CHAPTER 12: MONEY, BANKING AND FINANCE..... 225

TABLE

12.1: Monetary Survey: Royal Monetary Authority, Bhutan National Bank, Bank of Bhutan, Bhutan Development Bank, Druk PNB Bank and T Bank (2012-2016) 226
12.2: Monetary and Financial Statistics of Royal Insurance Corporation of Bhutan (2012-2016)..... 227
12.3: Monetary and Financial Statistics of Bhutan National Bank Limited, (2012-2016)..... 228
12.4: Monetary and Financial Statistics of Bhutan Development Bank Limited, December (2012-2016)..... 229
12.5: Monetary and Financial Statistics of Royal Monetary Authority of Bhutan, (2012-2016)..... 230
12.6: Monetary and Financial Statistics, Bank of Bhutan Limited, (2012-2016)..... 231
12.7: Monetary and Financial Statistics of T-Bank Ltd, December (2012- 2016)..... 232
12.8: Monetary and Financial Statistics of Druk PNB Bank Ltd., December (2012-2016)..... 233
12.9: Monetary and Financial Statistics of Bhutan Insurance Limited, December (2012-2016)..... 234
12.10: Investments of Financial Institutions by Industry, Amounts Outstanding, (2012-2016) 235
12.11: Interest Rates of Deposits in Financial Institutions, (2012 – 2016)..... 239
12.12: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2014-2016)..... 240
12.13: Royal Securities Exchange of Bhutan Ltd. Number of Share Holders, at the End of December, (2012-2016)..... 243
12.14: Royal Securities Exchange of Bhutan Ltd. Market Information at the End of December, 2016 244
12.15: Royal Securities Exchange of Bhutan Ltd. Total Traded Volume at the End of December,(2012 - 2016)..... 245
12.16: Royal Securities Exchange of Bhutan Ltd. Traded Values, (2012 – 2016) 246
12.17: Dividend Declared by Company (2012-2016) 248
12.18: Bonus/Rights/Employee Stock Options (ESoP)/Off Market Transaction, (2012-2016) 249

CHAPTER 13: PUBLIC FINANCE 250
TABLE
13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2011/12 to 2015/16 251
13.2: Actual Annual Capital Expenditure of the Government by Agency for the FY 2011/12 to 2015/16 254
13.3: The Sector-wise Government Expenditures for the FY 2012/13 to 2015/16..... 256
13.4: Summary of National Revenue Collections by Source for the FY 2011/12 To 2015/16..... 257
13.5: Fiscal Framework of Government, Bhutan, 2011/12 to 2015/16..... 258
13.6: Revenue Collection by Sector, FY 2011/12 to 2015/16 259
13.7: Government Debt Stock & Debt Service, 2011/12 to 2015/2016 260

CHAPTER 14: PLAN OUTLAYS 261
TABLE
14.1: Tenth Plan Budgetary Outlay and Allocation, Bhutan (2008-2013) 262
14.2: Eleventh Plan Budgetary Outlay and Allocation, Bhutan (2013-2018)..... 264
14.3: Dzongkhag wise Ninth Five Year Plan Outlay, Bhutan (2002-2007) 266
14.4: Dzongkhag wise Tenth Five Year Plan Outlay, Bhutan (2008-2013)..... 267
14.5: Dzongkhag wise Eleventh Five Year Plan Outlay, Bhutan (2013-2018) 268
14.6: Indicative Capital Allocation to Gewogs, Eleventh Five Year Plan (2013-2018)..... 269

CHAPTER 15: NATIONAL ACCOUNTS..... 276
TABLE
15.1: GDP by Economic Activity at Current Prices (2012-2016)..... 277
15.2: Percentage Share of GDP by Economic Activity at Current Prices (2012-2016) 278
15.3: Sectoral Growth Rates of GDP in Constant Prices (2012-2016) 279
15.4: Gross Domestic Product by Major Economic Sectors in Current Prices (2012-2016)..... 280
15.5: Percentage Share of GDP by Major Sector in Current Prices (2012-2016)..... 280
15.6: Year on Year GDP Growth (2012-2016)..... 280
15.7: GDP by Expenditure at Current Prices (2012-2016)..... 281
15.8: GDP Share of Expenditure at Current Prices (2012-2016)..... 282

CHAPTER 16: PRICE 283
TABLE
16.1: Year on Year Inflation 284
16.2: Year-on-Year Percent Change by Group Level..... 284
16.3: Month-on-Month Index and Percent Change in the CPI by Overall Index 286
16.4: Month-on-Month Index & Percent Change by Domestic..... 287
16.5: Month-on-Month Index & Percent Change by Imported 288
16.6: Month-on-Month Index and Percent Change by Group Level..... 290

16.7: Monthly Producer Price Index (PPI) by Industry (September 2011=100) 294
16.8: Monthly Percentage Change in Producer Price Index (PPI) by Industry 294
16.9: Annual Percentage Change in Producer Price Index (PPI) by Industry 296
16.10: Monthly Producer Price Index (PPI) by Product 296
16.11: Monthly Percentage Change in Producer Price Index (PPI) by Product 298
16.12: Annual Percentage Change in Producer Price Index (PPI) by Product 298

CHAPTER 17: CRIME 301
TABLE
17.1: Number of Crime Incidents and Type of Offences by Dzongkhag, 2016..... 302
17.2: Monthly Motor Accident by Dzongkhag, 2016..... 304
17.3: Motor Vehicle Accident by Dzongkhag (2012-2016)..... 305
17.4: Motor Vehicle Accidents by Causes by Dzongkhags (2012-2016) 306
17.5: Number of Houses Destroyed by Fire by Dzongkhag (2012-2016) 310
17.6: Fines Imposed for Violation of Traffic Rules by Division (2012-2016..... 311

List of Dzongkhags, Gewogs and Chiwogs, Bhutan, 2015..... 312
Administrative Map

PREFACE

This Statistical Yearbook of Bhutan (SYB) 2017 publication is the 35th 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 2017. 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, 2016 and until June 2017.
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)

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

4. 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 2017, National Statistics Bureau.***
5. 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	=	102
Thousand	=	103
Million	=	106
Billion	=	109
Trillion	=	1012

A. Length Measurement

Metric Equivalents

10 mm	=	1 cm	mm	=	millimeter
10 cm	=	1 dm	cm	=	centimeter
10 dm	=	1 m	m	=	meter
10 m	=	1 dkm	dm	=	decimeter
10 dkm	=	1 hm	dkm	=	dekameter
10 hm	=	1 km	dkm	=	dekameter

Abbreviations

I. 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

II. 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

Degree Celsius to degree Fahrenheit.

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

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	779,666
Natural Population Growth Rate (percent), PHCB 2005	1.3
Average Household Size, (BMIS, 2010)	4.6
National Language	Dzongkha
National Currency	Ngultrum (Nu.)
Number of Hospitals, 2016	30
Number of Doctors, 2016	299
Number of Civil Servants, (as of 31st December 2016)	27,029
Number of Schools, Institutes and Centers, 2016	1,877
Number of Teachers, Lecturers, Instructors & Trainers, 2016	13,646
Number of Students (Including Institutes & NFE), 2016	255,648
Labour Force Participation Rate, (LFS 2015)	63.1
Unemployment Rate, (LFS 2015)	2.5
Telephone Sets in Use, 2016	21,081
B-Mobile Subscriber (Nos.), 2016	475,373
Tashicell Subscriber (Nos.), 2016	223,266
Postal Infrastructure (Nos.), 2016	116
Total Road Length (Km.), 2016	12,348.7
Number of Registered Vehicles, June 2017	88,227
Electricity Generation (MU), 2016	7,953.58
Electricity Exports (MU), 2016	5,763.13
Tourist Arrivals (dollar paying tourist), 2016	54,600
Revenue Earned from Tourism (million US $), 2016	73.74
Total Industrial Establishments, 2016	43,505
Balance of Trade (million Nu.), 2016	(32,102.00)
Exchange Rate (Calendar Year), Nu. Per US $, 2016	67.19
Gross International Money Reserves (million US $), 2015/16	1118.77
Total Eleventh Plan Budgetary Outlay (million Nu.) 2013-2018	213,291.46
GDP at Current Price (million Nu.), 2015/16	148,678.93
Annual Average Inflation Rate (percent), 2016	3.22
Purchasing Power of Nu. 2016 (Base Year =2012)	80.01

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

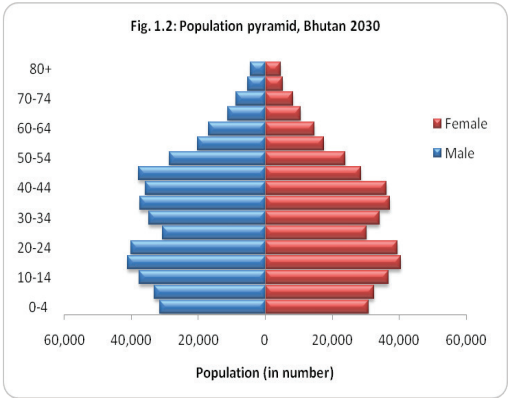
The Monastic Body comprises of the Central Monastic Body and the Rabdeys (Dzongkhag Monastic Body). The Central Monastic Body receives annual subsidy from the Government to manage and run its day to day affairs. The Monastic Body is the sole arbiter on religious matters. The Je-Khenpo (Chief Abbot) is 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.

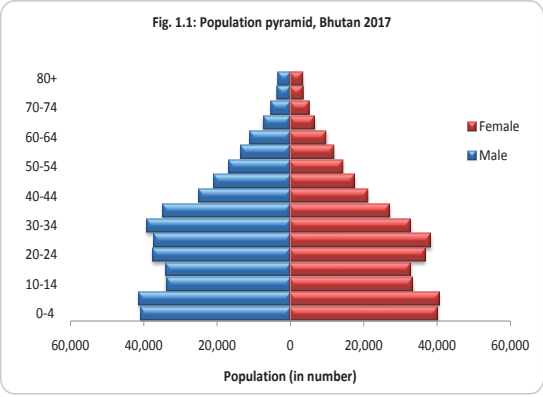
The Je-Khenpo is assisted by five high-ranking Lopens (Masters) viz. Dorji Lopen acts as Deputy Je-Khenpo and the Chief of all Lopens (Masters), Yangbi Lopen *heads the liturgical division inclusive of Sacred Dances, Rituals Arts, and Metrical Ryhme, Drabi Lopen heads Lexicographical division that includes 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 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 divorces).





The Statistics presented in this chapter are from the Population and Housing Census of Bhutan 2005. The actual resident population enumerated as of 30th and 31st May 2005 is 634,982 persons out of which 333,595 persons are male and 301,387 are females. The urban population consists of 196,111 persons while 438,871 are in the rural areas. Based on the exponential growth rate of 1.8% derived from population projections (2005-2030), the population for 2016 and 2017 were projected at 768,577 and 779,666 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: Projected Population by Sex, Bhutan (2010 - 2030)

Year	Persons			Percent		
	Male	Female	Total	Male	Female	Total
2010	363,383	332,439	695,822	52.2	47.8	100
2011	369,476	338,789	708,265	52.2	47.8	100
2012	375,554	345,125	720,679	52.1	47.9	100
2013	381,582	351,422	733,004	52.1	47.9	100
2014	387,520	357,633	745,153	52.0	48.0	100
2015	393,324	363,718	757,042	52.0	48.0	100
2016	398,948	369,629	768,577	51.9	48.1	100
2017	404,347	375,319	779,666	51.9	48.1	100
2018	409,474	380,741	790,215	51.8	48.2	100
2019	414,293	385,861	800,154	51.8	48.2	100
2020	418,760	390,637	809,397	51.7	48.3	100
2021	423,085	395,285	818,370	51.7	48.3	100
2022	427,250	399,788	827,038	51.7	48.3	100
2023	431,247	404,132	835,379	51.6	48.4	100
2024	435,058	408,305	843,363	51.6	48.4	100
2025	438,679	412,297	850,976	51.6	48.4	100
2026	442,200	416,210	858,410	51.5	48.5	100
2027	445,626	420,036	865,662	51.5	48.5	100
2028	448,965	423,794	872,759	51.4	48.6	100
2029	452,224	427,483	879,707	51.4	48.6	100
2030	455,409	431,114	886,523	51.4	48.6	100

Source: Population Projections of Bhutan, 2005-2030, NSB

Table 1.2: Projected Population by Age Group and Sex, Bhutan (2016 - 2017)

(Numbers)

Age group	2016			2017		
	Male	Female	Total	Male	Female	Total
0-4	41,354	40,687	82,041	40,804	40,140	80,944
5-9	40,975	40,238	81,213	41,310	40,567	81,877
10-14	32,292	31,898	64,190	33,765	33,485	67,250
15-19	34,530	33,706	68,236	33,839	32,854	66,693
20-24	38,010	37,406	75,416	37,432	36,780	74,212
25-29	36,881	37,916	74,797	37,162	38,233	75,395
30-34	39,641	31,172	70,813	39,063	32,761	71,824
35-39	32,706	26,320	59,026	34,808	27,033	61,841
40-44	23,553	19,989	43,542	24,922	21,217	46,139
45-49	20,606	17,279	37,885	20,814	17,499	38,313
50-54	15,633	13,620	29,253	16,607	14,326	30,933
55-59	13,477	11,861	25,338	13,499	11,942	25,441
60-64	10,425	9,419	19,844	10,940	9,854	20,794
65-69	7,012	6,431	13,443	7,351	6,767	14,118
70-74	5,153	5,085	10,238	5,171	5,055	10,226
75-79	3,430	3,329	6,759	3,504	3,462	6,966
80+	3,270	3,273	6,543	3,356	3,344	6,700
Total	**398,948**	**369,629**	**768,577**	**404,347**	**375,319**	**779,666**

Source: Population Projections of Bhutan, 2005-2030, NSB

Table 1.3: Crude Birth Rate by Area and Dzongkhag, 2005

Dzongkhag	Urban	Rural	Both
Bumthang	21.2	16.5	17.7
Chhukha	16.6	16.9	16.8
Dagana	18.6	24.5	23.8
Gasa	24.9	22.8	23.1
Haa	16.4	17.9	17.6
Lhuentse	13.6	21.6	20.9
Monggar	19.6	23.1	22.4
Paro	20.5	16.5	16.8
Pema Gatshel	23.9	17.3	18.3
Punakha	12.7	20.5	19.8
Samdrup Jongkhar	28.5	18.4	21.4
Samtse	21.2	19.4	19.7
Sarpang	20.9	17.2	19.5
Thimphu	19.1	17.2	19.8
Trashi Yangtse	21.5	24.5	24.0
Trashigang	21.5	21.8	21.3
Trongsa	19.3	24.5	21.8
Tsirang	32.4	19.4	20.6
Wangdue Phodrang	23.3	20.1	20.9
Zhemgang	14.8	21.5	20.3
Bhutan	**19.6**	**19.8**	**19.7**

Source: Socio-Economic and Demographic Indicators 2005, NSB

Table 1.4: General Fertility Rate (GFR), General Marital Fertility Rate (GMFR) and Total Fertility Rate (TFR) by Area and Dzongkhag, 2005

Dzongkhag	GFR (per 1000 women)			GMFR (per 1000 women)			TFR (per women)		
	Urban	Rural	Both	Urban	Rural	Both	Urban	Rural	Both
Bumthang	89.9	73.0	77.5	142.9	133.9	136.6	2.6	2.4	2.5
Chhukha	58.7	81.2	69.5	95.7	118.0	107.1	1.7	2.5	2.1
Dagana	68.1	100.9	96.5	144.5	140.5	140.8	3.0	3.2	3.1
Gasa	116.3	100.3	102.3	172.4	148.7	151.6	2.7	3.1	3.1
Haa	56.2	78.6	72.8	125.4	117.6	119.1	2.5	2.5	2.5
Lhuentse	52.9	94.0	89.7	103.6	146.7	143.0	2.1	3.2	3.1
Monggar	69.5	95.5	89.9	139.6	145.0	144.0	2.5	3.1	3.0
Paro	82.9	64.2	65.6	134.2	117.3	118.7	2.2	2.1	2.1
Pema Gatshel	95.9	74.3	77.7	173.6	121.0	128.6	3.4	2.7	2.8
Punakha	39.8	84.0	78.5	127.2	139.6	138.8	1.8	2.8	2.7
Samdrup Jongkhar	112.1	77.5	88.1	150.0	112.6	124.7	2.9	2.6	2.8
Samtse	72.2	78.1	77.0	111.2	115.2	114.4	2.0	2.4	2.3
Sarpang	78.0	76.5	77.0	117.1	107.4	110.5	2.2	2.3	2.3
Thimphu	68.9	79.6	70.2	119.8	126.3	120.7	2.0	2.4	2.0
Trashigang	64.3	91.1	86.8	146.3	138.8	139.7	2.4	3.1	3.0
Trashi Yangtse	78.9	107.1	101.5	171.5	164.2	165.3	3.1	3.7	3.5
Trongsa	77.6	96.5	92.5	123.8	162.7	154.1	2.3	3.1	3.0
Tsirang	114.6	78.0	81.7	166.2	118.0	123.0	3.2	2.6	2.7
Wangdue Phodrang	97.2	83.4	86.7	146.3	137.2	139.6	2.9	2.8	2.8
Zhemgang	54.6	95.3	86.8	112.1	140.2	135.7	2.0	3.2	3.0
Bhutan	**71.5**	**83.5**	**79.4**	**121.7**	**19.8**	**19.7**	**2.1**	**2.7**	**2.5**

Source: Socio-Economic and Demographic Indicators 2005, NSB

Table 1.5: Age Specific Fertility Rate (Per 1000 Women) by Age Group and Dzongkhag, 2005

Dzongkhag	15-19	20-24	25-29	30-34	35-39	40-44	45-49
Bumthang	26.7	134.3	138.0	103.3	63.1	27.4	9.4
Chhukha	32.8	121.0	114.0	69.6	39.3	28.8	6.2
Dagana	58.7	193.5	138.3	114.4	64.0	45.8	11.8
Gasa	37.3	240.3	138.5	106.8	54.1	49.2	0.0
Haa	28.1	144.4	147.7	74.9	40.9	47.8	8.4
Lhuentse	37.9	193.8	137.4	103.4	89.4	37.0	14.7
Monggar	44.4	153.4	172.4	108.7	70.2	35.5	11.2
Paro	22.0	107.2	129.3	86.7	45.8	19.5	7.0
Pema Gatshel	28.2	169.2	139.3	88.5	75.2	48.2	10.1
Punakha	29.0	149.2	145.1	115.6	65.9	35.6	7.3
Samdrup Jongkhar	45.1	161.8	146.6	99.4	52.5	40.2	15.4
Samtse	50.5	138.1	131.7	73.0	40.2	23.7	9.2
Sarpang	45.6	147.9	135.0	74.8	34.6	10.9	7.7
Thimphu	22.4	101.3	139.9	74.9	41.3	19.6	6.0
Trashigang	35.9	151.6	168.2	100.4	73.0	46.5	14.8
Trashi Yangtse	38.7	182.8	190.9	138.8	92.5	50.1	9.6
Trongsa	55.5	168.5	147.2	97.7	72.8	33.9	21.9
Tsirang	48.3	148.2	145.4	89.2	59.4	27.0	13.7
Wangdue Phodrang	35.3	168.1	151.7	107.3	65.5	24.6	4.6
Zhemgang	39.2	170.2	153.1	103.0	64.7	51.8	16.6
Urban	22.1	115.3	138.8	78.1	39.5	18.8	7.1
Rural	44.9	154.4	143.2	95.3	61.3	35.3	10.7
Bhutan	**36.5**	**138.9**	**141.6**	**89.4**	**54.5**	**31.3**	**9.9**

Source: Socio-Economic and Demographic Indicators 2005, NSB

Table 1.6: Crude Death Rate (CDR) by Area and Dzongkhag, 2005

Dzongkhag	Urban	Rural	Both
Bumthang	5.5	7.3	6.8
Chhukha	5.6	7.5	6.6
Dagana	4.8	7.9	7.5
Gasa	12.4	11.4	11.6
Haa	4.4	8.1	7.3
Lhuentse	2.7	8.9	8.3
Monggar	4.1	8.6	7.7
Paro	10.9	6.5	6.9
Pema Gatshel	3.9	8.6	7.9
Punakha	4.8	8.0	7.7
Samdrup Jongkhar	5.9	6.5	6.3
Samtse	8.2	7.7	7.8
Sarpang	4.1	5.9	5.3
Thimphu	5.3	8.3	5.7
Trashigang	3.7	9.4	8.6
Trashi Yangtse	8.6	9.4	9.2
Trongsa	1.9	9.1	7.7
Tsirang	4.8	6.9	6.7
Wangdue Phodrang	5.6	8.3	7.7
Zhemgang	3.0	7.2	6.4
Bhutan	**5.3**	**7.9**	**7.1**

Source: Socio-Economic and Demographic Indicators 2005, NSB

Table 1.7: Natural Population Growth Rate by Area and Dzongkhag, 2005

Dzongkhag	Urban	Rural	Both
Bumthang	1.6	0.9	1.1
Chhukha	1.1	0.9	1.0
Dagana	1.4	1.7	1.6
Gasa	1.3	1.1	1.2
Haa	1.2	1.0	1.0
Lhuentse	1.1	1.3	1.3
Monggar	1.6	1.5	1.5
Paro	1.0	1.0	1.0
Pema Gatshel	2.0	0.9	1.0
Punakha	0.8	1.3	1.2
Samdrup Jongkhar	2.3	1.2	1.5
Samtse	1.3	1.2	1.2
Sarpang	1.7	1.3	1.4
Thimphu	1.4	0.9	1.3
Trashigang	1.4	1.2	1.3
Trashi Yangtse	1.3	1.5	1.5
Trongsa	1.7	1.3	1.4
Tsirang	2.8	1.3	1.4
Wangdue Phodrang	1.8	1.2	1.3
Zhemgang	1.2	1.4	1.4
Bhutan	**1.4**	**1.2**	**1.3**

Source: Socio-Economic and Demographic Indicators 2005, NSB

Table 1.8: Infant Mortality (IMR), Child Mortality Rate (CMR) and Under 5 Mortality Rate (U5MR) by Dzongkhag, 2005

Dzongkhag	IMR (< 1 yr)	CMR (1-4 yr)	U5MR (< 5 yr)
Bumthang	28.1	10.5	38.6
Chhukha	30.4	58.5	88.9
Dagana	46.3	25.9	72.2
Gasa	0.0	13.9	13.9
Haa	14.6	39.0	53.7
Lhuentse	49.8	12.5	62.3
Monggar	50.5	20.4	70.9
Paro	21.2	6.5	27.7
Pema Gatshel	36.8	12.3	49.0
Punakha	28.0	6.5	34.5
Samdrup Jongkhar	69.1	18.0	87.0
Samtse	33.8	22.8	56.7
Sarpang	51.0	22.1	73.1
Thimphu	30.8	13.7	44.5
Trashigang	64.5	24.1	88.6
Trashi Yangtse	30.5	11.7	42.3
Trongsa	41.1	3.4	44.5
Tsirang	23.4	13.0	36.5
Wangdue Phodrang	53.8	18.5	72.3
Zhemgang	34.4	23.8	58.2
Bhutan	**40.1**	**21.5**	**61.6**

Source: Socio-Economic and Demographic Indicators 2005, NSB

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, (2012-2016)

(Numbers)

Facilities	2012	2013	2014	2015	2016
Number of Hospitals [1]	32.0	32.0	31.0	31.0	30.0
Number of Basic Health Units [2]	192.0	205.0	206.0	207.0	210.0
Number of Outreach Clinics [3]	550 3	519.0	562.0	562.0	553.0
Number of Indigenous Units	48.0	49.0	52.0	54.0	59.0
Number of Sub-post	...	23.0	28.0	28.0	49.0
Persons per doctor	3,753.5	3,670.0	3,053.9	3,016.1	2,570.5
Ratio of beds per nurse	1.7	1.6	1.3	1.2	1.1
Ratio of nurses per doctor	3.8	3.9	3.9	4.3	4.0
Doctors per (10,000) persons	2.7	2.8	3.3	3.3	3.9
Nurses per (10,000) persons	10.2	10.7	12.8	14.1	15.4
Pharmacists per (10,000) persons	0.2	0.1	0.2	0.2	0.3
HA/BHW per (10,000) persons	8.0	8.3	8.5	8.5	8.6
Dungtshos per (10,000) persons	1.0	0.5	0.6	0.6	0.7
sMempas per (10,000) persons	1.0	1.1	1.2	1.3	1.4
Persons per hospital bed	564.4	574.0	583.5	592.8	601.9
Number of hospital beds available	1,277.0	1,277.0	1,277.0	1,277.0	1,277.0
Hospital bed per 10,000 persons	17.7	17.4	17.0	16.9	16.6
Distribution of health facilities per (10,000) persons	3.1	3.2	3.5	3.5	3.5
Proportion of population within 3 hrs walking distance of a health facility (%)	>90	>90	>90	>90	>90
Population access to safe drinking water (%)	94.0	95.5	95.0	95.0	95.0
Deliveries attended by trained personnel(%)	81.0	89.0	89.0	89.0	89.0

Note: [1] Indigenous hospital included under hospital

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

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

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.2: Type of Health Facilities by Dzongkhag, Bhutan, 2016

(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	13	0
Chhukha	3	2	13	1	4	39	6
Dagana	1	2	7	0	3	29	4
Gasa	0	1	3	1	1	4	1
Haa	1	1	4	2	3	7	10
Lhuntse	1	0	14	0	2	30	2
Monggar	1	1	22	5	5	52	0
Paro	1	0	3	3	1	17	5
Pema Gatshel	1	1	11	7	4	32	4
Punakha	1	0	7	1	1	10	0
Samdrup Jongkhar	2	3	7	3	5	28	4
Samtse	2	1	13	5	4	43	5
Sarpang	1	2	10	2	2	11	2
Thimphu	5	1	12	0	2	4	13
Trashigang	1	1	7	2	2	22	2
Trashi Yangtse	3	5	14	4	6	50	2
Trongsa	1	0	6	4	3	19	0
Tsirang	1	0	7	0	1	14	6
Wangdue Phodrang	2	2	9	5	3	22	6
Zhemgang	1	2	11	4	4	30	5
Total	30	25	185	49	59	476	77

Note: Indigenous hospital included under hospital and Satellite Clinic included under BHU
Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.3: Health Personnel by Category, Bhutan, (2012-2016)

(Numbers)

Health personnel	2012	2013	2014	2015	2016
Doctors (MBBS/Specialists) [1]	194	203	244	251	299
Assistant Clinical Officers (ACO)	39	38	36	35	30
Nurses (Assistant Nurse/GNM/B.Sc. Nurse)	736	799	957	1,070	1,185
Health Assistants	416	455	514	548	592
Basic Health Workers	162	153	118	95	62
Drungtshos (Indigenous Physicians)	35	35	46	47	54
sMenpas (Sowa Menpas)	63	82	90	100	105
Pharmacists	11	9	14	15	23
Medical Lab. Technologists	27	22	20	38	51
Physiotherapists	10	10	12	12	18
Technicians	780	738	884	900	945

Note: [1]Includes all medical doctors registered and certified by the Bhutan Medical and Health Council. Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.4: Top Ten Morbidity, Bhutan, 2016

(Numbers)

Diseases	2016
Common Cold	286,106
Other Disorders of Skin & Subcutaneous tissue	108,906
Other Diseases of the Digestive System	103,926
Other Musculo-Skeletal Disorders	98,961
Skin Infections	92,004
Acute Pharyngitis/Tonsilitis	77,117
ANC, Immunization & Other Counselling	73,698
Other Nervous including Peripheral Disorders	68,223
Peptic Ulcer Syndrome	63,583
Other Respiratory and Nose Diseases	63,362

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.5: Top Ten Inpatient Hospital Mortality, Bhutan, 2016

(Numbers)

Diseases	2016
Alcohol Liver Diseases	190
Other Circulatory Diseases	154
Other Sepsis (including Septicaemia)	104
Other Cancers	96
Other Respiratory & Nose Diseases	90
Pneumonia	88
Other Kidney, UT/ Genital Disorders	78
Foetal Death & Stillbirth	54
Conditions Originating in the Perinatal Period	49
Other Diseases of the Digestive System	44

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.6: Total Morbidity by sex, Bhutan, 2016

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Infections				
Diarrhoea	1,976	1,834	5,681	4,911
Dysentery	137	143	534	525
Tuberculosis	4	1	1	2
Other Sepsis (including Septicaemia)	72	73	81	62
Congenital Syphillis	4	1	0	0
Genital Ulcer	0	0	2	1
Syphilis	0	0	...	...
Urethal/Vaginal Discharges	0	0	3	2
Other Sexually Transmitted Disease, excluding HIV/ AIDS	1	1	1	2
Rickettsial Disease	10	12	31	26
Viral, Protozoal & Helminthic disease				
Chicken Pox	24	32	179	151
Acute Hepatitis A	4	0	3	5
Acute Hepatitis B	1	0	0	0
Other Acute Hepatitis (includes Hepatitis C & E)	2	3	2	0
Plasmodium falciparum malaria	0	0	0	1
Plasmodium Vivax Malaria	0	0	1	0
Other Malaria	0	0	0	0
Visceral Leishmaniasis (Kala-azar)	2	0	2	1
Intestinal Worms	46	60	219	213
Scabies	61	88	356	318
Streptococcus Group A	3	5	20	23
Other Infections (excluding ear, brain, STI)	289	282	759	744
Neoplasm				
Oesophagus Cancer	0	0	0	0
Stomach/ Gastric Cancer	0	0	0	0
Colon Cancer	0	0	0	0
Rectal Cancer	0	0	0	0
Hepato-Biliary Cancer	0	0	0	0
Pancreatic Cancer	0	0	0	0

(Numbers)

	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
	M	F	M	F	M	F	M	F	
	7,041	6,144	9,378	8,643	1,273	1,310	1,576	1,769	51,536
	820	747	2,174	1,948	382	343	427	410	8,590
	24	20	346	420	87	55	107	76	1,143
	41	57	105	143	25	35	53	54	801
	0	0	0	0	0	0	0	0	5
	6	5	96	78	8	10	9	4	219
	0	0	69	53	9	16	5	5	157
	16	22	1,177	1,804	68	184	20	53	3,349
	4	9	669	711	142	151	81	101	1,873
	57	49	186	161	32	28	31	42	665
	968	826	305	240	8	5	3	7	2,748
	16	19	46	35	2	9	5	2	146
	0	1	73	48	12	7	9	11	162
	21	28	88	97	26	15	29	21	332
	1	0	11	2	0	0	1	2	18
	3	1	23	7	4	1	1	...	41
	1	4	15	1	1	0	1	1	24
	1	6	15	20	2	1	2	1	53
	716	675	1,611	1,647	326	321	241	202	6,277
	2,368	1,850	2,246	1,815	212	203	243	177	9,937
	57	50	282	317	87	37	25	20	926
	1,584	1,557	2,896	3,256	487	417	411	398	13,080
	0	0	0	0	0	0	16	7	23
	0	0	10	7	17	7	52	34	127
	0	0	0	1	1	7	6	2	17
	0	0	2	11	1	2	10	9	35
	0	0	0	1	1	0	3	2	7
	0	0	1	0	0	0	1	0	2

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Breast Cancer	0	0	0	0
Cervical Cancer	0	0	0	0
Other Cancers	0	0	2	1
Blood diseases				
Neoplasm (benign + CIS)	2	0	6	8
Nutritional Anaemia	40	33	173	186
Blood & Immune Disorders	9	7	18	24
Endocrine, Metabolic & Nutritional				
Diabetes	0	0	0	1
Malnutrition (exclude child clinic attendance)	7	8	21	24
Other Nutritional & Metabolic Disorders	34	35	102	113
Mental disorders				
Dementia	0	0	0	0
Mental and behavioral disorder due to alcohol	0	0	0	0
Mental and behavioral disorder due to multiple drug use & other use of psychoactive substances	0	0	0	0
Psychosis	0	0	0	0
Depression	0	0	0	0
Anxiety	0	0	0	1
Other Mental Disorders	1	0	4	6
Disease of Nervous system				
Meningitis/Encephalitis	46	32	24	20
Epilepsy	22	10	52	34
Other Nervous inlcuding Peripheral Disorders	93	105	443	443
Eye & Ear Diseases				
Conjunctivitis	437	413	825	812
CataractB	4	1	6	3
Disorders of Refraction & Accommodation (Refractive Error in the Eye)	10	15	44	39
Other Eye Disorders	442	450	917	943
Otitis Media	257	230	791	744
Other Ear Disorders	122	157	675	760

	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
	M	F	M	F	M	F	M	F	
	0	0	0	16	0	5	0	10	31
	0	0	0	44	0	23	0	28	95
	17	12	40	173	29	63	130	125	592
	5	17	55	207	12	33	76	37	458
	447	723	2,690	6,951	846	1,119	863	1,069	15,140
	57	50	232	386	46	65	70	76	1,040
	0	0	2,207	2,785	1,748	1,748	1,683	1,946	12,118
	25	28	73	64	17	20	16	20	323
	375	399	980	1,335	242	273	251	269	4,408
	0	0	6	5	...	5	3	2	21
	2	3	563	246	92	44	51	22	1,023
	4	1	202	49	15	5	4	2	282
	4	2	131	136	7	18	6	14	318
	4	8	184	336	46	64	45	56	743
	9	8	454	807	222	302	143	195	2,141
	17	55	476	893	76	76	52	67	1,723
	15	23	24	26	4	2	4	2	222
	121	81	523	493	64	43	48	44	1,535
	3,728	4,220	15,615	29,359	2,938	4,131	3,125	4,023	68,223
	2,401	2,429	6,102	7,325	1,140	1,221	1,364	1,723	26,192
	10	11	57	77	68	61	262	279	839
	113	124	311	396	112	87	106	126	1,483
	3,675	4,125	11,093	15,606	2,490	3,284	3,980	4,710	51,715
	2,045	1,735	2,501	2,646	299	281	268	309	12,106
	2,393	2,391	3,939	4,332	589	510	600	509	16,977

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Diseases of Circulatory System				
Rheumatic Heart Disease	2	2	3	1
Hypertension	0	0	0	0
Ischaemic Heart Diseases	0	0	0	0
Cerebro-vascular Diseases	0	0	0	0
Bubo	0	0	0	0
Other Circulatory Diseases	51	65	80	71
Respiratory diseases				
Common Cold	8,639	8,820	22,237	22,032
Acute Pharyngitis/Tonsilitis	526	645	2,736	2,791
Pneumonia	1,524	1,466	2,680	2,464
Asthma	24	38	63	60
Other Respiratory & Nose Diseases	1,933	1,678	3,390	3,097
Diseases of the Digestive system				
Diseases of Teeth & Gums	52	48	514	434
Dental Caries	0	0	999	1,015
Peptic Ulcer Syndrome	12	13	228	220
Acute AppendicitisB	1	0	14	5
Alcohol Liver Diseases	0	0	0	0
Gall Bladder Diseases	1	1	2	3
Other Diseases of the Digestive System	909	943	3,643	3,812
Diseases of the Skin and Subcutaneous Tissue				
Skin Infections	1,648	1,498	5,905	5,584
Other Disorders of Skin & Subcutaneous-tissues	2,121	2,056	6,338	6,075
Diseases of Musculo-skeletal system & Cogenital Deformities				
Arthritis & Arthrosis	4	1	23	20
Other Musculo-skeletal disorders	46	53	430	387
Genito-Urinary diseases				
CystitisB	15	9	27	39
Infection of Breast, including Puerperium	0	0	0	0
Other Disease of the Breast	1	0	0	1
Pelvic Inflammatory DiseaseB	0	0	0	0
Menstrual Disturbances	0	0	0	0
Other Kidney, UT/ Genital Disorders	70	65	512	519

	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
	M	F	M	F	M	F	M	F	
	15	16	199	245	119	115	118	84	919
	16	21	5,309	7,174	3,673	4,069	4,841	5,127	30,230
	2	0	48	65	54	32	84	66	351
	1	0	55	40	47	32	144	94	413
	1	0	34	25	22	9	16	19	126
	377	426	1,679	2,504	532	572	857	874	8,088
	35,928	36,930	55,288	63,728	8,062	7,896	8,285	8,261	286,106
	9,526	11,574	17,861	23,552	2,213	2,145	1,674	1,874	77,117
	708	583	480	514	110	125	238	263	11,155
	72	68	197	373	135	197	301	311	1,839
	6,321	6,284	13,035	16,024	2,476	2,383	3,315	3,426	63,362
	2,791	3,094	5,683	6,636	1,152	1,054	1,056	923	23,437
	5,940	6,276	11,338	14,877	2,204	2,161	2,375	2,083	49,268
	2,068	2,906	18,954	24,098	3,614	4,064	3,168	4,238	63,583
	70	54	347	287	55	49	78	82	1,042
	9	15	1,308	729	430	313	411	292	3,507
	15	17	215	493	76	125	86	118	1,152
	9,298	10,414	24,458	32,033	4,368	4,370	4,651	5,027	103,926
	14,578	12,941	21,321	18,966	2,697	2,283	2,547	2,036	92,004
	13,837	13,127	25,107	26,554	3,535	3,248	3,655	3,253	108,906
	235	174	2,759	2,883	1,045	1,102	1,165	1,161	10,572
	3,532	3,492	29,543	31,531	7,271	7,257	7,781	7,638	98,961
	54	87	559	1,575	113	133	122	173	2,906
	0	2	0	489	0	14	0	4	509
	7	103	48	1,566	12	83	6	44	1,871
	0	9	0	852	0	146	0	61	1,068
	0	139	0	4,046	0	321	0	109	4,615
	1,202	1,547	7,580	22,609	1,635	2,511	1,592	1,765	41,607

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Pregnancy, Childbirth and Puerperium				
Abortions	0	0	0	0
Pregnancy Induced Hypertension	0	0	0	0
Ante-Partum Haemorrhage & Placenta Previa	0	0	0	0
Malpresentation	0	0	0	0
Prolonged Labour	0	0	0	0
Obstructed Labour	0	0	0	0
Post Partum Haemorrhage	0	0	0	0
Retained Placenta	0	0	0	0
Puerperal Sepsis	0	0	0	0
Other complications of pregnancy	0	0	0	0
Certain Conditions Originating in the Perinatal Period				
Low Birth Weight	192	138	0	0
Foetal Death & Stillbirth	25	29	0	0
Neonatal Death	10	3	0	0
Conditions Orginating in the Perinatal Period	1,524	1,287	0	0
Congenital Malformations, Deformations and Chromosomal Abnormalities				
Oro-facial Clefts	16	11	0	0
Gastrointestinal Tract defects	1	0	3	1
Talipes Equinovarus	2	1	0	0
Omphalocele	5	1	0	0
Other Malformations	60	50	61	43
Injury, Poisoning and certain other consequences of External Causes				
Mushroom Poisoning (Toxic effect of other unspecified susbstances)	0	0	10	10
Transport Accidents	5	4	53	40
Accidental Falls	29	40	445	288
Other Bites & Stings (excluding Dog bite)	19	21	245	203
Dog Bites	8	16	376	274
Drowning & Submersion	1	0	3	5
Exposure to Electric Current	0	0	9	1
Contact with Heat & Hot substances & exposure to smoke, fire, flames	31	39	282	231
Snake Bite	1	5	2	3

	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
	M	F	M	F	M	F	M	F	
	0	1	0	1,485	0	0	0	0	1,486
	0	1	0	580	0	0	0	0	581
	0	1	0	140	0	0	0	0	141
	0	0	0	81	0	0	0	0	81
	0	0	0	256	0	0	0	0	256
	0	0	0	76	0	0	0	0	76
	0	0	0	115	0	0	0	0	115
	0	0	0	82	0	0	0	0	82
	0	0	0	83	0	0	0	0	83
	0	6	0	7,832	0	0	0	0	7,838
	0	0	0	0	0	0	0	0	330
	0	0	0	0	0	0	0	0	54
	0	0	0	0	0	0	0	0	13
	0	0	0	0	0	0	0	0	2,811
	0	0	0	0	0	0	0	0	27
	0	0	0	0	0	0	0	0	5
	0	0	0	0	0	0	0	0	3
	0	0	0	0	0	0	0	0	6
	41	27	30	46	7	2	1	2	370
	24	25	117	107	17	13	11	6	340
	223	175	1,586	791	217	109	139	77	3,419
	1,613	817	2,947	1,713	461	392	501	420	9,666
	700	553	1,273	1,356	277	207	238	199	5,291
	1,358	949	2,184	1,542	360	266	330	252	7,915
	11	11	26	27	5	5	5	...	99
	6	4	64	13	3	1	5	...	106
	345	238	600	572	73	70	70	54	2,605
	15	9	119	73	28	13	18	8	294

cont...

Table 2.6 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Contact with Venomous animals (excluding Snake bite)	1	1	17	13
Accidental Poisoning by and Exposure to Noxious Substances	1	1	11	7
Intentional Self-harm by Poisoning	0	0	0	3
Intentional Self-harm by Drowning & Submersion	0	0	0	0
Assault by Poisoning (includes homicidal poisoning)	0	0	1	0
Assault by Drowning and Submersion	0	0	0	0
Other Intentional Self-harm	0	0	3	3
Work Related Injuries	27	26	381	259
Others (injuries other than above & unknown cause of injury)	52	67	884	649
Other Conditions				
Complications of Health Care	17	26	33	39
ANC, Immunisation & Other Counselling	2,206	2,496	3,758	3,726
Total	**25,974**	**25,694**	**68,379**	**65,577**
Total Old Cases all Causes	**1,227,727**			

Source: Annual Health Bulletin 2015, MoH, Thimphu.

	5 – 14 Yrs		15 – 49 Yrs		50 - 59 Yrs		60 + Yrs		Total
	M	F	M	F	M	F	M	F	
	24	17	84	40	13	7	9	7	233
	7	2	31	34	7	5	7	3	116
	3	2	52	79	4	3	1	3	150
	4	1	7	17	0	1	0	0	30
	2	1	20	18	1	5	1	2	51
	0	2	5	7	2	0	0	1	17
	24	10	188	130	15	13	14	4	404
	3,260	1,824	14,992	6,823	2,155	1,193	1,528	863	33,331
	3,934	2,118	7,815	4,416	978	642	790	503	22,848
	100	66	264	497	52	39	36	34	1,203
	2,258	2,511	28,053	24,053	1,171	1,386	1,061	1,019	73,698
	149,767	**148,185**	**374,144**	**453,711**	**65,811**	**67,828**	**69,849**	**71,936**	**1,586,855**

Table 2.7: Inpatient Cases in all Hospitals, Bhutan, 2016

Indicators	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Infections				
Diarrhoea	123	89	241	222
Dysentery	11	9	23	20
Tuberculosis	1	1	1	1
Other Sepsis (including Septicaemia)	70	70	78	55
Congenital Syphillis	4	1	0	0
Genital Ulcer	0	0	0	0
Syphilis	0	0	0	0
Urethal/Vaginal Discharges	0	0	0	0
Other Sexually Transmitted Disease, excluding HIV/AIDS	1	1	1	0
Rickettsial Disease	7	8	22	19
Viral, Protozoal & Helminthic disease				
Chicken Pox	3	2	4	2
Acute Hepatitis A	2	0	0	1
Acute Hepatitis B	0	0	0	0
Other Acute Hepatitis (includes Hepatitis C & E)	0	1	1	...
Plasmodium falciparum malaria	0	0	0	0
Plasmodium Vivax malaria	0	0	1	0
Other Malaria	0	0	0	0
Visceral Leishmaniasis (Kala-azar)	1	0	1	1
Intestinal Worms	0	0	3	2
Scabies	2	8	4	7
Streptococcus Group A	0	1	0	0
Other Infections (excluding ear, brain, STI)	133	98	117	106
Neoplasm				
Oesophagus Cancer	0	0	0	0
Stomach/ Gastric Cancer	0	0	0	0
Colon Cancer	0	0	0	0
Rectal Cancer	0	0	0	0
Hepato-Biliary Cancer	0	0	0	0
Pancreatic Cancer	0	0	0	0
Breast Cancer	0	0	0	0

(Numbers)

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F		
	202	171	356	382	59	78	78	177	2,178	1
	21	18	54	50	8	7	21	19	261	1
	18	12	209	273	36	18	57	38	665	27
	39	46	75	118	18	30	49	51	699	104
	0	0	0	0	0	0	0	0	5	0
	0	0	0	1	0	0	1	0	2	0
	0	0	5	3	0	1	0	0	9	0
	0	0	18	24	1	0	0	0	43	0
	2	1	4	11	1	1	0	0	23	0
	43	38	122	119	25	23	27	39	492	2
	20	15	16	8	0	0	0	1	71	0
	7	9	6	7	0	3	2	0	37	1
	0	0	27	12	2	0	2	2	45	1
	13	17	55	56	12	9	17	13	194	1
	1	0	7	2	0	0	0	2	12	0
	1	1	16	5	2	1	1	0	28	0
	1	0	11	1	1	0	1	0	15	0
	1	0	6	1	1	0	0	0	12	0
	2	7	9	16	6	5	0	1	51	1
	17	10	6	7	0	0	1	0	62	0
	0	0	0	0	0	0	0	0	1	0
	131	112	384	415	54	60	61	75	1,746	22
	0	0	0	0	0	0	16	7	23	7
	0	0	9	7	17	7	52	33	125	8
	0	0	0	1	1	7	6	2	17	4
	0	0	2	11	1	2	10	9	35	3
	0	0	0	1	1	0	3	2	7	3
	0	0	1	0	0	0	1	0	2	0
	0	0	0	15	0	5	0	10	30	0

cont...

Table 2.7 cont...

Indicators	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Cervical Cancer	0	0	0	0
Other Cancers	0	0	1	1
Blood diseases				
Neoplasm (benign + CIS)	1	0	1	0
Nutritional Anaemia	13	11	35	29
Blood & Immune Disorders	9	5	6	4
Endocrine, Metabolic & Nutritional				
Diabetes	0	0	0	0
Malnutrition (exclude child clinic attendance)	4	2	10	14
Other Nutritional & Metabolic Disorders	15	12	10	1
Mental disorders				
Dementia	0	0	0	0
Mental and behavioral disorder due to alcohol	0	0	0	0
Mental and behavioral disorder due to multiple drug use & other use of psychoactive substances	0	0	0	0
Psychosis	0	0	0	0
Depression	0	0	0	0
Anxiety	0	0	0	0
Other Mental Disorders	0	0	2	3
Disease of Nervous system				
Meningitis/Encephalitis	46	31	22	20
Epilepsy	11	6	27	17
Other Nervous including Peripheral Disorders	21	21	38	32
Eye & Ear Diseases				
Conjunctivitis	1	2	6	4
CataractB	1	1	4	2
Disorders of Refraction & Accomodation (Refractive Error in the Eye)	0	0	1	1
Other Eye Disorders	6	5	23	13
Otitis Media	6	5	22	20
Other Ear Disorders	3	0	12	9
Diseases of Circulatory System				
Rheumatic Heart Disease	1	1	2	0
Hypertension	0	0	0	0

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F		
	0	0	0	34	0	21	0	22	77	6
	12	11	32	149	30	57	121	118	532	95
	1	2	27	77	4	13	55	12	193	6
	17	21	92	291	43	50	93	89	784	3
	15	16	93	90	17	23	30	26	334	11
	0	0	138	135	116	98	186	176	849	13
	1	3	6	5	1	0	6	2	54	1
	9	10	32	69	8	26	34	20	246	6
	0	0	3	3	0	4	0	1	11	0
	0	1	373	121	56	25	28	14	618	2
	1	1	122	14	10	4	2	0	154	0
	1	0	50	25	2	4	...	2	84	0
	0	3	46	106	7	8	7	7	184	0
	2	0	37	55	3	8	1	3	109	0
	2	9	72	111	11	2	9	12	233	0
	14	20	17	17	4	1	4	2	198	47
	29	9	78	79	6	6	9	12	289	6
	43	41	292	374	57	37	77	49	1,082	16
	13	18	33	29	5	3	8	14	136	0
	4	0	17	15	26	14	113	121	318	0
	2	2	8	5	1	1	2	8	31	0
	26	32	135	123	34	31	36	59	523	0
	29	20	27	28	0	1	2	0	160	0
	32	33	63	44	7	6	17	10	236	0
	4	7	33	41	8	16	25	15	153	4
	4	0	380	391	233	231	477	474	2,190	20

cont...

Table 2.7 cont...

Indicators	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Ischaemic Heart Diseases	0	0	0	0
Cerebro-vascular DiseasesB	0	0	0	0
Bubo	0	0	0	0
Other Circulatory Diseases	27	28	15	9
Respiratory diseases				
Common Cold	231	238	331	292
Acute Pharyngitis/Tonsilitis	27	29	113	126
Pneumonia	521	438	629	529
Asthma	9	8	14	19
Other Respiratory & Nose Diseases	495	373	568	419
Diseases of the Digestive system				
Diseases of Teeth & Gums	2	1	9	7
Dental Caries	0	0	2	6
Peptic Ulcer Syndrome	3	1	3	1
Acute AppendicitisB	1	0	13	4
Alcohol Liver Diseases	0	0	0	0
Gall Bladder Diseases	1	0	1	1
Other Diseases of the Digestive System	105	72	186	171
Diseases of the Skin and Subcutaneous Tissue				
Skin Infections	61	54	106	99
Other Disorders of Skin & Subcutaneous-tissues	63	69	154	144
Diseases of Musculo-skeletal system & Cogenital Deformities				
Arthritis & Arthrosis	0	0	1	2
Other Musculo-skeletal Disorders	5	1	24	12
Diseases of Genito-Urinary Diseases				
CystitisB	10	7	8	14
Infection of the Breasts, including Puerperium	0	0	0	0
Other Disease of the Breast	1	0	0	0
Pelvic Inflammatory DiseaseB	0	0	0	0
Menstrual Disturbances	0	0	0	0
Other Kidney, UT/ Genital Disorders	23	18	100	66

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F		
	1	0	15	20	17	9	44	45	151	12
	0	0	44	25	35	25	130	84	343	71
	0	0	17	5	8	2	6	6	44	1
	23	18	240	196	131	104	415	387	1,593	147
	398	403	621	701	90	87	106	92	3,590	0
	237	241	388	460	35	34	17	34	1,741	1
	168	141	144	165	39	50	161	165	3,150	76
	24	11	50	91	23	55	133	122	559	5
	280	194	565	634	189	187	646	666	5,216	88
	36	51	84	108	11	21	8	10	348	0
	19	23	79	73	17	11	14	13	257	0
	48	66	454	526	139	151	103	128	1,623	3
	60	38	269	205	30	21	17	23	681	2
	0	0	625	303	192	142	160	128	1,550	184
	4	3	116	344	51	98	62	92	773	3
	266	254	1,087	1,182	233	178	308	290	4,332	40
	116	101	261	231	44	38	60	45	1,216	0
	191	146	453	435	88	68	139	82	2,032	3
	27	12	87	57	21	24	34	39	304	0
	145	95	620	606	173	92	172	144	2,089	3
	7	22	97	271	21	31	35	50	573	5
	0	1	0	55	0	1	0	0	57	0
	1	0	4	50	0	5	0	2	63	0
	0	0	0	92	0	11	0	10	113	0
	0	3	0	178	0	23	0	10	214	0
	234	162	895	1,999	233	315	366	298	4,709	77

cont...

Table 2.7 cont...

Indicators	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Pregnancy, Childbirth and Puerperium				
Abortions	0	0	0	0
Pregnancy Induced Hypertension	0	0	0	0
Ante-Partum Haemorrhage & Placenta Previa	0	0	0	0
Malpresentation	0	0	0	0
Prolonged Labour	0	0	0	0
Obstructed Labour	0	0	0	0
Post Partum Haemorrhage	0	0	0	0
Retained Placenta	0	0	0	0
Puerperal Sepsis	0	0	0	0
Other Complications of Pregnancy	0	0	0	0
Certain Conditions Originating in the Perinatal Period				
Low Birth Weight	182	131	0	0
Foetal Death & Stillbirth	23	25	0	0
Neonatal Death	7	3	0	0
Conditions Originating in the Perinatal Period	1,411	1,116	0	0
Congenital Malformations, Deformations and Chromosomal Abnormalities				
Oro-facial Clefts	12	3	0	0
Gastrointestinal Tract defects	1	0	3	1
Talipes Equinovarus	2	1	0	0
Omphalocele	3	1	0	0
Other Malformations	58	50	61	43
Injuries & Trauma				
Mushroom Poisoning (Toxic effect of other unspecified substances)	0	0	6	5
Transport Accidents	1	3	21	11
Accidental Falls	7	11	78	47
Other Bites & Stings (excluding dog bite)	2	2	6	6
Dog Bites	1	3	34	25
Drowning & Submersion	1	0	2	2
Exposure to Electric Current	0	0	0	1
Contact with Heat & Hot substances & exposure to smoke, fire, flames	2	3	26	23
Snake Bite	0	1	0	0

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F		
	0	1	0	1,144	0	0	0	0	1,145	0
	0	1	0	432	0	0	0	0	433	1
	0	0	0	111	0	0	0	0	111	0
	0	0	0	71	0	0	0	0	71	0
	0	0	0	221	0	0	0	0	221	1
	0	0	0	72	0	0	0	0	72	0
	0	0	0	105	0	0	0	0	105	4
	0	0	0	67	0	0	0	0	67	0
	0	0	0	64	0	0	0	0	64	0
	0	5	0	6,365	0	0	0	0	6,370	1
	0	0	0	0	0	0	0	0	313	38
	0	0	0	0	0	0	0	0	48	48
	0	0	0	0	0	0	0	0	10	10
	0	0	0	0	0	0	0	0	2,527	49
	0	0	0	0	0	0	0	0	15	0
	0	0	0	0	0	0	0	0	5	0
	0	0	0	0	0	0	0	0	3	1
	0	0	0	0	0	0	0	0	4	0
	40	27	25	40	7	2	0	1	354	22
	12	6	25	32	6	4	3	1	100	2
	49	43	462	176	40	9	32	22	869	19
	177	82	416	218	75	57	125	108	1,401	13
	34	24	56	57	18	11	19	11	246	0
	117	62	284	125	30	20	17	20	738	1
	1	1	4	3	0	0	0	0	14	1
	0	0	20	4	1	0	0	0	26	1
	20	14	57	47	5	7	15	6	225	1
	8	6	56	37	17	7	9	5	146	2

cont...

Table 2.7 cont...

Indicators	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Contact with Venomous animals (excluding Snake bite)	0	0	1	0
Accidental Poisoning by and Exposure to Noxious Substances	1	0	5	5
Intentional Self-harm by Poisoning	0	0	0	1
Intentional Self-harm by Drowning and Submersion	0	0	0	0
Assault by Poisoning (includes homicidal poisoning)	0	0	0	0
Assault by Drowning and Submersion	0	0	0	0
Other Intentional Self-harm	0	0	0	0
Work Related Injuries	0	0	4	5
Others (injuries other than above & unknown cause of injury)	13	12	65	51
Other Conditions				
Complications of Health Care	9	6	4	3
ANC, Immunization & Other Counseling	5	8	11	5
Total	**3,822**	**3,107**	**3,323**	**2,761**
Total Old Cases all Causes	**8,750**			

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

Source: Annual Health Bulletin 2017, MoH, Thimphu.

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Yrs		65 + Yrs		Total	Death
	M	F	M	F	M	F	M	F		
	0	1	4	1	2	3	2	1	15	1
	3	0	9	11	0	3	5	3	45	0
	0	2	27	28	3	0	1	2	64	6
	1	0	3	7	0	0	0	0	11	0
	0	0	4	3	1	0	0	1	9	0
	0	1	1	1	0	0	0	0	3	0
	3	2	46	47	1	2	2	1	104	1
	51	26	552	287	103	36	44	30	1,138	1
	213	86	844	401	134	85	102	45	2,051	20
	2	3	20	51	5	9	5	4	121	3
	1	3	76	700	8	4	3	3	827	3
	3,797	**3,097**	**13,810**	**23,917**	**3,211**	**2,989**	**5,268**	**4,978**	**74,080**	**1,393**

Table 2.8: Outpatient Cases in all Hospitals, Bhutan, 2016

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Infections				
Diarrhoea	1,194	1,169	3,234	2,824
Dysentery	68	82	294	276
Tuberculosis	3	0	0	1
Other Sepsis (including Septicaemia)	2	3	2	6
Congenital Syphillis	0	0	0	0
Genital Ulcer	0	0	1	1
Syphilis	0	0	0	0
Urethal/Vaginal Discharges	0	0	2	2
Other Sexually Transmitted Disease, excluding HIV/ AIDS	0	0	0	1
Rickettsial Disease	3	4	9	7
Viral, Protozoal & Helminthic disease				
Chicken Pox	12	19	128	91
Acute Hepatitis A	1	0	3	4
Acute Hepatitis B	1	0	0	0
Other Acute Hepatitis (includes Hepatitis C & E)	2	2	1	0
Plasmodium falciparum malaria	0	0	0	1
Plasmodium Vivax malaria	0	0	0	0
Other Malaria	0	0	0	0
Visceral Leishmaniasis (Kala-azar)	1	0	1	0
Intestinal Worms	43	58	167	155
Scabies	41	60	216	216
Streptococcus Group A	3	4	20	23
Other Infections (excluding ear, brain, STI)	67	88	305	337
Neoplasm				
Oesophagus Cancer	0	0	0	0
Stomach/ Gastric Cancer	0	0	0	0
Colon Cancer	0	0	0	0
Rectal Cancer	0	0	0	0
Hepato-Biliary Cancer	0	0	0	0
Pancreatic Cancer	0	0	0	0

(Numbers)

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	
	3,638	3,084	5,208	4,656	676	638	614	606	27,541
	474	450	1,214	1,051	171	154	134	133	4,501
	6	7	137	147	51	37	50	38	477
	2	5	27	23	7	4	3	3	87
	0	0	0	0	0	0	0	0	0
	3	2	60	47	5	5	7	1	132
	0	0	41	17	4	1	1	2	66
	16	20	827	1,399	48	150	14	47	2,525
	0	8	481	453	130	128	75	94	1,370
	14	11	64	42	7	5	4	3	173
	526	390	181	173	7	4	...	5	1,536
	9	9	39	28	2	6	3	2	106
	0	1	46	36	10	7	7	9	117
	8	11	32	39	14	6	12	8	135
	0	0	2	0	0	0	0	0	3
	1	0	3	1	0	0	0	0	5
	0	4	3	0	0	0	0	1	8
	0	5	7	13	0	0	1	0	28
	467	466	1,005	990	208	194	140	86	3,979
	945	783	1,246	1,081	123	122	110	92	5,035
	57	50	282	317	87	37	24	20	924
	629	660	1,577	1,768	248	196	161	137	6,173
	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	1	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	0	0	0	0

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Breast Cancer	0	0	0	0
Cervical Cancer	0	0	0	0
Other Cancers	0	0	1	…
Blood diseases				
Neoplasm (benign + CIS)	1	0	5	7
Nutritional Anaemia	19	20	92	102
Blood & Immune Disorders	0	0	1	0
Endocrine, Metabolic & Nutritional				
Diabetes	0	0	0	1
Malnutrition (exclude child clinic attendance)	3	3	8	4
Other Nutritional & Metabolic Disorders	13	18	55	72
Mental disorders				
Dementia	0	0	0	0
Mental and behavioral disorder due to alcohol	0	0	0	0
Mental and behavioral disorder due to multiple drug use & other use of psychoactive substances	0	0	0	0
Psychosis	0	0	0	0
Depression	0	0	0	0
Anxiety	0	0	0	1
Other Mental Disorders	0	0	2	2
Disease of Nervous system				
Meningitis/Encephalitis	0	0	1	0
Epilepsy	11	4	25	17
Other Nervous including Peripheral Disorders	31	43	183	152
Eye & Ear Diseases				
Conjunctivitis	307	286	550	518
CataractB	3	0	2	1
Disorders of Refraction & Accomodation (Refractive Error in the Eye)	8	10	42	35
Other Eye Disorders	288	286	563	624
Otitis Media	158	113	396	397
Other Ear Disorders	105	130	525	586
Diseases of Circulatory System				
Rheumatic Heart Disease	1	1	1	1

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	
	0	0	0	1	0	0	0	0	1
	0	0	0	10	0	2	0	6	18
	5	1	8	22	1	6	9	7	60
	3	12	15	88	5	14	21	13	184
	270	489	1,690	4,107	508	614	406	462	8,779
	6	1	26	51	10	8	10	11	124
	0	0	2,068	2,647	1,615	1,647	1,488	1,762	11,228
	2	4	6	32	15	14	8	11	110
	126	148	516	736	160	149	136	142	2,271
	0	0	2	0	...	1	2	1	6
	1	1	157	104	32	15	15	5	330
	3	0	73	33	4	1	0	0	114
	3	2	80	109	5	14	6	12	231
	4	5	133	218	38	55	37	49	539
	7	8	408	748	219	293	141	191	2,016
	9	37	351	692	59	60	32	45	1,289
	1	2	4	4	0	0	0	0	12
	92	72	445	414	58	37	39	31	1,245
	829	910	5,092	8,834	714	1,014	719	938	19,459
	1,389	1,406	4,191	4,544	657	632	646	665	15,791
	6	10	36	61	41	47	149	156	512
	104	114	278	355	99	80	88	95	1,308
	2,155	2,367	7,192	9,484	1,347	1,722	1,994	2,053	30,075
	957	821	1,632	1,636	185	160	162	136	6,753
	1,640	1,593	3,084	3,364	464	396	440	365	12,692
	11	9	164	200	108	94	88	67	745

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Hypertension	0	0	0	0
Ischaemic Heart Diseases	0	0	0	0
Cerebro-vascular DiseasesB	0	0	0	0
Bubo	0	0	0	0
Other Circulatory Diseases	13	23	29	21
Respiratory diseases				
Common Cold	5,597	5,694	13,847	13,259
Acute Pharyngitis/Tonsilitis	419	500	2,120	2,047
Pneumonia	358	351	653	627
Asthma	6	14	22	22
Other Respiratory & Nose Diseases	1,097	996	1,960	1,805
Diseases of the Digestive system				
Diseases of Teeth & Gums	45	37	378	305
Dental Caries	0	0	881	859
Peptic Ulcer Syndrome	8	9	173	153
Acute AppendicitisB	0	0	1	1
Alcohol Liver Diseases	0	0	0	0
Gall Bladder Diseases	0	1	1	1
Other Diseases of the Digestive System	571	616	2,203	2,265
Diseases of the Skin and Subcutaneous Tissue				
Skin Infections	1,057	938	3,370	3,156
Other Disorders of Skin & Subcutaneous-tissues	1,411	1,307	3,781	3,581
Diseases of Musculo-skeletal system & Cogenital Deformities				
Arthritis & Arthrosis	3	0	14	13
Other Musculo-skeletal Disorders	28	40	331	297
Diseases of Genito-Urinary Diseases				
CystitisB	5	2	19	25
Infection of the Breasts, including Puerperium	0	0	0	0
Other Disease of the Breast	0	0	0	1
Pelvic Inflammatory DiseaseB	0	0	0	0
Menstrual Disturbances	0	0	0	0
Other Kidney, UT/ Genital Disorders	38	37	277	316

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	
	5	11	3,832	5,150	2,807	3,099	3,458	3,595	21,957
	1	0	33	45	37	23	40	21	200
	1	0	11	15	12	7	13	10	69
	1	0	16	18	14	7	9	12	77
	77	114	616	928	212	230	235	267	2,765
	18,418	18,354	30,832	32,677	3,962	3,651	3,559	3,254	153,104
	5,673	6,913	11,397	14,517	1,403	1,228	931	1,049	48,197
	328	258	288	281	60	65	62	73	3,404
	42	46	129	248	91	116	134	154	1,024
	3,350	3,092	7,310	8,950	1,293	1,182	1,382	1,368	33,785
	1,652	1,897	3,842	4,250	777	660	687	530	15,060
	4,743	5,023	9,379	12,060	1,748	1,660	1,793	1,504	39,650
	1,183	1,507	11,508	14,305	2,009	2,137	1,566	2,028	36,586
	10	16	78	79	25	26	61	57	354
	9	13	615	378	208	138	219	148	1,728
	11	14	97	145	25	26	24	24	369
	4,561	5,041	14,299	18,823	2,434	2,279	2,027	2,180	57,299
	6,732	5,800	11,795	10,099	1,453	1,188	1,201	930	47,719
	6,539	5,940	14,285	14,459	1,859	1,549	1,596	1,337	57,644
	85	75	1,377	1,372	490	433	413	378	4,653
	2,122	2,123	18,834	18,974	4,164	3,812	3,592	3,389	57,706
	47	65	462	1,303	92	100	86	122	2,328
	0	1	0	299	0	12	0	4	316
	2	88	27	919	9	66	2	35	1,149
	0	9	0	757	0	135	0	51	952
	0	90	0	2,435	0	225	0	84	2,834
	549	819	4,449	12,835	931	1,231	684	788	22,954

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Pregnancy, Childbirth and Puerperium				
Abortions	0	0	0	0
Pregnancy Induced Hypertension	0	0	0	0
Ante-Partum Haemorrhage & Placenta Previa	0	0	0	0
Malpresentation	0	0	0	0
Prolonged Labour	0	0	0	0
Obstructed Labour	0	0	0	0
Post Partum Haemorrhage	0	0	0	0
Retained Placenta	0	0	0	0
Puerperal Sepsis	0	0	0	0
Other Complications of Pregnancy	0	0	0	0
Certain Conditions Originating in the Perinatal Period				
Low Birth Weight	3	1	0	0
Foetal Death & Stillbirth	0	2	0	0
Neonatal Death	0	0	0	0
Conditions Originating in the Perinatal Period	109	167	0	0
Congenital Malformations, Deformations and Chromosomal Abnormalities				
Oro-facial Clefts	4	8	0	0
Gastrointestinal Tract defects	0	0	0	0
Talipes Equinovarus	0	0	0	0
Omphalocele	2	0	0	0
Other Malformations	0	0	0	0
Injury, Poisoning and certain other Consequences of External Causes				
Mushroom Poisoning (Toxic effect of other unspecified substances)	0	0	2	3
Transport Accidents	2	1	25	22
Accidental Falls	12	19	195	116
Other Bites & Stings (excluding dog bite)	9	12	128	102
Dog Bites	5	9	200	139
Drowning & Submersion	0	0	1	2
Exposure to Electric Current	0	0	1	0
Contact with Heat & Hot substances & exposure to smoke, fire, flames	13	13	110	73

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	
	0	0	0	254	0	0	0	0	254
	0	0	0	137	0	0	0	0	137
	0	1	0	19	0	0	0	0	20
	0	0	0	6	0	0	0	0	6
	0	0	0	3	0	0	0	0	3
	0	0	0	0	0	0	0	0	0
	0	0	0	4	0	0	0	0	4
	0	0	0	7	0	0	0	0	7
	0	0	0	14	0	0	0	0	14
	0	1	0	1,218	0	0	0	0	1,219
	0	0	0	0	0	0	0	0	4
	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	276
	0	0	0	0	0	0	0	0	12
	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
	0	0	4	5	0	0	1	1	11
	2	8	47	46	8	5	3	3	127
	147	120	937	552	159	91	94	48	2,198
	685	397	1,684	997	253	219	213	192	4,982
	300	249	665	724	136	96	107	79	2,607
	638	470	1,123	803	173	100	143	122	3,925
	7	5	15	10	3	3	3	0	49
	0	0	25	4	0	0	3	0	33
	120	73	246	218	19	18	12	13	928

cont...

Table 2.8 cont...

Name of Diseases	Under 1 Yr		1 – 4 Yrs	
	M	F	M	F
Snake Bite	0	0	1	1
Contact with Venomous animals (excluding Snake bite)	0	1	10	9
Accidental Poisoning by and Exposure to Noxious Substances	0	1	1	2
Intentional Self-harm by Poisoning	0	0	0	1
Intentional Self-harm by Drowning and Submersion	0	0	0	0
Assault by Poisoning (includes homicidal poisoning)	0	0	0	0
Assault by Drowning and Submersion	0	0	0	0
Other Intentional Self-harm	0	0	0	1
Work Related Injuries	7	7	191	112
Others (injuries other than above & unknown cause of injury)	20	23	424	318
Other Conditions				
Complications of Health Care	0	0	7	7
ANC, Immunization & Other Counseling	703	702	1,186	1,141
Total	**13,934**	**13,934**	**39,377**	**37,268**
Total Old Cases all Causes	**1,015,424**			

Source: Annual Health Bulletin 2017, MoH, Thimphu.

	5 – 14 Yrs		15 – 49 Yrs		50 - 64 Years		65 + Yrs		Total
	M	F	M	F	M	F	M	F	
	5	2	19	10	4	0	2	0	44
	15	8	64	24	9	2	4	3	149
	0	0	8	12	4	1	0	0	29
	1	0	17	28	1	2	0	0	50
	2	1	2	8	0	1	0	0	14
	2	0	12	10	0	4	1	1	30
	0	0	3	5	1	0	0	0	9
	7	2	62	45	4	3	6	1	131
	1,085	717	6,316	2,936	909	566	514	342	13,702
	1,541	879	3,699	2,192	387	232	281	173	10,169
	24	9	75	100	10	5	6	3	246
	576	499	23,649	5,588	298	261	253	247	35,103
	75,716	**74,728**	**224,317**	**243,075**	**36,635**	**35,663**	**33,416**	**33,131**	**861,194**

Table 2.9: Number of Patient Admissions & Average Length of Stay in Dzongkhag Hospitals, Bhutan, (2014-2016)

Dzongkhag	2014		2015		2016					
	Total Admissions	Patient Days	Total Admissions	Patient Days	Total Admissions	Discharged	Deaths	Absconded	Patient Days	Average length of stay
Bumthang	716	2,505	681	2,060	780	609	12	2	2,836	4.6
Chhukha	4,582	16,795	4,405	17,784	4,928	4,311	65	6	19,178	4.4
Dagana	976	4,678	902	2,402	1,495	1,070	143	7	11,826	9.7
Gasa	37	95	33	62	84	70	3	0	109	1.5
Haa	570	1,353	592	972	524	425	9	0	695	1.6
Lhuentse	778	2,331	777	2,545	812	594	10	0	2,438	4.0
Monggar	4,575	26,779	4,975	45,378	4,840	4,768	167	8	25,998	5.3
Paro	2,596	9,090	2,775	8,166	2,756	2,536	31	4	8,115	3.2
Pema Gatshel	1,709	3,527	1,395	2,627	1,917	1,644	14	4	6,324	3.8
Punakha	2,447	5,388	2,500	5,596	1,958	1,825	12	10	5,378	2.9
Samdrup Jongkhar	2,151	8,245	2,659	9,597	3,151	2,634	28	11	11,238	4.2
Samtse	3,683	13,875	3,163	22,070	3,438	2,953	62	10	15,614	5.2
Sarpang	4,390	16,697	4,155	14,620	4,320	3,737	112	9	16,295	4.2
Thimphu	13,125	92,758	19,016	121,559	18,458	17,477	691	22	117,425	6.5
Trashigang	844	3,492	712	3,120	4,681	4,123	62	28	18,190	4.3
Trashi Yangtse	4,417	16,399	4,415	16,871	930	936	13	3	3,760	3.9
Trongsa	686	2,275	669	2,629	882	709	15	4	2,628	3.6
Tsirang	1,287	5,214	1,674	7,421	1,603	1,578	23	1	6,086	3.8
Wangdue Phodrang	2,584	8,939	2,882	9,784	2,752	2,213	39	6	7,921	3.5
Zhemgang	921	4,819	707	3,944	1,591	1,481	11	5	4,991	3.3
Bhutan	**53,074**	**245,254**	**59,087**	**299,207**	**61,900**	**55,693**	**1,522**	**140**	**287,045**	**5.0**

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.10: Immunization Status by Dzongkhag, Bhutan, 2016

(Numbers)

Dzongkhag	Antigen				
	BCG	Measles	OPV 0	OPV3	DPT-Hep B3
Bumthang	133	311	132	289	286
Chhukha	1,101	1,072	1,081	999	1,013
Dagana	228	337	213	348	348
Gasa	13	39	14	54	54
Haa	68	137	68	151	151
Lhuentse	124	210	107	223	231
Monggar	983	637	887	661	660
Paro	274	655	271	678	679
Pema Gatshel	213	364	209	330	331
Punakha	277	404	266	397	398
Samdrup Jongkhar	482	520	438	556	561
Samtse	561	909	613	888	889
Sarpang	702	649	673	623	623
Thimphu	4,218	2,444	4,153	2,253	2,267
Trashigang	595	725	557	695	695
Trashi Yangtse	169	279	238	269	265
Trongsa	111	264	99	246	246
Tsirang	222	325	203	310	328
Wangdue Phodrang	285	654	248	632	661
Zhemgang	167	302	168	274	271
Bhutan	**10,926**	**11,237**	**10,638**	**10,876**	**10,957**

Source: Annual Health Bulletin 2015, MoH, Thimphu.

Table 2.11: Nutritional and Vitamin A Status of Children Attending Clinics by Dzongkhag, Bhutan, 2016

Dzongkhag	Child Attendances						
	No. of children 6 months old		Children exclusively breast-fed for 6 months	No. of children 0-11 months old		No. of children 12-59 months old	
	New	Old		New	Old	New	Old
Bumthang	49	690	1,170	132	2,622	49	4,275
Chhukha	833	2,542	4,644	207	7,678	19	14,667
Dagana	91	808	780	141	2,453	33	5,394
Gasa	16	47	111	27	392	8	476
Haa	317	448	362	252	1,268	478	2,386
Lhuentse	69	276	527	214	1,699	155	3,198
Monggar	500	1,478	2,367	363	5,406	16	10,837
Paro	39	470	457	297	7,680	1	7,490
Pema Gatshel	20	462	886	177	3,271	1	6,246
Punakha	116	322	838	33	4,001	2	4,416
Samdrup Jongkhar	187	1,008	1,282	415	4,010	148	8,214
Samtse	152	1,956	3,038	445	6,941	3	14,515
Sarpang	13	565	763	676	5,861	2	8,836
Thimphu	1,761	2,267	3,345	3,698	20,117	305	24,020
Trashigang	1	964	1,769	637	6,549	9	10,259
Trashi Yangtse	41	315	331	152	2,358	33	3,968
Trongsa	73	378	545	71	1,803	72	3,661
Tsirang	50	352	414	139	3238	4	5847
Wangdue Phodrang	196	1,856	2,075	82	4,517	86	7,630
Zhemgang	92	569	672	182	2,116	90	4,341
Bhutan	**4,616**	**17,773**	**26,376**	**8,340**	**93,980**	**1,514**	**150,676**

Source: Annual Health Bulletin 2017, 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
	7,031	7,320	398	1,744	125	1,693
	10,677	24,083	3,634	9,119	1,040	6,372
	7,389	8,569	1,686	1,996	151	1,922
	695	931	74	244	21	217
	3,239	3,152	254	1,105	68	1,133
	5,063	5,327	263	1,203	132	1,130
	16,130	16,791	868	3,977	558	3,710
	11,123	15,311	809	4,118	288	3,694
	9,560	9,340	425	2,466	203	2,200
	8,386	8,107	468	1,941	347	1,860
	11,560	12,946	631	3,390	440	3,183
	16,355	22,424	1,076	6,026	547	5,556
	8,155	15,355	630	3,979	640	3,635
	24,278	48,507	2,494	11,574	4,308	10,746
	17,085	16,927	947	3,966	448	3,613
	6,325	6,590	303	1,744	189	1,811
	5,467	6,031	387	1,281	98	1,194
	4167	9116	415	2535	205	2439
	10,418	12,795	1,011	3,113	328	3,197
	6,029	6,766	274	1,636	130	1,466
	189,132	**256,388**	**17,047**	**67,157**	**10,266**	**60,771**

Table 2.12: Details of Maternal & Child Health Care Activities, Bhutan, (2012-2016)

(Numbers)

Type of care	2012	2013	2014	2015	2016
Antenatal care attendence	**72,384**	**71,464**	**74,613**	**73,881**	**27,833**
1st visit	13,376	12,500	12,844	11,994	11,680
2nd visit	12,981	12,549	12,228	11,404	...
3rd visit	12,212	11,955	11,999	11,306	...
4th visit	10,726	10,843	10,701	10,718	9,297
8th visit	23,089	23,617	26,841	28,459	6,856
Deliveries attended by trained health personnel (b)	**10,792**	**11,158**	**10,873**	**11,430**	**10,948**
Home	623	1,010	582	528	230
Facility	10,169	10,148	10,291	10,902	10,718
Post-natal care attendance	**17,924**	**20,942**	**26,166**	**22,654**	**28,305**
1st visit	8,966	9,462	9,440	8,626	4,144
2+ visit	8,958	11,480	16,726	14,028	8,595
3rd visit	...	...	...	...	8,118
4th visit	...	...	...	...	7,448

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.13: Family Planning Methods by Type, Bhutan, (2012-2016)

(Numbers)

Method	2012	2013	2014	2015	2016
Female Sterilisation	4,292	4,751	4,855	5,381	5,149
Male Sterilisation	9,531	9,607	8,773	8,122	6,199
Intra uterine device (IUD) inserted [1]	1,445	2,492	1,530	1,506	1,609
Pills (OCP) [2]	81,673	92,730	72,543	76,799	83,637
Condoms [3]	1,427,260	1,474,942	1,703,299	1,275,567	1,094,290
Injection DMPA [4]	88,009	77,524	79,290	86,322	85,195

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 2017, MoH, Thimphu.

Table 2.14: Number of Users of Family Planning Methods by Type, by Dzongkhag, Bhutan, 2016

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	14	2,145	2,278	72	132	48,497
Chhukha	112	8,711	7,704	378	381	83,099
Dagana	73	7,187	2,531	328	133	21,379
Gasa	0	164	602	28	20	8,812
Haa	4	1,630	1,265	127	123	18,139
Lhuentse	3	2,658	1,650	198	102	30,416
Monggar	147	3,241	7,110	454	307	105,662
Paro	19	2,797	5,064	368	882	114,628
Pema Gatshel	4	2,304	2,667	323	123	39,326
Punakha	18	2,975	3,019	253	320	47,895
Samdrup Jongkhar	28	3,411	5,015	212	252	39,138
Samtse	47	11,734	7,719	1,520	572	75,636
Sarpang	248	10,218	6,041	453	553	54,341
Thimphu	429	7,007	9,955	123	172	135,178
Trashigang	264	4,516	6,485	406	322	81,410
Trashi Yangtse	45	1,508	2,286	98	105	28,821
Trongsa	45	1,964	2,225	100	97	28,231
Tsirang	18	3,592	4,151	332	234	32,859
Wangdue Phodrang	61	3,896	4,563	425	310	63,553
Zhemgang	30	1,979	2,865	1	9	37,270
Bhutan	**1,609**	**83,637**	**85,195**	**6,199**	**5,149**	**1,094,290**

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 2017, MoH, Thimphu.

Table 2.15: Number of Malaria Cases by Type and Deaths, Bhutan, (2012-2016)

(Numbers)

Details	2012	2013	2014	2015	2016
Plasmodium vivax	47	31	28	21	16
Plasmodium falciparum	33	13	15	13	1
Mixed infections	2	1	0	0	1
Deaths due to malaria	1	0	0	0	0

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.16: Number of Tuberculosis Cases by Type and Deaths, Bhutan, (2012-2016)

(Numbers)

Year	Type of TB cases			Total cases	Total deaths
	Pulmonary Positive	Pulmonary Negative	Extra Pulmonary		
2012	499	130	527	1,156	32
2013	524	120	471	1,115	13
2014	454	91	466	1,011	20
2015	384	124	467	975	39
2016	410	137	560	1,107	24

Source: Annual Health Bulletin 2017, MoH, Thimphu.

Table 2.17: Types of Water and Sanitation Facility by Dzongkhag, Bhutan, 2016

Dzongkhag	Percentage Coverage						
	Latrine	Water Supply	Household with Functional Piped water	Drainage & Footpath	Household with Animal Shed	Household with Vegetable Garden	Household with Garbage Pit
Bumthang	99.3	...	92.1	77.8	100.0	88.1	51.7
Chhukha	95.7	...	71.4	64.3	87.0	99.4	29.7
Dagana	86.9	...	71.3	66.1	73.2	77.4	11.9
Gasa	96.8	...	25.1	74.9	92.9	86.3	33.6
Haa	98.9	...	77.0	79.0	88.0	80.6	20.6
Lhuentse	96.7	...	84.9	94.5	94.2	87.0	7.3
Monggar	96.6	...	95.8	89.3	96.8	94.1	10.5
Paro	91.6	...	41.9	71.0	82.5	51.5	35.1
Pema Gatshel	98.7	...	77.4	47.0	95.3	83.8	13.5
Punakha	97.0	...	93.0	85.9	96.5	72.1	19.6
Samdrup Jongkhar	98.3	...	90.3	58.0	62.7	92.7	28.5
Samtse	93.9	...	80.1	58.2	97.2	71.6	29.2
Sarpang	95.5	...	41.7	81.2	87.5	67.3	24.2
Thimphu	96.2	...	33.3	57.4	90.7	59.0	29.8
Trashigang	96.5	...	77.0	53.6	90.7	76.0	25.3
Trashi Yangtse	100.7	...	92.4	69.1	90.3	93.8	18.7
Trongsa	97.8	...	86.8	61.0	86.0	133.4	31.0
Tsirang	98.8	...	82.4	40.5	86.5	105.5	7.2
Wangdue Phodrang	97.2	...	75.1	66.5	92.0	62.4	24.7
Zhemgang	...	...	...	...	...	...	...
Bhutan	**95.9**	**...**	**73.0**	**66.6**	**88.7**	**78.8**	**24.0**

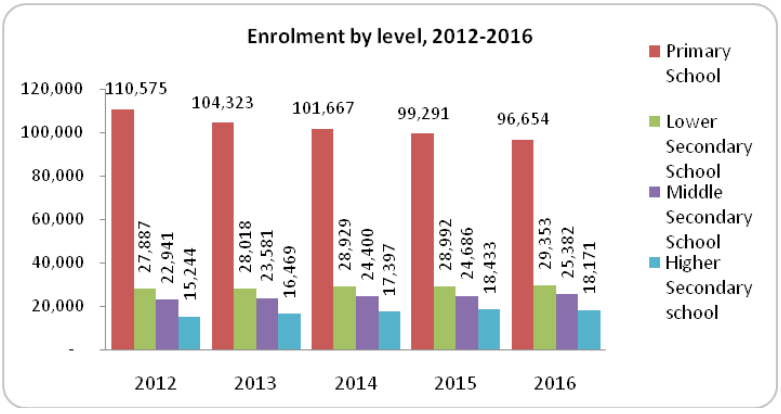
Source: Annual Health Bulletin 2017, MoH, Thimphu.

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, (2012-2016)

(Percent)

Indicators	2012	2013	2014	2015	2016
Gross enrolment Ratio(ECCD)	5.0	7.0	9.0	17.0	18.6
Apparent Intake Rate (AIR)	84.0	81.0	88.0	89.0	91.4
Net Intake Rate (NIR)	46.0	48.0	58.0	62.0	63.1
Net Enrolment Rate (NER) Primary	96.0	96.0	95.0	95.2	94.7
Adjusted NER (ANER) Primary	...	98.5	98.7	98.8	98.6
Net Enrolment Rate (NER) Basic	94.0	94.0	93.0	97.0	96.2
Net Enrolment Rate (NER) Secondary (Class VII-X)	56.0	86.0	85.0	82.0	...
Gross Enrolment Ratio (GER) Primary	118.0	116.0	113.0	112.0	111.1
Gross Enrolment Ratio (GER) Basic	108.0	106.0	107.0	110.0	109.9
Gross Enrolment Ratio (GER) Secondary (Class VII-X)	93.0	90.0	96.0	105.0	107.9
Gross Enrolment Ratio (GER) higher Secondary	59.0	55.0	58.0	79.0	70.3
Gross Enrolment Ratio (GER) Tertiary within Bhutan	11.0	20.0	24.0	26.4	27.8
Gross Enrolment Ratio (GER) Tertiary within Bhutan and outside Bhutan	18.0	27.0	31.9	36.6	37.3
Repetition Rate (Primary)	5.3	5.5	6.0	6.7	5.7
Dropout Rate (Primary)	...	...	0.8	2.1	1.5
Primary Completion Rate	117.0	112.0	109.0	111.0	121.1
Survival rate to grade VI	98.0	79.0	100.0	83.0	89.5
Survival rate to grade X	85.0	60.0	95.0	72.0	76.5
Transition rate (Primary to Lower secondary)	98.0	...	...	92.4	94.6
Transition rate (Lower Secondary to Middle Secondary)	95.0	...	...	87.7	91.4
Transition rate (Middle Secondary to higher Secondary)	71.0	...	...	71.4	72.3

Source: Annual Education Statistics, MoE

Table 3.2: Number of Schools, Institutes & Centres, Bhutan, 2016

School/Institutes/Centres	Government	Private	Total
ECCD Centre[1]	231	59	290
Primary School	307	14	321
Lower Secondary School	68	1	69
Middle Secondary School	71	2	73
Higher Secondary School	40	19	59
Extended Classroom	96	...	96
Central Schools[2]	51	...	51
Schools with SEN Programme & Special Institutes3	12	2	14
Tertiary Institutes within Bhutan	12	2	14
Technical Training Institutes	8	...	8
Sanskrit Patshala	1	...	1
Monastic Education (Lobdra, Shedra, etc)[4]	200	...	200
Continuing Education Centres	...	7	7
Non-Formal Centres	674	...	674

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, 10 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 2016

Details	Government			Private			Total		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Early Childhood Care & Development									
ECCD Centres	2,592	2,649	5,349	1078	1090	2,060	3,670	3,739	7,409
School Education[4]									
Primary Schools	20,043	19,803	39,846	1,382	1,293	2,675	21,425	21,096	42,521
Lower Secondary Schools	16,299	16,619	32,918	30	20	50	16,329	16,639	32,968
Middle Secondary Schools	23,224	23,893	47,117	597	590	1,187	23,821	24,483	48,304
Higher Secondary Schools	17,755	18,425	36,180	3,564	3,967	7,531	21,319	22,392	43,711
Extended Classroom	1,086	970	2,056	...	...	...	1,086	970	2,056
Continuing Education	...	...	...	371	369	740	371	369	740
Bhutanese students studying abroad [1]	...	...	...	778	739	1,517	778	739	1,517
Central Schools[2]	19,561	19,959	39,520	...	...	...	19,561	19,959	39,520
Schools with SEN Programme & Special Institutes[3]	295	183	478	73	60	133	368	243	611
Tertiary Education									
Tertiary Students within Bhutan	5,561	4519	10,080	691	612	1303	6,252	5,131	11,383
Tertiary Students abroad	564	303	867	1,716	1,208	2,924	2,280	1,511	3,791
Technical &Vocational Education and Training	984	503	1487	...	...	...	984	503	1487
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	1,881	5,355	7,236	...	...	...	1,881	5,355	7,236
Sanskrit Patshala	...	...	...	5	...	5	5	...	5

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, 10 general schools, and two Draktsho centers.
[4]. The monastic enrolment reflected under private is from 2004.

Source: Annual Education Statistics, MoE.

Table 3.4: Summary of Teachers, Lecturers, Instructors, Trainers and Caregivers, Bhutan, 2016

(Numbers)

Details	Government			Private			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
ECCD Centres	9	390	399	...	192	192	9	582	591
School Education	4,929	3,368	8,297	415	369	784	5,344	3,737	9,081
Primary Schools	1,434	887	2,321	72	148	220	1,506	1,035	2,541
Lower Secondary Schools	858	756	1,614	7	5	12	865	761	1,626
Middle Secondary Schools	1,353	979	2,332	39	64	103	1,392	1,043	2,435
Higher Secondary Schools	1,163	716	1,879	297	152	449	1,460	868	2,328
Extended Classroom	121	30	151	...	...	...	121	30	151
Central Schools[1]	1,334	605	1,939	...	...	...	1,334	605	1,939
Schools with SEN & Special Institutes[2]	239	245	484	8	9	17	247	254	501
Tertiary Institutes within Bhutan	228	410	638	45	42	87	273	452	725
Technical Training Institutes	97	30	127	...	...	...	97	30	127
Non-Formal Centres	211	471	682	...	...	...	211	471	682

Note: [1] *Already included under School Education.*
[2] *Also includes all teachers who teach special needs children in 10 general schools*

Source: Annual Education Statistics, MoE.

Table 3.5: Enrolment in Institutions and at Tertiary level, Bhutan (2012-2016)

(Numbers)

Institutions	2012	2013	2014	2015	2016
Royal University of Bhutan	**6,973**	**7,843**	**8,954**	**9,455**	**9,173**
College of Natural Resources, Lobesa	369	416	538	599	521
College of Science and Technology, Rinchending	641	730	788	865	947
Institute of Language and Culutural Studies, Takse	550	841	1,133	1,281	1,320
Jigme Namgyal Polytechnic, Dewathang	574	703	737	846	826
Paro College of Education, Paro	1,239	1,416	1,545	1,473	1,464
Samtse College of Education	1,190	1,173	1,162	1,108	966
Sherubtse College, Kanglung	1,229	1,336	1,719	1,834	1,782
Gaeddu College of Business Studies	1,181	1,228	1,332	1,449	1,347
Khesar Gyalpo University of Medical Sciences	**427**	**446**	**486**	**...**	**420**
Royal Institute of Health Sciences, Thimphu	362	385	422	...	337
National Institute of Traditional Medicines, Thimphu	65	61	64	...	83
Private/Autonomous Institutes	**...**	**1,061**	**1,649**	**...**	**1,250**
Royal Thimphu College (Pvt)	...	1,061	1,158	...	1,250
Royal Institute of Management	...	...	399	...	...
Royal Institute for Tourism and Hospitality	...	...	92	...	...
Reldri Academy of Health Sciences	...	...	...	...	53
Vocational Institutes	**...**	**1,102**	**1,311**	**2,209**	**1,487**
TTI-Chumey	...	164	151	163	163
TTI Khuruthang	...	98	260	353	218
TTI- Rangjung	...	234	180	214	200
TTI- Samthang	...	66	165	793	173
TTI- Dekiling, Sarpang	...	94	137	183	182
TTI-Thimphu	...	51	22	50	57
Zorig Chusum, Thimphu	...	223	243	285	319
Zorig Chusum, Trashiyangtse	...	172	153	168	175

Source: Annual Education Statistics, MoE and Annual Report 2016, RUB.

Table 3.6: Number of Schools by Type and Dzongkhag, Bhutan, 2016

Dzongkhag	Public				
	Higher Secondary Schools	Middle Secondary Schools	Lower Secondary Schools	Primary Schools	
Bumthang	1	3	2	12	
Chhukha	3	6	2	25	
Phuentsholing Thromde	1	2	1	0	
Dagana	2	3	5	12	
Gasa	0	1	1	2	
Haa	1	1	2	5	
Lhuentse	1	3	2	11	
Monggar	3	3	5	33	
Paro	2	5	4	7	
Pema Gatshel	2	3	3	15	
Punakha	2	4	3	9	
Samdrup Jongkhar	2	6	1	14	
Samdrup Jongkhar Thromde	0	1	0	2	
Samtse	3	3	7	20	
Sarpang	1	2	6	11	
Gelephu Thromde	1	0	1	0	
Thimphu	1	3	1	5	
Thimphu Thromde	3	5	4	7	
Trashigang	4	7	7	33	
Trashi Yangtse	1	3	5	20	
Trongsa	2	2	1	12	
Tsirang	1	1	2	11	
Wangdue Phodrang	2	2	1	19	
Zhemgang	1	3	2	22	
Total	**40**	**72**	**68**	**307**	

Source: Annual Education Statistics, MoE.

	Private					
Extended Classrooms	Higher Second-ary Schools	Middle Secondary Schools	Lower Secondary Schools	Primary Schools	Extended Classrooms
1	1	0	0	0	0
6	0	0	0	0	0
0	2	0	0	0	0
5	0	0	0	0	0
2	0	0	0	0	0
2	1	0	0	0	0
7	0	0	0	0	0
11	1	0	0	0	0
0	4	0	1	4	0
9	0	0	0	0	0
8	1	0	0	0	0
5	0	0	0	0	0
0	1	0	0	1	0
16	0	0	0	0	0
3	1	0	0	0	0
0	1	0	0	0	0
2	1	0	0	1	0
0	5	2	0	8	0
3	0	0	0	0	0
0	0	0	0	0	0
5	0	0	0	0	0
3	0	0	0	0	0
8	0	0	0	0	0
0	0	0	0	0	0
96	**19**	**2**	**1**	**14**	**0**

Table 3.7: Comparative Enrolment by Grade and Schools, (2015-2016)

Class	Private Schools				Extended Classroom				Primary School			
	2015	2016	+ or -	%	2015	2016	+ or -	%	2015	2016	+ or -	%
PP	1,179	1,088	-91	-7.70%	609	631	22	3.60%	5,915	5,646	-269	-4.50%
I	847	865	18	2.10%	606	530	-76	-12.50%	5,781	5,532	-249	-4.30%
II	506	649	143	28.30%	601	515	-86	-14.30%	5,545	5,578	33	0.60%
III	400	452	52	13.00%	469	378	-91	-19.40%	5,848	5,198	-650	-11.10%
IV	355	316	-39	-11.00%	27	2	-25	-92.60%	7,452	6,134	-1,318	-17.70%
V	313	317	4	1.30%	...	...	...	0.00%	6,549	6,255	-294	-4.50%
VI	322	278	-44	-13.70%	...	...	...	0.00%	6,030	5,502	-528	-8.80%
Sub Total	**3,922**	**3,965**	**43**	**1.10%**	**2,312**	**2,056**	**-256**	**-11.10%**	**43,120**	**39,845**	**-3,275**	**-7.60%**
VII	147	148	1	0.70%	...	...	...	...	...	...	...	...
VIII	153	139	-14	-9.20%	...	...	...	...	...	...	...	...
Sub Total	**300**	**287**	**-13**	**-4.30%**	**...**	**...**	**...**	**...**	**...**	**...**	**...**	**...**
IX	122	160	38	31.10%	...	...	...	...	...	...	...	...
X	180	202	14	7.80%	...	...	...	...	...	...	...	...
Sub Total	**302**	**362**	**52**	**17.20%**	**...**	**...**	**...**	**...**	**...**	**...**	**...**	**...**
XI	2,969	2,504	-465	-15.70%	...	...	...	...	...	...	...	...
XII	4,658	4,325	28	0.60%	...	...	...	...	...	...	...	...
Sub Total	**7,627**	**6,829**	**-437**	**-5.70%**	**...**	**...**	**...**	**...**	**...**	**...**	**...**	**...**
VII-X	602	649	39	6.50%	...	...	...	...	...	...	...	...
Total	**12,151**	**11,443**	**-355**	**-2.90%**	**2,312**	**2,056**	**-256**	**-11.10%**	**43,120**	**39,845**	**-3,275**	**-7.60%**

Source: Annual Education Statistics, MoE

	Lower & Middle Secondary				Higher Secondary Schools				Total			
	2015	**2016**	**+ or -**	**%**	**2015**	**2016**	**+ or -**	**%**	**2015**	**2016**	**+ or -**	**%**
	5,699	5,194	-505	-8.90%	480	1,006	526	109.60%	13,882	13,565	-317	-2.30%
	5,535	5,626	91	1.60%	449	1,092	643	143.20%	13,218	13,645	427	3.20%
	5,444	5,555	111	2.00%	519	1,007	488	94.00%	12,615	13,304	689	5.50%
	5,858	5,198	-660	-11.30%	573	924	351	61.30%	13,148	12,150	-998	-7.60%
	7,612	6,765	-847	-11.10%	746	1,294	548	73.50%	16,192	14,511	-1681	-10.40%
	7,993	7,163	-830	-10.40%	814	1,336	522	64.10%	15,669	15,071	-598	-3.80%
	7,560	7,257	-303	-4.00%	655	1,371	716	109.30%	14,567	14,408	-159	-1.10%
	45,701	**42,758**	**-2,943**	**-6.40%**	**4,236**	**8,030**	**3,794**	**89.60%**	**99,291**	**96,654**	**-2,637**	**-2.70%**
	13,311	12,650	-661	-5.00%	1,934	2,692	758	39.20%	15,392	15,490	98	0.60%
	11,538	11,296	-242	-2.10%	1,909	2,428	519	27.20%	13,600	13,863	263	1.90%
	24,849	**23,946**	**-903**	**-3.60%**	**3,843**	**5,120**	**1,277**	**33.20%**	**28,992**	**29,353**	**361**	**1.20%**
	6,951	7,253	302	4.30%	6,274	5,976	-298	-4.70%	13,347	13,389	42	0.30%
	5,572	6,078	506	9.10%	5,587	5,713	126	2.30%	11,339	11,993	654	5.80%
	12,523	**13,331**	**808**	**6.50%**	**11,861**	**11,689**	**-172**	**-1.50%**	**24,686**	**25,382**	**696**	**2.80%**
	…	…	…	…	5,728	5,582	-146	-2.50%	8,697	8,086	-611	-7.00%
	…	…	…	…	5,078	5,760	682	13.40%	9,736	10,085	349	3.60%
	…	**…**	**…**	**…**	**10,806**	**11,342**	**536**	**5.00%**	**18,433**	**18,171**	**-262**	**-1.40%**
	37,372	37,277	-95	-0.30%	15,704	16,809	1,105	7.00%	53,678	54,735	1,057	2.00%
	83,073	**80,035**	**-3,038**	**-3.70%**	**30,746**	**36,181**	**5,435**	**17.70%**	**171,402**	**169,560**	**-1,842**	**-1.10%**

Table 3.8: Number of Students by Grade, Bhutan (2012-2016)

(Numbers)

Grade	2012	2013	2014	2015	2016
Primary grade	**110,575**	**104,323**	**101,667**	**99,291**	**96,654**
PP	13,464	12,433	13,175	13,882	13,565
I	15,843	13,349	12,486	13,218	13,645
II	16,967	15,537	13,516	12,615	13,304
III	16,721	15,880	15,102	13,148	12,150
IV	16,750	17,096	16,785	16,192	14,511
V	15,773	15,506	16,015	15,669	15,071
VI	15,057	14,522	14,588	14,567	14,408
Lower Secondary grade	**27,887**	**28,018**	**28,929**	**28,992**	**29,353**
VII	14,359	14,973	15,186	15,392	15,490
VIII	13,528	13,045	13,743	13,600	13,863
Middle Secondary grade	**22,941**	**23,581**	**24,400**	**24,686**	**25,382**
IX	12,408	12,816	12,543	13,347	13,389
X	10,533	10,765	11,857	11,339	11,993
Higher Secondary school	**15,244**	**16,469**	**17,397**	**18,433**	**18,171**
XI	7,386	7,870	8,118	8,697	8,086
XII	7,858	8,599	9,279	9,736	10,085
Total	**176,647**	**172,391**	**172,393**	**171,402**	**169,560**

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 2015 and Civil Service Statistics, December 2016, published by the Royal Civil Service Commission (RCSC).

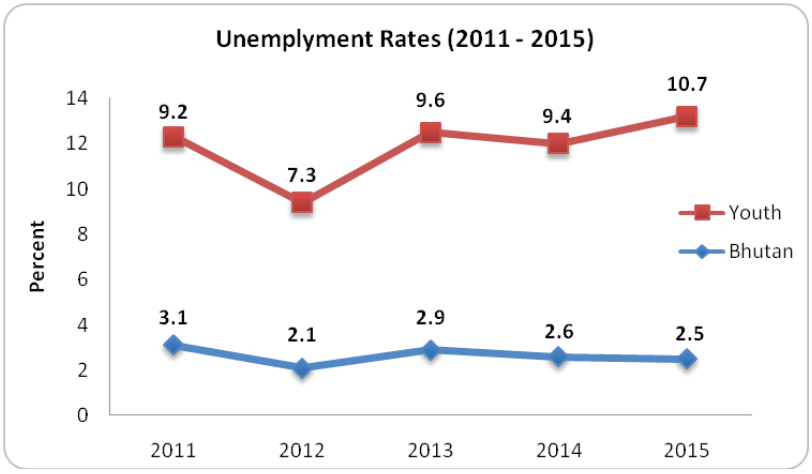


Table 4.1: Civil Servants by Position Category and Employment Type, Bhutan, (2013-2016)

Position Category & Position Level	2013			2014			2015			2016		
	Regular	Contract	Total	Regular	Contract	Total	Regular	Contract	Total	Regular	Contract	Total
Executive Position Category												
No Level [1]	5	0	5	10	...	10	5	...	5	3	...	3
EX1	27	0	27	27	...	27	28	...	28	25	...	25
EX2	37	1	38	45	1	46	48	2	50	47	2	49
EX3	82	0	82	74	1	75	62	2	64	62	2	64
Total	151	1	152	156	2	158	143	4	147	137	4	141
Specialist Position Category												
ES1	3	0	3	1	...	1	2	...	2	3	...	3
ES2	11	1	12	22	1	23	26	1	27	32	2	34
ES3	73	1	74	71	1	72	74	1	75	69	1	70
Total	87	2	89	94	2	96	102	2	104	104	3	107
Professional & Management Position Category												
P1	413	7	420	531	9	540	658	10	668	850	16	866
P2	976	12	988	1,197	18	1,215	1,326	19	1,345	1,560	25	1,585
P3	1,825	69	1,894	2,017	71	2,088	2,214	71	2,285	2,737	96	2,833
P4	3,411	235	3,646	4,299	240	4,539	4,746	225	4,971	3,990	211	4,201
P5	5,583	188	5,771	5,088	187	5,275	4,724	163	4,887	2,925	680	3,605
Total	12,208	511	12,719	13,132	525	13,657	13,668	488	14,156	12,062	1,028	13,090
Supervisory &Support Position Category												
SS1	...	...	...	...	...	...	...	...	...	2	...	2
SS2	...	...	...	...	...	...	...	...	...	187	2	189
SS3	...	...	...	...	...	...	...	...	...	815	...	815
SS4	...	...	...	...	...	...	...	...	...	1,229	19	1,248

cont...

Table 4.1 cont...

Position Category & Position Level	2013			2014			2015			2016		
	Regular	Contract	Total	Regular	Contract	Total	Regular	Contract	Total	Regular	Contract	Total
S1	2,117	37	2,154	2,258	43	2,301	2,428	242	2,670	2,417	42	2,459
S2	2,367	16	2,383	2,391	21	2,412	2,222	23	2,245	2,082	258	2,340
S3	1,653	6	1,659	1,684	7	1,691	1,772	7	1,779	1,838	8	1,846
S4	1,756	42	1,798	2,025	32	2,057	2,030	31	2,061	1,710	37	1,747
S5	1,885	214	2,099	1,517	240	1,757	1,150	207	1,357	745	270	1,015
Total	9,778	315	10,093	9,875	343	10,218	9,602	510	10,112	11,025	636	11,661
Operational Positon Category												
O1	723	2	725	723	4	727	720	4	724	793	5	798
O2	442	33	475	430	34	464	402	35	437	319	82	401
O3	349	0	349	389	...	389	395	...	395	412	1	413
O4	650	54	704	559	52	611	485	51	536	309	109	418
Total	2,164	89	2,253	2,101	90	2,191	2,002	90	2,092	1,833	197	2,030
Grand Total	**24,388**	**918**	**25,306**	**25,358**	**962**	**26,320**	**25,517**	**1,094**	**26,611**	**25,161**	**1,868**	**27,029**

Note: [1] Eminent members of the Parliament and Attorney General.
Source: Civil Service Statistics, December 2016, RCSC.

Table 4.2: Civil Servants by Working Agency and Employment Type, Bhutan, 2016

AGENCY	REGULAR			CONTRACT			GRAND TOTAL	% Against Grand Total
	Bhutanese	Non-Bhutanese	Total	Bhutanese	Non-Bhutanese	Total		
His Majesty's Secretariat	45	0	45	28	0	28	73	0.27%
His Majesty the 4th King's Secretariat	14	0	14	16	0	16	30	0.11%
JUDICIARY								
Royal Court of Justice	415	0	415	2	0	2	417	1.54%
Supreme Court of Bhutan	2	0	2	0	0	0	2	0.01%
LEGISLATIVE								
National Assembly Secretariat	49	0	49	33	0	33	82	0.30%
National Council	40	0	40	24	0	24	64	0.24%
CONSTITUTIONAL								
Royal Audit Authority	218	0	218	1	0	1	219	0.81%
Royal Civil Service Commission	89	0	89	7	0	7	96	0.33%
Anti-Corruption Commission	89	0	89	1	0	1	90	0.36%
MINISTRIES								
Ministry of Agriculture & Forests	2,821	0	2,821	52	0	52	2,873	10.63%
Ministry of Health	1,177	2	1,179	79	15	94	1,273	4.71%
Ministry of Finance	832	1	833	14	1	15	848	3.14%
Ministry of Education	232	0	232	61	13	74	306	1.13%
Ministry of Works & Human Settlement	687	6	693	2	5	7	700	2.59%
Ministry of Economic Affairs	621	0	621	2	1	3	624	2.31%
Ministry of Home & Cultural Affairs	539	1	540	10	2	12	552	2.04%
Ministry of Information & Communications	466	0	466	14	1	15	481	1.78%
Ministry of Labour & Human Resources	352	0	352	9	0	9	361	1.34%
Ministry of Foreign Affairs	178	2	180	7	0	7	187	0.69%

cont...

Table 4.2 cont...

AGENCY	REGULAR			CONTRACT			GRAND TOTAL	% Against Grand Total
	Bhutanese	Non-Bhutanese	Total	Bhutanese	Non-Bhutanese	Total		
AUTONOMOUS & OTHER AGENCIES								
Jigme Dorji Wangchuk National Referral Hospital	901	0	901	8	10	18	919	3.40%
National Land Commission	201	0	201	46	0	46	247	0.91%
Tourism Council of Bhutan	74	0	74	0	0	0	74	0.27%
Gross National Happiness Commission	70	0	70	0	0	0	70	0.26%
Royal Institute of Management	59	0	59	1	0	1	60	0.22%
Bhutan Standards Bureau	54	0	54	0	0	0	54	0.22%
Office of Attorney General	52	0	52	0	0	0	52	0.19%
National Enviroment Commission	50	0	50	0	0	0	50	0.18%
Dratshang Lhentshog	46	0	46	14	0	14	60	0.22%
National Statistics Bureau	44	0	44	0	0	0	44	0.16%
Cabinet Secretariat	43	0	43	2	0	2	45	0.17%
Royal Education Council	40	0	40	11	0	11	51	0.19%
Bhutan Council for School Examination and Assessment	32	0	32	0	0	0	32	0.12%
Dzongkha Development Commission	30	0	30	1	0	1	31	0.11%
Bhutan Information Communications & Media Authority	28	0	28	1	0	1	29	0.11%
Center for Bhutan Studies & GNH Research	26	0	26	2	0	2	28	0.10%
Construction Development Board	25	0	25	0	0	0	25	0.09%
Drug Regulatory Authority	24	0	24	0	0	0	24	0.09%
National Commission for Women & Children	22	0	22	0	0	0	22	0.08%

cont...

Table 4.2 cont...

AGENCY	REGULAR			CONTRACT			GRAND TOTAL	% Against Grand Total
	Bhutanese	Non-Bhutanese	Total	Bhutanese	Non-Bhutanese	Total		
Bhutan Narcotic Control Agency	19	0	19	0	0	0	19	0.07%
Bhutan Olympic Committee	18	0	18	0	0	0	18	0.07%
Bhutan National Legal Institute	16	0	16	1	0	1	17	0.06%
Jigme Singye Wangchuk School of Law	12	0	12	2	0	2	14	0.05%
Royal Privy Council	9	0	9	3	0	3	12	0.04%
Bhutan Health Trust Fund	6	0	6	0	0	0	6	0.02%
Civil Society Organization Authority	6	0	6	0	0	0	6	0.02%
DZONGKHAGS								
Bumthang	469	0	469	22	1	23	492	1.82%
Chhukha	889	1	890	100	25	125	1,015	3.76%
Dagana	637	0	637	72	6	78	715	2.65%
Gasa	157	0	157	11	0	11	168	0.62%
Haa	353	0	353	24	4	28	381	1.41%
Lhuentse	448	0	448	32	0	32	480	1.78%
Monggar	767	0	767	92	9	101	868	3.21%
Paro	867	1	868	25	11	36	904	3.34%
Pema Gatshel	607	0	607	57	17	74	681	2.52%
Punakha	672	0	672	32	17	49	721	2.67%
Samdrup Jongkhar	619	0	619	61	13	74	693	2.56%
Samtse	1,044	0	1,044	104	45	149	1,193	4.41%
Sarpang	692	1	693	31	18	49	742	2.75%
Thimphu	412	0	412	15	4	19	431	1.59%

cont...

Table 4.2 cont...

AGENCY	REGULAR			CONTRACT			GRAND TOTAL	% Against Grand Total
	Bhutanese	Non-Bhutanese	Total	Bhutanese	Non-Bhutanese	Total		
Trashi Yangtse	517	1	518	56	4	60	578	2.14%
Trashigang	1,182	0	1,182	97	25	122	1,304	4.82%
Trongsa	404	0	404	39	4	43	447	1.65%
Tsirang	522	0	522	21	3	24	546	2.02%
Wangdue Phodrang	742	0	742	54	9	63	805	2.98%
Zhemgang	557	0	557	70	6	76	633	2.34%
THROMDES								
Thimphu	1,180	0	1,180	21	50	71	1,251	4.63%
Phuentsholing	271	0	271	6	25	31	302	1.12%
Gelephu	203	0	203	2	9	11	214	0.79%
Samdrup Jongkhar	135	0	135	9	8	17	152	0.56%
NON- CIVIL SERVICE AGENCIES								
Defence [1]	15	0	15	0	0	0	15	0.06%
Corporations	5	0	5	0	0	0	5	0.02%
Non-Government Organizations	3	0	3	0	0	0	3	0.01%
International Organizations	3	0	3	0	0	0	3	0.01%
Grand Total	**25,145**	**16**	**25,161**	**1,507**	**361**	**1,868**	**27,029**	**100.00%**

Note: [1] Finance and Accounts staff placed in RBG/RBA/RBP.
Source: Civil Service Statistics, December 2016, RCSC.

Table 4.3: Civil Servants by Position Level and Sex, Bhutan, 2016

Position Category	Regular						Total Regular
	Bhutanese			Non-Bhutanese			
	Male	Female	Total	Male	Female	Total	
Executive Position Category							
No Level [1]	2	1	3	0	0	0	3
EX1	25	0	25	0	0	0	25
EX2	45	2	47	0	0	0	47
EX3	53	9	62	0	0	0	62
Total	125	12	137	0	0	0	137
Specialist Position Category							
ES1	2	1	3	0	0	0	3
ES2	29	3	32	0	0	0	32
ES3	58	11	69	0	0	0	69
Total	89	15	104	0	0	0	104
Professional & Management Position Category							
P1	634	216	850	0	0	0	850
P2	1,138	422	1,560	0	0	0	1,560
P3	1,695	1,041	2,736	1	0	1	2,737
P4	2,477	1,513	3,990	0	0	0	3,990
P5	1,784	1,141	2,925	0	0	0	2,925
Total	7,728	4,333	12,061	1	0	1	12,062
Supervisory & Support Position Category							
SS1	1	1	2	0	0	0	2
SS2	108	78	186	1	0	1	187
SS3	656	155	811	1	3	4	815
SS4	835	393	1,228	1	0	1	1,229
S1	1,532	881	2,413	2	2	4	2,417
S2	1,300	782	2,082	0	0	0	2,082
S3	1,064	772	1,836	1	1	2	1,838
S4	874	834	1,708	2	0	2	1,710
S5	356	388	744	1	0	1	745
Total	6,726	4,284	11,010	9	6	15	11,025
Operational Position Category							
O1	658	135	793	0	0	0	793
O2	265	54	319	0	0	0	319
O3	341	71	412	0	0	0	412
O4	291	18	309	0	0	0	309
Total	1,555	278	1,833	0	0	0	1,833
Grand Total	**16,223**	**8,922**	**25,145**	**10**	**6**	**16**	**25,161**

Note: [1] Eminent members of the Parliament & Attorney General are summed up with Executive Position Category.
Source: Civil Service Statistics, December 2016, RCSC.

	Contract						Total Contract	Total Male	Total Female	Grand Total
	Bhutanese			Non-Bhutanese						
	Male	Female	Total	Male	Female	Total				
	0	0	0	0	0	0	0	2	1	3
	0	0	0	0	0	0	0	25	0	25
	2	0	2	0	0	0	2	47	2	49
	2	0	2	0	0	0	2	55	9	64
	4	0	4	0	0	0	4	129	12	141
	0	0	0	0	0	0	0	2	1	3
	2	0	2	0	0	0	2	31	3	34
	1	0	1	0	0	0	1	59	11	70
	3	0	3	0	0	0	3	92	15	107
	9	2	11	4	1	5	16	647	219	866
	6	2	8	10	7	17	25	1,154	431	1,585
	10	4	14	62	20	82	96	1,768	1,065	2,833
	21	38	59	109	43	152	211	2,607	1,594	4,201
	298	290	588	57	35	92	680	2,139	1,466	3,605
	344	336	680	242	106	348	1,028	8,315	4,775	13,090
	0	0	0	0	0	0	0	1	1	2
	2	0	2	0	0	0	2	111	78	189
	0	0	0	0	0	0	0	657	158	815
	15	3	18	0	1	1	19	851	397	1,248
	24	11	35	2	5	7	42	1,560	899	2,459
	182	76	258	0	0	0	258	1,482	858	2,340
	5	3	8	0	0	0	8	1,070	776	1,846
	30	5	35	0	2	2	37	906	841	1,747
	207	63	270	0	0	0	270	564	451	1,015
	465	161	626	2	8	10	636	7,202	4,459	11,661
	4	0	4	1	0	1	5	663	135	798
	39	43	82	0	0	0	82	304	97	401
	1	0	1	0	0	0	1	342	71	413
	104	3	107	2	0	2	109	397	21	418
	148	46	194	3	0	3	197	1,706	324	2,030
	964	**543**	**1,507**	**247**	**114**	**361**	**1,868**	**17,444**	**9,585**	**27,029**

Table 4.4: Percentage Distribution of Employed Persons by Major Economic Activity and Sex, Bhutan, 2015

Major Economic Activity	Male	Female	Total
Agriculture & Forestry	27.5	30.5	58.0
Mining & Quarrying	0.5	0.1	0.6
Manufacturing	2.8	3.7	6.5
Electricity, Gas & Water Supply	0.6	0.2	0.8
Construction	1.5	0.3	1.8
Wholesale & Retail Trade	3.2	4.6	7.8
Hotels & Restaurants	1.1	1.2	2.3
Transport, Finance & Communications	3.3	0.3	3.7
Financial Intermediation	0.5	0.2	0.7
Real Estate, Renting & Business Activities	0.7	0.3	0.9
Public Administration & Defence	7.4	1.8	9.2
Education	1.7	1.6	3.3
Health & Social Work	2.9	1.1	4.0
Private Households with Employed persons	0.0	0.5	0.6
Total	**53.6**	**46.4**	**100.0**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.5: Percentage Distribution of Employed Persons by Major Occupation and Sex, Bhutan, 2015

Major Occupation	Male	Female	Total
Legislators, Senior Officials & Managers	1.6	0.4	2.0
Professionals	5.8	2.8	8.7
Technicians & Associate Professionals	2.4	1.2	3.6
Clerks	1.6	1.1	2.6
Service workers & Shop & Market Sales workers	3.2	5.4	8.7
Skilled Agricultural & Fishery workers	27.5	30.5	58.0
Craft & Related workers	2.1	3.3	5.5
Plant & Machine Operators & Assemblers	4.3	0.1	4.4
Elementary Occupations	2.0	1.4	3.4
Armed Forces	3.0	0.1	3.2
Total	**53.6**	**46.4**	**100.0**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.6: Percentage Distribution of Employed Persons by Nature of Employment and Sex, Bhutan, 2015

Nature of Employment	Male	Female	Total
Regular paid employee	16.6	6.5	23.1
Casual paid employee	2.1	0.5	2.7
Contract/Piece paid employee	1.0	0.3	1.3
Own account worker (Non agriculture)	6.0	6.2	12.3
Own account worker (Agriculture)	14.7	10.4	25.1
Family worker (Non-agriculture)	0.7	2.5	3.2
Family worker (Agriculture)	12.5	19.9	32.4
Total	**53.6**	**46.4**	**100.0**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.7: Number of Persons Employed by Age Group,Type of Enterprise & Sex, Bhutan, 2015

Age	Civil Service		Other Government Agencies		Public/ Government Owned Companies		Private Companies	
	Male	Female	Male	Female	Male	Female	Male	Female
15-19	0	0	0	0	13	0	213	212
20-24	295	712	329	212	484	528	1,437	1,063
25-29	3,101	3,134	708	593	1,859	1,197	3,555	1,623
30-34	2,979	2,307	2,148	980	1,247	880	2,174	1,061
35-39	3,373	1,438	1,517	709	1,733	660	1,987	377
40-44	1,756	563	1,300	186	1,143	325	1,556	247
45-49	1,870	352	962	126	1,381	40	1,023	92
50-54	1,155	134	1,500	204	925	26	664	26
55-59	573	174	628	18	236	37	143	56
60-64	251	0	181	68	13	0	253	0
65+	13	0	421	0	0	0	13	0
Total	**15,366**	**8,813**	**9,692**	**3,097**	**9,033**	**3,692**	**13,018**	**4,756**

Source: Labour Force Survey Report 2015, MoLHR.

	Armed Forces		Private Business		Agri. Farming		NGO/INGO		Total		Grand total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	0	18	402	698	2,678	3,282	0	0	3,306	4,210	7,516
	305	172	2,381	4,191	8,483	9,330	13	13	13,727	16,221	29,948
	1,053	90	5,355	6,615	9,191	11,037	284	38	25,106	24,327	49,433
	2,697	117	5,138	5,178	7,958	12,371	92	44	24,433	22,938	47,371
	2,347	90	5,112	6,390	9,173	12,286	51	35	25,293	21,985	47,278
	1,917	35	3,564	3,917	9,354	12,763	13	26	20,603	18,062	38,665
	1,459	16	2,971	3,169	10,003	13,533	0	13	19,669	17,341	37,010
	298	0	2,368	1,706	10,220	13,127	26	26	17,156	15,249	32,405
	136	0	1,937	900	9,242	7,097	13	0	12,908	8,282	21,190
	13	0	1,357	502	8,443	4,839	0	0	10,511	5,409	15,920
	13	0	1,459	411	9,945	5,285	0	0	11,864	5,696	17,560
	10,239	**538**	**32,046**	**33,678**	**94,689**	**104,951**	**492**	**194**	**184,574**	**159,719**	**344,293**

Table 4.8: Percentage Distribution of Labour Force Participation, Employment Status by Age Group and Sex, Bhutan, 2015

Age	Labour Force participation rate			Unemployment rate			Employment rate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	9.1	10.5	9.9	4.8	7.2	6.2	95.2	92.8	93.8
20-24	53.6	58.5	56.2	9.0	14.0	11.8	91.0	86.0	88.2
25-29	90.1	69.8	78.8	5.2	5.8	5.5	94.8	94.2	94.5
30-34	95.2	75.7	84.7	1.8	2.0	1.9	98.2	98.0	98.1
35-39	96.7	75.7	85.6	0.1	0.5	0.3	99.9	99.5	99.7
40-44	98.0	73.5	84.8	0.1	0.3	0.2	99.9	99.7	99.8
45-49	98.9	80.1	89.1	0.2	0.3	0.2	99.8	99.7	99.8
50-54	95.8	82.7	89.2	0.0	0.1	0.1	100.0	99.9	99.9
55-59	77.9	49.6	63.7	0.2	0.2	0.2	99.8	99.8	99.8
60-64	74.8	33.7	52.9	0.0	0.2	0.1	100.0	99.8	99.9
65+	44.5	23.1	34.2	0.0	0.0	0.0	100.0	100.0	100.0
Total	**71.2**	**55.9**	**63.1**	**1.8**	**3.1**	**2.5**	**98.2**	**96.9**	**97.5**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.9: Total Employed Persons by Age Group and Completed Level of Education, Bhutan, 2015

Age	Level of Education											Total
	No formal education	Nursery	Primary	Lower Secondary	Middle Secondary	Higher Secondary	Bachelors Degree	Masters & Above	NFE	Religious Professionals	Don't know	
15-19	2,800	79	2,160	780	1,213	160	0	0	226	98	0	7,516
20-24	9,037	158	3,340	2,723	6,596	4,574	908	13	1,801	797	0	29,947
25-29	13,516	0	4,520	4,299	7,689	8,193	6,451	114	3,121	1,453	79	49,435
30-34	19,643	79	5,442	3,351	5,774	4,810	4,212	479	2,743	837	0	47,371
35-39	25,447	0	5,795	2,550	4,840	2,403	2,791	525	2,060	866	0	47,276
40-44	25,723	67	3,886	1,564	1,948	973	1,087	631	1,871	916	0	38,666
45-49	26,494	85	3,209	1,565	1,596	677	778	236	1,332	1,039	0	37,011
50-54	25,341	0	1,646	1,493	591	319	391	280	1,034	1,309	0	32,403
55-59	17,686	0	993	215	267	143	170	219	428	1,068	0	21,189
60-64	13,215	0	980	218	475	196	223	83	197	333	0	15,919
65+	16,285	0	421	79	33	141	13	13	0	574	0	17,559
Total	**195,185**	**469**	**32,391**	**18,836**	**31,023**	**22,589**	**17,024**	**2,592**	**14,813**	**9,290**	**79**	**344,293**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2015

Dzongkhag	Level of Education					
	No formal education	Nursery	Primary	Lower Secondary	Middle Secondary	
Bumthang	4,245	0	0	796	637	
Chukha	14,816	18	710	3,017	4,797	
Dagana	6,310	0	4,218	967	1,638	
Gasa	1,690	0	2,433	148	5	
Haa	5,184	0	79	126	380	
Lhuntse	3,588	134	126	561	620	
Mongar	11,967	317	695	1,219	1,237	
Paro	7,594	0	2,068	1,606	2,806	
Pemagatshel	8,815	0	1,846	614	770	
Punakha	10,473	0	1,006	679	1,126	
Samdrup Jongkhar	10,769	0	991	620	813	
Samtse	24,821	0	999	2,602	3,235	
Sarpang	15,962	0	4,915	1,087	2,155	
Thimphu	13,361	0	2,008	3,138	7,184	
Tashigang	12,554	0	5,028	116	614	
Tashiyangtse	6,723	0	758	43	608	
Trongsa	5,244	0	150	192	477	
Tsirang	5,362	0	463	588	362	
Wangdue	16,752	0	1,857	635	1,036	
Zhemgang	8,957	0	1,824	82	522	
Total	**195,185**	**469**	**32,391**	**18,836**	**31,023**	

Source: Labour Force Survey Report 2015, MoLHR.

	Higher Secondary	Bachelors Degree	Masters & Above	NFE	Religious Professionals	Don't know	Total
	258	103	17	249	221	0	7,236
	3,422	2,499	220	1,158	840	0	35,006
	454	761	0	280	163	0	13,006
	19	15	0	74	148	0	2,178
	183	68	70	660	579	0	7,377
	410	185	0	415	292	0	6,901
	1,026	319	15	2,096	864	0	21,125
	1,731	1,062	170	496	752	0	18,063
	836	823	13	1,920	418	0	15,214
	1,009	474	105	676	874	0	16,407
	1,345	337	0	1,956	593	0	17,433
	1,530	991	83	186	235	0	38,599
	1,731	675	126	588	270	79	24,682
	6,937	7,457	1,721	321	475	0	45,621
	212	266	0	500	321	0	15,341
	57	86	0	0	408	0	8,075
	121	144	12	969	248	0	7,871
	230	170	0	512	0	0	9,080
	655	328	13	875	1,109	0	23,228
	421	261	27	883	481	0	11,849
	22,589	**17,024**	**2,592**	**14,813**	**9,290**	**79**	**344,293**

Table 4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan, 2015

Major Economic Activity	Nature of Employment							Total
	Regular paid employee	Casual paid employee	Contract/ piece paid worker	Own-account workers (Non-agriculture)	Own-account workers (Agriculture)	Family workers (Non-agriculture)	Family workers (Agriculture)	
Agriculture and forestry	246	999	418	0	86,393	0	111,584	199,640
Mining and quarrying	1,963	28	14	0	0	0	0	2,004
Manufacturing	8,137	1,488	327	10,260	0	2,111	0	22,323
Electricity, gas and water supply	1,793	28	862	12	0	0	0	2,695
Construction	3,171	907	1,086	980	0	96	0	6,241
Wholesale and retail trade	2,752	242	262	17,952	0	5,583	0	26,791
Hotels and restaurants	3,016	103	25	3,340	0	1,498	0	7,981
Transport and communications	4,498	1,715	186	6,046	0	157	0	12,603
Financial intermediation	2,277	0	224	0	0	0	0	2,501
Real estate, renting & business activities	1,446	82	49	1,534	0	73	0	3,185
Public administration & defense	30,745	506	256	0	0	0	0	31,507
Education	10,667	207	201	176	0	0	0	11,251
Health & social work	8,234	2,874	627	1,800	0	120	0	13,655
Private households with employed persons	427	55	67	79	0	1,288	0	1,915
Total	**79,371**	**9,234**	**4,604**	**42,179**	**86,393**	**10,927**	**111,584**	**344,293**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.12: Employed Persons who looked for additional work by Dzongkhag, Sex and Area of Residence, Bhutan, 2015

Dzongkhag	Urban			Rural			Bhutan		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Bumthang	137	86	223	187	124	311	324	210	534
Chhukha	92	37	128	472	67	540	564	104	668
Dagana	18	0	18	81	0	81	100	0	100
Gasa	0	0	0	0	0	0	0	0	0
Haa	11	0	11	139	0	139	150	0	150
Lhuntse	0	0	0	537	873	1,411	537	873	1,411
Monggar	29	29	58	2,851	475	3,326	2,880	504	3,384
Paro	123	35	158	85	170	256	208	205	413
Pema Gatshel	0	0	0	104	0	104	104	0	104
Punakha	0	0	0	372	0	372	372	0	372
Samdrup Jongkhar	0	0	0	0	0	0	0	0	0
Samtse	83	0	83	104	0	104	186	0	186
Sarpang	31	62	94	238	79	318	270	142	412
Thimphu	385	141	526	0	0	0	385	141	526
Trashigang	0	0	0	0	0	0	0	0	0
Trashi Yangtse	14	0	14	79	0	79	93	0	93
Trongsa	0	0	0	0	59	59	0	59	59
Tsirang	15	0	15	64	0	64	79	0	79
Wangdue Phodrang	13	7	20	0	0	0	13	7	20
Zhemgang	27	0	27	769	96	865	796	96	892
Total	**979**	**397**	**1,376**	**6,083**	**1,945**	**8,028**	**7,062**	**2,342**	**9,405**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.13: Employed persons who worked per week by hours and by Major Economic Activity, Bhutan, 2015

Major Economic Activity	Total Hours Worked							Total
	<30	30-39	40-49	50-59	60-69	70-79	80+	
Agriculture and Forestry	9,448	18,278	63,641	52,346	23,408	23,641	8,878	199,640
Mining and Quarrying	28	232	1,324	315	92	13	0	2,004
Manufacturing	3,627	4,544	8,072	3,088	898	1,018	1,076	22,323
Electricity, Gas and Water Supply	28	321	1,870	318	68	57	33	2,695
Construction	153	756	2,492	1,333	449	752	306	6,241
Wholesale and Retail trade	711	1,800	6,960	6,073	2,478	4,049	4,720	26,791
Hotels and Restaurants	63	667	2,160	2,048	693	1,131	1,219	7,981
Transport, Finance and Communications	388	1,795	4,811	2,961	950	1,035	663	12,603
Financial Intermediation	55	1,002	1,238	164	9	0	33	2,501
Real Estate, Renting and Business Activities	629	687	1,029	429	56	175	180	3,185
Public Administration and Defense Activities	585	9,398	14,735	4,007	916	533	1,334	31,507
Education	398	2,637	6,516	1,051	364	98	187	11,251
Health and Social Work	590	4,118	6,431	1,116	310	659	430	13,655
Private Households with Employed Persons	127	244	771	478	55	7	233	1,915
Total	**16,829**	**46,479**	**122,051**	**75,728**	**19,293**	**33,168**	**19,293**	**344,293**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.14: Employed persons who worked during the past one week by nature of employment and hours of work, Bhutan, 2015

Nature of Employment	Total Hours Worked							Total
	<30	30-39	40-49	50-59	60-69	70-79	80+	
Regular paid employee	1,103	19,650	40,100	10,462	2,854	2,238	2,964	79,371
Casual paid employee	1,010	2,157	2,538	2,214	347	762	206	9,234
Contract/piece paid worker	162	619	1,898	730	343	640	211	4,604
Own-account workers (Non-agriculture)	4,091	4,582	11,578	7,813	3,232	5,353	5,530	42,179
Own-account workers (Agriculture)	3,194	5,671	26,018	23,100	12,193	11,553	4,664	86,393
Family workers (Non-agriculture)	1,014	1,258	2,654	2,464	810	1,118	1,609	10,927
Family workers (Agriculture)	6,253	12,543	37,264	28,944	10,965	11,505	4,110	111,584
Total	**16,829**	**46,479**	**122,051**	**75,728**	**30,746**	**33,168**	**19,293**	**344,293**

Source: Labour Force Survey Report 2015, MoLHR.

Table 4.15: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2015

Major Economic Activity	No formal education	Nursery	Primary	Lower Secondary	
Agriculture and forestry	147,965	384	16,189	7,991	
Mining and Quarrying	508	0	325	212	
Manufacturing	11,201	0	2,396	1,675	
Electricity, gas & water supply	472	0	179	302	
Construction	2,348	0	711	476	
Wholesale and retail trade	11,108	0	3,930	1,921	
Hotels & restaurants	2,798	0	778	497	
Transport communications	5,172	0	1,771	1,235	
Fincancial intermediation	128	0	106	75	
Real estate, renting & business activities	1,067	0	305	361	
Public Administration and defence	8,072	18	4,210	3,042	
Education	732	0	349	296	
Health and social work	2,452	67	966	599	
Private households with employed persons	1,162	0	175	155	
Total	**195,185**	**469**	**32,391**	**18,836**	

Source: Labour Force Survey Report 2015, MoLHR.

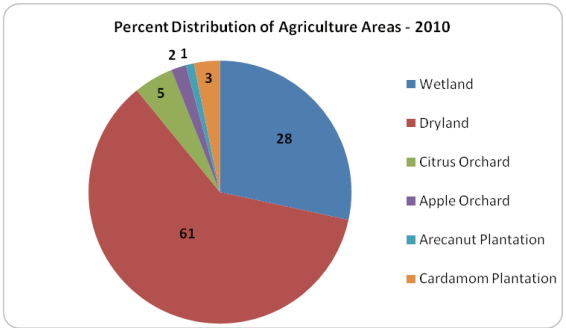
Completed Level of Education								Total
	Middle Secondary	Higher Secondary	Bach-elors Degree	Masters Degree & Above	NFE	Religious Profes-sionals	Don't know	
	7,569	2,900	195	13	11,901	4,454	79	199,640
	328	347	117	93	74	0	0	2,004
	3,240	1,403	938	44	1,222	205	0	22,323
	845	642	133	0	0	123	0	2,695
	1,074	726	591	72	81	162	0	6,241
	4,389	3,101	1,225	68	773	276	0	26,791
	1,781	1,401	590	13	114	9	0	7,981
	1,490	1,278	1,192	70	111	284	0	12,603
	223	575	1,179	199	15	0	0	2,501
	558	404	376	70	31	13	0	3,185
	5,489	4,199	4,647	1,154	164	511	0	31,507
	1,244	2,943	4,913	561	43	169	0	11,251
	2,430	2,607	929	236	284	3,085	0	13,655
	362	62	0	0	0	0	0	1,915
	31,023	**22,589**	**17,024**	**2,592**	**14,813**	**9,290**	**79**	**344,293**

Table 4.16: Unemployed Persons by Age Group, Sex and Area of Residence, Bhutan, 2015

Age	Rural			Urban			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	67	59	127	98	270	368	165	329	495
20-24	408	954	1,362	955	1,692	2,647	1,363	2,646	4,009
25-29	282	306	589	1,086	1,189	2,275	1,368	1,495	2,863
30-34	197	155	351	245	305	551	442	460	902
35-39	0	0	0	28	115	144	28	115	144
40-44	0	0	0	28	49	77	28	49	77
45-49	0	0	0	46	47	92	46	47	92
50-54	0	0	0	0	18	18	0	18	18
55-59	0	0	0	28	18	47	28	18	47
60-64	0	0	0	0	13	13	0	13	13
Total	**954**	**1,474**	**2,428**	**2,516**	**3,716**	**6,232**	**3,470**	**5,190**	**8,660**

Source: Labour Force Survey Report 2015, 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 2016, Agriculture contributed 16.52 percent to the total economy i.e. as measured by the Gross Domestic Product. It was also the single largest sector that provides livelihood over 58 percent of the population as per Labour Force Survey 2015.

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, (2012-2016)

(Numbers)

Infrastructure	2012	2013	2014	2015	2016
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	6
Soil and Plant Analytical Laboratory	1	1	1	1	1
Agriculture					
Agriculture Extension Centers	40	40	40	40	40
Agriculture Seed Production Farms	11	11	11	11	11
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
Livestock					
Dzongkhag Veterinary Hospitals	20	20	20	20	20
City Veterinary Hospital	1	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	6
Livestock Extension Centers	42	42	42	17	17
Satellite Veterinary Laboratories	3	4	4	4	4
Government Livestock Farms	11	11	11	13	14
Fodder Seed Production Center	1	1	1	1	1
Vaccine Production Centre (NCAH)	1	1	1	1	1
Artificial Insemination Production Center	1	1	1	1	1
National Research Center Riverine and Lake Fisheries	1	1	1	1	1
National Aquaculture Research Center	1	1	1	1	1
National Center for Animal Health	1	1	1	1	1
National Centre for Animal Nutrition	1	1	1	1	1
Liquid Nitrogen Centre	1	1	1	1	1
Semen Processing Centre	1	1	1	1	2

cont...

Table 5.1 cont...

Infrastructure	2012	2013	2014	2015	2016
Livestock Product Value Addition Centre, Serbithang		...	...	...	1
Forestry					
Territorial Division HQs	12	12	12	12	14
Range Offices	55	55	55	55	70
Beat Offices	80	80	80	80	81
Check post	41	41	41	41	41
National Parks	5	5	5	5	5
Wildlife Sanctuaries & Strict Nature Reserve	3	3	3	3	4
Nature Conservation Study Center	1	1	1	1	1
Forest Management Unit Office	14	14	14	14	16
Recreational Park	1	1	1	1	1
Forestry Conservation Research & Training Institute	...	...	...	...	1
Conifer Forestry Research Sub Center	...	...	...	...	...
NWFP and Agroforestry Technology Sub Center	...	...	...	...	...
Sub Tropical Forestry Technology Sub Center	...	...	...	...	...
Functional Divisions	6	6	6	6	5
Memorial Garden (Kudrong, Langjopjaka)	...	...	...	...	1
Nature Park (Kuenselphodrang)	...	...	...	...	1
Agro-forestry Project (Samazingkha)	...	...	...	...	1
Royal Tree Nursery (Samteling)	...	...	...	...	1
Percent of Forest cover	70.46	70.46	70.46	70.46	71.00
Percent of Protected Area	51.40	51.40	51.40	51.40	51.44

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

Table 5.2: Area Proportion by Altitude Zones as Percentage of Total Dzongkhag Area, Bhutan, 2016

Dzongkhag	Altitude Zones (metres)						
	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: Land Use and Land Cover of Bhutan 2016, GIS Section, FRMD, MoAF, Thimphu.

	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 5.3: 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 5.4: Distribution of Plant Protection Chemicals by Dzongkhag, Bhutan, (2010/11-2014/15)

kg / Litres

Dzongkhag	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015
Bumthang	303	420	512	442	571
Chhukha	161	415	157	210	6,953
Dagana	210	62	7	653	9,153
Gasa	...	...	...	...	...
Haa	421	661	785	731	567
Lhuentse	0	9	111	121	14,543
Monggar	374	319	1,405	1,262	10,498
Paro	4,541	6,186	6,806	6,945	185,173
Pema Gatshel	41	82	4	50	0
Punakha	69	89	243	171	70,199
Samdrup Jongkhar	20	0	0	0	0
Samtse	288	108	20	109	4,141
Sarpang	180	124	165	270	5,214
Thimphu	9,575	8,925	7,439	6,907	42,260
Trashigang	467	268	623	1,054	21,021
Trashi Yangtse	2	18	8	473	76,601
Trongsa	70	68	45	166	17,199
Tsirang	78	104	96	188	19,387
Wangdue Phodrang	2,928	3,259	4,657	4,824	55,690
Zhemgang	2	122	16	0	5,053
Bhutan	**19,730**	**21,239**	**23,099**	**24,576**	**544,224**

Source: Bhutan RNR Statistics 2016, 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, 2016

Dzongkhag	Wheat			Barley			Paddy		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
	(Acres)	(MT)	(Kg/Acre)	(Acres)	(MT)	(Kg/Acre)	(Acres)	(MT)	(Kg/Acre)
Bumthang	272	207	760	255	225	883	155	222	1,435
Chhukha	184	185	1,006	79	43	550	2,187	2,887	1,320
Dagana	46	12	269	21	7	353	3,950	5,238	1,326
Gasa	23	19	866	235	249	1,060	238	298	1,250
Haa	51	13	254	40	20	504	144	189	1,315
Lhuentse	10	15	1,460	2	2	952	1,840	3,570	1,940
Monggar	98	72	735	1,023	710	694	1,200	1,340	1,116
Paro	184	139	754	60	19	312	3,849	8,537	2,218
Pema Gatshel	1	1	800	23	7	294	207	220	1,065
Punakha	654	436	666	25	10	417	7,489	14,361	1,918
Samdrup Jongkhar	40	32	795	77	35	456	2,320	3,464	1,493
Samtse	154	96	628	1	1	563	7,219	10,612	1,470
Sarpang	96	60	621	2	1	690	4,342	6,669	1,536
Thimphu	150	139	929	22	12	536	590	1,313	2,225
Trashigang	56	44	784	98	97	993	3,400	5,004	1,472
Trashi Yangtse	3	1	370	2	1	626	2,359	4,184	1,774
Trongsa	364	171	470	277	147	530	1,470	2,314	1,574
Tsirang	50	18	360	12	2	193	3,639	5,254	1,444
Wangdue Phodrang	1204	817	679	177	101	570	5,141	7,741	1,506
Zhemgang	77	43	563	21	12	562	1,317	1,673	1,270
Bhutan	**3,717**	**2,520**	**678**	**2,452**	**1,701**	**694**	**53,056**	**85,090**	**1,604**

Source: Agriculture Statistics 2016, MoAF.

	Maize			Buckwheat			Millet		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
	(Acres)	(MT)	(Kg/Acre)	(Acres)	(MT)	(Kg/Acre)	(Acres)	(MT)	(Kg/ Acre)
	...	...	...	769	616	800	2	1	326
	2,788	3,429	1,230	798	378	474	310	109	350
	6,051	6,323	1,045	601	250	415	393	203	515
	...	...	...	...	...	...	...	...	...
	146	140	964	1,068	548	514	78	41	521
	2,462	4,369	1,775	37	17	468	89	42	476
	9,374	15,495	1,653	139	74	530	39	16	408
	47	7	157	72	36	499	4	2	538
	3,452	4,745	1,374	82	46	560	318	294	927
	300	318	1,059	129	73	569	...	...	...
	4,702	6,657	1,416	489	308	629	124	65	525
	4,048	5,262	1,300	384	156	406	546	255	467
	4,138	6,103	1,475	209	77	370	551	327	594
	4	4	1,134	...	...	...	...	...	...
	7,400	13,552	1,831	424	160	377	60	18	307
	1,665	3,055	1,835	64	34	532	190	147	772
	1,021	1,503	1,472	584	373	639	55	28	511
	5,088	6,964	1,369	250	88	352	359	114	319
	493	581	1,179	565	346	613	2	1	244
	3,431	3,527	1,028	235	126	536	124	50	406
	56,610	**82,034**	**1,449**	**6,899**	**3,706**	**537**	**3,244**	**1,713**	**528**

Table 5.7: Number of Livestock by Type and Dzongkhag, Bhutan, (2014-2016)

Dzongkhag	Local Cattle			Improved Cattle			Yak			Horse/ Equine		
	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
Bumthang	4,826	5,011	4,276	5,264	5,975	6,094	3,661	3,621	3,660	1,236	1,278	909
Chhukha	18,982	16,893	14,570	4,033	4,405	5,170	0	0	0	608	569	461
Dagana	13,820	13,574	14,326	3,528	3,582	4,053	0	0	29	1,348	379	342
Gasa	440	482	487	441	495	638	5,763	6,314	6,553	1,862	2,268	2,186
Haa	6,207	6,464	5,570	2,783	3,266	3,549	4,683	4,458	4,771	1,144	1,081	1,182
Lhuentse	9,072	10,477	9,851	2,216	3,159	3,081	387	316	368	1,292	1,463	1,250
Monggar	18,806	18,213	17,547	8,070	8,192	8,231	0	0	0	1,702	1,465	1,382
Paro	8,221	6,281	7,151	5,598	5,993	5,960	2,690	3,360	3,186	1,039	1,408	1,653
Pema Gatshel	3,156	2,786	2,139	4,874	5,053	5,489	0	0	0	519	459	396
Punakha	9,011	9,028	7,967	2,809	3,129	3,482	0	0	0	470	461	411
Samdrup Jongkhar	12,966	10,721	8,476	4,970	6,148	6,299	18	5	13	1,115	1,155	699
Samtse	25,958	26,418	32,939	3,841	4,892	6,397	0	0	0	284	300	314
Sarpang	16,589	16,548	12,899	7,727	7,529	7,511	0	0	0	524	497	450
Thimphu	1,339	1,544	1,827	1,843	1,984	2,951	9,757	10,005	10,331	1,249	1,410	1,586
Trashigang	20,525	19,508	18,852	7,267	7,842	8,392	14,096	6,202	15,964	3,003	2,712	2,579
Trashi Yangtse	8,732	7,686	8,071	2,994	3,279	3,634	538	555	831	1,249	1,184	1,166
Trongsa	8,684	7,626	6,582	3,239	3,693	3,703	126	85	284	458	388	189
Tsirang	6,513	5,706	4,966	6,234	6,778	6,906	0	0	0	118	115	95
Wangdue Phodrang	18,731	17,126	16,339	3,619	5,039	5,574	3,274	3,301	3,595	808	596	579
Zhemgang	8,686	9,014	8,359	1,783	1,947	2,430	0	0	0	1,193	1,065	975
Govern-ment Farms	...	...	...	...	...	...	0	0	0	...	...	86
Bhutan	**221,264**	**211,106**	**203,194**	**83,133**	**92,380**	**99,544**	**44,993**	**38,222**	**49,585**	**21,221**	**20,253**	**18,890**

Source: Livestock Statistics 2016, Department of Livestock, MoAF.

	Sheep			Goats			Pigs			Poultry		
	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
	290	694	258	4	5	6	36	0	80	2,059	5,102	2,453
	684	620	633	6,395	5,779	4,577	1,634	1,435	1,072	33,675	54,940	43,965
	436	267	118	16,832	7,182	7,776	1,732	1,781	2,015	17,960	28,133	36,257
	0	3	0	4	34	2	0		0	626	1,281	2,150
	0	1	1	41	10	31	122	75	119	6,394	8,822	10,125
	94	103	65	56	59	89	86	138	183	12,075	14,170	13,413
	2	8	4	67	65	48	731	1,065	500	31,048	33,456	32,469
	2	10	13	125	662	46	339	568	298	16,972	26,657	23,597
	0	6	0	41	78	26	428	540	501	12,821	14,955	18,847
	18	19	118	223	233	235	354	254	241	8,055	10,722	13,508
	36	57	37	1,259	1,442	1,327	404	460	339	21,430	20,652	34,968
	3,596	5,246	4,340	11,685	13,237	12,641	1,919	1,977	1,454	48,229	58,229	67,585
	637	607	554	4,366	4,327	4,115	2,168	2,879	3,771	170,015	165,041	331,320
	7	2	4	23	47	56	525	370	71	28,847	36,689	63,058
	2,454	2,756	3,094	149	257	241	542	529	372	22,727	21,658	21,745
	2	2	2	90	192	117	368	259	225	7,616	7,065	17,257
	369	107	107	41	91	62	30	75	10	6,701	11,349	12,131
	201	224	169	6,922	7,771	7,690	1,146	1,805	1,912	74,396	97,345	231,748
	1,552	676	1,349	444	450	243	916	726	529	19,366	13,253	17,219
	398	2	0	97	62	34	706	791	652	9,703	8,982	17,272
	...	...	411	...	...	151	...	...	980	...	...	27,466
	10,778	**11,410**	**11,277**	**48,864**	**41,983**	**39,513**	**14,186**	**15,727**	**15,324**	**550,715**	**638,501**	**1,038,553**

Table 5.8: Diary & Livestock Production by Type and Dzongkhag, Bhutan, (2014-2016)

Dzongkhag	Milk (MT)			Butter (MT)			Cheese (MT)			Beef (MT)		
	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
Bumthang	1,669.0	1,643.2	2,624.6	58.0	70.6	98.3	312.0	337.9	204.8	37.0	15.7	30.5
Chhukha	2,002.0	2,012.2	2,276.3	64.0	59.4	72.4	115.0	101.7	117.1	10.0	17.3	13.2
Dagana	1,579.0	1,855.2	2,340.5	62.0	74.2	86.2	85.0	97.2	80.8	55.0	66.8	53.5
Gasa	391.0	424.3	536.0	20.0	21.2	26.8	32.0	26.1	29.4	2.0	0.0	0.0
Haa	1,895.0	1,904.2	2,066.0	63.0	55.1	59.4	96.0	82.3	86.2	34.0	2.4	4.2
Lhuentse	899.0	1,587.7	1,447.2	44.0	75.9	71.7	77.0	133.7	128.2	34.0	38.7	10.9
Monggar	2,677.0	3,795.2	4,323.1	171.0	176.5	174.5	295.0	316.6	607.0	87.0	85.7	38.0
Paro	1,829.0	1,930.8	2,455.9	48.0	87.5	94.8	86.0	312.8	141.6	19.0	6.8	25.0
Pema Gatshel	1,089.0	1,590.5	1,686.2	47.0	64.0	72.3	84.0	117.5	130.0	6.0	10.8	22.0
Punakha	1,050.0	1,057.9	1,220.3	48.0	47.9	47.7	82.0	88.1	76.3	17.0	18.2	10.1
Samdrup Jongkhar	1,931.0	1,937.5	2,632.5	66.0	80.1	72.5	114.0	133.2	130.4	31.0	44.3	20.4
Samtse	2,401.0	3,556.9	3,560.0	73.0	113.8	102.5	125.0	297.1	371.1	74.0	150.0	60.2
Sarpang	2,480.0	2,265.2	2,292.7	86.0	107.9	66.9	143.0	198.2	120.5	4.0	5.7	249.9
Thimphu	1,318.0	1,427.3	1,786.8	48.0	42.2	59.4	27.0	50.4	144.7	73.0	3.8	3.2
Trashigang	4,613.0	4,738.9	6,710.1	209.0	197.9	222.9	384.0	393.8	429.2	24.0	41.7	16.0
Trashi Yangtse	1,408.0	1,774.9	1,805.4	67.0	86.7	88.1	120.0	153.3	157.9	14.0	23.3	3.7
Trongsa	1,247.0	1,386.6	1,192.4	53.0	61.6	54.5	212.0	277.9	297.8	82.0	51.8	2.7
Tsirang	1,486.0	1,609.5	2,394.9	52.0	53.6	869.5	88.0	88.7	153.9	114.0	11.5	80.9
Wangdue Phodrang	1,977.0	2,315.7	2,481.2	94.0	112.8	120.1	164.0	203.4	208.3	25.0	30.4	40.2
Zhemgang	865.0	1,030.4	1,254.7	37.0	40.4	32.9	60.0	61.0	52.0	11.0	11.8	43.9
Bhutan	**34,807.0**	**39,844.1**	**47,086.6**	**1,409.0**	**1,629.3**	**2,493.3**	**2,702.0**	**3,470.7**	**3,667.0**	**639.0**	**636.5**	**728.6**

Source: Department of Livestock, MoAF.

	Pork (MT)			Mutton (MT)			Chicken (MT)			Fish (MT)			Eggs (000' nos)		
	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	354	468	378
	43.0	43.4	31.7	8.0	10.2	12.5	268.0	280.8	175.5	0.0	0.3	0.4	3,947	4,390	4,526
	40.0	47.6	60.4	28.0	22.9	29.7	59.0	94.4	96.1	21.0	38.0	13.4	990	1,389	1,899
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89	93	499
	3.0	3.2	4.2	0.0	0.1	0.1	1.0	0.4	1.1	0.0	0.2	0.0	583	659	1,949
	2.0	11.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	955	1,646	2,165
	31.0	42.2	38.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.9	3.8	4,272	4,732	5,254
	10.0	22.7	25.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	2,429	3,941	4,568
	14.0	18.9	22.0	0.0	0.0	0.0	0.0	1.5	0.1	1.0	0.9	1.0	1,503	1,956	2,563
	11.0	10.2	10.1	0.0	0.4	0.3	1.0	3.8	1.1	0.0	1.2	1.0	1,239	1,359	1,913
	8.0	16.4	20.4	2.0	4.5	10.6	16.0	18.1	31.7	37.0	33.7	49.2	2,105	2,332	4,359
	28.0	41.4	60.2	74.0	79.5	57.9	164.0	192.2	260.9	12.0	12.3	11.8	2,023	2,676	3,122
	91.0	93.7	249.9	29.0	27.5	45.0	215.0	193.2	319.0	40.0	49.4	48.1	14,301	15,884	25,635
	2.0	0.1	3.2	0.0	0.0	0.0	1.0	25.4	16.7	0.0	0.0	0.0	5,310	7,204	11,943
	10.0	11.3	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,061	2,767	3,082
	14.0	4.0	3.7	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1,020	1,226	4,059
	1.0	0.6	2.7	0.0	1.6	0.0	4.0	8.1	3.5	0.0	0.1	0.0	955	927	1,501
	38.0	38.2	80.9	19.0	18.4	34.6	202.0	202.5	286.5	5.0	3.2	9.9	10,338	11,792	18,547
	29.0	38.7	40.2	0.0	0.5	0.4	8.0	40.1	14.0	0.0	0.4	0.5	1,902	1,899	2,965
	14.0	18.3	43.9	0.0	0.2	0.1	2.0	1.7	2.7	2.0	8.6	11.1	1,330	1,353	3,223
	388.0	**462.5**	**729.6**	**161.0**	**165.9**	**191.2**	**944.0**	**1,062.9**	**1,209.2**	**119.0**	**149.1**	**150.5**	**58,706**	**68,695**	**104,149**

Table 5.9: Fruit Production and Yield, Bhutan, (2012-2016)

Fruits	Production (MT)					Yield (kgs/Bearing Tree)				
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016
Apple	7666	8032	7051	5308	6587	31	...	...	...	33
Mandarin	49490	33469	45226	15977	42700	45	...	...	...	48
Areca nut	7788	6249	7468	9406	9467	12	...	...	...	13
Banana	1547	1489	1631	2636	3076		...	...	...	29
Mango	743	656	586	651	644	58	...	...	...	27
Guava	732	592	787	588	665	30	...	...	...	25
Peach	1614	1148	1435	738	972	51	...	...	...	54
Pear	2166	1697	1137	867	852	109	...	...	...	58
Plum	695	744	738	385	376	64	...	...	...	42
Jackfruit	...	773	1102	1227	775	...	...	...	...	143
Papaya	...	106	126	214	282	...	...	...	...	47
Pomegranate	...	101	111	63	83	...	...	...	...	19
Persimmon	...	225	227	137	49	...	...	...	...	31
Sugarcane	...	292	324	508	345	...	...	...	...	...
Passion fruit	...	125	135	66	120	...	...	...	...	...
Pine apple	...	57	54	64	67	...	...	...	...	...
Litchi	...	169	172	160	134	...	...	...	...	24
Walnut	414	350	337	211	152	31	...	...	...	21
Date Plum (Gendum)	...	...	...	...	82	...	...	...	...	41

Source: Agriculture Statistics 2016, MoAF.

Table 5.10: Vegetables, Oilseeds, Spices and Pulses Production, Bhutan, (2012-2016)

(Metric Tones)

Details	2012	2013	2014	2015	2016
Potato	43,000	50,390	53,612	49,359	58,820
Chili	7,726	8,321	8,586	7,073	9,907
Tomato	337	...	899	627	455
Cabbage	3,413	3,961	4,364	5,209	6,685
Cauliflower	829	922	1,650	1,586	2,082
Broccoli	363	814	1,010	831	1,004
Asparagus	149	283	205	200	239
Carrot	585	755	746	1,094	1,276
Pumpkin	4,796	3,935	4,081	3,746	3,671
Radish	5,245	4,534	5,021	5,840	6,490
Turnip	7,994	9,757	9,967	10,423	10,499
Beans	2,479	2,636	2,830	3,612	4,409
Rajma Beans	...	...	...	...	...
Peas	779	1,180	970	1,218	1,014
Lady Finger	...	31	28	53	42
Green leaves	...	2,063	1,938	2,871	1,937
Egg plant	...	362	485	694	585
Garlic	...	752	846	899	1,176
Cucumber	...	2,378	2,484	1,697	1,194
Squash	...	2,366	2,118	2,609	2,626
Gourds	...	160	270	341	125
Dally chilli	...	187	...	100	112
Tree Tomato	...	329	424	341	275
Cultivated Mushroom	...	19	17	19	82
Cardamom	643	1,160	...	...	...
Garlic	644	752	846	899	1,176
Ginger	5,014	3,756	...	...	...
Onion Bulb	264	420	757	608	414
Mustard	790	955	...	...	...
Soybean	294	...	...	...	...

Source: Bhutan RNR Statistics 2016, MoAF.

Table 5.11: Volume and Value of Exports by Major Commodities, Bhutan, (2012-2016)

Commodity	Volume (MT)				
	2012	2013	2014	2015	
Rice	60.0	118.0	7.2	6.2	
Wheat / Barley [1]	5,745.0	1.0	0.0	0.0	
Other Cereals	1,039.0	18.0	1.1	2.1	
Apples	3,410.0	4,314.2	5,436.7	3,487.9	
Oranges	24,432.0	22,668.7	19,608.0	17,819.8	
Other Fruits	9.0	1.0	5.1	0.4	
Betel Nuts	1,145.0	2,668.1	5,456.7	4,458.0	
Areca nuts	...	...	...	...	
Potatoes	20,348.0	21,871.3	26,849.5	19,907.7	
Pepper	...	...	...	...	
Nutmeg & mace	...	...	...	...	
Cardamom	632.0	822.7	746.4	845.7	
Vegetables	3,926.0	2,006.4	2,097.8	1,826.8	
Oil Seeds		9.5	19.7	10.6	
Edible Oil	...	47.6	250.9	126.7	
MAPs	0	20.0	24.0	...	
Mushrooms (Matsutake)	2.0	...	3.2	3.0	
Ginger	1,439.0	1,531.0	1,230.0	...	
Cordyceps(KG)	0	872.3	654.6	902.2	
Coffee, Tea	...	...	...	...	
Tsheringma Tea bag	...	...	...	...	
Turmeric	...	...	...	...	
Honey	...	...	0.1	...	
Betel Leaves	...	...	881.0	...	
Incense	0.0	0.0	3.0	...	
Dairy Products (Cheese)	139.0	0.0	0.1	...	
Dairy Products (Butter)	...	0.0	...	...	
Live animals ('000)	0.0	0.0	23.0	...	
Meats	19.0	0.0	0.0	...	

Note: [1] After 2012, Wheat/Barley includes only wheat flour
Source: Bhutan RNR Statistics 2016, MoAF

	(KGM)	Value (Nu. In Million)				
	2016	2012	2013	2014	2015	2016
	5,024.0	6.2	13.1	0.9	0.4	0.1
	...	229.6	124.8	112.0	0.1	...
	5,923.0	26.0	0.2	0.2	0.0	0.2
	3,789,882.0	49.2	98.7	139.1	101.8	128.1
	15,545,690.0	452.6	519.1	542.6	467.6	439.1
	3,075.0	5.5	0	0.1	0	0.1
	1929981 (pon) & 30950 (KGM)	32.4	25.6	70.5	86.7	83.4
	1,904.0	...	...	...	...	0.3
	24,460,175.0	326.5	360.1	688.8	371.0	542.5
	1,500.0	...	...	...	...	0.0
	1,000.0	...	...	...	...	1.2
	713,013.0	434.8	658.6	421.4	940.8	633.9
	3,209,270.0	56.4	77.1	116.1	44.2	50.4
	3,750.0					
	123,456.0	...	2.9	13.7	8.0	9.7
	...	0.1	0.8	2.7	...	...
	4,109.0	6.3	...	11.4	12.1	18.5
	3,052,967.0	19.4	40.6	55.0	...	72.7
	898.0	101.6	258.8	375.3	194.2	141.0
	3,300.0	...	...	...	...	0.1
	71.0	...	...	...	...	0.1
	101.0	...	...	...	...	0.1
	226.0	...	...	0.0	...	0.2
	...	...	...	...	59.9	...
	...	...	...	2.4	...	...
	480.0	5.7	...	0.0	61.0	0.6
	...	...	...	...	...	...
	...	0.1	...	1.1	...	...
	...	0.5	...	...	...	...

Table 5.12: Volume and Value of Imports by Major Commodities, Bhutan, (2012-2016)

Commodity	Volume (Metric Tones)				(KGM)	Value (Nu. In Million)				
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016
Rice	68235.0	69885.0	79306.0	83646.1	87671227.0	1202.1	1540.4	1787.6	1668.1	1923.4
Wheat/Barley	13910.0	22188.0	23264.0	11081.9	5099161.0	135.5	378.9	416.2	186.8	99.1
Other Cereals	566.0	502.0	437.0	34.0	19477643.0	20.7	7.8	6.4	0.6	312.6
Fruits	3440.0	1905.0	2403.0	3665.8	3666918.0	99.3	42.1	75.4	90.1	100.7
Potatoes	5208.0	5283.0	5273.0	6009.7	...	60.9	56.8	80.6	60.5	...
Vegetables	8027.0	8259.0	12646.0	12841.2	...	126.6	238.6	411.0	337.6	...
Dairy Products (Cheese)	4358.0	6206.0	7807.0	1264.6	...				758.1	...
Dairy Products (Butter)				215.1	...	603.3	1003.5	1246.3	62.1	...
Edible Oil	12444.0	13761.0	18944.0	17550.0	14681533.0	733.7	966.7	996.2	968.4	1024.4
Oil Seeds				12.6	48950.0				1.4	5.3
Honey				34.5	...				7.0	...
Betel Nuts				159.2	...				8.9	...
Betel Leaves				861.4	...				61.8	...
Cardamom				3.4	...				2.1	...
Sugar	10154.0	10022.0	9732.0	...	...	359.6	322.3	330.2	...	...
Salt	...	7234.0	6184.0	...	...	...	31.0	33.8	...	...
Pork	1890.0	2314.0	2165.0		...	225.5	312.7	312.7		...
Beef	3906.0	4429.0	3740.0		...	427.3	547.8	501.4		...
Chicken	1.0	1006.0	1302.0	1369.3	...	0.1	116.4	165.8	173.7	...
Fish	2539.0	2872.0	3101.0	2479.3	...	126.4	284.1	394.4	316.7	...
Mutton	61.0	83.0	33.0		...	11.2	15.6	8.4		...

Source: Bhutan RNR Statistics 2016, MoAF

Table 5.13: Annual Average Price of Farm Products Received by Farmers, by Type, Bhutan, (2012-2016)

Category	Crop Name	Nu. / Kg				
		2012	2013	2014	2015	2016
Cereals	Wheat	20	21	22	34	38
	Rice (Local)	55	41	34	35	55
	Maize	...	21	16	18	59
	Buckwheat	...	87	61	74	88
Pulses	Rajma Bean	...	44	49	56	62
	Mung Bean	...	60	65	75	101
	Dal	...	69	...	...	...
	Lentil	...	53	81	115	...
Oil Seeds	Mustard	...	29	42	51	47
	Sunflower	...	163	59	36	147
	Soya bean	...	42	49	119	53
	Groundnut	...	64	67	59	67
	Pyrilla (Nam)	...	116	120	135	135
Spices	Ginger	92	90	60	40	43
	Garlic	81	82	81	89	75
	Cardamoms	...	937	1270	1364	789
	Dolay Chilli	...	150	...	...	...
	Onions	48	44	50	41	...
Vegetables	Potatoes	20	24	25	20	24
	Tomatoes	42	50	50	36	42
	Carrots	40	47	50	35	39
	Cauliflower	41	39	37	37	49
	Cabbages	24	25	26	21	26
	Radish	...	14	14	13	19
	Turnip	...	20	21	18	35
	Lady Finger	...	27	30	27	31
	Broccoli	...	45	45	46	61
	Peas (Green)	34	40	46	38	42
	Beans (Green)	41	41	41	38	46
	Asparagus	48	49	50	111	119
	Eggplants	34	31	28	28	37
	Cultivated Mushrooms	...	189	173	155	371

cont...

Table 5.13 cont...

Category	Crop Name	Nu. / Kg				
		2012	2013	2014	2015	2016
	Chillies	70	78	86	61	66
	Green Leaves	...	21	21	21	27
Fruits	Bananas	39	23	23	23	26
	Pineapples	41	22	21	29	28
	Mangoes	53	45	41	47	43
	Oranges	45	51	57	...	...
	Apples	87	34	29	31	50
	Pears	35	34	31	35	51
	Peaches	50	31	29	37	42
	Plums	30	27	23	26	28
	Walnuts	...	103	99	108	212
	Areca nuts	...	23	23	25	21
	Jackfruits	...	20	20	19	18
	Guavas	...	24	25	28	34
	Papayas	...	18	24	28	30
	Pomegranates	...	35	39	40	49
	Litchies	...	31	34	34	31
	Persimmons	...	35	35	42	42
	Passion fruits	...	29	28	35	44

Source: Bhutan RNR Statistics 2016, MoAF

Table 5.14:Imports and Sales of Food Items by Food Corporation of Bhutan, (2012-2016)

(Metric tones)

Commodity	2012	2013	2014	2015	2016
Imports					
Rice	7,565.0	7,435.2	7,216.78	9,027.22	8,733.83
Wheat	159.9	55.0	...	0.00	0.00
Sugar	4,033.8	2,634.0	696.31	1,257.71	1,220.60
Salt	462.2	732.8	703.19	795.75	772.10
Edible Oil	1,841.9	1,573.2	1,448.64	1,411.52	1,618.28
Pulses	520.5	511.1	256.52	413.46	324.90
Maida	276.3	373.3	472.50	652.44	573.63
Atta	372.3	299.3	217.56	266.88	221.80
Sales					
Rice	6,973.8	7,798.2	7,549.00	8,594.34	8,517.88
Wheat	153.2	69.4	3.00	0.00	0.00
Sugar	4,049.9	2,002.4	969.58	1,148.88	1,217.93
Salt	643.4	722.1	689.12	785.39	725.81
Edible Oil	245.1	1,458.0	1,554.34	1,518.48	1,567.30
Pulses	511.6	433.0	350.17	444.70	337.17
Maida	268.9	383.5	472.79	609.35	594.65
Atta	352.6	281.1	227.68	242.26	232.14

Source: Food Corporation of Bhutan, Phuentsholing.

Table 5.15: Quantity of Agricultural Produce Handled by Food Corporation of Bhutan, (2012-2016)

(Metric tones)

Commodity	2012	2013	2014	2015	2016
Potatoes	22,906.9	26,028.2	26,345.58	22,597.24	26,127.07
Vegetables	2,097.0	2,930.9	2,923.39	3,841.41	3,603.58
Apples	58.7	51.7	24.87	28.84	13.90
Oranges	1,141.6	3,176.1	2,112.97	1,853.71	791.26
Cardamom	0.0	0.1	0.00	0.00	0.00
Ginger	692.6	412.5	297.25	347.53	501.42
Garlic	0.0	0.1	0.15	0.07	0.86
Arecanut	356.3	213.3	232.33	437.94	378.86
Supari(dried doma)	0.0	0.0	0.00	0.00	0.00
Dry chili	0.0	0.0	0.00	0.00	0.00
Kidney bean(rajma)	11.4	9.6	10.22	8.65	12.89
Soya bean	1.6	14.4	7.20	8.27	0.42
Pulses	12.9	0.0	17.42	0.00	0.00
Mustard	0.0	0.0	0.00	0.00	0.00
Pipla (wild)	0.0	0.0	0.00	0.00	0.00
Lechi	0.0	0.0	0.00	0.00	0.00
Lemon	0.2	1.1	0.65	0.36	0.03
Apricot	0.0	0.0	0.02	0.00	0.02
Peach	0.5	0.2	1.40	2.08	1.24
Plum	1.0	5.1	1.80	1.20	0.63
Pear	0.0	0.1	0.97	0.18	0.09
Dry bean	0.0	0.0	0.00	0.00	0.00
Cordycepts	0.2	0.0	0.00	0.00	0.00

Source: Food Corporation of Bhutan, Phuentsholing.

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.

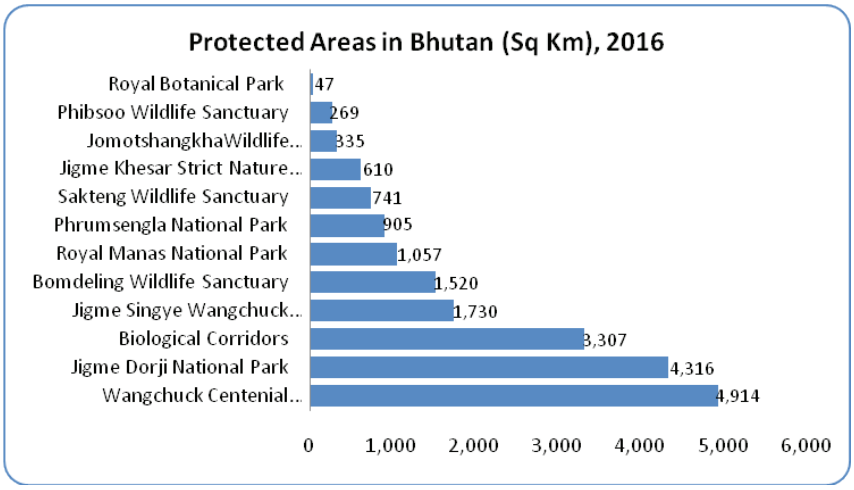


Table 6.1: Area of Land-Use and Vegetation by Types, Bhutan, 2016

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	2.75
Chhuzhing	31,891.87	0.83
Kamzhing	68,260.64	1.78
Orchards	5,529.92	0.14
Forests	2,717,161.64	70.77
Bluepine	101,155.06	2.64
Broadleaf	1,763,899.46	45.94
Chirpine	101,537.45	2.64
Fir	230,983.99	6.02
Mixed Conifer	519,585.68	13.53
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	159,455.55	4.15
Rock 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	0.16
Rivers	18,923.20	0.49
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, 2016

Dzongkhag	Forest Areas	Cultivated Agriculture	Meadows	Alpine Shurbs	Shrubs	Water Bodies	Snow & Glacier	Build up	Non Build up	Landslides	Moranes	Rocky Outcrops	Total
Bumthang	51.97	1.26	3.76	9.16	12.75	0.69	10.82	0.17	...	0.00	0.76	8.84	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	0.00	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	20.20	100
Haa	66.67	0.91	5.03	2.29	15.96	0.36	0.21	0.14	0.00	0.01	0.00	8.42	100
Lhuentse	64.79	1.31	1.15	7.05	9.35	0.41	16.75	0.06	0.00	0.04	0.34	1.74	103
Monggar	91.35	3.42	0.38	0.02	4.05	0.46	...	0.13	0.00	0.19	...	0.00	100
Paro	52.00	4.26	9.97	4.28	22.70	0.41	1.49	0.47	0.03	...	...	4.39	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	0.00	0.01	0.00	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	0.00	0.00	0.24	0.12	0.48	0.00	0.16	98
Sarpang	89.58	4.90	0.01	0.04	3.06	1.81	0.00	0.27	0.01	0.27	...	0.04	100
Thimphu	40.04	0.96	10.31	7.54	22.35	0.26	5.49	0.78	0.05	...	0.42	11.80	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	11.37	0.60	11.47	0.05	...	0.02	...	0.32	100
Trongsa	85.59	1.42	2.48	4.42	4.65	0.24	0.56	0.27	0.00	0.07	...	0.31	100
Tsirang	87.50	9.03	0.09	0.02	2.18	0.68	...	0.11	0.00	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	5.44	100
Zhemgang	94.17	1.44	0.03	0.53	2.69	0.69	0.11	0.05	0.00	0.15	...	0.12	100
Bhutan	**1483.47**	**68.26**	**47.21**	**59.26**	**177.91**	**12.16**	**78.10**	**4.26**	**0.33**	**2.25**	**4.86**	**63.45**	**2002**

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

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, 2016

(Degree Celsius)

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Bumthang	max	16.00	17.00	20.00	22.00	23.00	25.50	26.00	26.00	25.00	24.50	20.00	19.00	22.00
	min	-11.00	-2.00	-2.00	2.00	2.00	9.00	12.00	9.00	10.00	-1.00	-6.00	-9.00	1.08
	Ave	4.45	7.97	9.96	13.30	14.05	18.22	18.60	18.94	17.42	13.80	8.53	5.81	12.59
Phuntsholing, Chhukha	max	29.00	30.00	35.00	35.00	35.00	35.00	32.00	34.00	36.00	36.00	34.00	35.00	33.83
	min	8.00	16.00	15.00	16.00	18.00	19.00	22.00	22.00	19.00	19.00	18.00	18.00	17.50
	Ave	16.82	22.39	26.53	25.93	25.68	26.75	26.66	28.40	27.87	27.11	26.42	26.24	25.57
Dagana	max	14.00	18.50	21.50	24.00	23.50	24.00	23.00	26.50	23.50	23.50	21.50	18.50	21.83
	min	-1.50	1.00	0.70	7.00	8.50	10.50	13.50	13.00	12.00	6.00	4.00	1.50	6.35
	Ave	6.07	8.93	12.04	15.24	15.90	17.80	17.64	19.27	17.39	15.52	11.95	9.88	13.97
Gasa	max	10.00	13.00	19.00	21.00	22.00	23.00	26.00	26.00	25.00	25.00	13.00	15.00	19.83
	min	-6.00	-7.00	-4.00	-3.00	2.00	5.00	8.00	10.00	10.00	3.00	-3.00	-3.00	1.00
	Ave	1.38	2.27	7.08	10.28	12.17	15.46	17.91	18.44	18.12	13.49	4.18	3.69	10.37
Namjayling, Haa	max	12.00	18.00	19.00	18.50	22.00	22.00	22.00	25.50	20.50	20.50	18.50	18.50	19.75
	min	-10.00	-5.00	-4.00	0.50	4.00	9.50	11.00	9.00	10.00	-1.00	-6.00	-7.00	0.92
	Ave	1.80	5.27	7.02	10.63	12.35	16.04	16.53	17.20	15.28	11.60	6.57	4.90	10.43
Tangmachu, Lhuentse	max	9.50	13.50	14.50	17.00	18.00	20.50	20.50	20.50	20.50	19.50	13.50	12.50	16.67
	min	14.00	15.00	18.50	21.50	24.50	24.50	26.50	31.50	22.50	19.00	21.50	18.50	21.46
	Ave	12.96	16.11	19.15	21.86	23.21	26.05	25.69	26.80	24.91	21.36	17.60	15.04	20.90
Monggar	max	19.00	24.00	26.00	20.00	30.00	31.00	30.00	31.00	29.50	29.00	25.00	21.00	26.29
	min	3.00	5.00	9.00	12.00	13.00	14.00	17.00	18.00	16.00	10.50	8.50	6.00	11.00
	Ave	10.25	13.65	16.78	16.24	19.45	22.75	21.55	23.89	21.49	19.17	15.89	13.26	17.86

cont...

Table 6.5 cont...

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Punakha	max	25.00	30.00	34.00	35.00	35.00	36.00	35.00	35.00	34.00	33.00	30.00	27.50	32.46
	min	3.00	6.00	10.00	12.00	13.00	16.00	19.00	20.00	19.00	11.00	6.00	4.00	11.58
	Ave	14.23	18.02	21.77	24.21	25.28	29.14	26.65	27.44	26.47	23.73	18.08	16.78	22.65
Paro	max	16.00	21.50	22.50	25.00	26.50	28.00	27.00	30.00	25.00	25.00	21.00	20.00	23.96
	min	-6.50	-5.00	0.00	4.00	3.00	8.00	13.00	11.50	11.00	0.00	-3.50	-5.00	2.54
	Ave	4.63	8.34	10.38	14.64	15.44	18.97	18.40	19.67	17.20	13.69	9.83	7.28	13.20
Pema Gatshel	max	17.5	23	27	26	28	30	27	28.5	28	28	25	22	25.83
	min	2.00	6.00	8.00	11.00	13.00	14.00	17.50	18.00	17.00	8.50	7.50	6.00	10.71
	Ave	9.92	12.84	16.14	18.50	19.27	21.61	20.71	22.48	21.23	19.37	15.70	13.08	17.57
Deothang, Samdrup Jongkhar	max	22.50	27.50	29.50	27.50	30.00	30.50	31.50	33.00	30.50	30.00	28.50	26.00	28.92
	min	6.00	8.00	12.00	14.00	16.00	17.50	19.00	20.00	19.00	14.50	12.00	11.00	14.08
	Ave	14.40	17.65	20.19	21.08	22.18	24.38	24.48	25.81	23.93	22.84	19.95	18.15	21.25
Sipsu, Samtse	max	26	31	32	33	32	33	32	34.5	34	34	32	29.5	31.92
	min	9.50	10.00	15.00	15.00	18.00	19.00	21.00	22.00	20.00	18.00	16.00	13.00	16.38
	Ave	16.41	19.79	23.50	24.68	24.54	25.99	25.87	27.76	26.50	25.45	23.27	21.04	23.73
Bhur, Sarpang	max	18.16	20.81	24.29	25.37	26.57	27.19	26.27	29.98	25.55	26.38	22.90	20.94	24.53
	min	24.50	26.00	30.00	31.00	31.50	32.50	31.50	36.00	33.00	32.00	31.00	28.00	30.58
	Ave	11.00	16.00	20.00	20.00	20.00	24.00	2.00	25.00	22.00	19.00	17.00	13.00	17.42
Simtokha, Thimphu	max	19.00	24.00	26.00	27.00	28	31	30	30	29	28.5	24	24	26.71
	min	-7.00	-4.00	0.00	3.00	5.00	11.00	13.00	9.00	11.00	0.00	-4.00	-5.50	2.63
	Ave	5.90	8.99	12.59	16.14	17.31	21.47	21.10	21.49	20.19	15.81	10.96	9.51	15.12

cont...

Table 6.5 cont...

Dzongkhag	Temperature	Month												Average
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Kanglung, Trashigang	max	20.50	24.50	27.50	28.50	30.50	32.00	31.00	32.00	30.50	31.00	27.00	24.50	28.29
	min	0.00	3.00	6.50	8.00	11.00	11.50	14.50	15.00	13.00	8.00	5.50	3.00	8.25
	Ave	10.15	13.01	16.41	18.53	19.73	22.23	21.58	23.10	21.63	19.30	15.40	13.11	17.85
Trashi Yangtse	max	18.00	22.50	25.50	26.00	28.5	30.5	29.5	30.5	28.5	29.5	24	22.5	26.29
	min	-2.00	1.50	2.00	5.50	7.00	11.50	15.50	12.50	13.00	2.50	1.00	-1.50	5.71
	Ave	7.78	11.40	12.07	16.35	17.27	21.42	21.06	21.95	20.56	16.90	12.87	10.54	15.85
Trongsa	max	16.50	18.50	23.50	22.50	24.5	26.5	25.5	28.5	25.5	26	22	21	23.38
	min	-1.00	1.50	3.50	6.50	7.00	10.00	14.00	12.00	12.50	4.00	2.00	-0.50	5.96
	Ave	7.23	9.85	12.54	15.10	15.78	19.12	18.88	19.98	18.67	15.82	12.09	9.91	14.58
Damphu, Tsirang	max	17.00	21.50	23.00	25.00	26.00	26.00	27.00	27.50	25.00	26.00	24.00	21.00	24.08
	min	2.50	5.00	8.50	12.00	12.50	15.50	18.50	18.00	1.00	13.00	8.00	6.50	10.08
	Ave	9.35	12.58	15.70	18.64	19.63	21.39	21.30	22.69	20.96	19.66	15.20	13.14	17.52
Wangdue Phodrang	max	25.00	27.00	31.00	32	32	34	33	34	33	32	29	27	30.75
	min	0.00	6.00	9.00	10.00	13.00	17.00	17.00	18.00	17.00	8.00	6.00	2.50	10.29
	Ave	12.81	16.17	18.90	22.04	23.10	25.07	24.69	25.98	24.95	21.76	16.90	15.15	20.63
Zhemgang	max	15.50	19.50	23.00	23.50	25.50	25.5	27	29.5	26	27.5	23	19.5	23.75
	min	1.50	4.00	7.50	10.50	11.50	11.50	16.00	16.50	11.50	8.50	7.00	4.00	9.17
	Ave	7.98	11.00	14.32	17.23	18.15	18.14	20.64	22.23	19.94	18.05	13.98	12.06	16.14

Source : Metrology Division, Department of Hydromet Services, MoEA,Thimphu.

Table 6.6: Total Monthly Rainfall at Existing Stations in each Dzongkhag, Bhutan, 2016

(Millimeter)

Dzong-khag	Station	Month												Annual total rainfall
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Bumthang	Chamkher	10.5	6.6	35.7	65.3	95.1	48.4	182.2	95.7	113.4	86.9	0.3	0.0	740.1
	Gyetsa	...	...	44.4	196.3	75.6	16.9	169.9	85.0	54.0	41.0	...	...	683.1
Chhukha	Chhukha	18.0	19.8	50.5	80.1	152.5	189.8	571.8	54.7	296.4	137.9	0.0	0.0	1571.5
	Phuntsholing	20.9	0.0	137.9	66.4	130.6	140.9	1456.0	200.6	746.6	320.0	0.0	0.0	3219.9
Dagana	Dagana Dzong	0.2	18.8	2.6	8.2	75.3	120.7	461.2	94.3	241.7	281.8	0.0	0.0	1304.8
	Drujeygang	12.0	0.0	16.5	6.0	129.6	107.3	865.2	120.0	218.9	265.0	0.0	0.0	1740.5
	Sunkosh	12.0	0.0	16.5	6.0	129.6	107.3	865.2	120.0	218.9	265.0	0.0	0.0	1740.5
	Tashithang	234.0	236.5	329.5	418.5	464.0	523.0	603.5	564.4	...	427.0	313.5	255.0	4368.9
Gasa	Gasa Katey	13.0	26.0	137.0	117.0	200.0	370.0	393.0	241.0	279.0	162.0	2.0	0.0	1940.0
Haa	Haa Namjey-ling	0.0	3.8	70.1	44.9	82.2	84.2	286.8	131.5	157.1	116.2	0.0	0.0	976.8
Lhuntse	Autsho	61.0	24.0	100.0	217.0	277.0	349.0	426.0	409.0	373.0	251.0	61.0	59.0	2607.0
	Dungkhar	21.7	7.1	74.5	235.5	219.3	306.9	564.9	595.2	593.8	157.8	10.3	7.5	2794.5
	Tangmachu	7.8	5.6	42.6	99.3	59.3	111.4	158.1	127.9	132.0	102.3	0.0	3.1	849.4
Monggar	Monggar	14.0	1.4	45.4	94.6	91.4	74.4	333.8	66.2	89.4	173.8	0.0	2.8	987.2
	Lingmethang	12.0	0.0	6.9	92.8	129.3	43.0	242.7	18.0	144.1	172.2	0.0	0.0	861.0
	Sherichu	8.6	2.5	60.0	79.0	71.0	...	189.0	34.4	69.0	75.8	0.0	0.0	589.3
Paro	Paro DSC	9.8	0.4	32.6	12.4	85.2	51.5	229.0	65.7	122.4	79.3	0.0	0.0	688.3
	Betikha	120.0	0.0	255.0	506.0	402.0	214.0	1167.0	405.0	294.0	0.0	0.0	0.0	3363.0
	Drukgyel Dzong	0.0	0.0	52.0	16.0	61.0	44.0	273.0	4.1	181.0	90.0	0.0	0.0	721.1

cont...

Table 6.6 cont...

Dzong-khag	Station	Month												Annual total rainfall
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Pema Gatshel	Pemagatshel	14.5	2.6	59.1	147.5	161.5	208.7	711.7	62.7	196.2	94.8	0.0	0.0	1659.3
	Dungmin	0.0	0.0	7.0	165.0	147.0	434.0	833.0	0.0	235.0	106.0	0.0	0.0	1927.0
	Yurung	22.0	0.2	37.0	140.0	165.2	...	964.9	43.7	190.9	...	0.0	0.0	1563.9
	Dechenling	0.0	0.0	125.0	204.5	219.0	195.5	1108.0	85.5	325.0	35.0	0.0	0.0	2297.5
Punakha	Punakha Dzong	0.4	0.0	12.2	28.6	100.9	70.3	198.9	83.6	136.1	89.2	0.0	3.2	723.4
	Shelgana	0.0	0.0	2.3	35.0	6.1	76.0	13.1	7.8	4.2	0.5	0.2	0.5	145.7
Samdrup Jongkhar	Deothang	39.4	13.1	156.6	269.5	186.9	620.7	900.6	222.4	431.0	201.3	2.0	1.1	3044.6
Samtse	Tendu	13.2	...	...	83.8	304.8	...	916.4	nan	477.4	218.4	0.0	1.4	2015.4
	Samtse (NIE)	15.0	0.0	109.4	294.2	465.7	458.3	2727.0	1791.0	743.2	512.4	7.0	0.0	7123.2
	Sibsoo	33.6	5.2	134.0	230.8	558.0	1087.8	1412.5	626.0	675.0	375.2	0.0	0.0	5138.1
Thimphu	Simtokha	4.0	0.0	42.2	23.5	61.8	26.8	252.3	73.1	154.4	72.7	0.8	0.0	711.6
	Begana	0.0	0.0	...	15.2	25.0	46.4	411.5	202.9	229.0	84.2	13.0	0.0	1027.2
Sarpang	Surey	44.0	29.8	...	83.6	165.4	600.2	1982.4	151.0	701.0	...	0.0	8.6	3766.0
	Bhur	12.1	14.9	38.3	99.6	278.0	872.2	2392.0	340.6	1001.6	322.8	0.0	2.0	5374.1
Trashigang	Kanglung	15.6	5.6	47.8	150.8	110.6	131.4	287.4	119.5	89.6	73.2	0.0	1.2	1032.7
	Radhi	26.0	24.0	76.1	131.0	194.0	401.0	696.0	224.0	152.0	53.0	0.0	10.0	1987.1
	Thrimshing	9.2	1.8	16.4	176.4	101.2	158.2	362.4	8.4	58.9	49.3	0.0	1.1	943.3
Trashi Yangtse	Tashi Yangtse	19.5	15.9	47.1	136.5	108.4	106.2	196.7	152.5	326.3	133.7	0.5	3.3	1246.6
	Thragom	...	4.9	80.2	114.4	...	119.7	195.4	135.2	128.2	111.7	2.6	0.0	892.3

cont...

Table 6.6 cont...

Dzong-khag	Station	Month												Annual total rainfall
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Trongsa	Bjizam	15.0	19.2	35.5	82.2	...	...	295.4	127.3	162.4	104.9	1.8	0.6	844.3
	Trongsa	22.7	11.5	66.6	128.9	108.8	186.5	324.3	157.8	176.6	149.9	1.2	12.1	1346.9
Tsirang	Damphu	15.0	1.0	32.2	5.8	98.1	194.0	808.2	164.8	522.6	268.8	0.0	4.2	2114.7
Wangdue Phodrang	Wangdue (RNRRC)	14.2	0.0	7.2	32.3	38.4	64.0	229.1	79.4	149.0	8.9	1.0	1.9	625.4
	Gaselo	8.0	2.0	17.0	58.1	57.6	117.8	180.9	...	180.0	...	1.0	...	622.4
	Phobjikha	0.0	0.0	320.0	17.0	615.0	...	157.7	626.0	42.7	0.0	0.0	...	1778.4
	Samtengang	6.0	15.0	0.0	26.0	80.3	...	373.5	176.5	182.1	115.3	0.0	0.0	974.7
Zhemgang	Zhemgang	14.4	2.4	47.4	33.7	117.3	116.8	570.5	129.9	174.4	262.4	0.0	0.0	1469.2

Source : Metrology Division, Department of Hydromet Services, MoEA,Thimphu.

Table 6.7: Details of Protected Areas in Bhutan, by Year of Establishment, Area and Dzongkhags, Bhutan, 2016

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: Disposal of Logwood, Natural Resources Development Corporation Limited, Bhutan, (2012-2016)

Item	Units	2012	2013	2014	2015	2016
Logwood						
Logwood (Urban/Commercial/Auction)	Cft	1,988,520	1,747,583	1,758,993	1,903,067	1,729,577
Logwood (Rural)	Cft	185,306	292,037	112,936	51,850	40,623
Firewood	M3	35,826	32,867	35,988	40,491	38,185
Woodchips	M3	23,406	12,517	10,297	8,005	5,942
Sand	M3	476,280	375,361	303,381	330,132	433,800
Stone	Cft.	6,490,080	3,358,657	3,218,790	3,008,570	5,447,635
Stone aggregates from the crushing plant	Cft.	743,360	944,640	1,450,666	1,901,010	1,423,921
Poles	Numbers	2,116	2,893	3,633	4,184	4,949

Note : a. Firewood supplied only from NRDCL, excludes, the direct allotment by DOFPS
b. Poles include fencing post, dangchung, tshim and flag post
c. Poles supply include only those sold from NRDCL depot and exclude the direct allotment by DOFPS.
Source: NRDCL, MoAF, Thimphu.

Table 6.9: Supply of Timber by Divisions by Product Type, Bhutan, 2016

Product Type	Bumthang	Dagana	Gedu	Mongar	Paro	Samtse
Drashing	9,528.00	5,275.40	1,534.90	1,942.31	3,593.53	2,245.30
Shinglep	...	3.67	...	...	...	...
Cham	1,983.67	5,880.24	232.84	912.69	3,348.40	45.10
Tsim	85.82	698.20	113.26	4.36	70.35	11.99
Dangchung	0.34	11.64	87.29	0.80	17.35	0.40
Swan timber	853.89	625.08	1.38	105.44	6.14	...
Logs	202.50	15.72	11,089.36	910.07	427.99	...
Bakal	112.00	178.48	...	66.12	1.28	...
Firewood	2,431.71	17,204.00	7,162.41	14,538.24	2,253.23	1,059.58
Lops and Tops	236.00	...	304.00	196.44	292.00	...
Offcuts	30.00	...	1.60	...	...	...
Poles	3,945.22	2,525.00	529.40	346.69	1,555.61	100.35
Posts	857.76	1,640.00	427.05	1,027.91	186.31	79.23
Driftwood	...	...	16.00	24.00	...	...
Woodchips	...	...	16.00	...	...	...
Mushroom Billets	...	...	...	287.44	23.50	...
Others	81.54	...	4.04	78.38	...	...
Total	**20,348.45**	**34,057.43**	**21,519.53**	**20,440.89**	**11,775.69**	**3,541.95**

Source: FIMS, MoAF, Thimphu

(M3)

	Sarpang	Thimphu	Trashigang	Tsirang	Wangdue	Zhemgang	S/Jongkhar
	1,290.92	3,382.35	1,966.18	1,644.18	5,958.92	1,480.85	88.82
	...	14,090.91	...	8.46	16.25	...	...
	7.00	1,820.00	817.94	8.39	2,958.70	37.50	38.74
	0.07	142.81	53.46	...	412.88	46.00	...
	3.54	38.03	5.51	253.79	107.71	3.26	...
	86.42	...	115.95	3,369.75	30.58	224.91	642.83
	360.99	...	160.20	55.46	13.55	5.66	108.02
	9.10	16.45	21.99	11.96	334.40	24.20	12.00
	765.33	2,637.50	9,701.61	9,882.25	9,805.51	1,773.90	2,398.86
	...	328.00	24.00	...	935.51	58.00	...
	...	...	40.00	...	...	...	8.00
	536.42	2,830.41	545.89	155.59	308.15	515.83	228.02
	113.29	979.95	845.04	127.30	2,197.43	561.36	115.14
	...	...	...	...	18.30	...	...
	...	...	...	...	...	...	12.00
	...	64.75	55.50	87.50	214.62	14.00	...
	6.95	275.98	...	...	...	1,127.00	236.00
	3,180.03	**26,607.14**	**14,353.27**	**15,604.63**	**23,312.51**	**5,872.47**	**3,888.43**

Table 6.10: Supply of Timber by Parks and Wildlife Sancturies by Product Type, Bhutan, 2016

(M3)

Product Type	BWS	JDNP	JSWNP	PNP	PWS	RMNP	SWS	WCNP
Drashing	67.90	632.40	942.70	381.60	7.80	85.90	2,112.80	101.10
Shinglep	0.0	20.00	0.0	4,062.00	0.0	0.0	0.0	0.0
Cham	101.90	925.30	120.60	709.50	0.0	71.40	308.00	81.00
Tsim	1.50	0.0	114.40	22.10	0.0	0.0	8.20	8.20
Dangchung	0.0	5.40	5.40	17.80	0.0	0.0	0.0	0.0
Swan timber	0.5	502.50	0.0	49.30	0.0	2.80	0.0	0.0
Logs	21.90	0.0	0.0	34.10	5.70	0.0	0.0	0.0
Bakal	0.0	1,334.00	820.20	12,073.00	0.40	488.00	20,530.20	1,044.00
Firewood	1,935.60	0.20	0.0	25.30	0.0	0.0	133.50	0.0
Lops and Tops	32.00	0.0	0.0	119.00	0.0	0.0	0.0	0.0
Offcuts	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poles	54.00	132.60	37.90	236.80	0.0	5.00	304.20	186.80
Posts	44.80	13.90	198.50	96.60	98.00	58.50	466.00	70.70
Driftwood	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mushroom Billets	0.0	0.0	0.0	0.0	0.0	0.0	39.80	0.0
Others	2.60	0.0	60.00	0.0	0.0	2.60	0.0	0.0
Total	**2,262.20**	**3,566.30**	**2,299.70**	**17,827.10**	**111.90**	**714.20**	**23,902.70**	**1,491.80**

Source: FIMS, MoAF, Thimphu

Table 6.11: Quantity of Timber Supplied and Royalties Realized by Divisions and Parks, Bhutan, (2012-2013 to 2016)

Division/Park	Quantity of Timber Supplied (m3)							
	2012-2013	Nu. in Millions	2013-2014	Nu. in Millions	2014-2015	Nu. in Millions	2016	Nu. in Millions
Bumthang	24,966	4.93	4,041	0.56	6,757	0.45	20,348.00	1.78
Dagana	...	...	...	...	...	...	27,987.97	0.47
Gedu	7,145	0.25	4,903	0.11	7,835	0.47	21,199.40	0.86
Mongar	14,723	2.25	10,290	0.80	6,262	0.21	19,461.28	0.54
Paro	25,176	1.02	7,299	0.69	9,278	0.28	8,408.65	0.48
Samdrup Jongkhar	4,503	0.08	4,283	0.14	3,867	0.42	3,837.68	0.52
Samtse	7,247	4.29	2,815	1.53	6,051	1.06	3,496.46	0.48
Sarpang	722	4.56	3,282	0.67	8,542	11.88	3,160.39	0.33
Thimphu	6,356	0.15	4,498	0.14	5,495	0.15	24,732.66	0.29
Trashigang	6,013	1.13	4,914	1.61	14,287	0.57	13,507.82	0.64
Tsirang	4,939	16.45	3,362	0.83	6,237	0.33	15,330.49	0.31
Wangdue	8,081	0.73	12,174	0.88	22,239	1.96	19,911.70	0.79
Zhemgang	2,996	0.26	2,080	0.22	3,614	0.16	5,807.49	0.22
Bumdeling Wildlife Sanctury	1,596	0.70	872	0.59	11,623	0.18	2,262.74	0.10
Jigme Dorji National Park	1,968	0.35	7,238	0.35	3,322	0.24	3,566.23	0.34
Jigme Singye Wangchuck National Park	619	0.76	400	0.80	973	0.15	2,299.64	0.08
Phrumshengla National Park	...	...	...	...	...	...	17,827.20	0.37
Phibsoo Wildlife Sanctuary	...	...	...	...	...	...	111.90	0.01
Royal Manas National Park	584	0.80	394	0.95	471	0.18	714.24	0.06
Sakteng Wildlife Sanctury	5,440	1.20	3,658	17.02	3,543	0.10	23,902.60	0.23
Thrumshingla National Park	2,185	0.08	2,332	1.29	4,845	0.18	...	...
Wangchuck Centinial Park	1,421	0.70	439	0.78	4,572	0.14	1,491.82	0.05
Total	**126,680**	**40.64**	**79,276**	**29.94**	**129,812**	**19.11**	**239,366.36**	**8.95**

Source: Bhutan RNR Statistics 2015, MoAF

Table 6.12: Non-Wood Forest Products Supplied and Revenue Generated Through Royalty (Nu.) , Bhutan, 2016

Product Type	Units	Qty Supplied	Royalty Realised (Nu.)
Aggregate	M3	56,492.00	6,400.00
Stone Boulders	M3	2,718.04	640.00
Sand	M3	138,887.40	1,093,996.80
Clay Soil/ Top Soil	Kg	34,000.00	12,500.00
	Back Load	120.00	60.00
	M3	13,264.00	122,540.00
	Nos.	35,592.00	556.90
Flat Stone	M3	232.00	1,200.00
Cane/ Cane Shoot	Bundle	72.00	36.00
	Back Load	7,552.00	12,616.00
	Nos.	28,840.00	510.00
	M3	310.00	1,784.00
Charcoal	Kg	134,800.00	7,290.00
Daphne Bholua (Bark)	Kg	48,480.00	3,756.00
	Nos.	8.00	1,020.00
Incense (Leaves/ Wood)	Back Load	160.00	400.00
	Kg	75,308.00	33,702.79
	M3	48.00	300.00
Large/ Small Bamboo	Bundle	448.00	768.00
	Back Load	40.00	104.00
	Nos.	1,227,472.00	118,943.88
	M3	8,464.00	2,404.00
Leaf Mould	M3	6,392.00	73,332.00
Lemon Grass Oil	Ltr	2,360.00	1,475.00
Mushrooms	Kg	4,800.00	136,646.00
Ophiocordyceps Sinensis (Whole part)	Kg	22,243.46	883,144.08
Orozylum (Fruits)	Kg	80.00	40.00
Picorrhiza	Kg	28,680.00	36,340.00
Piper Longum (Fruits)	Kg	22,264.00	78,660.00
Rubia Cordifolia (Plant)	Kg	111,696.00	236,752.00
Paris Polyphylla	Kg	656.00	61,680.00
Shilajit	Kg	1,200.00	1,200.00

cont...

Table 6.12 cont...

Product Type	Units	Qty Supplied	Royalty Realised (Nu.)
Swertia Chirayita (Plant)	Kg	21,040.00	43,680.00
Terminalia Spp (Fruit)	M3	16.00	80.00
Thysanolaena Latifolia (Inflorescence)	Head Load	5,976.00	2,421.00
Viscum Nepalense (Whole)	Kg	800.00	500.00
Wildlinds (Seeds/ Seedlings)	Kg	3,024.00	6,488.00
	Nos.	30,416.00	5,984.00
	M3	96.00	552.00
Zanthyoxylum (Fruit)	Kg	465.00	1,860.00
Wood Burrs	Nos.	1,835.00	20,660.00
Thantch Grass	Bundle	2,800.00	1,230.00
Resin	Kg	205,076.80	101,931.20
Pine Needles	Bundle	56.00	21.00
	M3	416.00	1,974.00

Source: FIMS, MoAF, Thimphu

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

Dzongkhag	Total Area (Sq. km)	Distribution of area (Sq.km) by agro-ecological zones					
		Wet Sub-tropical (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, (2012-2016)

Minerals	2012	2013	2014	2015	2016
Dolomite (metric tonnes)	1,499,534.68	1,740,015.95	2,040,690.96	2,662,309.68	2,367,659.00
Lime stone (metric tonnes)	677,128.94	1,006,234.63	1,122,825.09	850,431.17	1,257,101.00
Gypsum (metric tonnes)	313,172.96	351,420.64	414,147.54	389,364.80	317,597.00
Coal (metric tonnes)	98,731.18	77,743.58	121,890.58	85,164.45	117,783.00
Marble (metric tonnes)	59,541.68	60,708.49	61,921.10	97,647.84	75,031.00
Slate (square feet)	...	...	...	...	...
Quartzite (metric tonnes)	88,630.78	90,909.28	83,907.14	79,818.50	92,770.00
Talc (metric tonnes)	16,062.59	9,584.24	12,601.37	5,807.27	2,261.00
Stone (metric tonnes)	1,494,467.05	38,542.28	1,474,394.94	2,203,065.41	3,414,215.00
Granite (metric tonnes)	1,806.78	6,463.81	4,362.21	3,889.05	...
Phyllite (metric tonnes)	1,016.52	13,818.40	40,076.71	40,417.25	41,800.00
Calc Tufa (metric tonnes)	8,872.62	...	...	...	...
Iron Ore (metric tonnes)	3,741.77	20,505.81	18,997.37	43,201.96	28,065.00
Clay	7,353.40	15,165.66	10,208.95	...	...

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

Table 6.15: Mineral Production by Type and Use, Bhutan, (2013-2016)

Minerals	2013			2014		
	Export	Domestic Use	Total	Export	Domestic Use	
Dolomite (metric tonnes)	1,730,644	9,372	1,740,016	2,004,877	35,814	
Lime stone (metric tonnes)	49,527	956,707	1,006,235	16,406	1,106,419	
Gypsum (metric tonnes)	311,492	39,929	351,421	368,411	45,736	
Coal mines (metric tonnes)	5,202	72,542	77,744	26,574	95,317	
Marble (square feet) 1	59,623	1,086	60,708	39,850	22,071	
Slate (square feet) 1	...	...	...	...	...	
Quartzite (metric tonnes)	3,091	87,818	90,909	2,228	81,679	
Talc (metric tonnes)	9,503	81	9,584	6,917	5,685	
Stone (metric tonnes	11,235	27,308	38,542	28,340	1,446,055	
Granite (square feet) 1	...	6,464	6,464	0.00	4,362	
Phyllite (metric tonnes)	...	13,818	13,818	12	40,065	
Calc Tufa (metric tonnes)	...	...	...	...	...	
Iron Ore (metric tonnes)	20,506	...	20,506	0.00	18,997	
Clay	15,166	...	15,166	0.00	10,209	

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

	2015			2016		
Total	Export	Domestic Use	Total	Export	Domestic Use	Total
2,040,691	2,495,580	166,730	2,662,310	2,283,725	83,934	2,367,659
1,122,825	24,579	825,853	850,431	1,244,999	12,102	1,257,101
414,148	343,684	45,681	389,365	241,650	75,948	317,597
121,891	5,403	79,762	85,164	...	117,783	117,783
61,921	14,543	83,105	97,648	36,358	38,674	75,031
...	...	...	...	...	...	...
83,907	2,120	77,699	79,818	2,745	90,025	92,770
12,601	3,470	2,338	5,807	...	2,261	2,261
1,474,395	104,482	2,098,584	2,203,065	553,639	2,860,576	3,414,215
4,362	-	63,438	63,438	...	96,827	96,827
40,077	36,592	3,826	40,417	2,615	39,185	41,800
...	...	...	...	...	...	...
18,997	...	43,202	43,202	...	28,065	28,065
10,209	...	...	...	...	...	...

Table 6.16: Length of Roads by Type, Bhutan, (2012-2016)

(Length in Km)

Type of Road	Ex-press-way	Primary National Highway	Secondary National Highway	Dzong-khag Road	Urban Road	Farm Road	Access Road [1]	All road
2012	6.2	1,768.6	521.2	1,050.9	326.9	4,380.9	1,436.7	9,491.5
Black topped	6.2	1,627.3	473.9	203.1	295.8	0.0	296.7	2,902.9
Non-black topped	0.0	141.4	47.3	847.8	31.2	4,380.9	1,140.0	6,588.5
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

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.

Source: Department of Roads, MoWHS, Thimphu.

Table 6.17: Length of Roads by Type and Dzongkhag, Bhutan, June 2017

(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	143.5	61.0	63.1	...	187.0	...	454.6	4.3
Chhukha	0.0	272.5	0.0	219.7	...	355.0	...	847.1	8.1
Dagana	0.0	0.0	136.0	128.5	...	177.0	...	441.5	4.2
Gasa	0.0	0.0	46.7	1.1	...	24.6	...	72.4	0.7
Haa	0.0	107.8	96.0	41.0	...	31.6	...	276.4	2.6
Lhuentse	0.0	0.0	65.0	123.9	...	435.5	...	624.3	5.9
Monggar	0.0	185.4	0.0	323.7	...	687.0	...	1196.1	11.4
Paro	0.0	67.5	58.0	57.1	...	69.0	...	251.6	2.4
Pema Gatshel	0.0	98.0	91.5	217.6	...	388.0	...	795.0	7.6
Punakha	0.0	51.0	30.0	60.4	...	318.0	...	459.4	4.4
Samdrup Jongkhar	0.0	70.0	74.0	119.3	...	303.0	...	566.3	5.4
Samtse	0.0	54.0	72.0	181.8	...	172.0	...	479.8	4.6
Sarpang	0.0	118.0	0.0	100.5	...	295.0	...	513.5	4.9
Thimphu	6.2	103.3	23.3	116.0	...	82.0	...	330.7	3.2
Trashigang	0.0	162.0	0.0	295.5	...	530.0	...	987.5	9.4
Trashi Yangtse	0.0	0.0	45.0	96.2	...	274.0	...	415.2	4.0
Trongsa	0.0	120.3	64.0	38.9	...	178.0	...	401.2	3.8
Tsirang	0.0	63.0	0.0	82.8	...	169.0	...	314.8	3.0
Wangdue Phodrang	0.0	134.0	6.8	153.5	...	258.0	...	552.3	5.3
Zhemgang	0.0	214.4	9.2	185.7	...	116.0	...	525.3	5.0
Bhutan	**6.2**	**1,964.6**	**878.4**	**2,606.2**	**436.8**	**5,049.7**	**1,406.2**	**12,348.1**	**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, (2012- June 2017)

Region	Government										
	Heavy	Medium	Light	Two-Wheeler	Power Tiller	TR	EME [1]	ElectricVehicle	Total	Heavy	Medium
2014	**1,176**	**231**	**2,572**	**1,454**	**162**	**91**	**253**	**...**	**5,939**	**7,298**	**1,161**
Thimphu	545	39	1,520	520	95	47	118	...	2,884	2,139	288
Phuntsholing	523	139	668	588	0	17	58	...	1,993	4,535	752
Gelephu	61	18	162	111	27	6	37	...	422	267	81
Samdrup Jongkhar	47	35	221	235	40	20	40	...	638	357	40
Monggar	0	0	1	0	0	1	0	...	2	0	0
2015	**1,185**	**238**	**2,512**	**1,400**	**333**	**113**	**266**	**28**	**6,075**	**7,381**	**1,244**
Thimphu	532	36	1,405	461	266	55	133	21	2,909	2,055	316
Phuntsholing	542	146	707	587	0	20	56	7	2,065	4,680	786
Gelephu	65	19	169	120	27	6	37	0	443	278	91
Samdrup Jongkhar	45	34	223	232	40	30	40	0	644	359	40
Monggar	1	3	8	0	0	2	0	0	14	9	11
2016	**1,237**	**259**	**2,654**	**1,417**	**388**	**119**	**278**	**29**	**6,381**	**8,243**	**1,346**
Thimphu	567	43	1,418	460	302	62	138	22	3,012	2,271	357
Phuntsholing	547	154	757	607	0	19	58	7	2,149	5,205	823
Gelephu	68	18	205	116	28	6	42	0	483	334	107
Samdrup Jongkhar	50	37	227	233	40	30	40	0	657	392	42
Monggar	5	7	47	1	18	2	0	0	80	41	17
June 2017	**1,250**	**266**	**2,795**	**1,415**	**451**	**125**	**320**	**26**	**6,648**	**8,582**	**1,391**
Thimphu	567	45	1,519	458	317	65	143	19	3,133	2,349	372
Phuntsholing	557	154	780	610	15	20	65	7	2,208	5,426	838
Gelephu	70	20	210	114	59	7	72	-	552	355	118
Samdrup Jongkhar	51	37	219	232	42	31	40	-	652	400	44
Monggar	5	10	67	1	18	2	-	-	103	52	19

Note: [1] Earth Moving Equipments (EME) include bull dozers, road rollers, pay loaders, excavators, cranes, etc.
a. Excludes vehicles of armed forces.
b. The figures are in cumulative.
Source: Road Safety and Transport Authority, MOIC, Thimphu.

Private								BHT		Diplomats/CD				All Types
	Light	Two-Wheeler	Taxi	Power Tiller	TR	EME	Electric Vehicle	Total	Light	Total	Light	Two-Wheeler	Electric Vehicle	Total	
	39,252	**8,529**	**4,109**	**1,219**	**238**	**1,752**	**...**	**63,558**	**55**	**55**	**45**	**5**	**...**	**50**	**69,602**
	23,530	3,746	2,707	804	70	523	...	33,807	55	55	45	5	...	50	36,796
	12,720	2,680	1,192	66	124	1,134	...	23,203	0	0	0	0	...	0	25,196
	1,409	900	156	105	17	50	...	2,985	0	0	0	0	...	0	3,407
	1,539	1,160	54	244	26	45	...	3,465	0	0	0	0	...	0	4,103
	54	43	0	0	1	0	...	98	0	0	0	0	...	0	100
	45,222	**7,578**	**3,939**	**1,382**	**271**	**1,942**	**63**	**69,022**	**53**	**53**	**39**	**1**	**...**	**40**	**75,190**
	26,662	2,392	2,652	948	76	600	57	35,758	53	53	39	1	...	40	38,760
	14,640	2,929	1,030	67	146	1,211	4	25,493	0	0	0	0	...	0	27,558
	1,885	975	195	113	22	60	2	3,621	0	0	0	0	...	0	4,064
	1,733	1,177	44	244	26	62	0	3,685	0	0	0	0	...	0	4,329
	302	105	18	10	1	9	0	465	0	0	0	0	...	0	479
	51,541	**8,223**	**4,222**	**1,556**	**302**	**2,317**	**80**	**77,830**	**49**	**49**	**36**	**1**	**...**	**37**	**84,297**
	30,416	2,656	2,826	1,116	87	755	70	40,554	49	49	36	1	...	37	43,652
	16,205	3,115	1,015	67	152	1,345	6	27,933	0	0	0	0	...	0	30,082
	2,381	1,046	289	118	28	95	4	4,402	0	0	0	0	...	0	4,885
	1,939	1,195	43	245	28	86	0	3,970	0	0	0	0	...	0	4,627
	600	211	49	10	7	36	0	971	0	0	0	0	...	0	1,051
	54,215	**8,451**	**4,283**	**1,681**	**321**	**2,514**	**66**	**81,504**	**46**	**46**	**28**	**-**	**1**	**29**	**88,227**
	31,873	2,765	2,841	1,236	93	829	56	42,414	46	46	28	0	1	29	45,622
	16,901	3,202	1,002	69	158	1,408	6	29,010	0	0	0	0	0	0	31,218
	2,657	1,068	325	121	34	113	4	4,795	0	0	0	0	0	0	5,347
	2,059	1,201	47	245	29	116	-	4,141	0	0	0	0	0	0	4,793
	725	215	68	10	7	48	-	1,144	0	0	0	0	0	0	1,247

Table 6.19: Total Electricity Generation and Supply, Bhutan, (2012-2016)

Details	2012	2013	2014	2015	2016
Installed capacity (MW)	**1,497.29**	**1,498.83**	**1,498.83**	**1,614.10**	**1,623.03**
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
Other hydro power	8.10	8.10	8.10	8.10	8.10
All diesel generators	9.19	10.73	10.73	8.04	8.93
Wind Power (MW)	...	...	...	...	0.60
Electricity generation (MU)	**6,823.71**	**7,550.04**	**7,164.16**	**7,747.17**	**7,953.58**
Chhukha hydro power	1,742.10	1,907.44	1,797.83	1,867.36	1,929.68
Kurichu hydro power	360.93	378.60	368.03	379.02	390.75
Basochu - I hydro power	105.82	117.74	109.25	113.21	116.71
Basochu - II hydro power	194.00	212.65	197.08	199.55	205.97
THPA	4,405.48	4,914.59	4,675.03	4,821.75	4,924.50
Dagachhu hydro power	...	...	...	350.26	374.23
Other hydro power	15.21	18.48	16.93	16.01	11.03
All diesel generators	0.18	0.54	0.01	0.02	0.00
Wind Energy (MU)	...	...	...	...	0.71
Exports (MU)	4,924.00	5,624.59	5,146.60	5,721.12	5,763.13
Imports (MU)	36.75	36.75	159.15	124.52	84.16
Total energy requirement (MU)	1,853.76	1,924.24	2,085.46	2,122.96	2,054.46
Total energy sales (MU)	1,769.59	3,346.60	3,959.81	4,576.30	2,008.91
Energy losses (MU)	84.17	82.77	80.63	66.73	3,716.90
Percentage losses (%)	5	4	4	3.00	44.16
Peak system demand (MW)	282.44	313.94	333.41	336.52	335.87
Length of HT lines (33/11 KV)					
Overhead lines (km)	4,090.35	5,021.27	5,568.40	5,705.57	6,286.09
Underground lines (km)	81.45	104.41	108.91	105.71	114.95
Overhead ABC Conductor (km)	...	...	...	114.45	129.04
Length of LT lines					
Overhead lines (km)	5,969.28	6,620.85	7,077.35	1,557.97	1,741.53
Underground lines (km)	193.35	314.74	360.16	368.50	396.66
Overhead ABC Conductor (km)	...	...	...	6,193.79	6,361.73

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

Table 6:20: Consumption of Electricity by Type of Consumer, 2016

Type of Consumer	Energy Sold (MU)	% of Total Sales	No. of Consumers
Domestic rural	103.054	5.13	99,417
Domestic urban	134.401	6.69	47,378
Commercial	57.107	2.84	11,613
Industrial	8.509	0.42	465
Agriculture	2.295	0.11	1,540
Institutions	61.913	3.08	10,979
Street lighting	3.914	0.19	414
Power house auxiliaries	1.003	0.05	34
Temporary connections	23.407	1.17	4,479
LV Bulk	64.889	3.23	770
MV Industries	110.986	5.52	46
HV Industries	1437.435	71.55	16
Total consumption (MU)	**2008.913**	**100.00**	**177,151**

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

Table 6.21: Percentage of Major Attraction to Bhutan, 2016

Attractions/Activities	%
Cutural	85.70
Trekking	6.22
Adventure	3.68
Tshechu and Festival	2.28
Spiritual and Wellness	1.13
Nature	0.99

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

Table 6.22: Import of Petroleum Products by Volumn and Value, (2012-2016)

PoL Products	2012		2013	
	Volume in KL/MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million
Diesel (HSD)	124,209.22	4,695.27	126,120.29	5,655.31
Petrol(KL)	29,316.90	1,636.28	30,272.20	1,750.31
Kerosene(S.K oil)	5,567.01	73.86	4,966.01	67.38
S.K. Oil (quota)	0.00	0.00	48.00	0.62
S.K. Oil (Industrial)	0.00	0.00	0.00	0.00
Kerosene type jet fuel(ATF)	2,082.02	120.46	3,168.00	197.09
LPG	7,480.71	194.96	6719.48	181.77
Lubricating Oil	2,380.92	365.25	2,573.47	404.56
Furnance Oil	1,363.36	64.97	721.58	34.03
LDO	189.11	11.43	204.00	13.49
Petroleum Bitumen	17,184.00	704.40	5,594.84	260.75
Others (waste oils)	225.17	17.51	218.28	21.66
Others (containing biodiesel other than waste oils)	19.33	2.07	58.29	1.70

Source: Bhutan Trade Statistics ,DRC, MoF, Thimphu

	2014		2015		2016	
	Volume in KL/MT	Value in Nu. Million	Volume in KL/ MT	Value in Nu. Million	Volume in KL/MT	Value in Nu. Million
	117,615.80	5,865.98	126,139.40	5,262.71	133,851.27	5,776.53
	31,458.20	1,826.52	33,846.60	1,692.97	36,214.80	1,755.31
	24.00	1.25	48.00	2.13	24.01	1.09
	5,685.00	74.74	4,599.00	60.17	4,815.00	65.79
	21.00	1.23	12.00	0.51	24.00	1.18
	3,585.00	219.69	3,291.00	142.08	3,294.00	127.92
	7,056.18	183.38	7,289.73	188.94	7,593.30	198.61
	2,512.93	414.69	3,378.26	397.50	2,478.56	416.96
	473.35	22.11	1,302.20	37.45	1,425.29	34.89
	3,698.00	198.83	136.00	6.20	36.00	1.24
	7,563.67	376.85	11,778.43	479.68	11,707.12	377.86
	172.03	19.65	5.40	0.89	10.79	1.69
	2.51	0.48	...	...	...	...

Table 6.23: Total Ghg Emissions in Bhutan, 2000

GHG Sources & Sink	Total(CO2, CH4 and N20), CO2 -equiv	GHG, Giga Grams						
		CO2	CH4	N2O	NOx	CO	NMVOC	SO2
1 Energy	270.23	260.31	0.38	0.01	1.76	9	1.3	0.96
2 Industrial Processe	237.76	237.76	0	0	0	0	1.69	0.1
3 Solvent & Other Product Us	0	0	0	0	0	0	0	0
4 Agriculture	1005.3	0	25.85	1.49	0.2	0.41	0	0
5 Land-Use Change and Forestry	-6,309.00	-6,309.00	0	0	0	0	0	0
6 Waste	46.27	0	2	0.01	0	0	0	0
Total GHG Emission, excluding LUCF	1559.56	498.07	28.23	1.51	1.78	9.41	4.7	1.05
Total GHG Emission, including LUCF	-4750.04	-5810.9	28.23	1.51	1.78	9.41	4.7	1.05

Source: Second National Communication to the UNFCCC, NEC

Table 6.24: PM 10 Concentration (Microgram/m3) for Thimphu Dzongkhag, (2012-2016)

Microgram/m3

Month	2012	2013		2014	2015	2016		
	(PM 10) mg/m3	(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
	NEC office top	City RBP Office roof top	NEC office roof top	NEC office roof top	NEC office roof top	Royal Thai Pavilion Compound, Thimphu		
January	57.595	84.46	66.33	59.65	...	59.07	40.72	6662.84
Febuary	50.831	100.92	54.47	67.15	33.86	69.16	49.52	7034.20
March	76.033	98.07	64.87	58.89	48.77	59.22	43.74	5885.06
April	41.374	76.51	49.56	43.99	44.34	64.34	43.96	5796.46
May	38.820	51.27	33.84	41.35	29.16	38.99	26.49	...
June	31.073	39.73	16.06	24.91	23.65	20.08	11.87	...
July	22.510	27.39	7.56	...	12.58	12.60	8.18	...
August	15.683	33.01	7.95	...	15.74	15.79	9.79	...
September	17.253	64.18	18.65	14.84	62.61	21.42	11.78	...
October	39.831	47.28	21.75	...	...	31.71	17.53	...
November	54.787	97.24	51.10	35.08	...	59.87	36.86	...
December	68.862	105.49	57.55	54.63	138.88	74.32	43.74	...

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 datahas 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

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.

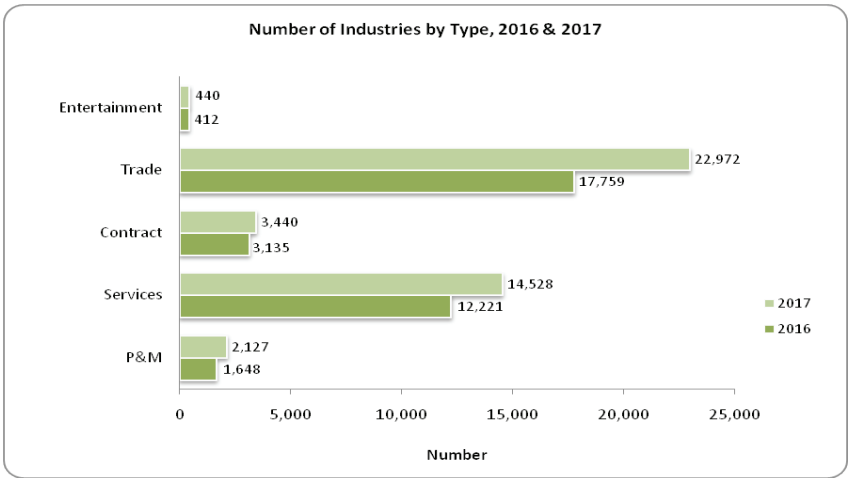


Table 7.1: Number of Industrial Establishments by Sector, Bhutan, (2013-June 2017)

Sector	2013	2014	2015	June 2016	June 2017
Production & manufacturing	**2,485**	**2,823**	**2,073**	**1,648**	**2,125**
New establishments	242	335	294	144	445
Existing establishments	2,243	2,488	1,779	1,504	1,680
Services	**24,322**	**26,465**	**18,067**	**12,221**	**14,528**
New establishments	1,906	2,128	790	1,175	2,253
Existing establishments	22,416	24,337	17,277	11,046	12,275
Contract	**13,144**	**13,511**	**4,298**	**3,135**	**3,440**
New establishments	467	363	31	84	233
Existing establishments	12,677	13,148	4,267	3,051	3,207
Trade	**22,331**	**27,048**	**31,150**	**17,759**	**22,972**
New registration/establishments	4,801	5,092	4,102	2,143	3,767
Existing establishments	17,530	21,956	27,048	15,616	19,205
Entertainment	**287**	**361**	**356**	**412**	**440**
New establishments	95	79	96	83	34
Existing establishments	192	282	260	329	406
All sectors	**62,569**	**70,208**	**55,944**	**35,175**	**43,505**

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) & BICMA,Thimphu.

Table 7.2: Number of Lincensed Firms in Production & Manufacturing, Services and Contract by Ownership, Bhutan, (June 2016- June 2017)

Industry	June 2016				June 2017			
	Sole Propietorship	Partnership	Company	Others	Sole Propietorship	Partnership	Company	Others
Production & Manufacturing	1,448	35	153	12	1,872	47	192	14
Services	11,840	119	237	25	14,092	134	268	34
Contract	2,932	4	199	...	3,202	1	237	...
Total	**16,220**	**158**	**589**	**37**	**19,166**	**182**	**697**	**48**

Note: [1] Others includes Government, Dratsang, Schools etc.

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

Table 7.3: Number of Industries by Ownership, Size and Type, Bhutan, (June 2016 - June 2017)

Industrial Establishments	June 2016	June 2017
Ownership	**16,986**	**20,093**
Sole Proprietorship	16,202	19,166
Partnership	158	182
Company	589	697
Others [1]	37	48
Size	**17,004**	**20,093**
Production & Manufacturing	1,648	2,125
Large scale	93	114
Medium scale	151	196
Small scale	365	470
Cottage scale	1,039	1,345
Services	12,221	14,528
Large scale	99	101
Medium scale	218	297
Small scale	1,224	1,472
Cottage scale	10,680	12,658
Contract	3,135	3,440
Large scale	231	270
Medium scale	1,038	1,083
Small scale	1,866	2,087
Cottage scale	...	...
Type	**17,004**	**20,093**
Production & Manufacturing	1,648	2,125
Contract	3,135	3,440
Services	12,221	14,528

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

Table 7.4: Number of Contract Firms by Size,by Dzongkhag, Bhutan (June 2016 - June 2017)

Dzongkhag	As of June 2016			Total	As of June 2017			Total
	Size of Contract Firm				Size of Contract Firm			
	Small	Medium	Large		Small	Medium	Large	
Bumthang	51	10	1	62	67	10	1	78
Chhukha	131	28	14	173	151	31	16	198
Dagana	46	5	...	51	54	6	...	60
Gasa	13	...	...	13	14	...	...	14
Haa	56	49	1	106	62	54	1	117
Lhuentse	40	10	1	51	43	9	3	55
Monggar	77	27	4	108	88	30	6	124
Paro	215	81	1	297	225	96	1	322
Pema Gatshel	74	14	1	89	75	8	1	84
Punakha	55	11	4	70	68	13	4	85
Samdrup Jongkhar	73	15	6	94	82	15	21	118
Samtse	84	11	...	95	89	11	1	101
Sarpang	83	22	18	123	97	22	24	143
Thimphu	494	651	167	1,312	556	670	172	1,398
Trashi Yangtse	78	6	4	88	82	9	4	95
Trashigang	93	54	6	153	103	49	10	162
Trongsa	51	13	...	64	58	12	...	70
Tsirang	23	2	...	25	25	4	...	29
Wangdue Phodrang	91	24	2	117	104	26	3	133
Zhemgang	38	5	1	44	44	8	2	54
Bhutan	**1,866**	**1,038**	**231**	**3,135**	**2,087**	**1,083**	**270**	**3,440**

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

Table 7.5: Number of Industrial Firms by Scale, by Dzongkhag, Bhutan (June 2016 & June 2017)

Dzongkhag	As of June 2016				Total	As of June 2017				Total
	Scale of Industry					Scale of Industry				
	Cottage	Small	Medium	Large		Cottage	Small	Medium	Large	
Bumthang	455	106	23	4	588	505	134	31	3	673
Chhukha	1,467	281	104	78	1,930	1,742	336	121	87	2,286
Dagana	261	61	8	1	331	293	74	9	1	377
Gasa	62	21	...	...	83	69	23	...	...	92
Haa	133	92	51	1	277	148	102	57	1	308
Lhuentse	158	52	10	1	221	174	57	9	3	243
Monggar	585	117	36	6	744	633	140	40	10	823
Paro	801	359	124	13	1,297	982	405	151	13	1,551
Pema Gatshel	386	134	20	8	548	414	144	14	13	585
Punakha	306	87	23	11	427	360	112	29	12	513
Samdrup Jongkhar	448	166	31	9	654	494	189	29	29	741
Samtse	587	122	31	12	752	693	133	39	15	880
Sarpang	737	130	32	29	928	837	177	38	35	1,087
Thimphu	3,517	1,146	772	225	5,660	4,577	1,343	846	231	6,997
Trashi Yangtse	233	97	8	4	342	276	102	12	4	394
Trashigang	419	128	58	7	612	473	146	56	11	686
Trongsa	274	65	20	2	361	312	78	23	2	415
Tsirang	168	63	4	...	235	193	73	9	...	275
Wangdue Phodrang	442	182	45	11	680	526	208	53	13	800
Zhemgang	280	46	7	1	334	302	53	10	2	367
Bhutan	**11,719**	**3,455**	**1,407**	**423**	**17,004**	**14,003**	**4,029**	**1,576**	**485**	**20,093**

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 2016 & June 2017)

Dzongkhag	As of June 2016				
	Production & Manufacturing		Services		Contract
	Cottage	Small	Cottage	Small	
Bumthang	89	21	416	46	67
Chhukha	79	52	1663	133	151
Dagana	25	10	268	10	54
Gasa	1	3	68	6	14
Haa	37	18	111	22	62
Lhuentse	27	4	147	10	43
Monggar	65	16	568	36	88
Paro	166	56	816	124	225
Pema Gatshel	40	23	374	46	75
Punakha	28	6	332	38	68
Samdrup Jongkhar	56	20	438	87	82
Samtse	62	28	631	16	89
Sarpang	78	29	759	51	97
Thimphu	282	109	4295	678	556
Trashi Yangtse	119	10	157	10	82
Trashigang	77	16	396	27	103
Trongsa	22	5	290	15	58
Tsirang	16	14	177	34	25
Wangdue Phodrang	34	23	492	81	104
Zhemgang	42	7	260	2	44
Bhutan	**1345**	**470**	**12,658**	**1,472**	**2,087**

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

	All Types (Total)	As of June 2017					All Types (Total)
		Production & Manufacturing		Services		Contract	
		Cottage	Small	Cottage	Small		
	639	75	16	380	39	51	561
	2078	62	39	1405	111	131	1748
	367	15	6	246	9	46	2309
	92	1	2	61	6	13	83
	250	35	15	98	21	56	225
	231	18	3	140	9	40	308
	773	54	10	531	30	77	702
	1387	139	39	662	105	215	1160
	558	35	22	351	38	74	1862
	472	21	5	285	27	55	393
	683	47	18	401	75	73	614
	826	40	23	547	15	84	1007
	1014	64	18	673	29	83	867
	5920	193	90	3324	562	494	4663
	378	91	10	142	9	78	5530
	619	60	13	359	22	93	547
	390	17	3	257	11	51	339
	266	11	10	157	30	23	886
	734	22	17	420	74	91	624
	355	39	6	241	2	38	326
	18,032	**1039**	**365**	**10,680**	**1,224**	**1,866**	**15,174**

Table 7.7: Number of Industries by Type in Medium and Large by Dzongkhag, Bhutan (June 2016 - June 2017)

Dzongkhag	As of June 2016							All Types (Total)
	Production & Manufacturing				Services	Contract	Others	
	Agro Based	Forest Based	Mineral Based	Other				
Bumthang	0	0	1	0	15	11	0	27
Chhukha	30	11	27	50	22	42	0	182
Dagana	0	0	2	1	1	5	0	9
Gasa	0	0	0	0	0	0	0	0
Haa	0	0	0	0	2	50	0	52
Lhuentse	0	0	0	0	0	11	0	11
Monggar	1	0	4	2	4	31	0	42
Paro	1	0	4	2	48	82	0	137
Pema Gatshel	0	0	7	3	3	15	0	28
Punakha	0	0	0	0	19	15	0	34
Samdrup Jongkhar	2	2	6	1	8	21	0	40
Samtse	6	2	17	5	2	11	0	43
Sarpang	5	2	3	0	11	40	0	61
Thimphu	3	4	8	10	154	818	0	997
Trashi Yangtse	0	0	2	0	0	10	0	12
Trashigang	1	0	0	0	4	60	0	65
Trongsa	0	0	3	1	5	13	0	22
Tsirang	0	0	0	0	2	2	0	4
Wangdue Phodrang	1	0	11	2	16	26	0	56
Zhemgang	0	0	1	0	1	6	0	8
Bhutan	**50**	**21**	**96**	**77**	**317**	**1,269**	**0**	**1,830**

Source: Department of Industry, MoEA, Thimphu.

	As of June 2017							
	Production & Manufacturing				Services	Contract	Others	All Types (Total)
	Agro Based	Forest Based	Mineral Based	Other				
	0	0	1	4	18	11	0	34
	32	11	29	54	35	47	0	208
	0	0	2	1	1	6	0	10
	0	0	0	0	0	0	0	0
	0	0	0	0	3	55	0	58
	0	0	0	0	0	12	0	12
	2	0	5	2	5	36	0	50
	5	1	4	4	53	97	0	164
	0	0	12	3	3	9	0	27
	1	0	0	0	23	17	0	41
	4	2	6	2	8	36	0	58
	7	2	23	7	3	12	0	54
	6	2	2	2	15	46	0	73
	9	7	12	9	198	842	0	1,077
	0	0	2	0	1	13	0	16
	1	0	1	0	6	59	0	67
	1	0	4	1	7	12	0	25
	1	0	2	0	2	4	0	9
	4	0	14	3	16	29	0	66
	0	0	1	0	1	10	0	12
	73	**25**	**120**	**92**	**398**	**1,353**	**0**	**2,061**

Table 7.8: Establishments by type of Ownership and Category, Bhutan, 2017

(Numbers)

Ownership	Establishment Category				Total
	Cottage	Small	Medium	Large	
Privately owned	891	604	140	18	1,653
Government owned	0	1	8	6	15
Government with private local collaboration	5	10	7	3	25
Private with foreign collaboration	2	0	12	3	17
Government with foreign collaboration	0	1	2	4	7
Total	**898**	**616**	**169**	**34**	**1,717**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.9: Establishments by Trade Region and Type of Ownership, Bhutan, 2017

(Numbers)

Major Economic Activity	Ownership					
	Privately Owned	Government Owned	Govt. with private local collaboration	Private with foreign collaboration	Govt.with foreign collaboration	Total
Thimphu	1,124	3	16	8	3	1,154
Phuentsholing	188	5	3	8	0	204
Gelephu	97	3	1	0	0	101
Samdrup Jongkhar	66	1	2	0	0	69
Monggar	96	2	3	0	2	103
Trongsa	82	1	0	1	2	86
Total	**1,653**	**15**	**25**	**17**	**7**	**1,717**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.10: Establishments by Type of Legal Organization and Category, Bhutan, 2017

(Numbers)

Legal Organization	Establishment Category				Total
	Cottage	Small	Medium	Large	
Individual Proprietorship	874	578	114	6	1,572
Partnership	22	19	16	3	60
Private Limited Company	0	10	22	13	45
Public Limited Company	1	4	12	12	29
Co-operative Society	1	5	5	0	11
Total	**898**	**616**	**169**	**34**	**1,717**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.11: Establishments by Trade Region and Sector, Bhutan, 2017

(Numbers)

Legal Organization	Establishment Category				Total
	Tourism	Hydropower	Manufacturing	Mining	
Thimphu	915	3	216	20	1,154
Phuentsholing	66	2	111	25	204
Gelephu	65	1	29	6	101
Samdrup Jongkhar	39	0	27	3	69
Monggar	46	3	52	2	103
Trongsa	54	2	28	2	86
Total	1185	11	463	58	1,717

Source: Establishment Census Report, 2017, MoLHR.

Table 7.12: Establishment by Major Economic Activity and Category, Bhutan, 2017

Major Economic Activity	Establishment Category				Total
	Cottage	Small	Medium	Large	
Agriculture and Forestry	12	3	1	0	16
Mining and Quarrying	2	26	20	1	49
Manufacturing	181	186	63	23	453
Electricity and Gas Supply	0	1	5	8	14
Wholesale & Retail trade; Repair of Motor Vehicles	1	0	0	0	1
Accomodation and Food Service Activities	175	222	68	2	467
Information and Communication	0	0	1	0	1
Administrative and Support Activities	527	178	10	0	715
Arts, Entertainment and Recreation	0	0	1	0	1
Total	**898**	**616**	**169**	**34**	**1,717**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.13: Establishments by Dzongkhag and Type of Ownership, Bhutan, 2017

(Numbers)

Dzongkhag	Ownership					
	Privately Owned	Government Owned	Govt. with private local collaboration	Private with foreign collaboration	Govt.with foreign collaboration	Total
Bumthang	50	1	0	1	0	52
Chukha	138	3	2	6	0	149
Dagana	21	1	1	0	0	23
Gasa	1	0	0	0	0	1
Haa	28	0	0	0	0	28
Lhuentse	6	0	0	0	0	6
Mongar	39	1	1	0	0	41
Paro	125	0	0	2	0	127
Pemagatshel	16	1	1	0	0	18
Punakha	35	0	0	3	0	38
Samdrup Jongkhar	50	0	1	0	0	51
Samtse	50	2	1	2	0	55
Sarpang	68	2	0	0	0	70
Thimphu	874	2	15	2	1	894
Tashigang	39	1	1	0	1	42
Trashiyangtse	12	0	1	0	1	14
Trongsa	16	0	0	0	2	18
Tsirang	8	0	0	0	0	8
Wangdue	61	1	1	1	2	66
Zhemgang	16	0	0	0	0	16
Bhutan	**1,653**	**15**	**25**	**17**	**7**	**1,717**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.14: Establishments by Nationality of Owners, by Dzongkhag, 2016

(Numbers)

Dzongkhag	Nationality of Owners			Total
	Bhutanese	Foreigner	Both	
Bumthang	132	0	0	132
Chukha	906	84	1	991
Dagana	84	0	0	84
Gasa	3	0	0	3
Haa	114	0	0	114
Lhuentse	46	0	0	46
Mongar	235	0	0	235
Paro	477	1	0	478
Pemagatshel	179	0	0	179
Punakha	177	0	0	177
Samdrup Jongkhar	327	47	1	375
Samtse	260	10	0	270
Sarpang	261	39	1	301
Thimphu	1,656	4	0	1,660
Tashigang	151	0	0	151
Trashiyangtse	85	0	0	85
Trongsa	103	0	0	103
Tsirang	93	0	0	93
Wangdue	241	0	0	241
Zhemgang	166	0	0	166
Bhutan	**5,696**	**185**	**3**	**5,884**

Source: Establishment Census Report, 2016, MoLHR.

Table 7.15: Employment by Major Economic Activity, Nationality and Gender, as on 31st December 2016

(Numbers)

Dzongkhag	Bhutanese			Foreign Workers			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Agriculture and Forestry	47	52	99	1	0	1	48	52	100
Mining and Quarrying	804	136	940	278	21	299	1,082	157	1,239
Manufacturing	5,993	2,035	8,028	1,514	370	1,884	7,507	2,405	1,339
Electricity and Gas Supply	3,035	753	3,788	458	14	472	3,493	767	4,260
Wholesale & Retail trade; Repair of Motor Vehicles	3	0	3	0	0	0	3	0	3
Accomodation and Food Service Activities	1,960	2,589	4,549	433	216	649	2,393	2,805	4,263
Information and Communication	22	3	25	8	0	8	30	3	33
Administrative and Support Activities	1,870	882	2,752	2	0	2	1,872	882	2,754
Arts, Entertainment and Recreation	12	9	21	1	0	1	13	9	2,787
All Activities	**13,746**	**6,459**	**20,205**	**2,695**	**621**	**3,316**	**16,441**	**7,080**	**23,521**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.16:Number of Employed Persons by Major Economic Activity, Nationality and Gender, Bhutan as on 31st December 2016

Employees	Agriculture & Forestry	Mining & Quarring	Manufac-turing	Electricity & Gas supply	Wholesale & Retail trade	
Bhutanese Workers	**99**	**940**	**8,028**	**3,788**	**3**	
Proprietor	12	21	330	2	1	
Male	7	18	248	2	1	
Female	5	3	82	0	0	
Regular paid employee	34	883	7,055	3,209	0	
Male	22	758	5,362	2,607	0	
Female	12	125	1,693	602	0	
Casual paid employee	50	32	614	577	0	
Male	17	24	369	426	0	
Female	33	8	245	151	0	
Family worker	3	4	29	0	2	
Male	1	4	14	0	2	
Female	2	0	15	0	0	
Foreign Workers	**1**	**299**	**1884**	**472**	**0**	
Proprietor	0	0	7	0	0	
Male	0	0	6	0	0	
Female	0	0	1	0	0	
Regular paid employee	1	156	1197	457	0	
Male	1	150	1051	443	0	
Female	0	6	146	14	0	
Casual paid employee	0	143	680	15	0	
Male	0	128	457	15	0	
Female	0	15	223	0	0	
Family worker	0	0	0	0	0	
Male	0	0	0	0	0	
Female	0	0	0	0	0	
Total	**100**	**1,239**	**9,912**	**4,260**	**3**	

Source: Establishment Census Report, 2017, MoLHR.

	Accomodation & Food Service Activities	Information & communication	Administrative & Support Activities	Arts, Entertainment & Recreation
	4,548	**25**	**2,752**	**21**
	365	2	736	0
	202	1	502	0
	163	1	234	0
	3,936	23	1,675	17
	1,657	21	1,051	10
	2,279	2	624	7
	67	0	300	0
	35	0	293	0
	32	0	7	0
	180	0	41	4
	65	0	24	2
	115	0	17	2
	649	**8**	**2**	**1**
	12	0	0	0
	10	0	0	0
	2	0	0	0
	558	8	2	1
	383	8	2	1
	175	0	0	0
	74	0	0	0
	38	0	0	0
	36	0	0	0
	5	0	0	0
	2	0	0	0
	3	0	0	0
	5,197	**33**	**2,754**	**22**

Table 7.17: Number of Employees by Trade Region, Nationality, Gender and Nature of Employment, Bhutan as on 31st December 2016

Employees	Thimphu	Phuentsholing	
Bhutanese Workers	**9,676**	**6,509**	
Proprietor	1,086	132	
Male	735	92	
Female	351	40	
Regular paid employee	8,028	5,771	
Male	4,848	4,530	
Female	3,180	1,241	
Casual paid employee	462	597	
Male	401	346	
Female	61	251	
Family worker	100	9	
Male	55	6	
Female	45	3	
Foreign Workers	**367**	**2152**	
Proprietor	5	9	
Male	3	8	
Female	2	1	
Regular paid employee	291	1387	
Male	269	1140	
Female	22	247	
Casual paid employee	71	752	
Male	70	496	
Female	1	256	
Family worker	0	4	
Male	0	2	
Female	0	2	
Total	**10,043**	**8,661**	

Source: Establishment Census Report, 2017, MoLHR.

	Samdrup Jongkhar	Gelephu	Monggar	Trongsa
	673	**1,384**	**859**	**1,104**
	36	68	65	83
	19	41	42	53
	17	27	23	30
	547	1,264	683	539
	347	957	505	301
	200	307	178	238
	54	13	36	478
	42	8	23	344
	12	5	13	134
	36	39	75	4
	11	13	27	0
	25	26	48	4
	191	**204**	**350**	**52**
	0	4	1	0
	0	4	1	0
	0	0	0	0
	152	165	348	37
	128	118	347	37
	24	47	1	0
	39	34	1	15
	23	33	1	15
	16	1	0	0
	0	1	0	0
	0	0	0	0
	0	1	0	0
	864	**1,588**	**1,209**	**1,156**

Table 7.18: Bhutanese and Foreign Workers by Trade Region, Employment Nature and Gender, as on 31st December 2016

(Numbers)

Dzongkhag	Bhutanese			Foreign Workers			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Thimphu	6,039	3,637	9,676	342	25	367	6,381	3,662	10,043
Phuentsholing	4,974	1,535	6,509	1,646	506	2,152	6,620	2,041	8,661
Gelephu	419	254	673	151	40	191	570	294	18,704
Samdrup Jongkhar	1,019	365	1,384	155	49	204	1,174	414	1,588
Monggar	597	262	859	349	1	350	946	263	1,209
Trongsa	698	406	1,104	52	0	52	750	406	2,797
Total	**13,746**	**6,459**	**20,205**	**2,695**	**621**	**3,316**	**16,441**	**7,080**	**23,521**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.19: Unfilled job opening in past one year by major occupation and trade region, 2017

Major Occupation	Trade Region						Total
	Thimphu	Phuentshol-ing	Gelephu	Samdrup Jongkhar	Monggar	Trongsa	
Legislators, Senior Officials and Manager	12	5	2	2	2	3	26
Professionals	12	20	1	4	7	4	48
Technicians and Associate Professionals	15	14	2	2	3	13	49
Clerical Support Workers	8	5	1	-	1	2	17
Services and Sales Workers	53	23	52	10	13	25	176
Craft and Related Trades Workers	30	23	9	10	14	11	97
Plant and Machine Operators and Assemblers	10	20	21	0	3	5	59
Elementary Occupations	29	23	11	5	12	21	101
Total	**169**	**133**	**99**	**33**	**55**	**84**	**573**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.20: Establishments having difficulty finding qualified applicants in past one year by skills and type of ownership, 2017

Skills	Ownership					Total
	Privately Owned	Government Owned	Govt. with private local collaboration	Private with foreign collaboration	Govt.with foreign collaboration	
Work Habits	334	3	5	6	5	353
Problem Sloving	103	1	0	2	0	106
Communication	36	0	0	1	0	37
Adaptability	50	0	1	1	0	52
Customer Service	35	0	1	1	0	37
Computer Skills	48	0	2	1	0	51
Team Work	28	0	0	1	0	29
Writing	26	0	0	1	0	27
Reading	19	0	0	0	0	19
Integrity	37	0	1	0	0	38
Others	104	0	0	0	0	104
Total	**820**	**4**	**10**	**14**	**5**	**853**

Source: Establishment Census Report, 2017, MoLHR.

Table 7.21: Establishments training in past one year by trade region and reasons, 2017

Reason	Trade Region						Total
	Thimphu	Phuentsholing	Gelephu	Samdrup Jongkhar	Monggar	Trong-sa	
Promote personal/career development	36	18	5	3	4	7	73
Improve output quality	23	24	5	4	4	4	64
Develop a more flexible and versatile workforce	17	11	1	3	0	2	34
Changes in technology	6	12	1	0	0	2	21
Improve worker productivity	14	26	5	3	4	5	57
Changes in work organization	6	7	0	0	0	1	14
Improve employee morale	9	13	3	1	1	3	30
Change in products/services	7	8	2	0	0	2	19
Keep up with competitors	11	20	4	0	2	4	41
Legal requirements	0	3	0	2	0	1	6
Develop positive attitudes and work habits	13	6	2	4	0	2	27
New hires did not have necessary skills	15	25	5	0	0	5	50
Total	**157**	**173**	**33**	**20**	**15**	**38**	**436**

Source: Establishment Census Report, 2017, MoLHR.

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 116 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.

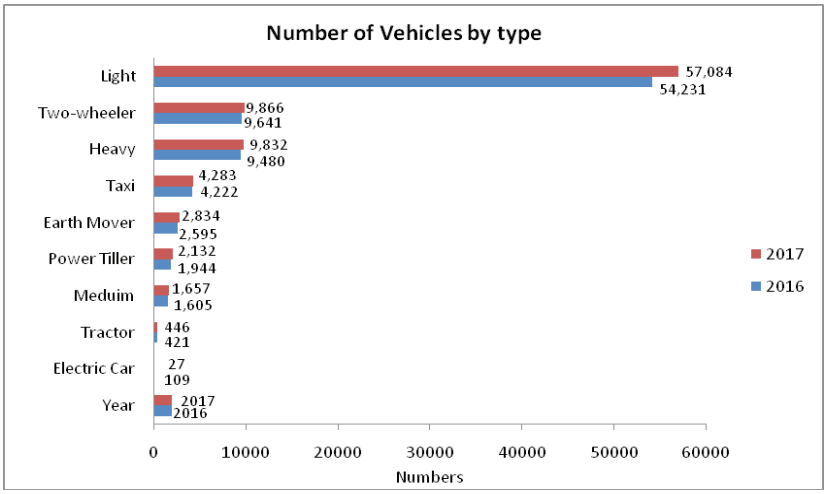


Table 8.1: Number and Length of Motorable Bridges by Type, Bhutan, June 2017

(Length in m)

Type of Bridges	Number	%	Length	%
Permanent bridges	**199**	**58.5**	**6,792.40**	**57.8**
RCT Beam / T-Girder/Box Grid	76	22.4	1,579.70	13.4
RCC Slab	29	8.5	507.45	4.3
Pre-Stressed Concrete	17	5.0	929.00	7.9
RCC Arch	4	1.2	383.00	3.3
Composite	20	5.9	384.00	3.3
Steel Pony Truss	4	1.2	190.00	1.6
Steel Arch	10	2.9	944.25	8.0
Steel Hamilton	8	2.4	280.60	2.4
Steel Truss / Girder	20	5.9	1,241.40	10.6
Multicell Box Culvert	6	1.8	296.00	2.5
RCC bridges on GC Roads	5	1.5	57.00	0.5
Temporary (semi-permanent)bridges	**141**	**41.5**	**4,957.93**	**42.2**
Bailey Bridges	81	23.8	2,442.64	20.8
Bailey Suspension Bridge	1	0.3	310.98	2.7
Bailey bridges on GC & Farm Roads in various Dzongkhags	59	17.4	2,204.31	18.8
All bridges	**340**	**100.0**	**11750.33**	**100.0**

Source: Bridge Division, DoR , MoWHS, Thimphu.

Table 8.2: Number of Pedestrian Bridges Constructed Since 5Th Five Year Plan by Dzongkhag, June 2017

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	3.77	18
Chhukha	3	5	1	3	4	2	4	1	23	4.33	16
Dagana	3	4	2	5	4	4	6		28	5.27	23
Gasa	0	0	2	2	2	1	0		7	1.32	3
Haa	3	6	1	4	2	0	1	1	18	3.39	15
Lhuentse	3	4	2	4	4	6	5		28	5.27	22
Monggar	9	5	2	5	6	7	7		41	7.72	33
Paro	3	8	3	2	2	2	3		23	4.33	20
Pema Gatshel	5	11	2	4	6	4	5		37	6.97	28
Punakha	3	4	1	1	1	3	3		16	3.01	13
Samdrup Jongkhar	7	11	6	3	3	3	7		40	7.53	23
Samtse	9	15	2	1	4	2	4	3	40	7.53	32
Sarpang	6	8	5	0	5	3	1		28	5.27	19
Thimphu	1	1	3	3	0	4	2		14	2.64	9
Trashigang	8	10	2	4	7	7	2	1	41	7.72	30
Trashi Yangtse	3	6	4	3	3	3	7		29	5.46	25
Trongsa	4	6	3	4	1	2	2	1	23	4.33	17
Tsirang	5	4	1	2	2	1	1		16	3.01	13
Wangdue Phodrang	2	10	5	3	2	3	2		27	5.08	25
Zhemgang	1	5	4	4	5	6	4	3	32	6.03	27
Bhutan	**79**	**130**	**54**	**61**	**65**	**65**	**67**	**10**	**531**	**100.00**	**411**

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

Table 8.3: Number of Driving Licenses Issued by Region, Bhutan, (2013 - June 2017)

Region	2013	2014	2015	2016	2017
Thimphu	46,588	49,159	52,134	56,007	57,847
Phuentsholing	9,902	10,689	11,676	12,884	13,578
Gelephu	11,002	12,225	13,351	14,466	15,177
Samdrup Jongkhar	8,496	9,048	9,492	10,018	10,277
Monggar	...	134	681	1,260	1,542
PDL (Professional Driving Licence)	15,022	15,404	16,424	16,734	16,891
Total	**91,010**	**96,659**	**103,745**	**111,369**	**115,312**

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, (2012-2016)

Area of Operation	2012	2013	2014	2015	2016
International	**193,405**	**208,125**	**210,338**	**204,746**	**225,882**
Paro to Kolkata	11,508	11,484	9,337	10,764	13,908
Kolkata to Paro	10,627	10,846	8,323	10,516	13,374
Paro to Bangkok	36,123	33,471	28,984	27,971	27,573
Bangkok to Paro	34,244	32,059	27,296	25,946	27,851
Paro to Dhaka	3,827	3,495	4,595	6,918	7,907
Dhaka to Paro	3,522	3,539	4,886	7,169	7,993
Paro to Delhi	18,431	18,667	18,280	22,713	23,684
Delhi to Paro	17,615	17,840	18,242	22,591	24,481
Paro to Kathmandu	16,273	18,721	21,515	11,792	13,912
Kathmandu to Paro	16,793	19,133	21,604	12,155	13,898
Kathmandu to Delhi	555	2,657	2,255	2,172	1,601
Delhi to Kathmandu	132	1,390	464	1,211	736
Kolkata to Bangkok	0	0	0	899	1,926
Bangkok to Kolkata	0	0	0	1,281	3,571
Dhaka to Bangkok	3,227	2,627	2,127	44	0
Bangkok to Dhaka	2,355	2,266	1,277	23	0
Gaya to Bangkok	658	551	701	468	399
Bangkok to Gaya	555	549	738	390	486
Paro to Gaya	558	507	992	987	1,353
Gaya to Paro	652	468	891	877	777
Paro to Bagdora	1,729	2,143	2,209	2,120	1,771
Bagdora to Paro	1,808	2,161	2,560	2,512	2,141
Bagdora to Bangkok	2,145	2,284	2,691	2,531	2,513
Bangkok to Bagdora	1,933	1,902	2,401	2,322	2,009
Paro to Guwahati	880	1,072	1,306	1,420	1,600
Guwahati to Paro	563	797	1,043	1,231	1,638
Guwahati to Bangkok	1,736	1,511	1,840	2,259	2,003
Bangkok to Guwahati	1,507	1,446	1,599	2,058	1,577
Paro to Singapore	1,409	3,831	3,915	4,268	6,170
Singapore to Paro	1,505	3,772	3,635	4,400	6,110
Kolkata to Singapore	190	3,213	3,877	4,231	5,734
Singapore to Kolkata	345	3,295	4,212	4,534	5,356

cont...

Table 8.4 cont...

Area of Operation	2012	2013	2014	2015	2016
Kolkata to Dhaka	0	183	0	...	...
Dhaka to Kolkata	0	245	0	...	...
Paro to Munbai	...	...	3,187	2,040	915
Mumbai to Paro	...	...	3,356	1,933	915
Domestic	**878**	**2,766**	**3,007**	**4,676**	**7,688**
Paro to Bumthang	271	990	1,363	2,032	3,704
Bumthang to Paro	388	1,410	1,644	2,600	3,510
Paro to Gelephu	0	21	0	33	137
Gelephu to Paro	0	20	0	11	181
Paro to Younphula	120	175	0	...	...
Younphula to Paro	99	150	0	...	...
Gelephu to Bumthang	...	...	...	...	81
Bumthang to Gelephu	...	...	...	...	75
Total Passengers	**194,283**	**210,891**	**213,345**	**209,422**	**233,570**
Revenue (Nu.in millions)	**2,488**	**2,976**	**2,837**	**2,698**	**2,860**

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, (2012-2016)

Area of Operation	2012	2013	2014	2015	2016
International	**4,382**	**4,683**	**4,997**	**5,036**	**5,029**
Paro to Kolkata	285	279	271	298	357
Kolkata to Paro	276	277	267	320	352
Paro to Bangkok	476	446	479	403	391
Bangkok to Paro	478	448	439	402	390
Paro to Dhaka	149	132	144	190	178
Dhaka to Paro	146	126	130	191	178
Paro to Delhi	254	254	263	311	304
Delhi to Paro	243	253	231	315	304
Paro to Kathmandu	357	339	405	333	369
Kathmandu to Paro	357	336	370	333	356
Paro to Gaya	19	17	23	18	25
Gaya to Paro	19	18	24	16	26
Gaya to Bangkok	...	...	...	...	13
Bangkok to Gaya	...	...	...	...	14
Delhi to katmandu	23	84	117	122	50
kathmandu to Delhi	32	85	98	122	62
Bangkok to kolkata	0	0	0	98	138
Kolkata to Bangkok	1	0	0	78	138
Dhaka to Bangkok	129	96	99	7	0
Bangkok to Dhaka	127	96	85	7	0
Paro to Bagdora	111	135	149	144	109
Bagdora to Paro	111	133	130	112	89
Bagdora to Bangkok	104	125	146	144	109
Bangkok to Bagdora	104	126	139	112	89
Paro to Guwahati	105	94	106	107	105
Guwahati to Paro	103	96	105	99	103
Guwahati to Bangkok	105	95	104	108	105
Bangkok to Guwahati	103	96	105	101	103
Paro to Singapore	35	107	102	120	139
Singapore to Paro	35	107	100	121	138
Kolkata to Singapore	35	107	102	120	139

cont...

Table 8.4 cont...

Area of Operation	2012	2013	2014	2015	2016
Singapore to Kolkata	26	102	100	121	137
Kolkata to Dhaka	0	20	0	0	0
Dhaka to Kolkata	0	20	0	0	0
Paro to Mumbai	...	...	65	31	9
Mumbai to Paro	...	...	65	32	10
Domestic	**148**	**284**	**263**	**295**	**448**
Paro to Bumthang	56	118	132	142	178
Bumthang to Paro	56	118	131	144	177
Paro to Gelephu	0	1	0	3	31
Gelephu to Paro	0'	1	0	3	31
Gelephu to Bumthang	...	...	...	3	15
Bumthang to Gelephu	...	...	...	...	16
Paro to Younphula	18	23	0	0	0
Younphula to Paro	18	23	0	0	0
All sectors	**4,530**	**4,967**	**5,260**	**5,331**	**5,477**

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, (2013-2016)

Area of Operation	2013	2014	2015	2016
Paro to Kolkata	154	5,326	8,839	8,552
Kolkata to Paro	88	5,010	7,499	8,150
Paro to Bangkok	1,704	16,722	16,226	15,584
Bangkok to Paro	1,654	17,110	15,670	16,144
Kolkata to Bangkok	1236	16,876	13,382	17,700
Bangkok to Kolkota	812	16,628	13,144	17,600
Paro to Kathmandu	...	4,378	5,781	5,687
Kathmandu to Paro	...	4,009	5,815	6,374
Paro to Delhi	...	...	1,422	6,725
Delhi to Paro	...	25	988	6,820
Paro to Gaya	...	...	...	400
Gaya to Paro	...	...	...	400
Bangkok to Gaya	...	...	...	520
Gaya to Bangkok	...	...	...	420
Total Passengers	**5,648**	**86,084**	**88,766**	**111,076**
Revenue (Nu.in millions)	**51.71**	**864.13**	**1,039**	**1,418**

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, (2013-2016)

Area of Operation	2013	2014	2015	2016
Paro to Kolkata	16	353	327	346
Kolkata to Paro	15	351	328	334
Paro to Bangkok	77	388	352	353
Bangkok to Paro	78	387	351	353
Kolkata to Bangkok	16	353	326	327
Bangkok to Kolkota	15	351	328	315
Paro to Kathmandu	...	110	128	175
Kathmandu to Paro	...	110	125	162
Delhi to Paro	...	1	21	148
Paro to Delhi	...	...	21	148
Paro to Gaya	...	...	...	8
Gaya to Paro	...	...	...	8
Bangkok to Gaya	...	...	...	8
Gaya to Bangkok	...	...	...	8
All sectors	**217**	**2,404**	**2,307**	**2,693**

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, 2016

Type of Services	No. of Flights
Medical Evacuations	133
Fire Fighting	6
Airlifting of relief materials during the flood	4
Aerial Works	45
Tourist Charter	121
Local Charter	117
Local Charter - Highlanders	37
Total	**463**

Source: Bhutan Airlines Corporation Ltd., Thimphu.

Table 8.9: Number of Telephone Connection Capacity by Dzongkhag, (2012-2016)

Dzongkhag	2012	2013	2014	2015	2016
Bumthang	734	712	662	612	503
Chhukha	3,797	3,662	2,763	2,706	2,535
Dagana	208	208	183	103	172
Gasa	32	50	45	42	65
Haa	400	403	356	326	301
Lhuentse	111	108	128	138	136
Monggar	868	793	705	671	610
Paro	1,921	1,910	1,768	1,560	1,689
Pema Gatshel	290	265	270	172	211
Punakha	619	650	552	442	424
Samdrup Jongkhar	1,251	1,112	1,063	946	922
Samtse	815	764	723	620	557
Sarpang	1,311	1,294	1,217	1,218	1,031
Thimphu	10,637	10,745	10,417	9,578	9,445
Trashigang	1,020	824	784	761	675
Trashi Yangtse	147	140	159	152	167
Trongsa	674	644	416	377	380
Tsirang	367	347	272	250	224
Wangdue Phodrang	1,355	1,501	1,057	799	734
Zhemgang	448	353	283	338	300
Bhutan	**27,005**	**26,485**	**23,823**	**21,811**	**21,081**

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.10: Number of Telephone Trunk Circuits, Bhutan, June 2017

Sector	Type of Connection	No. of Circuits
Thimphu Softswitch- USA (TELCO)	N°7	123
Thimphu Softswitch- Thimphu Bmobile	N°7	678
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

cont...

Table 8.10 cont...

Sector	Type of Connection	No. of Circuits
Thimphu Softswitch- Thimphu BoB (PRA)	PRA link	30
Thimphu Softswitch- Thimphu NPPF (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
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)	**2738**	

Source: Bhutan Infocom Media Authority, Thimphu.

Table 8.11: Number of Trunk Lines, Connection Capacities, Sets in Use & Mobile Subscribers, (2012-2016)

Details	2012	2013	2014	2015	2016
Trunk lines	3,465	3,392	2,906	2,314	2,434
Satellite Communications	823	871	783	...	...
International Lines	823	871	783	...	...
Digital Microwave	2,250	...	...	...	...
Digital Radio Concentrator System	...	...	...	...	...
DRMASS	...	...	...	...	...
VOIP (International)	...	...	264	424	424
SDH	...	...	...	...	...
Connection capacity	49,826	48,534	48,534	44,192	44,144
Telephone sets in use	27,005	26,485	26,952	21,460	21,081
B-Mobile Subscribers	4,21,715	406,353	454,543	486,228	475,373
Internet (B-mobile)	109,526	197,458	250,907	337,969	375,007
3 G	18,686	112,119	181,585	337,969	375,007
GPRS/EDGE	90,840	85,339	69,322	...	...
Internet (Druknet)	16,893	20,630	25,204	28,037	16,753
Broadband	16,666	20,391	24,904	27,606	16,172
Leased Line	227	239	300	431	581

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, (2012-2016)

Type of Call	2012	2013	2014	2015	2016
Domestic calls	20,762,924	27,790,081	16,744,884	16,156,253	15,014,226
International calls	802,764	918,797	588,679	441,089	377,738
India	666,529	779,853	495,364	375,266	325,722
Other	136,235	138,944	93,315	65,823	52,016
All calls	**21,565,688**	**28,708,878**	**17,333,563**	**16,597,342**	**15,391,964**
Revenue earnings (Nu. In Million)	**122**	**108**	**98**	**93**	**102**

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, (2012 - 2016)

Type of Call	2012	2013	2014	2015	2016
Total no. of subcribers	421,715	406,353	454,543	486,228	475,373
Domestic calls	...	...	...	...	...
International calls	...	...	...	...	...
India	...	...	...	...	...
Other	...	...	...	...	...
Mobile/GPRS subscribers	90,840	85,339	69,322	...	...
Mobile 3G	18,686	112,119	181,585	337,969	375,007
Revenue earnings (Nu.in Million)	**2,209**	**2,328**	**2,305**	**2,691**	**3,038**

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, (2012-2016)

Type of Call	2012	2013	2014	2015	2016
Total no. of subcribers	136,077	139,589	161,993	189,805	223,266
Domestic calls	55,516,712	65,016,115	19,307,646	74,013,660	151,060,457
International calls	7,096,986	8,186,128	6,805,167	6,004,497	10,107,815
India	6,742,137	7,776,822	6,540,465	5,800,733	...
Others	354,849	409,306	264,702	203,764	...
GPRS/EDGE/3G	10,115	21,022	74,595	119,893	177,668
Revenue earnings (Nu. In Million)	**422.24**	**482.70**	**750.70**	**918.47**	**27.71**

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, (2012-2016)

Postal Infrastructure	2012	2013	2014	2015	2016
General Post Offices	4	4	4	4	4
Post Offices	39	39	39	36	37
Community Mail Offices	41	41	41	35	34
Fax Offices	44	44	44	41	41
Total	**128**	**128**	**128**	**116**	**116**

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, (2012-2016)

Type of Service	2012	2013	2014	2015	2016
Domestic Mail					
Ordinary Mail	316,763	362,529	306,070	102,168	129,817
Registered	92,586	95,436	89,956	73,990	64,083
Parcel	1,869	1,668	1,033	680	210
Facsimile message	1,827	1,724	2,666	3,124	1,989
Newspapers	129,854	10,179	9,903	16,379	15,570
Local Urgent Mail (LUM)	197,445	176,278	145,787	145,684	152,391
Express mail service (EMS)	9,779	9,812	10,496	12,574	26,148
International Mail Dispatch					
Ordinary Mail	33,616	39,097	60,239	22,367	18,190
Registered	5,390	7,371	6,985	6,539	6,033
Parcel	238	69	56	168	110
FedEx	216	558	355	305	394
Facsimile message	109	164	183	108	18
Post Overnight Courier (POC)	5,736	2,816	2,786	884	2,888
Express mail service (EMS)	4,288	6,113	2,589	3,648	4,748
International Mail Receipt					
Ordinary Mail	224,133	283,732	246,223	170,436	246,640
Registered	8,408	6,773	8,040	13,289	38,628
Parcel	2,009	1,002	2,185	2,176	2,615
FedEx	2,316	1,635	1,101	1,492	3,588
Facsimile message	765	192	228	75	...
Post Overnight Courier (POC)	2,678	1,101	2,291	2,047	1,952
Express mail service (EMS)	8,534	5,033	6,087	7,564	8,078
Revenue Earnings (Nu. in million)	**102.19**	**125.53**	**115.40**	**123.19**	**152.26**
Total mail items	**1,048,559**	**1,013,282**	**905,259**	**483,652**	**724,090**

Source:Bhutan Postal Corp. Ltd, Thimphu.

Table 8.17: Financial Services, Number and Value of Money Order by Type, Bhutan, (2012-2016)

Type	2012	2013	2014	2015	2016
Total money orders					
Number of orders	46,873	50,757	33,906	21,609	14,619
Amount of orders	3,029,648	144,995,795	81,468,850	88,445,927	52,872,362
Domestic money order					
Number of orders	46,150	48,917	32,165	18,889	13,363
Amount of orders	125,103,857	131,017,148	65,421,740	53,303,329	39,783,948
International money order					
Dispatched					
Number of orders	721	614	1,740	2,720	1,256
Amount of orders	2,318,978	21,126,154	16,046,110	35,142,589	13,088,414
Receipts					
Number of orders	2	27	1	0	0
Amount of orders	1,475	237,000	1,000	0	0
Others					
Number of pensioners	1,438	1,632	1,723	1,833	1,839
Amount of pensioners	38,871,645	47,144,228	53,471,807	56,065,814	57,171,344
WUMT Receipts					
Numbers	...	13,450	16,295	22,189	31,634
Amount (USD)	...	6,800,000	7,516,253.49	9,943,621.00	14,279,136.00
WUMT Sent					
Numbers	...	1,433	1,310	1,389	973
Amount (USD)	...	300,000	420,030.38	568,883.43	268,718.00

Source: Bhutan Postal Corp. Ltd, Thimphu.

Table 8.18: Volume of Mail, by Type of Article, DHL, (2012-2016)

Type of Service	2012	2013	2014	2015	2016
Inbound					
Documents (DOX)	5,173	6,214	7,871	5,760	5,200
World wide Express (WPX)	1,028	1,716	3,511	2,592	2,100
Outbound					
Documents (DOX)	1,357	2,909	5,349	2,753	2,550
World wide Express (WPX)	823	539	4,613	426	432
Revenue Earnings (Nu. In million)	**5.97**	**6.53**	**222.60**	**20.10**	**19.10**
Total mail items	**8,381**	**11,378**	**21,344**	**11,531**	**10,282**

Source: DHL Courier Service, Thimphu.

Electricity is the main energy source of lighting in 88 percent of households in Bhutan as per the Bhutan Living Standard Survey (BLSS) 2012. It is also the most widely used sources of energy for cooking with 84 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 1,929.68 MU, 390.75 MU and 322.68 MU respectively in 2016. 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 2016, the total electricity generation was 7,953.58 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.

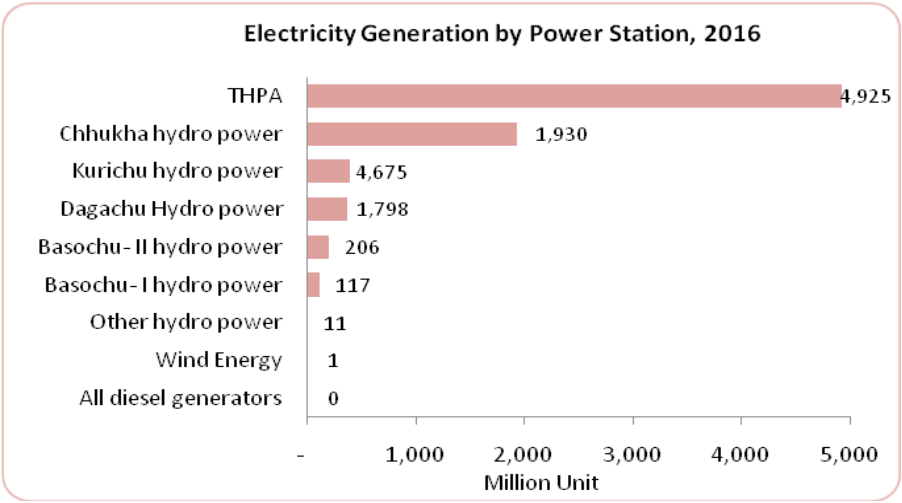


Table 9.1: Hydro Generating Stations and Their Capacities, Bhutan, (2014-2016)

Generating Stations	2014						
	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissioning	Installed Capacity	
	(No. x MW)	(MW)	(MW)	(GWh)		(No. x MW)	
Large Hydroelectric plants							
Chhukha	4 x 84.00	336.000	368.000	1797.828	1986-88	4X84.00	
Kurichu (Mongar)	4 x 15.00	60.000	66.400	368.028	2001	4X15.00	
Basochu..I (W/phodrang)	2 x 12.00	24.000	24.000	109.252	2002	2X12.00	
Basochu..II (W/phodrang)	2 x 20.00	40.000	40.000	197.081	2004	2X20.00	
Tala (Chukha)	6 x 170.00	1020.000	1122.000	4675.032	2006-07	6X170.00	
Dagachu (Dagana)	...	...	...	...	...	2X63.00	
Total	**1,480.00**	**1480.000**		**7147.222**		**1606.000**	
Mini and Micro Hydels	**(No. x KW)**	**(KW)**	**(MW)**	**(GWh)**		**(No. x kW)**	
Jushina (Thimphu)	4 x 90	270.000	...	0.929	1967	4x90	
Hesothangkha (Wangdue)	3 x 100	200.000	...	0.377	1972	3x100	
Chenari (Tashigang)	3 x 250	0.000	...	0.000	1972	3x250	
Gidakom (Thimphu)	5 x 250	816.000	...	3.829	1973	5x250	
Khalanzi (Mongar)	3 x 130	0.000	...	0.000	1976	3x130	
Chumey (Bumthang)	3 x 500	1000.000	...	0.382	1988	3x500	
Gangzur (Lhuentse)	2 x 60	120.000	...	0.021	2000	2x60	
Rukubji (Wangdue)	1 x 40	40.000	...	0.040	1986-87	1x40	
Tangsibji (Trongsa)	1 x 30	30.000	...	0.019	-do-	1x30	
Sherabling (Trongsa)	1 x 50	50.000	...	0.000	-do-	1x50	
Bubja (Trongsa)	1 x 30	30.000	...	0.000	-do-	1x30	
Tamzhing (Bumthang)	1 x 30	0.000	...	0.000	-do-	1x30	
Ura (Bumthang)	1 x 50	50.000	...	0.059	-do-	1x50	
Surey (Sarpang)	Dismentled	0.000	...	...	-do-	Dismantled	
Kekhar (Zhemgang)	1 x 20	20.000	...	...	-do-	1x20	
Changchey (Tsirang)	2 x 100	200.000	...	0.328	1991	2x100	
Tingtibi (Zhemgang)	2 x 100	200.000	...	0.625	1992	2x100	

	2015				2016				
	Generating Capacity	Peak Generation	Energy Generation	Year of Commissioning	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissioning
	(MW)	(MW)	(GWh)		(No. x MW)	(MW)	(MW)	(GWh)	
	336.000	368.000	1,867.36	1986-88	4X84.00	360.000	368.000	1929.682	1986-88
	60.000	66.400	379.02	2001	4X15.00	60.000	64.000	390.748	2001
	24.000	24.000	113.21	2002	2X12.00	24.000	24.000	116.707	2002
	40.000	40.000	199.55	2004	2X20.00	40.000	40.000	205.969	2004
	1020.000	1122.000	4,821.75	2006-07	6X170.00	1020.000	1122.000	4924.505	2006-07
	108.000	100.790	350.26	Feb-15	2X63.00	108.000	118.000	374.232	42036
	1588.000	**...**	**7,731.14**		**1606.000**	**1612.000**	**1736.000**	**7941.843**	
	(kW)	**(MW)**			**(No. x kW)**	**(kW)**	**(MW)**		
	...	0.180	0.944	1967	4x90	-	0.180	1.273	1967
	...	0.070	0.377	1972	3x100	-	0.680	0.093	1972
	...	0.000	0.000	1972	3x250	-	0.000	0.000	1972
	...	0.630	4.919	1973	5x250	-	0.675	4.738	1973
	...	0.000	0.000	1976	3x130	-	0.000	0.000	1976
	...	0.000	0.000	1988	3x500	-	0.000	0.000	1988
	...	0.050	0.419	2000	2x60	-	0.030	0.018	2000
	...	-	0.555	1986-87	1x40	-	-	0.016	1986-87
	...	0.000	0.291	-do-	1x30	-	0.000	0.047	-do-
	...	0.000	0.000	-do-	1x50	-	0.000	0.000	-do-
	...	0.000	0.000	-do-	1x30	-	0.000	0.000	-do-
	...	...	0.015	-do-	1x30	-	-	0.015	-do-
	...	...	0.159	-do-	1x50	-	-	0.265	-do-
	...	0.000	0.000	-do-	Dismantled	-	0.000	0.000	-do-
	...	...	0.000	-do-	1x20	-	-	0.000	-do-
	...	0.060	0.050	1991	2x100	-	0.660	0.252	1991
	...	0.100	0.019	1992	2x100	-	0.087	0.117	1992

cont...

Table 9.1 cont...

Generating Stations	2014						
	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissioning	Installed Capacity	
	(No. x MW)	(MW)	(MW)	(GWh)		(No. x MW)	
Darachhu (Dagana)	2 x 100	200.000	...	0.221	1992	2x100	
Lingzhi (Thimphu)	1 x 8	8.000	...	...	1999	1x8	
Rangjung (Tashigang)	2 x 1100	2200.000	...	9.321	1996	2x1100	
Rongchu (Lhuentse)	2 x 100	200.000	...	0.537	2001	2x100	
Chendebji (Trongsa)	1 x 70	70.000	...	0.136	2005	1x70	
Sengor (Mongar)	1 x 100	100.000	...	0.107	2007	1x100	
Total	**8,098.000**	**5804.000**		**16.932**		**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.

2015					2016				
	Generating Capacity	Peak Generation	Energy Generation	Year of Commissioning	Installed Capacity	Generating Capacity	Peak Generation	Energy Generation	Year of Commissioning
	(MW)	(MW)	(GWh)		(No. x MW)	(MW)	(MW)	(GWh)	
	...	0.125	0.303	1992	2x100	-	0.285	0.385	1992
	...	...	...	1999	1x8	-	-	-	1999
	...	1.110	7.122	1996	2x1100	-	0.746	2.810	1996
	...	0.047	0.657	2001	2x100	-	0.480	0.765	2001
	...	0.000	0.119	2005	1x70	-	0.063	0.185	2005
	...	...	0.064	2007	1x100	-	0.035	0.049	2007
	...		**16.014**		**8098.000**			**11.027**	

Table 9.2: Details of Diesel Generator Sets, Bhutan, 2016

Dzongkhag	2016		
	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	56.00
	DG set (380 kVA)		56.00
	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	200.00
	DG set (10 kVA)		0.00
	DG set (1250 kVA)		200.00
	DG set (1250 kVA)		0.00
	DG set (125 kVA)		0.00
	DG set (380 kVA)		15.27
	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		**8,928.00**	**527.27**

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

Table 9.3: Major Transmission Lines, 2016

Line	400 kV	220 kV		132 kV	66kV				Remarks
	D/C	S/C	D/C	S/C	S/C	D/C	Q/C	UG	
Tala - Khogla	24.615								
Tala - Malbase - Pugli	49.528								
CHP-Gedu-Indian border			35.78						
CHP-Gedu-Malbase		29.841							
CHP-Semtokha		54.01							
Semtokha-Rurichhu		44.9							
Malbase-Border (Birpara)		4.075							
Malbase Singhigaon(Fdr 2)		2.607							
Malbase Multi circuit							3.405		
Malbase-Samtse-Singhigaon			41.642						Capitalized in 2014
Samtse-Sibso						26.958			Capitalized in 2014
Samtse-Gomtu						14.851			Capitalized in 2014
Chhukha-Gedu					20.4				
Gedu-Phuentsholing					16.7				
Phuentsholing-Malbase					8.9				
Phuentsholing-Gomtu					26.9				
Kurichhu-Kilikhar				10.06					
Kilikhar-Kanglung				29.705					Realigned at Kilikhar in 2012

cont...

Table 9.3 cont...

Line	400 kV	220 kV		132 kV	66kV				Remarks
	D/C	S/C	D/C	S/C	S/C	D/C	Q/C	UG	
Kilikhar-Tangmachhu (Lhuntse)				42.8					Charged at 33 kV
Kurichhu-nangkor				31.08					Relocated KP20 & KP21 in 2013
Nangkor-Deothang				23.3					
Deothang-Motanga				10.5					
Motanga - India (border)				1.5					
Nangkor-Nganglam				33.793					Realigned at Denchi in 2012
Nganglam-Tingtibi				83.33					
Gelephu-Pelrithang (Lodrai)				10.784					
Pelrithang (Lodrai) - Tingtibi				34.956					
Gelephu-Indian Border				0.1					
Tingtibi - Yurmoo				32.628					Charged at 33 kV
Yurmoo - Bumthang					34.856				Charged at 33 kV
Yurmoo - Trongsa					20.94				Charged at 33 kV
Chhukha-Chumdo					36.98				
Chumdo-Khasadrapchu					4.780				
Khasadrapchu-Olakha					11.740			1.00	UG Cable at IT Park 2013

cont...

Table 9.3 cont...

Line	400 kV	220 kV		132 kV	66kV				Remarks
	D/C	S/C	D/C	S/C	S/C	D/C	Q/C	UG	
Chumdo-Paro					24.01				
Chumdo-Haa					33.4				
Tie-line watsa					0.5				
Semtokha-Olakha					1.7				
Khasadrapchu - Jemina						5.96			
Semtokha - Lobeysa					24.43				Realigned at Dochula in 2011
Hebesa-Rurichhu					3.08				
Lobeysa-Rurichhu					20.3				
Semtokha-Dechencholing					11.45				
Rurichhu - Tsirang		46.6							
Tsirang-Jigmeling			30.565						
Tsirang-Dagachu Port head yard			20.202						
Jigmeling-Pelrithang(Lodrai)			10.420						Charged at 132 kV
Tshendengang-Dagapela (LILO)			4.396						
Pasakha Industrial Area								5.018	UG Cable at Pasakha IA
Total	**74.143**	**182.033**	**143.005**	**344.534**	**301.066**	**47.769**	**3.405**	**6.018**	

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

Table 9.4: Monthly Revenue From Sale of Energy from Chhukha Power Plant, (2013-2016)

(Nu. in Million)

Month	2013			2014			2015			2016		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	33.91	5.72	39.64	81.71	81.71	163.42	68.90	49.40	118.30	83.96	47.19	131.15
February	43.12	4.91	48.03	42.63	40.92	83.55	37.35	42.24	79.60	42.01	43.30	85.32
March	75.69	4.50	80.19	69.12	38.53	107.65	69.84	39.23	109.07	72.87	41.40	114.27
April	154.44	4.33	158.77	93.26	29.86	123.12	322.04	26.94	348.98	216.36	38.73	255.09
May	294.40	4.35	298.75	231.78	16.88	248.66	354.83	10.84	365.67	234.60	39.99	274.59
June	503.40	4.13	507.52	445.31	0.00	445.31	483.13	1.63	484.76	435.61	31.40	467.01
July	522.35	4.17	526.53	630.46	0.00	630.46	624.09	0.00	624.09	686.97	52.21	739.18
August	576.10	3.31	579.42	630.43	0.00	630.43	616.15	0.00	616.15	687.53	52.21	739.74
September	533.68	3.21	536.89	612.75	0.00	612.75	616.69	11.47	628.16	677.92	46.61	724.53
October	484.96	0.00	484.96	480.12	0.75	480.87	472.73	25.13	497.86	802.27	49.56	851.83
November	241.97	23.21	265.18	229.08	22.17	251.25	222.71	40.63	263.34	415.22	69.28	484.50
December	133.90	38.91	172.81	0.00	37.99	37.99	123.48	47.68	171.16	208.31	62.41	270.73
Total	**3,597.91**	**100.76**	**3698.67**	**3,546.63**	**268.81**	**3815.44**	**4011.96**	**295.19**	**4307.15**	**6371.33**	**511.88**	**4867.21**

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, (2013-2016)

(Nu. in Million)

Month	2013			2014			2015			2016		
	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total	Export	Internal	Total
January	35.63	14.04	49.67	76.97	112.58	189.55	33.86	141.10	174.96	9.44	121.50	130.94
February	22.06	12.81	34.87	26.27	107.63	133.90	23.01	108.01	131.03	0.00	123.04	123.04
March	38.34	14.78	53.12	39.32	117.71	157.03	39.72	122.89	162.61	14.40	117.29	131.69
April	209.44	13.45	222.89	42.43	126.99	169.42	146.51	94.33	240.85	89.15	100.46	189.62
May	505.25	14.00	519.25	324.96	102.86	427.82	497.32	84.66	581.98	273.78	100.37	374.15
June	1,076.00	13.24	1089.24	771.78	52.97	824.75	837.04	45.93	882.97	651.31	55.24	706.56
July	1,420.89	13.59	1434.49	1,401.89	0.00	1401.89	1,341.20	0.00	1,341.20	1,267.54	0.00	1,267.54
August	1,409.97	13.60	1423.57	1,417.43	0.00	1417.43	1,367.32	0.00	1,367.32	1,304.07	0.00	1,304.07
September	1,015.07	13.38	1028.45	1,373.63	0.00	1373.63	1,305.72	0.00	1,305.72	1,281.66	0.00	1,281.66
October	879.15	22.11	901.26	710.27	55.94	766.21	650.75	64.86	715.61	1,031.88	9.70	1,041.58
November	350.73	85.87	436.61	249.81	114.41	364.22	241.47	100.20	341.67	377.40	67.27	444.67
December	149.58	116.47	266.05	102.21	142.10	244.31	93.16	129.79	222.95	163.56	91.32	254.89
Total	**7112.11**	**347.34**	**7459.45**	**6536.96**	**933.18**	**7470.14**	**6,577.10**	**891.77**	**7,468.87**	**8,316.65**	**694.87**	**6,995.51**

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, (2013-2016)

(Nu. in Million)

Month	2013			2014			2015			2016		
	Export	Inter-nal	Total	Export	Inter-nal	Total	Export	Inter-nal	Total	Export	Internal	Total
January	0.00	25.06	25.06	0.00	40.16	40.16	0.00	43.83	43.83	48.89	0.00	48.89
February	0.00	17.99	17.99	0.00	38.48	38.48	0.00	37.92	37.92	43.66	0.00	43.66
March	0.00	24.83	24.83	0.00	39.28	39.28	0.00	42.48	42.48	48.09	0.00	48.09
April	3.89	20.11	24.00	0.00	31.34	31.34	0.00	32.13	32.13	18.81	0.00	18.81
May	44.00	14.39	58.39	19.78	29.23	49.01	30.27	26.62	56.89	10.34	6.79	17.13
June	51.21	15.16	66.37	33.55	26.53	60.07	36.81	26.45	63.26	0.00	26.55	26.55
July	60.37	12.83	73.20	44.70	24.90	69.60	37.23	18.48	55.70	0.00	30.53	30.53
August	56.49	15.46	71.94	41.86	27.40	69.26	33.75	27.08	60.83	0.00	33.55	33.55
September	55.27	16.04	71.31	41.30	26.14	67.44	33.59	11.03	44.63	0.00	27.54	27.54
October	44.96	19.49	64.46	20.37	30.93	51.31	19.60	13.50	33.10	0.00	26.63	26.63
November	13.59	21.62	35.21	0.00	32.86	32.86	0.00	28.49	28.49	0.00	0.00	0.00
December	0.00	27.94	27.94	0.00	43.60	43.60	0.00	42.85	42.85	19.87	0.00	19.87
Total	**329.77**	**230.90**	**560.68**	**201.55**	**390.85**	**592.40**	**191.25**	**350.86**	**542.11**	**2,185.79**	**151.58**	**321.37**

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, (2015-2016)

(Nu. in Million)

Month	2015			2016		
	Export	Internal	Total	Export	Internal	Total
January	0.00	0.00	0.00	0.00	0.00	0.00
February	7.12	0.00	7.12	0.00	0.00	0.00
March	28.83	0.00	28.83	10.65	0.00	10.65
April	37.27	0.00	37.27	37.82	0.00	37.82
May	45.01	0.00	45.01	39.14	0.00	39.14
June	96.34	0.00	96.34	92.07	0.00	92.07
July	144.68	0.00	144.68	250.48	0.00	250.48
August	176.11	0.00	176.11	246.52	0.00	246.52
September	180.13	0.00	180.13	195.37	0.00	195.37
October	146.35	0.00	146.35	132.69	0.00	132.69
November	81.23	0.00	81.23	112.86	0.00	112.86
December	45.52	0.00	45.52	71.83	0.00	71.83
Total	**3,003.59**	**0.00**	**988.59**	**3,205.42**	**0.00**	**1,189.42**

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, (2012-2016)

Details	2012	2013	2014	2015	2016
Towns electrified (numbers)	48	51	52	57	55
Villages electrified (numbers)	2,603	3,242	3,675	3,719	3,786
Total Consumers (numbers)	131,700	146,500	149,100	168,300	176,397
Sales of energy (Nu.in million)	3,096.9	3,346.6	3,959.8	4,576.3	4,771.6
Per capita energy consumption (kWh)	2,572.2	2,625.1	2,798.8	2,804.3	2,673.1

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 73.74 million in 2016. 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 May, June and July. Paro, Thimphu and Punakha received the largest number of tourist in 2016, also recorded maximum bed nights by Dzongkhag. "Culture and Nature" has always been the Unique Selling Proposition (USP) for the tourism industry of Bhutan.

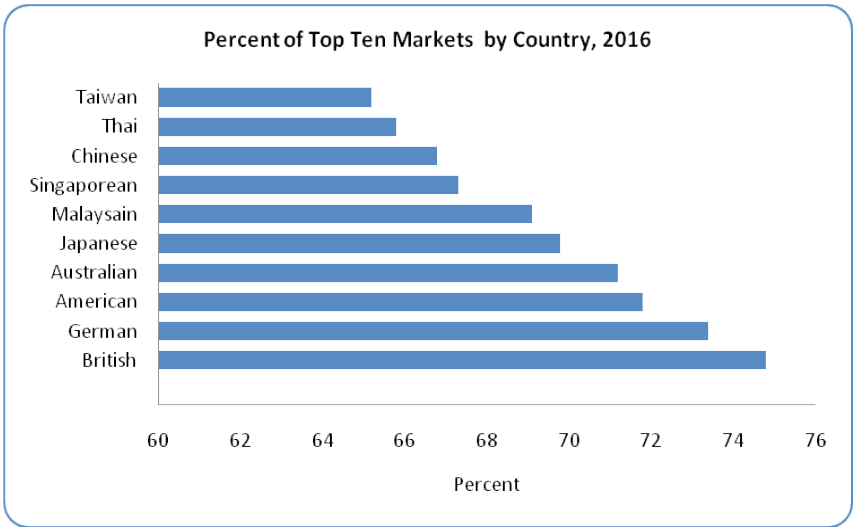


Table 10.1: Annual International Tourist Arrivals by Country and Region, Bhutan, (2012-2016)

(Numbers)

Country	2012	2013	2014	2015	2016
AFRICA	**94**	**94**	**160**	**112**	**99**
East Africa	4	19	16	17	34
British Indian Ocean Territory	0	0	0	0	0
Burundi	0	0	0	0	0
Comoros	0	0	0	0	1
Djibouti	0	0	1	0	0
Eritrea	0	0	0	0	0
Ethiopia	0	2	0	0	3
Kenya	2	5	7	10	12
Madagascar	0	1	0	0	0
Malawi	0	0	0	0	2
Mauritius	0	5	8	4	10
Mozambique	0	2	0	0	0
Reunion	0	0	0	0	0
Rwanda	0	0	0	0	0
Seychelles	1	2	0	0	0
Somalia	0	0	0	0	0
Tanzania	0	0	0	1	2
Uganda	0	1	0	1	2
Zambia	1	0	0	0	0
Zimbabwe	0	1	0	1	2
Other countries of East Africa	0	0	0	0	0
Central Africa	2	0	2	2	0
Angola	0	0	0	1	0
Cameroon	0	0	0	0	0
Central African Republic	0	0	0	0	0
Chad	2	0	2	1	0
Congo	0	0	0	0	0
Congo	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	1	6	12	4	4
Algeria	0	1	2	2	0

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Morocco	1	1	2	2	4
South Sudan	0	0	0	0	0
Sudan	0	0	0	0	0
Tunisia	0	4	8	0’	0
Western Sahara	0	0	0	0	0
Other countries of North Africa	0	0	0	0	0
South Africa	82	62	115	80	58
Botswana	0	0	0	1	0
Lesotho	0	0	0	0	0
Namibia	5	6	6	5	5
South Africa	77	56	109	70	53
Swaziland	0	0	0	1	0
Other countries of Sourthern Africa (Mot-swana)	0	0	0	3	0
West Africa	5	7	15	9	3
Benin	0	0	1	0	0
Burkina Faso	0	0	0	0	0
Cabo Verde	0	0	0	0	0
Cote d’lvoire	0	2	1	0	1
Ghana	0	1	0	1	1
Guinea	0	0	0	0	0
Guinea-Bassau	0	0	0	0	0
Liberia	0	0	0	1	0
Mali	0	0	0	0	0
Mauritania	0	1	1	0	0
Niger	0	0	5	0	0
Nigeria	5	3	6	7	1
Saint Helena	0	0	0	0	0
Senegal	0	0	1	0	0
Sierrra Leone	0	0	0	0	0
Togo	0	0	0	0	0
Other countries of Western Africa	0	0	0	0	0
AMERICAS	**7,875**	**9,079**	**9,845**	**9,392**	**9,432**
Caribbean	3	13	18	13	8
Anguilla	0	0	0	0	0
Antigua and Barbuda	0	0	0	0	0
Aruba	0	0	0	0	0

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Bahamas	0	2	3	0	1
Barbados	0	0	0	0	0
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	0
Curacao	0	0	0	0	0
Dominica	2	6	4	0	2
Dominican Republic	0	0	0	0	0
Grenada	0	0	0	0	0
Guadeloupe	0	0	0	0	0
Haiti	0	0	0	0	0
Jamaica	0	4	2	1	0
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	0	1	3	5	3
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	1	-	6	7	2
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	24	8	24	22	46
Belize	0	0	1	2	1
Costa Rica	6	2	5	6	35
El Salvador	0	2	2	0	2
Guatemala	10	0	12	7	7
Hondurus	0	1	0	1	0
Nicaragua	0	1	3	1	0
Panama	8	2	1	5	1

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Other countries of Central America	0	0	0	0	0
North America	7,188	8,218	8,833	8,557	8,707
Canada	993	1,055	1,297	1,177	1,109
Greenland	0	0	0	0	0
Mexico	192	236	245	243	308
Saint Pierre and Miquelon	0	0	0	0	0
United States of America	6,003	6,927	7,291	7,137	7,290
Hawaii, USA	0	0	0	0	0
Canada, United States	0	0	0	0	0
Other countries of North America	0	0	0	0	0
South America	660	840	970	800	671
Argentina	88	114	119	84	162
Bolivia	2	2	2	2	1
Brazil	459	556	583	538	321
Chile	40	87	157	78	73
Colombia	40	39	64	57	56
Ecuador	4	6	1	6	4
Falkland Islands (Malvinas)	0	0	0	0	0
French Guiana	0	0	0	0	0
Guyana	0	3	0	0	0
Paraguay	0	0	3	1	0
Peru	7	8	23	14	31
Surinam	0	2	0	0	0
Uruguay	7	2	6	14	7
Venezuela	13	21	12	6	16
Other countries of Sourthern Americas	0	0	0	0	0
EAST ASIA AND THE PACIFIC	**21,330**	**21,245**	**32,105**	**24,668**	**30,288**
North-East Asia	12,178	10,478	12,957	13,710	16,893
China	3,766	4,764	8,111	9,399	9,210
Hongkong	0	0	0	0	0
Japan	6,967	4,015	2,707	2,437	4,832
Korea, Democratic People's Republic of Korea (north)	11	2	3	0	0
Korea, Republic of Korea (south)	630	596	858	640	1,035
Macao	0	0	0	0	0
Mongolia	3	0	10	7	4
Taiwan Province of China	801	1,101	1,268	1,227	1,812

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Other countries of North-East Asia	0	0	0	0	0
South- East Asia	7,034	8,506	16,918	8,906	11,376
Brunei Darrussalam	1	8	7	3	17
Cambodia	3	3	1	6	10
Indonesia	202	579	619	333	536
Lao People's Democratic Republic	2	13	0	6	12
Malaysia	1,309	2,029	2,067	1,546	1,959
Myanmar	12	5	12	12	20
Philippines	243	240	206	234	383
Singapore	1,607	2,037	1,720	2,587	3,011
Thailand	3,569	3,494	12,105	3,778	4,175
Timor-Leste	0	0	0	0	0
Viet Nam	86	98	181	395	1,253
Asean countries	0	0	0	0	0
Other countries of South-East Asia (Burmese)	0	0	0	6	0
Australia	2,118	2,255	2,230	2,051	2,017
Australia	1,926	2,044	2,037	1,833	1,818
New Zealand	192	211	193	218	199
Melanesia	0	6	0	1	2
Fiji	0	6	0	1	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

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
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 countries of Asia	0	0	0	0	0
Other Countries of Oceania	0	0	0	0	0
EUROPE	**14,407**	**13,616**	**15,550**	**14,356**	**14,361**
Central/ Eastern Europe	1,009	1,148	1,378	1,080	1,188
Armenia	1	4	5	9	10
Azerbaijan	0	0	0	2	8
Belarus	11	12	2	8	4
Bulagria	14	26	68	26	34
Czech Republic	148	161	195	157	195
Slovakia	0	0	0	0	0
Estonia	12	16	23	32	9
Georgia	5	1	2	2	5
Hungary	68	106	127	115	69
Kazakhstan	4	6	4	7	1
Kyrgyzstan	2	1	7	0	0
Latvia	32	17	10	16	44
Lithuania	4	18	37	43	14

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Moldova, Republic of	2	0	1	0	0
Poland	240	288	289	284	313
Romania	19	34	55	23	64
Russian Federation	365	389	450	269	242
Slovakia	36	36	72	42	86
Tajikistan	0	0	0	0	0
Turkmenistan	0	0	0	0	2
Ukraine	44	33	31	44	88
Uzbekistan	2	0	0	1	0
Baltic Countries	0	0	0	0	0
Commonwealth Independent States	0	0	0	0	0
Other countries of Central/ East Europe	0	0	0	0	0
Nothern Europe	3,369	3,188	3,634	4,037	4,114
Channel Islands	0	0	0	0	0
Denmark	332	202	188	210	208
Faeroe Islands	0	0	0	0	0
Finland	112	144	120	195	124
Iceland	6	2	5	5	30
Ireland	72	64	112	98	139
Isle of Man	0	0	0	0	0
Norway	140	218	245	185	234
Svalbard and Jan Mayen Islands	0	0	0	0	0
Sweden	241	267	284	386	253
United Kingdom	2,466	2,291	2,680	2,958	3,125
United Kingdom/Ireland	0	0	0	0	0
Scandinavia	0	0	0	0	0
Other countries of Nothern Europe	0	0	0	0	1
Southern Europe	1,831	1,557	2,031	1,548	2,147
Albania	0	0	0	0	1
Andorra	8	2	1	3	7
Bosnia and Herzegovina	1	0	0	0	0
Croatia	14	14	8	10	13
Gibraltar	0	0	0	0	0
Greece	60	47	57	24	55
Holy See	0	0	0	0	0
Italy	786	750	837	781	1,022
Malta	9	0	23	3	5

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Montenegro	1	0	0	0	0
Portugal	118	222	145	135	224
San Marino	0	0	0	2	0
Serbia	4	2	8	5	21
Serbia and Montenegro	0	0	0	0	0
Slovenia	41	28	8	6	12
Spain	789	492	944	579	787
Other countries of Southern Europe	0	0	0	0	0
Western Europe	7,815	7,389	7,992	7,402	6,539
Austria	611	653	578	513	504
Belgium	505	514	574	716	460
France	1,847	1,561	1,636	1,563	1,501
Germany	2,880	2,753	2,971	2,498	2,301
Liechtenstein	4	3	2	12	1
Luxembourg	37	54	70	97	22
Monaco	6	1	0	3	4
Netherlands	993	785	863	709	641
Switzerland	932	1,065	1,298	1,291	1,105
Benelux	0	0	0	0	0
Other countries of Western Europe	0	0	0	0	0
East Mediterranean Europe	383	334	514	288	371
Cyprus	7	3	4	1	7
Israel	168	165	251	132	167
Turkey	208	166	259	155	197
Other Europe	0	0	1	1	2
Other countries of Europe (Macedonia)	0	0	0	1	2
MIDDLE EAST	**36**	**23**	**29**	**43**	**79**
Bahrain	0	3	1	0	3
Dubai	0	0	0	0	0
Egypt	0	0	2	5	4
Irag	0	0	0	0	0
Jordan	5	4	0	4	4
Kuwait	6	0	8	6	8
Lebanon	5	6	10	9	16
Libya	0	0	0	0	0
Oman	5	1	1	0	7

cont...

Table10.1 cont...

Country	2012	2013	2014	2015	2016
Qatar	0	3	2	3	1
Saudi Arabia	12	5	2	4	9
State of Palestine	0	0	0	0	1
Syrian Arab Republic	0	0	0	1	0
United Arab Emirates	3	1	2	11	25
Yemen	0	0	1	0	1
Other countries of Middle East	0	0	0	0	0
SOUTH ASIA	**189**	**195**	**245**	**229**	**341**
Afghanistan	2	0	0	0	1
Iran, Islamic Republic of	2	4	5	10	13
Nepal	157	170	203	192	285
Pakisthan	11	6	10	9	14
Sri Lanka	17	15	27	18	28
India, Pakistan	0	0	0	0	0
Other countries of Pakistan	0	0	0	0	0
Total arrivals	**43,931**	**44,252**	**57,934**	**48,800**	**54,600**

Note : a. From year 2011 to 2014, it was only the dollar paying tourist whereas for the year 2015 it includes the regional highend tourist also.

Source: Tourism Council of Bhutan, Thimphu.

Table 10.2: Tourist Arrivals By Country of Residence and Revenue Receipts, Bhutan, (2012-2016)

(Numbers)

Region	2012	2013	2014	2015	2016
North America	7,188	8,218	8,833	8,557	8,707
South America	660	840	970	800	671
Caribbean	3	13	18	13	8
Central America	24	8	24	22	46
East Asia and Pacific	21,330	21,245	32,105	24,668	30,288
South Asia	189	195	245	229	341
Europe	14,407	13,616	15,550	14,356	14,361
Africa	94	94	160	112	99
Middle East	36	23	29	43	79
All regions (persons)	43,931	44,252	57,934	48,800	54,600
Tourism revenue receipts [1]					
Ngultrums (million)	3,355.40	3,483.06	4,392.00	4,557.15	4,954.59
Or					
US Dollars (million)	62.80	63.49	73.20	71.05	73.74

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, (2012-2016)

Season & Month	2012	2013	2014	2015	2016
Winter	22,351	24,371	27,891	38,647	45,389
November	9,380	10,759	10,752	15,338	17,112
December	6,953	9,540	12,051	16,882	20,484
January	6,018	4,072	5,088	6,427	7,793
Spring	25,966	28,121	25,703	37,798	43,827
February	5,286	5,753	5,123	7,659	8,820
March	8,772	10,687	7,528	14,004	17,480
April	11,908	11,681	13,052	16,135	17,527
Summer	26,777	26,859	31,912	43,293	62,469
May	12,736	12,647	13,931	21,313	30,270
June	8,936	9,230	10,142	13,668	20,225
July	5,105	4,982	7,839	8,312	11,974
Autumn	30,313	36,858	47,974	47,641	57,885
August	5,936	7,233	12,099	7,930	11,944
September	8,551	9,460	12,359	12,831	18,009
October	15,826	20,165	23,516	26,880	27,932

Note : The total number of tourist arrivals here shows dollar paying tourist, regional high end tourist, international business and regional business tourist.

Source: Tourism Council of Bhutan, Thimphu.

Table 10.4: Percentage of Tourist Arrivals by Purpose of Visit, Bhutan, 2016

Purpose	%
Leisure	84.3
Official	5.3
Business	3.0
Others	7.4

Source: Tourism Council of Bhutan, Thimphu.

Table 10.5: Total Number of Tourist Arrivals by Dzongkhag, 2016

Dzongkhag	No. of visitors
Bumthang	12,275
Chhukha	3,002
Dagana	11
Gasa	601
Haa	4,550
Lhuntse	385
Monggar	2,231
Paro	56,798
Pema Gatshel	63
Punakha	43,741
Samdrup Jongkhar	1,782
Samtse	...
Sarpang	231
Thimphu	53,454
Trashi Yangtse	792
Trashigang	2,015
Trongsa	5,778
Tsirang	32
Wangdue Phodrang	16,068
Zhemgang	231

Source: Tourism Council of Bhutan, Thimphu.

Table 10.6: Total Number of Accommodation Providers by Bed Nights by Dzongkhag, 2016

Dzongkhag	Bed Nights
Bumthang	31,519
Chhukha	3,111
Dagana	24
Gasa	3,470
Haa	5,808
Lhuntse	1,073
Monggar	3,539
Paro	125,033
Pema Gatshel	116
Punakha	59,827
Samdrup Jongkhar	1,978
Samtse	...
Sarpang	354
Thimphu	92,986
Trashi Yangtse	1,023
Trashigang	3,290
Trongsa	6,238
Tsirang	40
Wangdue Phodrang	23,535
Zhemgang	614

Source: Tourism Council of Bhutan, Thimphu.

Table 10.7: Percent of Top Ten Markets by Gender, Bhutan, 2016

Purpose	Sex	
	% Male	% Female
Chinese	33.5	66.5
American	43.6	56.4
Thai	31.5	68.5
British	49.5	50.5
German	46.7	53.3
Singaporean	34.5	65.5
Japanese	39.5	60.5
Australian	42.4	57.6
Taiwan	30.3	69.7
Malaysain	38.1	61.9

Source: Tourism Council of Bhutan, Thimphu.

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

2015	2016
China	China
USA	USA
Thailand	Japan
UK	Thailand
Singapore	UK
Germany	Sinagapore
Japan	Germany
Australia	Malaysia
France	Australia
Malaysia	Taiwan

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.

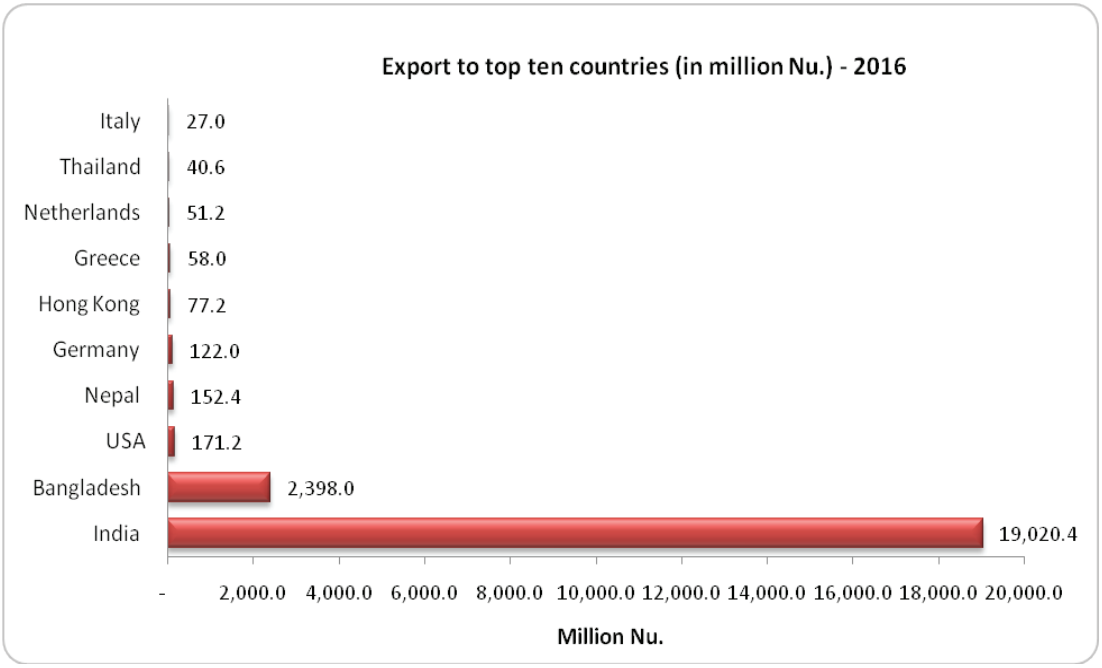


Table 11.1: Balance of Trade, Bhutan, (2012 - 2016)

(Nu. in Million)

Trade	2012	2013	2014	2015	2016
Exports	**28,600.13**	**31,852.98**	**35,584.99**	**35,229.32**	**35,258.00**
India	26,627.35	28,979.16	31,801.44	31,801.35	32,052.00
Third Countries	1,972.78	2,873.82	3,783.55	3,427.97	3,206.00
Imports	**53,089.62**	**53,272.99**	**56,884.54**	**68,037.32**	**67,360.00**
India	41,834.29	43,889.37	47,847.62	53,740.50	55,285.00
Third Countries	11,255.33	9,383.62	9,036.92	14,296.82	12,075.00
Balance of trade	**(24,673.48)**	**(21,420.01)**	**(21,299.55)**	**(32,808.00)**	**(32,102.00)**
India	(15,210.94)	(14,910.21)	(16,046.18)	(21,939.15)	(23,233.00)
Third Countries	(9,462.54)	(6,509.80)	(5,253.37)	(10,868.85)	(8,869.00)

Note : 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, 2016

Commodity Description	Value (Nu. in Million)	Percent share
Containing by weight more than 55% of silicon (Ferro Silicon)	6,830.42	44.37
Portland Pozzolana Cement	1,600.26	10.40
Neither crushed nor ground (Cardamoms)	1,342.39	8.72
Other, of rectangular (other than square) cross-section (Semi-finished products of Iron)	1,278.06	8.30
Other, of free-cutting steel (Bars and rods of iron)	840.69	5.46
Of Calcium (Calcium Carbide)	804.78	5.23
Dolomite, not calcined or sintered, chips	774.93	5.03
Of silicon (Silicon Carbide)	695.29	4.52
Dolomite, not calcined or sintered, lumbs and slabs	684.78	4.45
Other (Potatoes)	542.50	3.52
Total	**15,394.10**	**100.00**

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

Table 11.3: Top Ten Commodities of Import, Bhutan, 2016

Commodity	Value (Nu. in Million)	Percent share
Other light oils and preparations (Diesel)	5,776.53	26.94
Parts, including regulators (Hydraulic turbines and water wheels)	4,012.10	18.71
Parts (electric motors, generator and rotary converters)	2,351.76	10.97
Ferrous products obtained by direct reduction of iron ore	1,840.37	8.58
Motor spirit including aviation spirit (Petrol)	1,755.31	8.18
Semi-milled or wholly milled rice	1,536.83	7.17
Motor vehicle for transport of goods (g.v.w. not exceeding 5 tonnes)	1,113.30	5.19
For a voltage exceeding 1,000 V	1,057.89	4.93
Dumpers designed for off-highway use	1,029.39	4.80
Machinery with a 360 degree revolving superstructure	972.18	4.53
Total	**21,445.68**	**100.00**

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

Table 11.4: Country wise Import in Ranking Order, 2016

SI. No.	Country Name	Value (Nu. in million)
1	India	55,111.78
2	Thailand	1,486.73
3	China	1,476.22
4	Japan	1,304.44
5	Korea South	1,262.69
6	Singapore	1,206.31
7	Italy	444.30
8	Germany	407.65
9	France	407.41
10	United States of America	360.93
11	United Arab Emirates	306.61
12	Sweden	260.20
13	Bangladesh	218.17
14	Hong Kong	179.14
15	Malaysia	175.11
16	Saudi Arabia	159.87
17	Qatar	147.63
18	Finland	137.82
19	Russian Federation	127.23
20	Denmark	112.58
21	United Kingdom	112.10
22	Netherlands	110.97
23	Switzerland	106.82
24	Indonesia	97.20
25	Israel	92.20
26	Norway	78.52
27	Nepal	76.14
28	Australia	58.69
29	New Zealand	49.21
30	Belgium	43.56
31	Austria	40.95
32	Viet Nam	39.95
33	Canada	32.60
34	Taiwan	30.41
35	Turkey	25.64
36	South Africa	25.27
37	Egypt	22.88
38	Slovakia	20.86
39	Poland	18.26
40	Spain	16.54
41	Pakistan	9.63
42	Brazil	9.10
43	Rwanda	8.80
44	Cyprus	6.98
45	Philippines	5.33
46	Myanmar	3.76
47	Kuwait	2.78
Total		**66,437.96**

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, 2016

Sl. No.	Country Name	Value (Nu. in Million)
1	India	19,020.37
2	Bangladesh	2,397.96
3	United States of America	171.20
4	Nepal	152.40
5	Germany	121.96
6	Hong Kong	77.19
7	Greece	58.02
8	Netherlands	51.19
9	Thailand	40.61
10	Italy	26.96
11	Viet Nam	26.20
12	Japan	22.13
13	Slovenia	18.32
14	Malaysia	16.04
15	China	8.50
16	Singapore	7.64
17	Taiwan	5.12
18	Canada	1.00
Total		**22,222.82**

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 2011/12 to 2015/16

(Nu. in Million)

Item	2011/12 (p)	2012/13	2013/14	2014/15	2015/16
A. Current Account	**(19,774.27)**	**(7,256.39)**	**(28,831.39)**	**(36,084.75)**	**(41,211.75)**
Exports cif	30,997.44	29,931.47	32,879.96	35,901.75	32,704.53
Imports, cif	(50,878.07)	(31,754.77)	55,306.91	61,923.39	68,533.20
Trade balance	(19,880.62)	(1,823.29)	(22,426.95)	(26,021.64)	(35,828.67)
Services	**(4,749.95)**	**(2,900.22)**	**(5,380.01)**	**(3,701.04)**	**(3,529.37)**
Credit	5,146.02	6,837.03	8,126.16	7,685.51	9,529.10
Debit	(9,895.97)	(9,737.25)	13,506.17	11,386.55	13,058.47
Primary Income	**(5,922.37)**	**(9,248.56)**	**(7,127.62)**	**(11,341.65)**	**(11,407.41)**
Credit	875.13	965.86	1,164.18	1,407.22	1,623.07
Debit	(6,797.51)	(10,214.42)	8,291.80	12,748.88	13,030.48
Secondary Income	**10,778.68**	**6,715.68**	**6,103.19**	**4,979.58**	**9,553.70**
Credit	12,907.31	8,684.69	7,333.20	6,874.16	11,358.47
Of Which, Budgetary Grants	9,020.72	4,716.15	3,856.53	4,785.01	8,373.35
Debit	(2,128.64)	(1,969.00)	1,230.01	1,894.57	1,804.76
B. Capital Account	4,755.13	14,458.99	16,901.74	13,981.04	12,668.05
o/w Budgetary Grants for Investment	3,436.53	4,698.63	7,541.54	4,408.03	6,114.55
C. Financial Account	(15,222.08)	(17,956.09)	(14,556.68)	(23,886.14)	(42,431.52)
Other Investment	13,948.99	17,723.73	13,771.56	(21,811.14)	(41,898.58)
o/w RGOB loans, net	11,435.14	18,447.09	18,993.61	24,217.70	37,617.48
o/w Other loans, net	2,950.76	201.42	(5,770.28)	(3,427.79)	5,708.11
C. Net Errors and Omissions	(9,271.37)	(15,946.53)	3,441.73	(2,342.84)	(1,320.68)
D. Overall balance	**(9,068.42)**	**9,212.16**	**6,068.77**	**(560.41)**	**12,567.14**

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, 2011/12 To 2015/16

(Nu. in Million)

Item	2011/12	2012/13	2013/14	2014/15	2015/16
1.Rupee reserves	**1,516.27**	**11,352.24**	**10,133.27**	**10,865.88**	**20,811.87**
Royal Monetary Authority of Bhutan	229.88	10,706.43	9,493.07	9,826.55	19,017.73
Bank of Bhutan Ltd.	857.25	229.83	447.91	598.04	830.28
Bhutan National Bank Ltd.	171.79	56.46	61.91	193.91	141.99
TBank Ltd.	53.27	115.72	74.91	77.25	175.94
Druk PNB Ltd.	204.07	243.79	55.47	170.14	645.92
Bhutan Development Bank Ltd.	...	...	...	...	...
2.Convertible currency reserves (US $)	**647.37**	**726.71**	**829.26**	**788.02**	**810.98**
Royal Monetary Authority of Bhutan	623.61	692.68	789.15	759.44	789.51
Bank of Bhutan Ltd.	8.95	21.58	22.71	20.26	13.37
Bhutan National Bank Ltd.	14.17	10.61	14.80	6.94	5.77
TBank Ltd.	0.11	0.12	0.13	0.11	0.44
Druk PNB Ltd.	0.52	1.72	2.48	1.26	1.88
Bhutan Development Bank Ltd.	...	...	...	...	...
3. Total reserves (1+2) (US $)	**674.29**	**916.86**	**997.89**	**958.45**	**1,118.77**
4. Months of Merchandise Imports					
Total reserves	8.96	20.68	13.01	11.84	13.25
Rupee reserves	0.45	5.21	2.56	2.56	4.26
Convertible currency reserves	41.52	92.77	76.77	54.76	66.17

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 $, (2012 - 2016)

Month	2012	2013	2014	2015	2016
January	51.35	54.31	62.08	62.14	67.29
February	49.16	53.75	62.25	62.03	68.24
March	50.32	54.39	61.01	62.45	67.02
April	51.80	54.38	60.36	62.75	66.47
May	54.44	55.03	59.31	63.81	66.89
June	56.03	58.33	59.73	63.86	67.30
July	55.53	59.78	60.06	63.65	67.22
August	55.56	63.21	60.90	65.07	66.94
September	54.56	63.64	60.88	66.19	66.74
October	53.02	61.63	61.35	65.08	66.76
November	54.78	62.71	61.68	66.05	67.53
December	54.65	61.95	62.71	66.60	67.90
Calendar year average exchange rate	**53.43**	**58.59**	**61.47**	**64.14**	**67.19**
Fiscal year	**2011/12**	**2012/13**	**2013/14**	**2014/15**	**2015/16**
Fiscal year average exchange Rate	50.27	54.86	61.47	62.05	66.32

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.

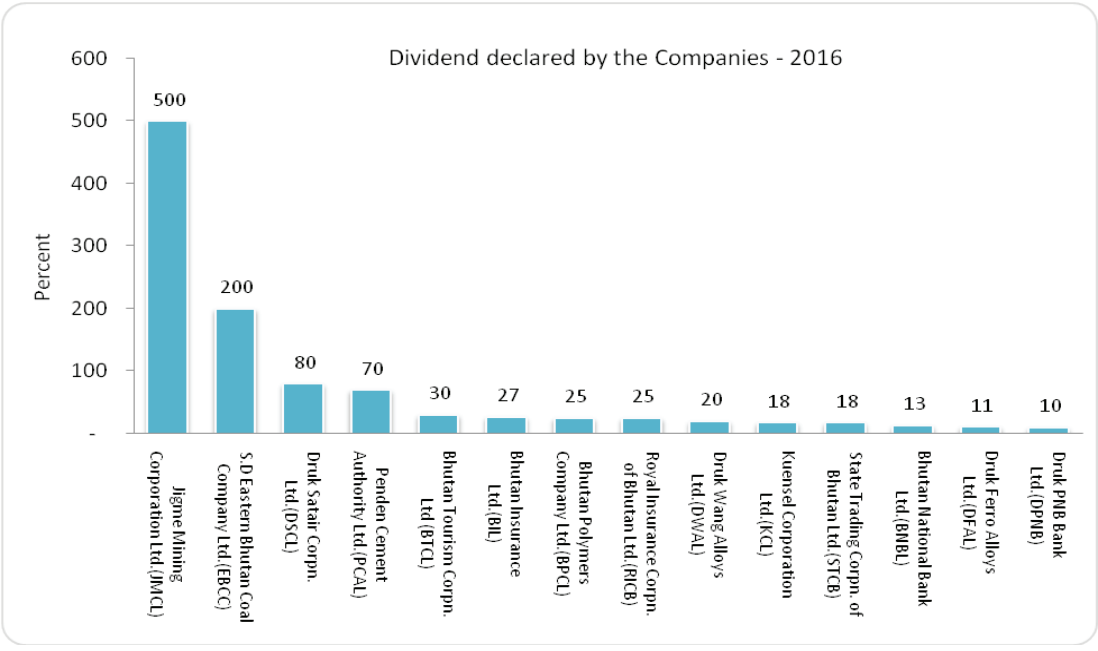


Table 12.1: Monetary Survey: Royal Monetary Authority, Bhutan National Bank, Bank Of Bhutan, Bhutan Development Bank, Druk PNB Bank and T Bank (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**87,180.89**	**99,352.28**	**120,531.16**	**125,501.60**	**144,334.56**
Foreign Assets(net)	36,209.35	51,342.67	69,081.59	66,305.10	73,220.22
Rupee	(14,920.23)	(3,757.20)	11,034.15	7,324.01	15,748.46
Others	51,129.58	55,099.87	58,047.44	58,981.09	57,471.76
Domestic Credit	50,971.54	48,009.60	51,449.57	59,196.50	71,114.34
Claims on Government (net)	4,167.37	(2,388.52)	(5,013.40)	(6,123.14)	(4,300.67)
Claims on Other Public Sector [1]	1,645.36	1,646.34	3,112.88	5,340.60	4,988.85
Claims on private sector [2]	45,158.81	48,751.77	53,350.09	59,979.03	70,426.17
Liabilities total	**87,180.89**	**99,352.28**	**120,531.16**	**125,501.60**	**144,334.56**
Broad money (M2)	56,222.88	58,209.85	73,366.10	76,148.61	93,680.71
Narrow Money (M1)	33,229.66	34,077.92	43,296.20	44,428.81	52,057.52
Nu. Outside Banks	5,254.43	5,406.20	5,671.59	6,587.16	8,318.93
Transferable Deposits	27,975.23	28,671.71	37,624.61	37,841.65	43,738.60
Other Deposits [3]	22,993.21	24,131.94	30,069.91	31,719.80	41,623.18
Other items(net)	30,958.01	41,142.42	47,165.05	49,352.99	50,653.86

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, (2012 -2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**7,222.99**	**8,283.38**	**10,885.42**	**13,805.95**	**18,021.63**
Reserves	306.86	232.31	880.26	399.63	917.18
Foreign Assets	**2.35**	**26.30**	**36.71**	**14.05**	**76.36**
Rupee	0.04	0.04	34.00	11.21	6.70
Others	2.30	26.25	2.70	2.84	69.66
Domestic Credit [1]	**5,690.66**	**6,631.65**	**9,968.46**	**13,392.27**	**17,028.09**
Claims on Public Sector [2]	13.98	13.48	38.98	38.98	71.35
Claims on private sector	5,673.68	6,582.67	8,283.53	11,860.06	15,549.45
Claims on NBFIs	3.00	35.50	42.83	65.10	103.67
Claims on DMBs	**1,223.13**	**1,393.13**	**1,603.13**	**1,428.13**	**1,303.61**
Liabilities total	**7,222.99**	**8,283.43**	**10,885.42**	**13,805.95**	**18,021.63**
Life fund	...	...	...	...	3,083.5
Gebneral Insurance Fund	...	...	...	...	251.4
Group Insurance Fund	...	...	...	...	4,140.2
Credit from DMBs	650.00	740.68	642.77	812.30	2,501.20
Credit from NBFIs	2,614.97	2,898.37	3,461.31	3,595.67	3,595.22
Capital accounts	1,507.06	1,764.56	1,991.01	2,479.25	2,852.25
Other items (net)	2,450.96	2,879.82	4,790.33	6,918.74	1,597.81

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, (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**25,489.90**	**24,085.96**	**26,818.79**	**28,786.35**	**33,723.48**
Reserves with RMA	4,643.99	4,815.36	6,004.22	6,183.74	7,661.65
Foreign Assets	**2,446.54**	**1,002.65**	**820.87**	**1,269.97**	**1,079.74**
Rupee	134.41	206.43	482.06	384.62	179.07
Others	2,312.13	796.22	338.82	885.35	900.67
Domestic Credit	**18,399.37**	**18,267.95**	**19,993.70**	**21,332.63**	**24,982.09**
Claims on Government	527.00	105.37	997.78	...	...
Claims on Government Corps	...	...	115.33	115.33	215.33
Claims on Public Sector[1]	592.26	791.30	767.61	766.41	641.23
Claims on private sector	17,260.87	17,347.39	18,092.37	20,273.96	23,239.70
Claims on NBFIs	19.23	23.89	20.61	176.93	885.83
Liabilities total	**25,489.90**	**24,085.96**	**26,818.79**	**28,786.35**	**33,723.48**
Demand Deposits (Current and saving Deposits)	5,309.39	6,478.48	7,861.42	8,033.82	9,361.72
Time Deposits	11,715.85	9,424.53	10,327.59	10,810.99	14,513.55
Foreign currency Deposits	690.67	542.72	307.74	402.95	660.13
Capital accounts	6,087.99	6,264.77	7,129.63	7,655.63	7,235.49
Other items (net)	1,686.00	1,375.46	1,192.41	1,882.96	1,952.60

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 (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**6,678.76**	**9,360.87**	**15,188.26**	**16,834.73**	**21,182.33**
Reserves With RMA	409.13	841.24	3,802.29	2,189.65	3,796.08
Foreign Assets	**14.81**	**11.84**	**14.84**	**23.67**	**0.86**
Rupee	14.81	11.84	14.84	23.67	0.86
Others	...	...	...	...	...
Domestic Credit	**6,254.82**	**8,507.80**	**11,371.13**	**14,621.42**	**17,385.39**
Claims on Govt.	...	...	...	...	...
Claims on Govt. Corporations	213.01	...	455.54	504.49	54.31
Claims on Public Sector[1]	7.38	7.381	18.756	38.442	33.44
Claims on private sector	6,034.44	8,500.42	10,485.56	13,667.22	16,474.36
Claims on NBFIs	...	...	411.27	411.27	823.27
Liabilities total	**6,678.76**	**9,360.87**	**15,188.26**	**16,834.73**	**21,182.33**
Demand Deposits (Current and Saving Deposits)	945.58	1,687.71	2,288.25	2,591.33	3,541.79
Time Deposits	2,691.44	3,411.48	7,630.44	8,214.07	10,566.61
Foreign Currency Deposits	...	...	...	...	...
Foreign Liabilities [2]	...	...	...	...	...
Domestic Borrowing	1,278.68	1,308.51	1,067.11	824.80	681.58
Capital accounts	1,816.14	2,199.31	2,846.24	3,378.26	3,241.01
Other items(net)	(53.08)	753.85	1,356.22	1,826.28	3,151.35

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, (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**53,286.19**	**59,044.72**	**75,684.23**	**69,582.69**	**78,200.66**
Foreign assets	47,910.87	57,928.18	75,502.07	68,810.31	76,483.96
Indian rupee	137.28	5,746.52	19,731.01	12,210.03	21,604.32
Convertible Foreign Currency (Including Gold)	47,773.60	52,181.66	55,771.06	56,600.28	54,879.64
Claims on deposit money banks	3,457.00	1,104.05	166.09	744.51	1,679.70
Claims on Government	1,900.00	...	...	...	...
Claims of private sector	17.42	12.49	16.06	27.88	37.00
Liabilities total	**53,286.19**	**59,044.72**	**75,684.23**	**69,582.69**	**71,200.66**
Reserve money	19,148.35	21,953.07	34,746.44	25,801.07	34,262.93
Currency outside banks	5,254.43	5,406.20	5,671.59	6,587.16	8,318.93
Foreign Liabilities	16,363.48	10,136.43	10,000.00	7,000.00	7,000.00
Rupee	16,363.48	10,136.43	10,000.00	7,000.00	7,000.00
Others	...	...	...	...	...
Government deposits	2,322.41	5,279.42	8,049.98	11,628.32	11,118.32
RMA Bills Outstanding	29.92	...	...	...	...
Capital Account	2,878.66	2,834.87	3,261.22	4,057.68	3,422.87
Other items (net)	12,543.37	18,840.92	19,626.59	21,095.63	22,396.54

Source: Royal Monetary Authority of Bhutan, Thimphu.

Table 12.6: Monetary and Financial Statistics: Bank of Bhutan Limited, (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**27,571.83**	**30,367.15**	**39,496.06**	**37,760.38**	**42,634.70**
Reserve with RMA	8,237.79	10,335.45	17,658.54	13,283.35	17,305.22
Foreign assets	1,579.67	2,170.60	2,098.74	2,290.97	1,487.78
Rupee	614.20	330.85	488.09	933.92	598.98
Other	965.47	1,839.74	1,610.65	1,357.05	888.80
Claims on Government	970.78	105.37	...	...	...
Claims on Government corpns.	722.49	773.25	1,167.27	2,867.45	2,919.08
Claims on public sector [1]	82.22	52.49	375.56	569.40	660.37
Claims on private sector	15,450.42	16,310.82	17,624.68	18,349.94	19,625.81
Claims on NBFIs	528.45	619.18	571.27	399.27	636.44
Liabilities total	**27,571.83**	**30,367.15**	**39,496.06**	**37,760.38**	**42,634.70**
Demand deposit	17,776.49	17,453.85	23,364.32	22,189.24	25,055.05
Time deposit	3,971.76	6,666.38	7,778.64	8,307.75	9,810.58
Foreign currency deposits	657.72	542.40	676.30	832.60	1,021.95
Capital accounts	3,451.42	3,776.93	4,614.17	5,285.72	6,206.47
Other items (net)	1,714.43	1,927.60	3,062.63	1,145.07	540.65

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 (2012- 2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**3,259.70**	**3,145.57**	**2,955.17**	**3,138.85**	**5,053.58**
Reserve with RMA	889.21	879.06	424.32	574.23	852.82
Foreign assets	70.27	40.75	65.96	81.85	282.15
Rupee	65.03	32.61	42.07	53.96	200.72
Other	5.24	8.14	23.89	27.89	81.43
Domestic Credit	**2,300.22**	**2,225.76**	**2,464.90**	**2,482.77**	**3,918.61**
Claims on Government	...	...	40.00	40.00	40.00
Claims on Government Corps	...	...	...	...	...
Claims on Public Sector [1]	28.00	21.93	36.95	51.92	51.63
Claims on private sector	2,272.22	2,203.83	2,380.45	2,383.09	3,819.49
Claims on NBFIs	...	...	7.50	7.75	7.50
Liabilities Total	**3,259.70**	**3,145.57**	**2,955.17**	**3,138.85**	**5,053.58**
Demand deposit	766.75	516.22	925.30	857.25	1,588.51
Time deposit	1,533.23	1,231.79	1,265.62	1,258.85	1,584.48
Foreign currency deposits	...	...	13.09	8.20	6.51
Foreign liabilities	...	...	...	...	...
Rupee	...	...	...	...	...
Other	...	...	...	...	...
Government deposites	...	...	...	...	...
Capital accounts	356.90	396.28	565.76	586.23	625.36
Other items (net)	602.81	1,001.28	185.41	428.32	1,248.71

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 (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**5,534.94**	**5,638.96**	**6,545.14**	**7,070.08**	**8,521.45**
Reserve with RMA	1,317.87	1,381.61	2,049.87	1,532.87	2,345.51
Foreign assets	550.66	325.10	579.10	828.33	885.72
Rupee	477.53	50.99	276.08	717.80	164.50
Other	73.14	274.11	303.02	110.53	721.21
Domestic Credit	**3,666.41**	**3,932.25**	**3,916.18**	**4,708.88**	**5,290.23**
Claims on Government	90.64	198.50	...	...	...
Claims on Government corpns.	0.0	...	129.44	365.27	307.89
Claims on public sector [1]	0.0	...	46.42	61.90	105.57
Claims on private sector	3,389.41	3,547.03	3,639.35	4,248.03	4,626.70
Claims on NBFIs	186.35	186.72	100.96	33.68	250.08
Liabilities total	**5,534.94**	**5,638.96**	**6,545.14**	**7,070.08**	**8,521.45**
Demand deposit	3,177.03	2,535.45	3,185.32	4,170.00	4,191.53
Time deposit	1,731.74	2,063.35	1,843.01	1,864.73	2,743.13
Foreign currency deposits	0.80	249.29	227.48	19.66	716.25
Foreign liabilities	0.0	...	...	...	...
Rupee	0.0	...	...	...	...
Other	0.0	...	...	...	...
Credit from RMA	0.0	...	...	...	...
Capital accounts	767.79	791.39	977.82	1,080.67	1,189.58
Other items (net)	(142.42)	(0.52)	311.51	(64.98)	(319.03)

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 (2012-2016)

(Nu. in Million)

Item	2012	2013	2014	2015	2016
Assets total	**437.76**	**453.78**	**624.55**	**1040.65**	**1248.56**
Reserves	32.82	47.96	81.58	94.65	109.46
Foreign Assets	...	...	...	...	...
Rupee	...	...	...	...	...
Others	...	...	...	...	...
Domestic Credit	**404.93**	**405.82**	**542.97**	**946.00**	**1139.10**
Claims on Govt. (Net)	...	...	...	...	...
Claims on Govt. Corps.	...	...	...	...	...
Claims on public sector [1]	...	...	...	1.75	1.75
Claims on private sector	364.93	374.82	412.56	798.84	1001.94
Claims on NBFIs	0.00	0.00	...	60.00	60.00
Claims on DMBs	40.00	30.00	130.41	85.41	75.41
Liabilities total	**437.76**	**453.78**	**624.55**	**1040.65**	**1248.56**
Life fund	...	...	...	...	...
Private provident funds	...	...	...	...	...
Group Insurance Fund	...	...	...	...	...
Credit from DMB	35.00	35.00	0.00	430.90	0.00
Credit from NBFIs	...	...	...	...	505.65
Capital accounts	264.08	272.94	417.37	493.70	506.47
Other items (net)	138.68	145.84	207.18	116.05	236.44

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: Investments of Financial Institutions by Industry, Amounts Outstanding, (2012-2016)

(Nu. in Million)

Industry	2012	2013	2014	2015	2016
Agriculture	**1,193.82**	**1,745.42**	**2,653.64**	**3,830.04**	**4,630.57**
Bank of Bhutan Ltd	2.32	0.82	0.70	21.85	36.51
Royal Insurance Corporation of Bhutan Ltd	...	...	...	...	0.70
Bhutan Development Bank Ltd	1,189.90	1,741.83	2,650.19	3,803.80	4,571.77
Bhutan National Bank Ltd	...	...	0.71	0.71	0.42
Druk PNB Bank Ltd	1.60	1.32	0.60	0.62	15.48
T Bank Ltd	...	1.45	1.46	1.60	2.42
Bhutan Insurance Ltd	...	...	...	1.45	3.28
Service and Tourism	**6,374.50**	**7,040.60**	**8,827.20**	**10,898.61**	**16,757.79**
Bank of Bhutan Ltd	2,073.00	1,780.21	2,509.35	2,933.71	4,061.62
Royal Insurance Corporation of Bhutan Ltd	110.00	148.59	246.81	564.71	3,763.09
Bhutan Development Bank Ltd	1,289.00	1,708.62	1,965.69	2,333.81	2,917.54
Bhutan National Bank Ltd	2,199.50	2,588.65	2,992.78	3,490.14	483.87
Druk PNB Bank Ltd	509.10	574.80	806.99	1,177.08	1,367.95
T Bank Ltd	193.90	222.93	288.78	359.15	4,083.31
Bhutan Insurance Ltd	0.00	16.80	16.80	40.01	80.40
Manufacturing	**7,819.55**	**9,974.40**	**10,236.36**	**10,153.10**	**11,041.91**
Bank of Bhutan Ltd	2,790.40	3,022.83	3,397.09	3,509.01	3,730.82
Royal Insurance Corporation of Bhutan Ltd	626.10	760.56	1,111.76	1,398.45	3,799.45
Bhutan Development Bank Ltd	605.20	714.55	801.18	822.55	797.49
Bhutan National Bank Ltd	3,016.40	4,737.69	4,094.74	3,497.49	141.20
Druk PNB Bank Ltd	493.70	513.04	631.15	617.11	734.09

cont...

Table 12.10 cont...

Industry	2012	2013	2014	2015	2016
T Bank Ltd	243.60	201.73	177.08	230.54	1,669.25
Bhutan Insurance Ltd	44.15	24.00	23.37	77.94	169.62
Building and construction	**14,475.42**	**15,506.11**	**16,414.67**	**18,288.51**	**20,304.32**
Bank of Bhutan Ltd	4,824.40	5,288.66	5,435.02	5,372.66	5,456.67
Royal Insurance Corporation of Bhutan Ltd	1,935.80	2,001.21	2,285.16	2,613.40	6,862.91
Bhutan Development Bank Ltd	685.90	1,013.88	1,469.64	2,110.30	2,540.14
Bhutan National Bank Ltd	5,710.60	5,739.82	5,774.98	6,473.26	1,034.83
Druk PNB Bank Ltd	877.70	962.31	953.86	1,202.00	1,455.97
T Bank Ltd	434.60	492.80	475.12	449.66	2,817.88
Bhutan Insurance Ltd	6.42	7.43	20.89	67.23	135.93
Trade and commerce	**4,379.50**	**7,301.22**	**9,892.56**	**14,289.43**	**14,014.75**
Bank of Bhutan Ltd	973.70	1,057.31	1,229.54	1,594.45	1,514.52
Royal Insurance Corporation of Bhutan Ltd	1,553.30	1,855.23	2,661.65	4,761.67	6,177.46
Bhutan Development Bank Ltd	534.10	803.67	1,120.76	1,432.86	1,614.40
Bhutan National Bank Ltd	404.00	2,598.98	3,857.38	5,376.31	762.57
Druk PNB Bank Ltd	470.30	466.38	468.76	491.44	414.74
T Bank Ltd	406.20	454.58	460.97	503.38	3,394.72
Bhutan Insurance Ltd	37.90	65.07	93.49	129.33	136.34
Transport	**4,356.56**	**3,246.90**	**2,390.10**	**3,216.45**	**4,226.51**
Bank of Bhutan Ltd	1,190.50	883.87	610.91	586.19	790.44
Royal Insurance Corporation of Bhutan Ltd	773.57	575.47	401.03	726.03	1,162.28
Bhutan Development Bank Ltd	349.58	247.55	260.64	630.05	1,063.81

cont...

Table 12.10 cont...

Industry	2012	2013	2014	2015	2016
Bhutan National Bank Ltd	1,281.32	955.32	680.90	789.90	223.91
Druk PNB Bank Ltd	214.94	158.46	109.72	116.28	127.77
T Bank Ltd	378.01	287.30	209.82	151.83	540.87
Bhutan Insurance Ltd	168.64	138.93	117.09	216.18	317.42
Personal loans	**8,995.36**	**10,406.62**	**11,499.28**	**11,648.06**	**13,019.93**
Bank of Bhutan Ltd	5,090.82	5,397.28	5,594.84	5,394.17	5,399.93
Royal Insurance Corporation of Bhutan Ltd	600.28	1,159.18	1,465.09	1,407.72	1,148.31
Bhutan Development Bank Ltd	1,567.76	1,963.78	2,320.19	2,475.43	2,729.58
Bhutan National Bank Ltd	732.70	884.57	1,044.73	1,104.91	755.37
Druk PNB Bank Ltd	524.00	565.43	524.26	519.13	533.06
T Bank Ltd	406.88	371.47	479.70	551.69	2,377.43
Bhutan Insurance Ltd	72.92	64.91	70.47	195.01	76.25
Loan Against Shares	**569.43**	**577.40**	**702.59**	**661.69**	**487.75**
Bank of Bhutan Ltd	144.16	130.47	181.41	179.92	26.58
Royal Insurance Corporation of Bhutan Ltd	28.65	41.13	68.56	88.67	63.44
Bhutan Development Bank Ltd	...	...	...	...	-
Bhutan National Bank Ltd	97.80	85.29	110.49	83.43	140.47
Druk PNB Bank Ltd	274.85	278.93	287.78	264.64	104.32
T Bank Ltd	16.37	12.90	12.43	9.53	99.02
Bhutan Insurance Ltd	7.60	28.68	41.92	35.50	53.92
Others	**5,276.10**	**1,661.86**	**1,365.63**	**1,791.73**	**3,925.29**
Bank of Bhutan Ltd	355.61	340.43	312.00	320.90	498.17
Royal Insurance Corporation of Bhutan Ltd	21.25	15.96	19.15	359.37	1,650.85

cont...

Table 12.10 cont...

Industry	2012	2013	2014	2015	2016
Bhutan Development Bank Ltd	26.00	306.54	352.81	562.64	660.29
Bhutan National Bank Ltd	4,417.69	576.17	211.89	260.92	328.89
Druk PNB Bank Ltd	209.51	213.10	133.95	71.18	286.85
T Bank Ltd	218.71	180.60	307.29	180.53	471.46
Bhutan Insurance Ltd	27.33	29.06	28.53	36.20	28.77
Total	**53,440.24**	**57,460.53**	**63,982.05**	**74,777.63**	**88,408.81**

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, 2012 to 2016

(in percent)

Type of Deposit	2012	2013	2014	2015	2016
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	7.00	6.75	6.75
iii) 2 years to less than 3 years	7.50	7.50	7.50	7.25	7.25
iv) 3 years less than 5 years	8.00	8.00	8.00	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	8.80	8.75	8.75
For Institutions & Companies					
i) 91 days to less than 1 year	6.50	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	8.50	8.25	8.25
vi) 7 years to less than 10 years	8.50	8.50	8.50	8.50	8.50
vii) 10 years to less than 12 years	8.50	8.50	8.50	8.75	8.75
viii) 12 years and above	8.50	8.50	8.50	9.00	9.00

Source: Bank of Bhutan, Thimphu

Table 12.12: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2014-2016)

Sector	2014		2015		2016	
	Interest rate (% p.a)	Repayment period (yrs.)	Interest Rate (% p.a)	Repayment Period (Yrs)	Interest Rate (% p.a)	Repayment Period (Yrs)
Export Finance						
Convertible Currency (Upto 60 days of credit)	14.0	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal	9.86	1 yr. subject to review renewal
Convertible Currency (More than 60 days of credit)	14.0	1 yr. subject to review renewal	13.75	1yr. subject to review renewal	9.86	1yr. subject to review renewal
General Trade	14.0	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal		
Trade & Commerce - Hiring Units-Machinery	...	...	...	...	10.30	5 years
Trade & Commerce - Wholesale and Retail	...	...	...	...	11.50	1 years
Trade & Commerce - Contractors and Suppliers	...	...	...	...	10.66	3 years
Buses and trucks						
Term Loan	11.73-12.33	1-7 years	11.73-12.15	1-5 Years	9.07	5 years
Working Capital	...	...	13.75	1 yr. subject to review renewal	11.00	1 yr. subject to review renewal
Other Passenger vehicles	11.73-12.33	1-7 years	11.73-12.15	1-5 years	9.07	5 years
Agriculture and livestock	11.73-12.23	1-6 years	11.73-12.15	1-5 years	8.49	15 years
Manufacturing Industry						
Term Loan	11.73-13.13	1-15 years	11.73-13	1-15 years	11.07	20 years

cont...

Table 12.12 cont...

Sector	2014		2015		2016	
	Interest rate (% p.a)	Repayment period (yrs.)	Interest Rate (% p.a)	Repayment Period (Yrs)	Interest Rate (% p.a)	Repayment Period (Yrs)
Working Capital	14	1 yr. subject to review renewal	13.75	1 yr. subject to review renewal	11.05	1 yr. subject to review renewal
Service Industries						
Working Capital (General)	...	...	...	...	11	1 year
Working Capital (Automobile workshops etc.)	...	...	...	...	12	1 year
Construction of Hotels and Resturants	...	...	...	...	9.18	20 years
Hospitality/Entertainment/Recreational	...	...	...	...	10.1	20 years
IT related business	...	...	...	...	8.49	20 years
Set up of Hotel/Resort/Restaurant etc.	...	...	...	...	8.29	20 years
Setting up of Institutions (Schools/Colleges etc.)	...	...	...	...	8.49	20 years
Transport (Tourism)	...	...	...	...	9.29	5 years
Personal Loans	15	1 year	15	1 year	15.00	1 year
Equity finance	11.73-12.23	1-6 years	11.73-12.23	1-6 years	11.05	6 years
Housing (commercial)						
New Construction	12.73-14.63	1-20 years	12.73-13.25	1-20 years	12.73-13.25	1-20 years
Repair/Renovation	12.73-13.63	1-10 years	12.73-13.25	1-20 years	12.73-13.25	1-20 years
Purchase	12.73-13.13	1-15 years	12.73-13.25	1-20 years	12.73-13.25	1-20 years

cont...

Table 12.12 cont...

Sector	2014		2015		2016	
	Interest rate (% p.a)	Repayment period (yrs.)	Interest Rate (% p.a)	Repayment Period (Yrs)	Interest Rate (% p.a)	Repayment Period (Yrs)
Consumer Loans	12.73-13.33	1-7 years	12.35-12.75	1-5 Years	12.35-12.75	1-5 Years
Housing (residential)						
New Construction	...	...	12.48-13	1-20 years	12.48-13	1-20 years
Repair/Renovation	...	...	12.48-13	1-20 years	12.48-13	1-20 years
Purchase	...	...	12.48-13	1-20 years	12.48-13	1-20 years
Consumer Loans	...	...	12.48-13	1-20 years	12.48-13	1-20 years

Source: Bank of Bhutan, Thimphu

Table 12.13: Royal Securities Exchange of Bhutan Ltd. Number of Share Holders at the End of December, (2012 - 2016)

(In Numbers)

Company	2012	2013	2014	2015	2016
Bhutan Board Products Ltd. (BBPL)	487	487	480	479	477
Bhutan Carbide & Chemical Ltd. (BCCL)	259	259	259	260	263
Bhutan Ferro Alloys Ltd. (BFAL)	43	43	43	43	43
Bhutan Insurance Ltd. (BIL)	4,445	4,395	4,370	4,318	4,294
Bhutan National Bank Ltd. (BNBL)	4,523	4,519	4,521	4,514	4,514
Bhutan Polymers Company Ltd. (BPCL)	128	128	127	128	129
Bhutan Times Ltd. (BTL) 1	288	288	...	...	...
Bhutan Tourism Corpn. Ltd (BTCL)	157	156	155	156	156
Druk Ferro Alloys Ltd. (DFAL)	460	459	457	459	459
Dungsam Polymers Ltd. (DPL) 2	...	14,833	14,487	14,416	14,359
Druk plaster & Chemicals Ltd. (DPOP)	214	214	214	214	214
Druk PNB Bank (DPNB)	22,564	22,378	22,253	22,143	22,050
T Bank Ltd. (TBL)	7,909	7,955	7,864	7,756	7,703
Druk Satair Corporation Ltd. (DSCL)	1,272	1,267	1,266	1,265	1,262
Druk Wang Alloys Ltd. (DWAL)	498	496	494	494	498
Jigme Mining Corporation Ltd. (JMCL)	416	418	420	416	417
Kuensel Corporation Ltd. (KCL)	232	233	233	232	231
Penden Cement Authority Ltd. (PCAL)	1,449	1,447	1,425	1,417	1,418
Royal Insurance Corpn. of Bhutan (RICB)	1,524	1,506	1,494	1,493	1,484
S.D Eastern Bhutan Coal Company Ltd. (EBCC)	1,074	1,069	1,062	1,059	1,053
State Trading Corpn. of Bhutan Ltd. (STCB)	135	137	137	136	137
GIC-Bhutan Re-Limited (GBRL) 3	...	...	1,230	1,157	1,138
TOTAL	**48,077**	**62,687**	**62,991**	**62,555**	**62,299**

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 12.14: Royal Securities Exchange of Bhutan Ltd. Market Information at the End of December, 2016

Company	Paid-Up Shares	Price per share (Nu)	Market capitalization (Nu)
Bhutan Board Products Ltd. (BBPL)	14,000,140	10.0	140.0
Bhutan Carbide & Chemical Ltd. (BCCL)	10,000,000	75.0	750.0
Bhutan Ferro Alloys Ltd. (BFAL)	15,000,000	60.0	900.0
Bhutan Insurance Ltd. (BIL)	20,000,000	27.0	540.0
Bhutan National Bank Ltd. (BNBL)	329,193,596	27.0	8,888.2
Bhutan Polymers Company Ltd. (BPCL)	2,493,340	10.0	24.9
Bhutan Tourism Corpn. Ltd (BTCL)	2,094,000	40.0	83.7
Druk Ferro Alloys Ltd. (DFAL)	28,977,620	22.0	637.5
Dungsam Polymers Ltd. (DPL)	8,272,350	19.0	157.2
Druk plaster & Chemicals Ltd. (DPOP)	1,000,000	20.0	20.0
Druk PNB Bank (DPNB)	45,000,000	21.0	945.0
T Bank Ltd. (TBL)	30,000,000	16.0	480.0
Druk Satair Corporation Ltd. (DSCL)	9,130,860	30.0	273.9
Druk Wang Alloys Ltd. (DWAL)	20,369,961	38.0	774.0
Jigme Mining Corporation Ltd. (JMCL)	3,981,341	80.0	318.5
Kuensel Corporation Ltd. (KCL)	5,000,000	12.0	60.0
Penden Cement Authority Ltd. (PCAL)	34,000,070	51.6	1,754.4
Royal Insurance Corpn. of Bhutan (RICB)	120,000,000	40.0	4,800.0
S.D Eastern Bhutan Coal Company Ltd. (EBCC)	5,210,000	40.0	208.4
State Trading Corpn. of Bhutan Ltd. (STCB)	18,000,160	17.5	315.0
GIC-Bhutan Re-Limited (GBRL)	50,000,000	13.5	675.0
TOTAL	**771,723,438**		**22,745.7**

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, (2012 - 2016)

(Numbers)

Company	2012	2013	2014	2015	2016
Bhutan Board Products Ltd. (BBPL)	...	10,100	...	1,000	40,000
Bhutan Carbide & Chemicals Ltd.(BCCL)	84	20	40	800	75,000
Bhutan Ferro Alloys Ltd.(BFAL)	...	...	...	...	1,000
Bhutan Insurance Ltd.(BIL)	1,024,815	171,831	359,709	715,020	244,820
Bhutan National Bank Ltd.(BNBL)	14,116,796	5,589,791	12,435,817	4,983,929	9,893,122
Bhutan Polymers Company Ltd.(BPCL)	...	...	...	...	23,790
Bhutan Tourism Corpn. Ltd(BTCL)	...	40	1,500	3,200	...
Druk Ferro Alloys Ltd.(DFAL)	50,150	4,050	899,350	11,500	60,000
Dungsam Polymers Ltd.(DPL)	...	858,983	32,743	32,360	17,320
Druk Plaster & Chemicals Ltd.(DPOP)	...	...	...	...	...
Druk PNB Bank Ltd.(DPNB)	1,504,829	37,561	66,908	105,254	52,250
T Bank Ltd. (TBL)	40,897	826,699	57,994	274,672	256,730
Druk Satair Corpn. Ltd.(DSCL)	...	...	...	...	...
Druk Wang Alloys Ltd.(DWAL)	650	1,175	11,325	1,033,836	5,050
Jigme Mining Corporation Ltd.(JMCL)	1,277	801	3,468	37,350	4,044
Kuensel Corporation Ltd.(KCL)	978	432	...	8,670	1,500
Penden Cement Authority Ltd.(PCAL)	1,440	3,585	386,482	310,940	65,050
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	5,160	3,250	2,506,765	72,334,495	442,200
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	1,261	1,000	4,950	9,000	500
State Trading Corpn. of Bhutan Ltd.(STCB)	300,005	900,448	...	85,500	148,300
GIC-Bhutan Re-Limited (GBRL)	...	...	50,384,350	340,450	155,940
TOTAL	**17,048,342**	**8,409,766**	**67,151,401**	**80,287,976**	**11,486,616**

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, (2012 - 2016)

(In Million Nu.)

Company	Capital Market	2012	2013	2014	2015	2016
Bhutan Board Products Ltd. (BBPL)	Primary	...	...	...	...	...
	Secondary	...	1.01	...	0.01	0.40
Bhutan Carbide & Chemicals Ltd. (BCCL)	Primary	...	...	...	...	...
	Secondary	0.08	0.02	0.03	0.06	5.63
Bhutan Ferro-Alloys Ltd. (BFAL)	Primary	...	...	...	...	...
	Secondary	...	...	...	...	0.06
Bhutan National Bank Ltd. (BNBL)	Primary	...	...	...	...	...
	Secondary	181.13	165.38	89.84	134.26	282.97
Bhutan Polymers Company Ltd. (BPCL)	Primary	...	...	...	...	...
	Secondary	...	...	...	...	0.24
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	...	...	...	...	...
Druk PNB Bank Ltd. (DPNB)	Primary	...	...	...	...	...
	Secondary	5.03	11.78	1.80	1.65	1.12
T Bank Ltd.(TBL)	Primary	...	...	...	...	...
	Secondary	10.71	4.94	4.14	4.06	3.85
Druk Wang Alloys Ltd.(DWAL)	Primary	...	...	...	...	...
	Secondary	0.37	0.53	0.98	2.43	0.19

cont...

Table 12.16 cont...

Company	Capital Market	2012	2013	2014	2015	2016
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	Primary	...	...	...	...	...
	Secondary	0.38	0.34	0.23	0.36	0.02
Kuensel corporation Ltd.(KCL)	Primary	...	...	...	...	...
	Secondary	0.13	0.05	...	0.10	0.02
Penden Cement Authority Ltd.(PCAL)	Primary	...	...	...	...	...
	Secondary	1.32	2.39	27.66	17.76	3.62
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	Primary	...	...	...	...	...
	Secondary	2.77	1.72	13.53	10.36	17.63
State Trading Corpn. of Bhutan Ltd.(STCB)	Primary	...	...	...	...	...
	Secondary	...	0.09	...	1.47	2.61
Jigme Mining Corporation Ltd. (JMCL)	Primary	...	...	...	...	...
	Secondary	0.89	0.59	2.90	2.68	0.32
Druk Ferro Alloys Ltd.(DFAL)	Primary	...	...	...	...	...
	Secondary	10.02	0.87	22.73	0.28	1.40
Dungsam Polymers Ltd. (DPL)	Primary	...	136.49	...	...	...
	Secondary	...	8.34	2.26	0.57	0.30
Bhutan Insurance Ltd.(BIL)	Primary	...	...	...	...	...
	Secondary	6.27	31.76	11.48	13.56	6.24
GIC-Bhutan Re-Limited (GBRL)	Primary	...	...	500.00	...	...
	Secondary	...	...	4.22	4.04	2.05
TOTAL		**219.10**	**366.32**	**681.87**	**193.78**	**328.67**

Source: Royal Securities Exchange of Bhutan Ltd.Thimphu

Table 12.17: Dividend Declared by the Company, (2012-2016)

(In Percent)

Company	2012	2013	2014	2015	2016
Bhutan Board Products Ltd. (BBPL)	...	10	7	8	...
Bhutan Carbide & Chemicals Ltd.(BCCL)	25	40	40	10	...
Bhutan Ferro Alloys Ltd.(BFAL)	60	65	75	40	...
Bhutan Insurance Ltd.(BIL)	10	10	9	17	27
Bhutan National Bank Ltd.(BNBL)	17	8	10	14	13
Bhutan Polymers Company Ltd.(BPCL)	5	8	...	15	25
Bhutan Tourism Corpn. Ltd (BTCL)	25	25	15	...	30
Druk Ferro Alloys Ltd.(DFAL)	17	20	30	...	11
Druk PNB Bank Ltd.(DPNB)	6	7	8	...	10
Druk Plaster & Chemicals Ltd.(DPOP)	25	10	...	...	...
Druk Satair Corpn. Ltd.(DSCL)	70	100	125	130	80
Druk Wang Alloys Ltd.(DWAL)	30	50	70	15	20
S.D Eastern Bhutan Coal Company Ltd.(EBCC)	75	200	300	200	200
Jigme Mining Corporation Ltd.(JMCL)	100	125	150	200	500
Kuensel Corporation Ltd.(KCL)	12	...	12	18	18
Penden Cement Authority Ltd.(PCAL)	100	90	80	35	70
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	35	45	35	20	25
T Bank Ltd. (TBL)	...	...	6	6	...
State Trading Corpn. of Bhutan Ltd.(STCB)	...	...	...	15	18
Dungsam Polymers Ltd.(DPL)	...	...	...	...	...
GIC-Bhutan Re-Limited (GBRL)	...	...	...	...	...

Source: Royal Securities Exchange of Bhutan Ltd, Thimphu.

Table 12.18 : Bonus/Rights/Employee Stock Options (ESoP)/Off Market Transaction, (2012 - 2016)

(No. of shares)

Company	2012	2013	2014	2015	2016
Druk Ferro Alloys Ltd.(DFAL)	...	...	...	...	...
Bhutan National Bank Ltd.(BNBL)	13,516,682	5,068,756	10,136,991	...	...
Druk Satair Corpn. Ltd.(DSCL)	...	...	...	...	...
Jigme Mining Corporation Ltd.(JMCL)	...	...	...	...	...
Royal Insurance Corpn. of Bhutan Ltd.(RICB)	...	...	2,400,000	72,000,000	...
State Trading Corpn. of Bhutan Ltd.(STCB)	300,005	900,008	...	...	...
T Bank Ltd. (TBL)	...	800,000	...	...	...
Druk PNB Bank Ltd.(DPNB)	1,490,273	3,650	32,000	28,770	...
Bhutan Insurance Ltd.(BIL)	1,000,000	...	...	...	...
Druk Wang Alloys Ltd. (DWAL)	...	...	...	969,961	...
TOTAL	**16,306,960**	**6,772,414**	**12,568,991**	**72,998,731**	**...**

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.

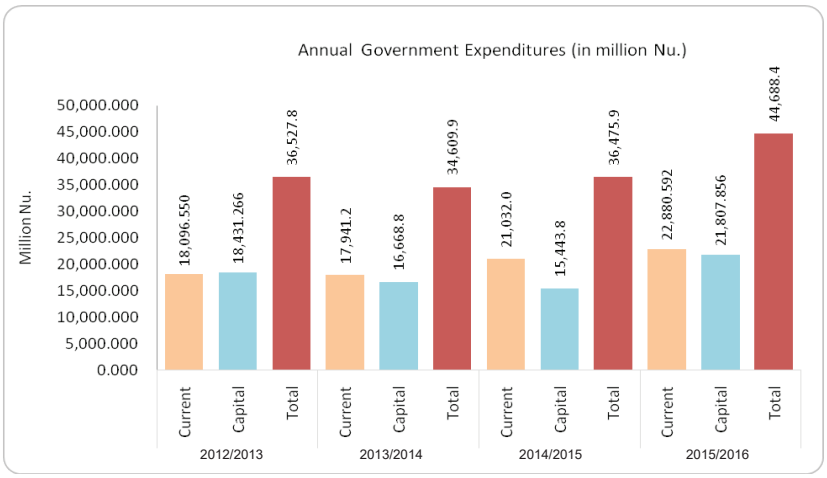


Table 13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2011/12 To 2015/16

(Nu. in million)

Agency	2011/12	2012/13	2013/14	2014/15	2015/16
Ministry	**9,234.328**	**10,095.127**	**9,451.016**	**10,849.192**	**12,687.916**
Ministry of Home & Cultural Affairs	1,244.784	1,294.970	1,391.982	1,482.861	1,618.889
Ministry of Finance	3,702.939	4,404.295	3,991.738	4,226.497	4,670.590
Ministry of Foreign Affairs	484.038	516.263	552.268	529.463	620.016
Ministry of Agriculture & Forests	1,326.203	1,381.678	1,489.781	1,739.289	1,850.925
Ministry of Economic Affairs	258.384	248.740	245.989	309.807	323.176
Ministry of Works & Human Settlement	406.098	417.044	423.675	497.333	578.009
Ministry of Information & Communications	271.947	184.330	178.575	218.142	231.673
Ministry of Health	1,196.972	1,294.622	840.545	843.424	934.666
Ministry of Education	164.762	168.101	152.531	783.946	1,625.620
Ministry of Labour & Human Resources	178.201	185.084	183.932	218.430	234.352
Judiciary	**189.337**	**206.721**	**225.945**	**259.929**	**265.067**
Constitutional Bodies	**381.224**	**589.405**	**274.232**	**279.184**	**376.740**
Royal Civil Service Commission	35.070	38.962	46.789	57.283	82.202
Anti-Corruption Commission	29.590	35.595	34.584	44.703	52.243
Election Commission of Bhutan	213.263	412.871	90.702	44.757	94.401
Royal Audit Authority	103.301	101.977	102.157	132.441	147.894
Autonomous Bodies	**1,687.296**	**1,734.889**	**2,424.393**	**3,049.232**	**3,140.169**
His Majesty's Secretariat	36.211	30.349	27.305	33.659	28.773
His Majesty's Secretariat (4th King)	17.671	18.759	17.447	21.660	19.890
National Assembly of Bhutan	88.307	95.939	76.681	98.892	106.081
National Council of Bhutan	55.209	63.601	61.542	67.344	74.373
Council For Religious Affairs	472.200	484.073	503.060	571.636	597.524

cont...

Table 13.1 cont...

Agency	2011/12	2012/13	2013/14	2014/15	2015/16
Cabinet Secretariat	39.297	50.461	33.240	40.464	48.369
Office of The Attorney General	17.458	19.252	20.540	25.535	34.168
Bhutan Olympic Committee	32.252	38.918	23.788	24.327	48.986
Dzongkha Development Commission	16.634	14.822	14.574	19.248	15.710
National Land Commission	242.243	218.607	198.878	232.482	154.465
Centre For Bhutan Studies And GNH Research	16.026	17.960	11.692	38.298	35.394
Gross National Happiness Commission	35.142	34.384	34.946	39.245	41.265
National Environment Commission	27.256	27.151	33.716	33.276	31.134
Royal Institute of Management	44.061	41.530	40.114	48.311	49.906
Royal University of Bhutan	0.000	0.000	0.000	0.575	...
National Statistics Bureau	27.315	26.669	22.734	30.426	84.383
Bhutan Narcotic Control Agency	11.887	11.494	12.764	16.776	15.437
Bhutan Information Communication Media Authority	14.307	14.227	14.668	17.620	17.039
Thromdeys	334.632	344.203	520.185	591.860	563.030
Drug Regulatory Authority	7.784	8.113	9.141	11.660	12.891
Tourism Council of Bhutan	46.050	47.118	48.657	56.298	57.739
National Commission For Women & Children	18.441	13.869	10.548	12.551	12.444
Royal Education Council	17.968	19.001	23.147	17.905	43.367
Bhutan Council For School Examination & Assessment	59.452	61.538	68.085	90.504	98.471
Royal Privy Council	9.493	8.288	9.464	13.328	14.650
Bhutan Standard Bureau	...	24.563	23.551	28.427	26.904
Khesar Gyalpo University Of Medical Sciences Of Bhutan	...	...	560.194	20.973	25.620

cont...

Table 13.1 cont...

Agency	2011/12	2012/13	2013/14	2014/15	2015/16
Jigme Singye Wangchuk School of Law	...	...	3.732	8.168	8.275
Bhutan National Legal Institute	...	...	...	17.005	14.328
Civil Society Organisations Authority	...	...	...	4.027	3.024
Jigme Dorji Wangchuk National Referral Hospital	...	...	...	816.752	856.529
Dzongkhag Administration	**5,052.937**	**5,285.211**	**5,375.795**	**6,342.087**	**6,147.512**
Gewog Administration	**160.529**	**185.206**	**189.777**	**252.424**	**263.188**
Total Expenditure	**16,705.651**	**18,096.559**	**17,941.158**	**21,032.048**	**22,880.592**

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 2011/12 to 2015/16

(Nu. in million)

Agency	2011/12	2012/13	2013/14	2014/15	2015/16
Ministry	**10,180.910**	**11,053.986**	**11,620.247**	**10,591.096**	**14,440.963**
Ministry of Home & Cultural Affairs	713.135	619.224	373.123	658.583	1,028.667
Ministry of Finance	1,243.859	1,425.346	3,982.025	1,954.083	3,022.270
Ministry of Foreign Affairs	155.582	21.592	14.414	26.296	46.129
Ministry of Agriculture & Forests	756.363	1,188.594	1,110.801	997.912	1,493.486
Ministry of Economic Affairs	610.754	525.508	455.588	484.284	751.852
Ministry of Works & Human Settlement	3,666.457	4,247.685	3,603.307	3,775.760	5,046.126
Ministry of Information & Communications	1,311.630	1,140.182	519.773	699.476	653.451
Ministry of Health	477.007	504.815	603.279	683.024	795.977
Ministry of Education	959.351	1,144.178	714.243	1,014.719	1,137.330
Ministry of Labour & Human Resources	286.772	236.862	243.694	296.959	465.675
Judiciary	**341.032**	**434.457**	**299.663**	**173.231**	**104.509**
Constitutional Bodies	**216.531**	**210.693**	**209.133**	**272.897**	**321.803**
Royal Civil Service Commission	110.159	103.601	91.186	118.526	145.521
Anti-Corruption Commission	40.406	44.934	69.253	40.185	36.428
Election Commission of Bhutan	22.078	29.122	16.095	89.055	81.301
Royal Audit Authority	43.888	33.036	32.599	25.131	58.553
Autonomous Bodies	**1,628.565**	**2,066.471**	**1,041.105**	**989.330**	**1,478.426**
His Majesty's Secretariat	5.675	5.302	1.407	2.162	0.975
His Majesty's Secretariat (4th King)	1.478	...	...	...	0.050
National Assembly of Bhutan	5.476	9.129	26.824	21.525	9.373
National Council of Bhutan	6.129	17.770	19.071	14.324	5.377
Council For Religious Affairs	173.505	245.803	183.803	156.006	212.897
Cabinet Secretariat	16.372	7.007	8.720	22.552	51.585
Office of The Attorney General	24.659	30.332	25.729	29.751	4.065
Bhutan Olympic Committee	16.817	21.871	12.636	11.004	59.327

cont...

Table 13.2 cont...

Agency	2011/12	2012/13	2013/14	2014/15	2015/16
Dzongkha Development Commission	6.632	5.580	5.165	3.299	3.793
National Land Commission	165.981	181.638	130.498	137.351	81.617
Centre For Bhutan Studies And GNH Research	3.250	2.912	2.950	1.270	11.204
Gross National Happiness Commission	56.187	59.031	45.383	73.274	84.197
National Environment Commission	56.709	34.530	33.141	60.436	115.908
Royal Institute of Management	80.623	71.761	77.013	51.171	40.187
Royal University of Bhutan	721.113	994.646	104.764	112.525	229.494
National Statistics Bureau	7.857	30.435	16.946	19.151	5.470
Bhutan Narcotic Control Agency	4.324	1.401	1.660	2.433	4.589
Bhutan Information Communication Media Authority	40.098	100.681	25.404	2.671	153.956
Thromdeys	74.850	66.002	69.526	34.771	75.768
Drug Regulatory Authority	3.538	3.200	3.221	3.937	3.569
Tourism Council of Bhutan	86.644	106.380	127.016	82.216	59.893
National Commission For Women & Children	11.373	19.650	12.629	26.030	14.552
Royal Education Council	50.077	36.371	18.183	1.849	39.434
Bhutan Council For School Examination & Assessment	9.012	6.638	9.425	10.632	12.865
Royal Privy Council	0.186	2.896	1.336	1.219	2.701
Bhutan Standard Bureau	...	5.505	1.876	7.397	3.455
Khesar Gyalpo University of Medical Sciences of Bhutan	...	...	73.721	16.310	58.548
Jigme Singye Wangchuk School of Law	...	...	3.058	6.118	14.581
Bhutan National Legal Institute	...	...	...	6.727	8.376
Civil Society Organizations Authority	...	...	...	0.090	1.525
Jigme Dorji Wangchuck National Referral Hospital	...	...	...	71.129	109.095
Dzongkhag Administration	**3,381.981**	**3,089.335**	**2,272.550**	**2,391.211**	**3,479.466**
Gewog Administration	**2,388.097**	**1,576.328**	**1,226.056**	**1,026.036**	**1,982.691**
Total Expenditure	**18,137.116**	**18,431.270**	**16,668.754**	**15,443.801**	**21,807.858**

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

Table 13.3: The Sector-wise Government Expenditures for the FY 2012/13 to 2015/16

Sectors	2012/13		2013/14		2014/15		2015/16	
	Current	Capital	Current	Capital	Current	Capital	Current	Capital
Social Services	**5,746.016**	**4,315.158**	**6,085.223**	**2,635.160**	**7,729.926**	**3,029.017**	**9,238.171**	**3,853.878**
Health	1,920.165	1,031.632	2,049.465	924.672	2,473.893	983.760	2,732.031	1,371.164
Education	3,825.851	3,283.526	4,035.758	1,710.488	5,256.033	2,045.257	6,506.140	2,482.714
Economic Services	**2,767.982**	**8,730.784**	**2,882.380**	**6,701.375**	**3,388.883**	**7,027.985**	**3,984.276**	**10,943.615**
RNR Services	1,738.608	3,009.251	1,857.977	2,216.113	2,160.221	1,983.035	2,279.893	3,748.088
Mining, Manuftg. & Industries Services	175.954	101.874	158.401	62.712	192.791	108.490	217.067	129.509
Transport & Communication Services	526.376	4,848.729	521.456	3,611.172	613.632	4,154.617	1,027.770	5,682.554
Energy Services	60.749	417.011	70.427	387.544	89.219	361.354	89.782	575.052
Other Economic Services	266.295	353.919	274.119	423.834	333.020	420.489	369.764	808.412
Housing & Public Amenities Services	**320.050**	**904.185**	**333.402**	**861.969**	**404.822**	**725.864**	**502.943**	**1,707.065**
General Public Services	**7,241.650**	**2,861.621**	**6,481.871**	**5,072.188**	**7,114.433**	**3,134.840**	**6,559.296**	**3,266.782**
General Public Service	3,520.594	1,910.982	3,226.034	1,531.739	3,774.839	1,545.924	4,450.213	3,266.782
Public Debt Services	3,721.056	950.639	3,255.837	3,540.449	3,339.594	1,588.916	2,109.083	...
Religion & Cultural Services	**596.965**	**958.621**	**628.990**	**888.034**	**752.489**	**1,105.009**	**790.320**	**1,513.764**
Public Order & Safety Services	**1,423.887**	**660.897**	**1,529.285**	**510.025**	**1,641.491**	**421.091**	**1,805.586**	**522.752**
Total Expenditure	**18,096.550**	**18,431.266**	**17,941.151**	**16,668.751**	**21,032.044**	**15,443.806**	**22,880.592**	**21,807.856**

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 2011/12 to 2015/16

(Nu. in Million)

By Source	2011/12	2012/13	2013/14	2014/15	2015/16
Tax Revenue	**14,676.93**	**15,403.12**	**16,182.77**	**18,387.34**	**19,884.63**
Direct Tax	8,987.04	9,390.04	11,132.04	11,626.97	12,200.09
Corporate Income Tax	5,186.09	4,864.28	6,127.43	6,488.78	7,459.58
Business Income Tax	1,299.15	1,690.63	1,783.89	1,585.02	1,175.30
Personal Income Tax	925.18	1,112.05	1,280.98	1,536.16	1,770.36
Other Tax Revenue	**1,576.62**	**1,723.08**	**1,939.75**	**2,017.02**	**1,794.85**
Motor Vehicle Tax	209.55	218.11	250.01	248.25	42.85
Business & Professional Licences	75.57	79.56	93.72	104.95	87.40
Airport service tax	42.05	44.41	51.32	59.13	64.14
Dzongkhag Municipal tax	3.33	3.68	5.58	8.45	4.24
Health Contribution	131.48	145.83	157.41	32.19	57.39
Royalties	1,114.62	1,231.49	1,381.71	1,564.04	1,538.83
Indirect Tax	**5,689.89**	**6,013.08**	**5,050.73**	**6,760.37**	**7,684.53**
Sales Tax	2,392.36	2,171.03	2,162.89	3,060.07	3,576.48
Excise Duty	2,836.92	3,481.83	2,556.47	2,686.85	2,483.07
Customs Duty	438.38	305.54	312.79	447.40	597.39
Green Tax	...	35.94	16.90	545.87	1,007.12
Other Indirect Tax Revenue	22.23	18.75	1.68	20.18	20.47
Non Tax Revenue	**5,677.53**	**5,698.57**	**7,061.84**	**6,753.69**	**8,149.19**
Administrative Fees & Charges	336.75	331.06	349.22	350.52	714.23
Dividends	2,946.90	3,035.78	3,779.39	3,692.13	3,785.69
Revenue from Govt. Departments	300.63	342.61	357.99	454.17	498.48
Capital Revenue	105.84	88.89	82.36	110.06	120.45
Net Surplus Transfer	254.25	...	...	...	788.68
Other Non-Tax Revenue	68.74	84.27	81.02	115.37	86.71
Interest on loan from corporations	1,664.42	1,815.95	2,411.87	2,031.44	2,154.95
Total Revenue	**20,354.46**	**21,101.69**	**23,244.61**	**25,141.03**	**28,033.81**

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

Table 13.5: Fiscal Framework of Government, Bhutan 2011/12 to 2015/16

(Nu. in Millions)

Item	2011/12	2012/13	2013/14	2014/15	2015/16
Revenue & Grants	**32,646.355**	**30,656.116**	**37,819.123**	**36,231.052**	**42,039.298**
Domestic Revenue	**20,354.462**	**21,101.691**	**23,244.610**	**25,141.030**	**28,033.812**
Tax revenue	14,676.929	15,403.118	16,182.774	18,387.335	19,884.626
Non-tax revenue	5,677.533	5,698.573	7,061.836	6,753.695	8,149.186
Other Receipts	**(209.627)**	**(8.210)**	**338.160**	**1,135.001**	**(884.124)**
Grants	**12,501.520**	**9,562.635**	**14,236.353**	**9,955.021**	**14,889.610**
Programme Grants	1,721.654	2,618.453	1,749.693	2,125.000	2,340.015
GoI	1,400.00	1,050.00	1,625.00	2,125.00	1,275.00
Other Donors	321.654	1,568.453	124.693	...	1,065.015
Project Tied Grants	**10,779.866**	**6,944.182**	**12,486.660**	**7,830.021**	**12,549.595**
GoI	7,603.442	3,643.402	9,059.430	4,468.760	9,446.698
Other Donors	3,176.424	3,300.780	3,427.230	3,361.261	3,102.897
Outlay	**33,688.009**	**34,900.809**	**33,522.834**	**34,334.259**	**43,603.000**
Total Expenditure	**34,842.762**	**36,527.815**	**34,609.903**	**36,475.849**	**44,688.447**
Current	16,705.648	18,096.551	17,941.151	21,032.044	22,880.591
Capital	18,137.114	18,431.264	16,668.752	15,443.805	21,807.856
Net lending (NL)	**(1,036.573)**	**(739.889)**	**(1,331.989)**	**(2,552.746)**	**(1,885.332)**
Advance/Suspense (Net)	**(118.180)**	**(887.117)**	**244.920**	**411.156**	**799.885**
Overall Balance	**(1,041.654)**	**(4,244.692)**	**4,296.289**	**1,896.795**	**(1,563.702)**
Financing	**(3,055.948)**	**(3,260.080)**	**(4,120.987)**	**(1,896.795)**	**(3,994.666)**
Net Borrowings	**(1,007.147)**	**492.306**	**(867.009)**	**(1,086.409)**	**(1,215.482)**
Borrowings	6,212.866	16,463.456	1,534.544	1,685.268	1,818.681
Repayments	7,220.013	15,971.150	2,401.553	2,771.677	3,034.163
Resource Gap	**(2,048.801)**	**(3,752.386)**	**(3,253.978)**	**(810.386)**	**(2,779.184)**

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

Table 13.6: Revenue Collection by Sector, FY 2011/12 To 2015/16

(Nu. in Millions)

Sector	2011/12	2012/13	2013/14	2014/15	2015/16
Primary (Agriculture)	**375.85**	**372.31**	**403.42**	**629.69**	**403.31**
Industry	**4,205.12**	**4,307.93**	**5,269.80**	**5,122.11**	**5,981.96**
Manufacturing	592.57	602.77	548.44	682.44	554.68
Electricity	3,612.55	3,705.16	4,721.36	4,439.66	5,427.28
Service	**10,511.49**	**11,291.41**	**10,736.61**	**12,862.40**	**15,340.30**
Services (Transport, communication, hotel & restaurant)	2,498.07	2,739.81	2,962.02	4,776.74	5,152.81
Trade	7,166.66	7,816.84	7,122.25	7,444.50	8,227.40
Finance	846.75	734.76	652.34	641.16	1,960.09
Gross Sectoral Revenue Collection 1	**15,092.46**	**15,971.65**	**16,409.83**	**18,614.19**	**21,725.57**

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"*.

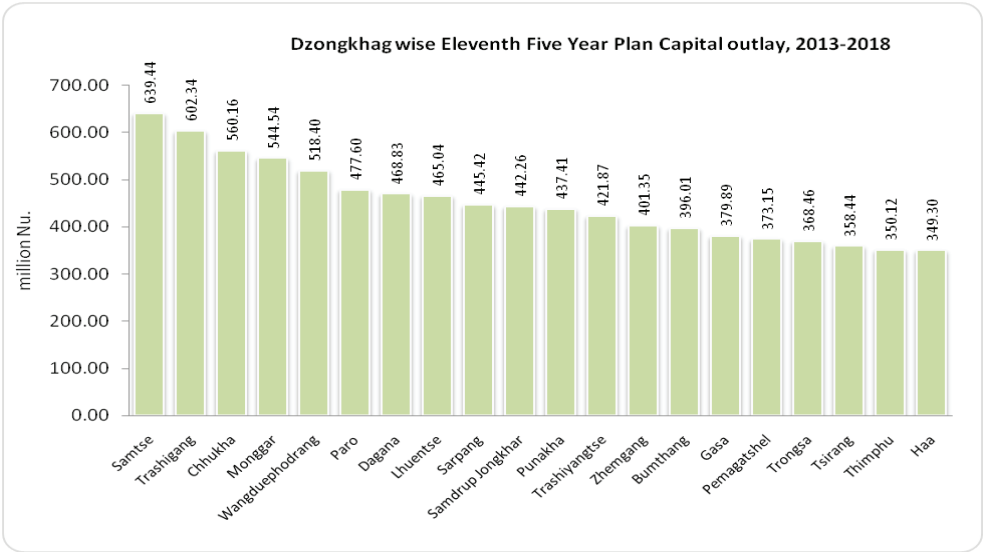


Table 14.1: Tenth Plan Budgetary Outlay and Allocation, Bhutan (2008-2013)

(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

cont...

Table 14.1 cont...

Organization	Recurrent	Capital	Total	Percent
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

cont...

Table 14.2 cont...

Organization	Outlays			% of Total
	Current	Capital	Total	
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)

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
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

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
Gasa	3	Laya	26.978
	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

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
Monggar	16	Tsakaling	25.786
	17	Tsamang	24.362
		Total	**541.311**
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

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
Punakha	9	Talo	16.175
	10	Toebesa	20.654
	11	Toewang	23.137
		Total	**221.280**
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

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
Sarpang	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
	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

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
Trashigang	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
	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

cont...

Table 14.6 cont...

Dzongkhag	Sl. No.	Gewog	Capital (Nu. In million)
Wangdue Phodrang	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**
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.

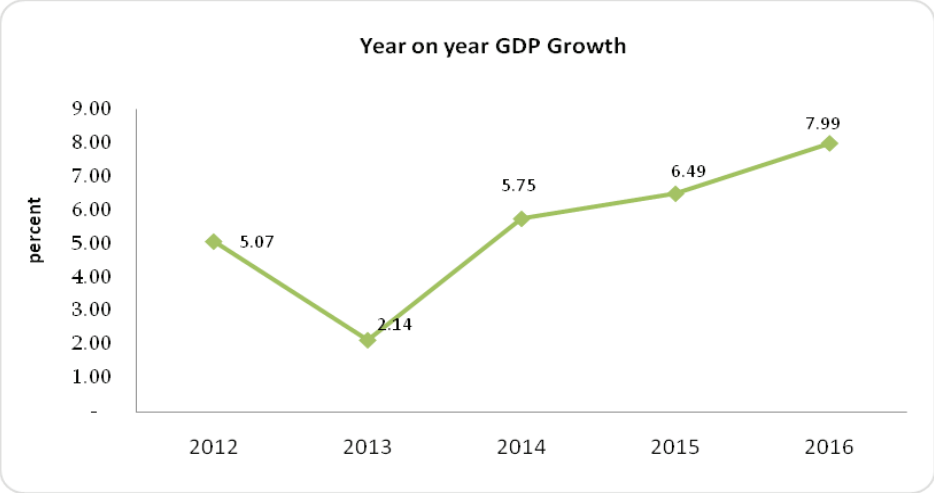


Table 15.1: GDP by Economic Activity at Current Prices, (2012 - 2016)

(Nu. in million)

Sectors	2012	2013	2014	2015	2016
1. Agriculture, Livestock & Forestry	15,558.29	16,969.71	20,050.39	22,007.59	24,565.44
1.1 Crops	8,635.21	9,404.66	12,029.02	13,340.02	14,794.58
1.2 Livestock	3,996.79	4,537.22	4,869.27	5,236.88	5,779.41
1.3 Forestry & Logging	2,926.29	3,027.84	3,152.09	3,430.69	3,991.45
2. Mining & Quarrying	1,961.96	2,793.69	3,376.43	4,484.27	6,455.09
3. Manufacturing	8,623.12	8,778.67	9,705.14	10,543.50	11,085.11
4. Electricity & Water Supply	12,303.14	15,230.29	16,917.83	18,933.12	19,892.13
4.1 Electricity	12,274.39	15,201.13	16,885.90	18,901.14	19,856.94
4.2 Water Supply	28.75	29.17	31.93	31.99	35.19
5. Construction	17,669.80	17,826.07	18,479.70	20,612.96	24,204.73
6. Wholesale & Retail Trade	5,917.59	6,823.31	8,471.66	10,233.35	11,624.75
7. Hotels & Restaurants	1,298.83	1,616.37	2,045.91	2,485.70	2,823.74
8. Transport, Storage & Communications	9,256.04	9,806.81	11,508.69	11,883.73	13,387.49
9. Financing, Insurance, Real Estates & Business Services	7,412.13	8,064.75	9,048.88	9,827.57	10,892.39
9.1 Finance & Insurance	5,384.96	5,781.09	6,461.22	6,901.34	7,574.04
9.2 Real Estate & Dwellings	1,947.27	2,198.01	2,489.76	2,738.74	3,176.94
9.3 Business Services	79.90	85.66	97.89	187.48	141.41
10. Public Administration	6,775.74	6,981.50	8,079.11	9,103.73	9,829.28
11. Education & Health	4,473.23	4,555.00	4,874.55	5,672.73	6,523.31
12. Private Social & Recreational Services	390.05	436.86	471.81	503.70	532.45
13. Taxes Net of Subsidies	5,813.03	5,495.31	6,515.65	5,729.34	6,863.02
GDP	**97,452.96**	**105,378.35**	**119,545.75**	**132,021.30**	**148,678.93**

Source: National Accounts Statistics, NSB

Table 15.2: Percentage Share of GDP by Economic Activity at Current Prices, (2012 - 2016)

Sectors	2012	2013	2014	2015	2016
1. Agriculture, Livestock & Forestry	15.96	16.10	16.77	16.67	16.52
1.1 Crops	8.86	8.92	10.06	10.10	9.95
1.2 Livestock	4.10	4.31	4.07	3.97	3.89
1.3 Forestry & Logging	3.00	2.87	2.64	2.60	2.68
2. Mining & Quarrying	2.01	2.65	2.82	3.40	4.34
3. Manufacturing	8.85	8.33	8.12	7.99	7.46
4. Electricity & Water Supply	12.62	14.45	14.15	14.34	13.38
4.1 Electricity	12.60	14.43	14.13	14.32	13.36
4.2 Water Supply	0.03	0.03	0.03	0.02	0.02
5. Construction	18.13	16.92	15.46	15.61	16.28
6. Wholesale & Retail Trade	6.07	6.48	7.09	7.75	7.82
7. Hotels & Restaurants	1.33	1.53	1.71	1.88	1.90
8. Transport, Storage & Communications	9.50	9.31	9.63	9.00	9.00
9. Financing, Insurance, Real Estates & Business Services	7.61	7.65	7.57	7.44	7.33
9.1 Finance & Insurance	5.53	5.49	5.40	5.23	5.09
9.2 Real Estate & Dwellings	2.00	2.09	2.08	2.07	2.14
9.3 Business Services	0.08	0.08	0.08	0.14	0.10
10. Public Administration	6.95	6.63	6.76	6.90	6.61
11. Education & Health	4.59	4.32	4.08	4.30	4.39
12. Private Social & Recreational Services	0.40	0.41	0.39	0.38	0.36
13. Taxes Net of Subsidies	5.96	5.21	5.45	4.34	4.62
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, (2012 - 2016)

(Nu. in million)

Sectors	2012	2013	2014	2015	2016
1. Agriculture, Livestock & Forestry	2.25	2.40	2.37	4.56	3.65
1.1 Crops	2.35	3.38	3.98	5.74	6.54
1.2 Livestock	1.27	2.04	2.31	3.36	5.54
1.3 Forestry & Logging	3.29	0.82	(0.97)	3.51	(5.42)
2. Mining & Quarrying	(2.24)	36.20	17.01	13.38	11.47
3. Manufacturing	6.79	(5.25)	9.17	4.41	2.42
4. Electricity & Water Supply	(0.57)	10.76	(2.83)	7.43	2.64
4.1. Electricity	(0.59)	10.78	(2.85)	7.44	2.63
4.2. Water Supply	12.95	1.47	9.49	0.17	10.00
5. Construction	18.18	(2.16)	6.54	10.33	13.31
6. Wholesale & Retail Trade	17.45	6.81	13.65	12.72	10.59
7. Hotels & Restaurants	17.44	15.33	17.38	16.15	9.90
8. Transport, Storage & Communications	5.79	4.80	9.01	8.80	11.20
9. Financing, Insurance, Real Estates & Business Services	(7.20)	1.87	3.82	5.53	10.70
9.1 Finance & Insurance	(8.64)	1.49	3.82	6.12	10.06
9.2 Real Estate & Dwellings	(1.88)	3.55	3.76	3.34	12.38
9.3 Business Services	18.77	(1.45)	5.60	2.31	31.70
10. Public Administration	(5.32)	(5.27)	7.04	7.60	5.35
11. Education & Health	(8.06)	(6.32)	5.98	3.73	12.21
12. Private Social & Recreational Services	2.66	2.78	1.69	2.95	3.78
13. Taxes Net of Subsidies	37.42	(8.54)	13.88	(14.95)	14.99
Overall GDP	**5.07**	**2.14**	**5.75**	**6.49**	**7.99**

Source: National Accounts Statistics, NSB

Table 15.4: Gross Domestic Product by Major Economic Sectors in Current Prices, (2012 - 2016)

(Nu. in Million)

Sector	2012	2013	2014	2015	2016
1. Primary	15,558.29	16,969.71	20,050.39	22,007.59	24,565.44
2. Secondary	40,558.03	44,628.72	48,479.10	54,573.85	61,637.06
3. Tertairy	41,336.64	43,779.91	51,016.26	55,439.86	62,476.43
Overall GDP	**97,452.96**	**105,378.35**	**119,545.75**	**132,021.30**	**148,678.93**

Source: National Accounts Statistics, NSB

Table 15.5: Percentage Share of GDP by Major Sector in Current Prices, (2012 - 2016)

Sector	2012	2013	2014	2015	2016
1. Primary	15.96	0.16	0.17	0.17	0.17
2. Secondary	41.62	0.42	0.41	0.41	0.41
3. Tertairy	42.42	0.42	0.43	0.42	0.42
Overall GDP	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**

Source: National Accounts Statistics, NSB

Table 15.6: Year on Year GDP Growth, (2012-2016)

(in Percent)

Sector	2012	2013	2014	2015	2016
1. Primary	2.25	2.40	0.31	0.59	3.65
2. Secondary	6.77	3.90	1.64	3.52	6.79
3. Tertairy	4.29	0.30	3.79	2.39	10.48
Overall GDP	**5.07**	**2.14**	**5.75**	**6.49**	**7.99**

Source: National Accounts Statistics, NSB

Table 15.7: GDP by Expenditure at Current Prices, (2012 - 2016)

(Nu. in million)

Description	2012	2013	2014	2015	2016
1. Final Consumption Expenditure	61,381.39	71,637.26	82,900.68	96,496.79	100,732.35
Households & NPISHs	42,690.24	53,362.80	62,706.64	73,031.24	75,670.97
General Government	18,691.15	18,274.46	20,194.04	23,465.55	25,061.39
2. Gross Domestic Capital Formation	66,180.82	48,432.57	61,813.47	71,286.96	82,700.52
a. Construction	41,603.17	40,414.59	46,352.54	48,392.69	55,265.46
b. Machinery & Equipment	24,314.12	8,155.02	17,061.61	22,984.31	26,020.49
c. Software, database dev.(gov)	137.34	193.48	350.83	210.71	433.17
d. Valuables	198.19	215.65	236.86	47.96	95.32
e. Changes in Inventories	(72.00)	(546.17)	(2,188.36)	(348.70)	886.08
3. Net Export	(23,693.89)	(22,988.64)	(25,168.39)	(35,762.45)	(34,753.94)
Export of Goods & Services	37,739.40	42,636.41	43,376.76	43,414.41	44,184.40
Import of Goods & Services	61,433.29	65,625.05	68,545.15	79176.858	78938.345
GDP, Expenditure	**103,868.32**	**97,081.19**	**119,545.75**	**132,021.30**	**148,678.93**

Source: National Accounts Statistics, NSB

Table 15.8: GDP Share of Expenditure at Current Prices, (2012 - 2016)

(in Percent)

Expenditure	2012	2013	2014	2015	2016
1. Final Consumption Expenditure	59.10	73.79	69.35	73.09	67.75
Households & NPISHs	41.10	54.97	52.45	55.32	50.90
General Government	18.00	18.82	16.89	17.77	16.86
2. Gross Domestic Capital Formation	63.72	49.89	51.71	54.00	55.62
Construction	40.05	41.63	38.77	36.66	37.17
Machinery & Equipment	23.41	8.40	14.27	17.41	17.50
software data base dev.	0.13	0.20	0.29	0.16	0.29
Nvaluables	0.19	0.22	0.20	0.04	0.06
Changes in Inventories	(0.07)	(0.56)	(1.83)	(0.26)	0.60
3. Net Export	(22.81)	(23.68)	(21.05)	(27.09)	(23.38)
Export of Goods & Services	36.33	43.92	36.28	32.88	29.72
Import of Goods & Services	59.15	67.60	57.34	59.97	53.09
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.

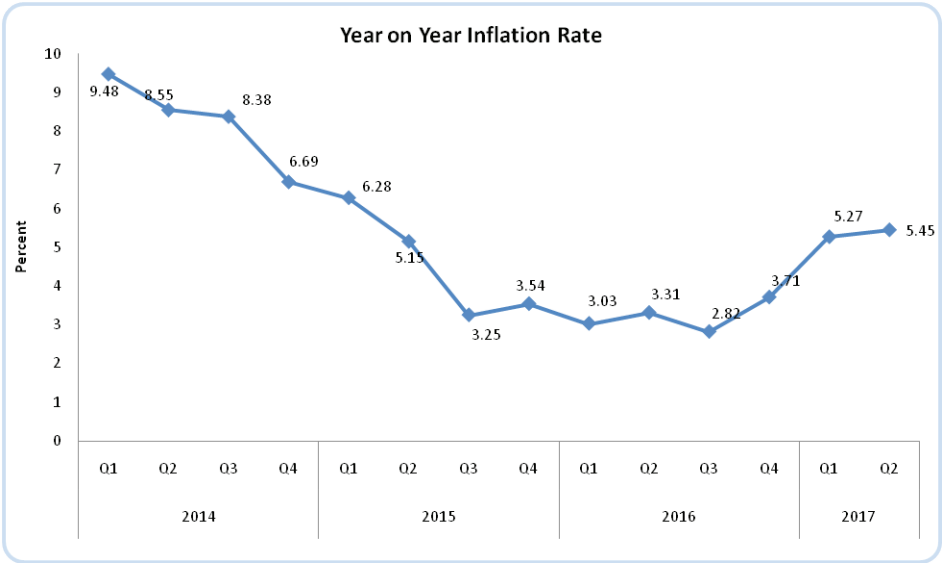


Table 16.1: Year on Year Inflation

Group	Weights	2016							
		Jan	Feb	Mar	Apr	May	June	July	Aug
Food	39.92	3.16	2.78	2.78	2.84	3.42	4.36	4.05	3.81
Non-Food	60.08	3.16	3.12	3.06	3.22	3.22	3.04	2.10	2.21
Total	**100**	**3.16**	**2.98**	**2.95**	**3.07**	**3.30**	**3.56**	**2.87**	**2.85**

Source: CPI Bulletin June 2017, National Accounts 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	3.23	2.82	2.88	2.93	3.52
Alcoholic Beverages and Narcotics	3.03	2.29	2.27	1.55	1.65	2.25
Clothing and Footwear	9.20	3.79	3.23	3.17	3.24	3.44
Housing, Water, Electricity, Gas and other Fuels	21.70	3.54	3.32	3.32	3.39	3.73
Furnishing, Household Equipment and Routine Maintenance of the House.	2.22	1.65	2.30	2.13	2.07	1.98
Health	4.67	1.80	1.49	1.07	1.08	0.59
Transport	11.98	3.60	4.12	4.20	5.00	4.73
Communication	3.03	0.15	0.15	0.15	0.15	-0.08
Recreational and Culture	2.35	-0.31	-0.16	-0.44	-0.32	-1.05
Education	1.64	6.71	6.97	6.97	6.97	6.97
Restuarents and Hotels	1.24	5.81	5.97	4.82	3.99	3.09
Miscellaneous Goods and Services	2.06	2.65	2.89	2.97	2.68	2.50
Total	**100.00**	**3.16**	**2.98**	**2.95**	**3.07**	**3.30**

Source: CPI Bulletin June 2017, National Accounts Division, NSB, Thimphu

					2017					
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	3.77	3.78	5.49	5.91	6.35	7.82	6.30	8.38	8.08	6.53
	2.05	1.86	2.90	3.73	4.28	4.22	4.27	4.07	4.07	3.89
	2.74	**2.62**	**3.92**	**4.60**	**5.10**	**5.64**	**5.08**	**5.77**	**5.65**	**4.94**

2016							2017					
June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
4.50	4.23	3.99	3.96	3.96	5.81	6.27	6.74	8.35	6.71	8.94	8.65	6.98
2.61	1.91	1.74	1.49	1.69	1.72	1.65	1.71	1.55	1.45	1.83	1.33	1.28
2.50	2.42	2.83	2.66	2.93	2.92	2.58	3.81	4.28	4.27	4.31	3.98	3.81
3.72	2.22	2.22	1.88	1.10	3.88	6.37	6.96	6.70	6.70	6.54	6.66	6.76
1.87	1.87	1.83	2.02	1.60	1.57	1.38	1.26	0.71	0.91	1.09	1.32	1.60
0.66	0.66	0.65	0.61	0.69	0.54	-0.26	-0.18	0.53	0.55	0.54	1.03	0.74
4.58	2.69	3.05	3.05	3.11	3.29	3.49	4.27	4.39	4.60	3.78	3.40	2.56
0.06	0.05	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.00	-0.00	-0.00	0.02
-1.19	-1.53	-1.46	-1.50	-0.02	-0.14	1.20	1.17	1.04	1.12	1.17	1.63	1.70
6.97	6.83	6.83	6.83	6.83	6.83	6.83	6.83	3.63	3.63	3.63	3.63	3.63
2.95	2.95	1.96	1.78	1.40	2.12	1.77	1.95	1.93	1.85	2.00	2.42	2.05
2.40	2.45	2.41	2.35	2.14	2.29	2.01	1.63	1.45	1.52	1.42	1.65	1.51
3.56	**2.87**	**2.85**	**2.74**	**2.62**	**3.92**	**4.60**	**5.10**	**5.64**	**5.08**	**5.77**	**5.65**	**4.94**

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**
2015	Jan	121.04	118.17	119.31	83.82	-0.31	0.69	0.29
	Feb	121.11	118.59	119.59	83.62	0.05	0.36	0.23
	Mar	121.12	118.81	119.73	83.52	0.01	0.19	0.12
	Apr	121.21	118.82	119.77	83.50	0.07	0.00	0.03
	May	120.89	119.04	119.77	83.49	-0.26	0.18	0.01
	Jun	121.27	119.44	120.17	83.22	0.31	0.34	0.33
	Jul	122.30	120.69	121.33	82.42	0.69	1.05	0.91
	Aug	123.20	120.80	121.76	82.13	0.74	0.09	0.35
	Sep	123.93	121.19	122.28	81.78	0.59	0.32	0.43
	Oct	124.65	121.75	122.90	81.37	0.58	0.47	0.51
	Nov	124.80	121.85	123.02	81.29	0.13	0.08	0.10
	Dec	124.97	121.94	123.14	81.21	0.13	0.07	0.09
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

Source: CPI Bulletin June 2017, National Accounts 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	Domes-tic	Food	Non-Food	Domestic
	Weights	**17.77**	**30.24**	**48.01**	**17.77**	**30.24**	**48.01**
2015	Jan	121.89	117.84	119.29	-0.15	0.21	0.08
	Feb	122.15	118.58	119.86	0.22	0.63	0.48
	Mar	122.06	118.64	119.87	-0.08	0.05	0.00
	Apr	122.58	118.85	120.18	0.42	0.17	0.26
	May	122.08	118.94	120.06	-0.41	0.08	-0.10
	Jun	122.21	118.99	120.15	0.11	0.04	0.07
	Jul	122.93	121.11	121.78	0.78	1.78	1.41
	Aug	123.96	121.62	122.48	0.84	0.42	0.57
	Sep	124.64	122.43	123.25	0.55	0.67	0.63
	Oct	125.47	123.21	124.04	0.66	0.64	0.64
	Nov	125.47	123.26	124.07	0.00	0.04	0.03
	Dec	126.11	123.14	124.23	0.51	-0.10	0.13
2016	Jan	126.58	123.15	124.41	0.37	0.01	0.15
	Feb	126.38	123.76	124.73	-0.16	0.50	0.25
	Mar	126.85	123.77	124.90	0.37	0.01	0.14
	Apr	127.28	123.99	125.20	0.34	0.18	0.24
	May	127.71	124.29	125.55	0.34	0.24	0.28
	Jun	130.19	124.32	126.46	1.94	0.02	0.73
	Jul	130.42	124.41	126.60	0.18	0.07	0.11
	Aug	131.00	124.80	127.06	0.45	0.31	0.36
	Sep	132.09	124.88	127.50	0.83	0.06	0.35
	Oct	133.04	125.05	127.95	0.72	0.14	0.35
	Nov	135.21	127.55	130.34	1.63	2.00	1.86
	Dec	135.93	129.71	131.98	0.53	1.69	1.26
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

Source: CPI Bulletin June 2017, National Accounts 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**
2016	Jan	123.74	120.65	121.96	-0.14	-0.07	-0.10
	Feb	123.19	120.81	121.82	-0.44	0.13	-0.11
	Mar	122.84	121.11	121.84	-0.29	0.25	0.02
	Apr	122.79	121.30	121.93	-0.04	0.16	0.07
	May	123.14	121.44	122.16	0.29	0.11	0.18
	Jun	123.94	121.81	122.71	0.64	0.31	0.45
	Jul	124.64	122.03	123.14	0.57	0.18	0.35
	Aug	125.33	122.14	123.49	0.55	0.09	0.28
	Sep	125.75	122.46	123.85	0.33	0.26	0.29
	Oct	126.35	122.97	124.40	0.48	0.42	0.44
	Nov	128.73	123.22	125.54	1.88	0.20	0.91
	Dec	129.40	123.31	125.87	0.52	0.07	0.27
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

Source: CPI Bulletin June 2017, National Accounts 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.	
Weights			**36.89**	**3.03**	**9.20**	**21.70**	**2.20**	
Percent Change (%)	2016	Jan	124.02	138.59	125.35	126.55	129.07	
		Feb	123.57	139.07	125.49	126.87	130.13	
		Mar	123.56	139.19	125.51	126.87	130.13	
		Apr	123.73	139.28	125.49	127.19	130.01	
		May	124.09	140.00	125.86	127.65	129.72	
		Jun	125.72	140.10	125.95	127.64	129.69	
		Jul	126.25	140.12	126.34	127.64	129.95	
		Aug	126.95	140.14	127.13	127.67	130.13	
		Sep	127.71	140.14	127.12	127.88	130.44	
		Oct	128.50	140.34	128.27	127.95	130.45	
		Nov	130.94	140.73	128.57	131.46	130.52	
		Dec	131.68	140.73	128.57	134.61	130.52	
Percent Change (%)	2017	Jan	132.38	140.96	130.13	135.35	130.70	
		Feb	133.89	141.22	130.86	135.37	131.05	
		Mar	131.85	141.22	130.86	135.37	131.32	
		Apr	134.79	141.83	130.90	135.51	131.43	
		May	134.83	141.86	130.86	136.15	131.43	
		Jun	134.49	141.89	130.75	136.27	131.76	

	Health	Transport	Communication	Recreational and Culture	Education	Restuarents and Hotels	Miscellaneous Goods and Services	Total
	4.68	**11.98**	**3.03**	**2.35**	**1.64**	**1.24**	**2.06**	**100.00**
	108.99	124.02	95.62	110.07	123.82	125.47	124.22	123.16
	108.99	123.97	95.62	110.26	130.94	125.69	125.02	123.24
	108.99	124.72	95.62	110.24	130.94	125.78	125.11	123.33
	109.00	125.20	95.62	110.24	130.94	125.78	125.26	123.52
	108.47	125.72	95.62	109.78	130.94	125.26	124.98	123.80
	108.79	126.48	95.62	109.72	130.94	125.72	125.23	124.53
	108.79	126.74	95.61	109.62	132.27	125.72	125.47	124.82
	108.79	127.27	95.61	109.67	132.27	125.72	125.70	125.22
	108.79	127.86	95.61	109.69	132.27	125.72	125.90	125.62
	108.79	128.16	95.61	111.49	132.27	125.89	125.99	126.12
	108.79	128.49	95.61	111.39	132.27	127.69	126.29	127.85
	108.79	128.65	95.61	111.39	132.27	127.69	126.29	128.80
	108.79	129.31	95.61	111.36	132.27	127.91	126.24	129.44
	109.57	129.41	95.61	111.41	135.69	128.11	126.84	130.19
	109.59	130.47	95.62	111.47	135.69	128.11	127.02	129.60
	109.59	129.94	95.62	111.53	135.69	128.30	127.03	130.65
	109.59	129.99	95.62	111.57	135.69	128.30	127.04	130.80
	109.59	129.72	95.63	111.58	135.69	128.30	127.12	130.67

cont...

Table 16.6 cont...

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.	
Weights			**36.89**	**3.03**	**9.20**	**21.70**	**2.20**	
Percent Change (%)	2016	Jan	0.08	0.10	0.01	0.00	0.25	
		Feb	-0.37	0.34	0.11	0.26	0.82	
		Mar	-0.00	0.09	0.02	0.00	0.00	
		Apr	0.13	0.06	-0.01	0.25	-0.09	
		May	0.29	0.51	0.29	0.36	-0.23	
		June	1.31	0.07	0.07	-0.00	-0.02	
		July	0.42	0.01	0.31	-0.00	0.20	
		Aug	0.55	0.01	0.63	0.02	0.14	
		Sep	0.60	0.00	-0.01	0.16	0.24	
		Oct	0.62	0.15	0.91	0.06	0.00	
		Nov	1.90	0.27	0.23	2.74	0.06	
		Dec	0.57	0.00	-0.00	2.40	0.00	
Percent Change (%)	2017	Jan	0.53	0.17	1.21	0.56	0.13	
		Feb	1.14	0.18	0.57	0.01	0.27	
		Mar	-1.52	0.00	-0.00	0.00	0.20	
		Apr	2.23	0.43	0.03	0.10	0.09	
		May	0.03	0.03	-0.02	0.48	0.00	
		Jun	-0.25	0.02	-0.09	0.09	0.25	

Source: CPI Bulletin June 2016, National Accounts Division, NSB, Thimphu

	Health	Transport	Communication	Recreational and Culture	Education	Restuarents and Hotels	Miscellaneous Goods and Services	Total
	4.68	**11.98**	**3.03**	**2.35**	**1.64**	**1.24**	**2.06**	**100.00**
	-0.08	-0.24	0.00	0.00	0.00	0.00	0.34	0.02
	0.00	-0.04	0.00	0.17	5.75	0.18	0.65	0.06
	0.00	0.61	0.00	-0.03	0.00	0.07	0.07	0.08
	0.01	0.38	0.00	0.00	0.00	0.00	0.11	0.15
	-0.48	0.41	0.00	-0.42	0.00	-0.41	-0.22	0.23
	0.29	0.60	0.00	-0.06	0.00	0.37	0.20	0.58
	-0.00	0.21	-0.01	-0.09	1.02	0.00	0.20	0.23
	-0.00	0.42	0.00	0.04	0.00	0.00	0.18	0.32
	-0.00	0.46	0.00	0.02	0.00	0.00	0.16	0.32
	-0.00	0.24	0.00	1.64	0.00	0.13	0.07	0.40
	-0.00	0.25	0.00	-0.09	0.00	1.43	0.23	1.37
	-0.00	0.13	0.00	0.00	0.00	0.00	-0.00	0.74
	-0.00	0.51	0.00	-0.02	0.00	0.17	-0.04	0.50
	0.72	0.08	0.00	0.04	2.58	0.16	0.47	0.58
	0.02	0.82	0.00	0.06	0.00	0.00	0.14	-0.46
	-0.00	-0.41	0.00	0.05	0.00	0.14	0.01	0.81
	-0.00	0.04	0.00	0.04	0.00	0.00	0.01	0.12
	-0.00	-0.21	0.02	0.01	0.00	0.00	0.06	-0.10

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

Sectors	Share (%)	Jan	Feb	Mar	Apr	May	Jun
Agriculture, Forestry and Logging	0.72	131.53	131.53	131.53	131.53	131.53	131.53
Mining and quarrying	0.89	122.65	121.19	123.98	124.07	124.07	123.54
Manufacturing	1.55	113.42	110.60	112.62	114.43	113.22	112.69
Electricity, gas, steam and air conditioning supply	35.35	114.99	114.99	114.99	114.99	114.99	114.99
Water supply; sewerage, waste management and remediation activities	0.08	109.39	109.39	109.39	109.39	109.39	109.39
Transport and Storage	2.45	118.90	119.36	118.77	118.50	118.71	118.90
Information and communication	0.33	89.76	89.76	89.76	89.76	89.76	89.76
All Industry	**41.36**	**113.73**	**112.32**	**113.41**	**114.27**	**113.70**	**113.43**

Source: PPI 1st Qtr 2017, National Accounts Division, NSB, Thimphu.

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

Sectors	Share (%)	Jan	Feb	Mar	Apr	May	Jun
Agriculture, Forestry and Logging	0.72	0.00	0.00	0.00	0.00	0.00	0.00
Mining and quarrying	0.89	0.01	-1.18	2.30	0.07	0.00	-0.42
Manufacturing	1.55	-0.13	-2.49	1.82	1.61	-1.06	-0.47
Electricity, gas, steam and air conditioning supply	35.35	0.00	0.00	0.00	0.00	0.00	0.00
Water supply; sewerage, waste management and remediation activities	0.08	0.00	0.00	0.00	0.00	0.00	0.00
Transport and Storage	2.45	0.29	0.39	-0.50	-0.23	0.17	0.17
Information and communication	0.33	0.00	0.00	0.00	0.00	0.00	0.00
All Industry	**41.36**	**-0.05**	**-1.24**	**0.97**	**0.75**	**-0.49**	**-0.24**

Source PPI 1st Qtr 2017, National Accounts Division, NSB, Thimphu.

	2016						2017		
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	131.53	131.53	131.53	131.53	131.53	131.53	134.79	134.79	134.79
	123.81	123.81	123.81	125.08	126.09	125.56	127.85	129.22	127.84
	112.11	110.83	112.29	112.41	111.97	112.97	113.49	113.80	117.08
	114.99	114.99	114.99	114.99	114.99	114.99	119.92	119.92	119.92
	109.39	109.39	109.39	109.39	109.39	109.39	109.39	109.39	109.39
	118.87	118.73	129.60	129.61	130.03	130.22	130.32	129.60	129.16
	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76
	113.17	**112.54**	**113.83**	**113.96**	**113.82**	**114.29**	**116.40**	**116.58**	**118.08**

	2016						2017		
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00
	0.00	0.00	0.00	1.03	0.81	-0.42	1.82	1.07	-1.06
	-0.52	-1.14	1.32	0.10	-0.39	0.89	0.46	0.27	2.88
	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-0.03	-0.12	9.15	0.01	0.32	0.15	0.08	-0.55	-0.34
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-0.25	**-0.55**	**1.15**	**0.11**	**-0.12**	**0.41**	**1.85**	**0.16**	**1.28**

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	4.75	3.04	6.29	6.08	
Manufacturing	0.35	2.97	0.91	2.65	6.58	
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	-0.19	-0.70	-1.38	-1.91	
Information and communication	0.00	0.00	0.00	0.00	0.00	
All Industry	**6.10**	**2.40**	**1.29**	**2.26**	**4.07**	

Source: PPI 1st Qtr 2016, National Accounts Division, NSB, Thimphu.

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

Description	Share (%)	Jan	Feb	Mar	Apr	May	
Agriculture, Forestry and Fishery Products	0.72	131.53	131.53	131.53	131.53	131.53	
Ores and Minereals; Electricity, gas and water	5.81	122.65	122.14	124.92	124.07	124.07	
Food products, beverages and tobacco; textiles, apparel and leather products	3.56	110.80	110.08	110.20	110.74	110.75	
Other transportable goods, except metal products, machinery and equipment	15.36	121.19	121.57	121.95	121.61	121.71	
Metal products, machinery and equipment	28.75	109.79	105.21	108.22	111.21	109.23	
Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services	41.34	115.53	115.60	115.51	115.48	115.50	
Business and production services	4.47	89.76	89.76	89.76	89.76	89.76	
All Product	**100.00**	**113.73**	**112.37**	**113.46**	**114.27**	**113.70**	

Source: PPI 1st Qtr 2017, National Accounts Division, NSB, Thimphu.

	2016								2017		
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	17.04	17.04	0.00	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48
	5.74	5.05	3.95	3.65	3.46	2.40	3.00	2.39	4.83	6.39	2.89
	6.01	5.71	-3.71	-4.61	-3.17	-3.06	0.50	-0.53	0.06	2.90	3.97
	1.74	1.74	0.00	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-2.20	-2.05	1.52	0.79	9.49	9.94	9.92	9.83	9.61	8.58	8.75
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3.77	**3.60**	**-1.48**	**-1.98**	**-0.80**	**-0.78**	**0.97**	**0.44**	**2.38**	**3.78**	**4.10**

	2016							2017		
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	131.53	131.53	131.53	131.53	131.53	131.53	131.53	134.79	134.79	134.79
	123.54	123.81	123.81	123.81	125.08	126.09	125.56	127.85	129.22	127.84
	110.83	112.06	112.06	112.28	112.27	112.32	112.34	112.34	112.34	112.29
	121.14	120.69	120.72	120.62	121.32	119.49	119.87	119.70	120.64	121.96
	108.65	107.79	105.73	108.08	107.93	108.11	109.52	110.45	110.49	115.15
	115.53	115.53	115.51	116.96	116.97	117.02	117.04	121.34	121.24	121.18
	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76
	113.43	**113.17**	**112.54**	**113.83**	**113.96**	**113.82**	**114.29**	**116.40**	**116.58**	**118.08**

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

Description	Share (%)		
		Jan	Feb
Agriculture, Forestry and Fishery Products	0.72	0.00	0.00
Ores and Minereals; Electricity, gas and water	5.81	0.01	-0.42
Food products, beverages and tobacco; textiles, apparel and leather products	3.56	0.21	-0.65
Other transportable goods, except metal products, machinery and equipment	15.36	0.01	0.31
Metal products, machinery and equipment	28.75	-0.25	-4.17
Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services	41.34	0.04	0.06
Business and production services	4.47	0.00	0.00
All Product	**100.00**	**-0.05**	**-1.20**

Source: PPI 1st Qtr 2017, National Accounts Division, NSB, Thimphu.

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

Description	Share (%)			
		Jan	Feb	Mar
Agriculture, Forestry and Fishery Products	0.72	17.04	17.04	17.04
Ores and Minereals; Electricity, gas and water	5.81	4.75	3.84	7.10
Food products, beverages and tobacco; textiles, apparel and leather products	3.56	0.28	-0.51	-0.14
Other transportable goods, except metal products, machinery and equipment	15.36	6.47	6.80	5.67
Metal products, machinery and equipment	28.75	1.48	-1.93	1.41
Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services	41.34	1.46	1.38	1.28
Business and production services	4.47	0.00	0.00	0.00
All Product	**100.00**	**2.40**	**1.34**	**2.31**

Source: PPI 1st Qtr 2017, National Accounts Division, NSB, Thimphu.

	2016										2017		
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48	0.00	0.00
	2.28	-0.68	0.00	-0.42	0.00	0.00	0.00	1.03	0.81	-0.42	1.82	1.07	-1.06
	0.10	0.50	0.01	0.08	1.10	0.01	0.19	-0.01	0.04	0.02	-0.00	0.00	-0.04
	0.31	-0.28	0.08	-0.47	-0.37	0.02	-0.08	0.58	-1.51	0.32	-0.14	0.78	1.10
	2.86	2.77	-1.79	-0.53	-0.79	-1.90	2.22	-0.14	0.17	1.31	0.84	0.04	4.22
	-0.07	-0.03	0.02	0.02	-0.00	-0.02	1.26	0.00	0.05	0.02	3.67	-0.08	-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
	0.97	**0.71**	**-0.49**	**-0.24**	**-0.25**	**-0.55**	**1.15**	**0.11**	**-0.12**	**0.41**	**1.85**	**0.16**	**1.28**

	2016									2017		
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	17.04	17.04	17.04	0.00	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48
	6.08	5.74	5.05	3.95	3.65	3.46	2.40	3.00	2.39	4.83	6.39	2.89
	0.25	0.34	0.41	1.02	1.18	1.47	1.62	1.63	1.61	1.39	2.05	1.90
	4.57	4.66	4.38	4.69	4.91	4.71	-0.02	-1.54	-1.08	-1.23	-0.77	0.01
	8.50	7.47	7.12	-8.47	-10.00	-7.67	-5.20	1.46	-0.49	0.60	5.02	6.41
	1.20	1.16	1.18	0.22	0.11	1.31	1.36	1.36	1.35	5.02	4.88	4.91
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.07	**3.77**	**3.60**	**-1.48**	**-1.98**	**-0.80**	**-0.78**	**0.97**	**0.44**	**2.38**	**3.78**	**4.10**

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.

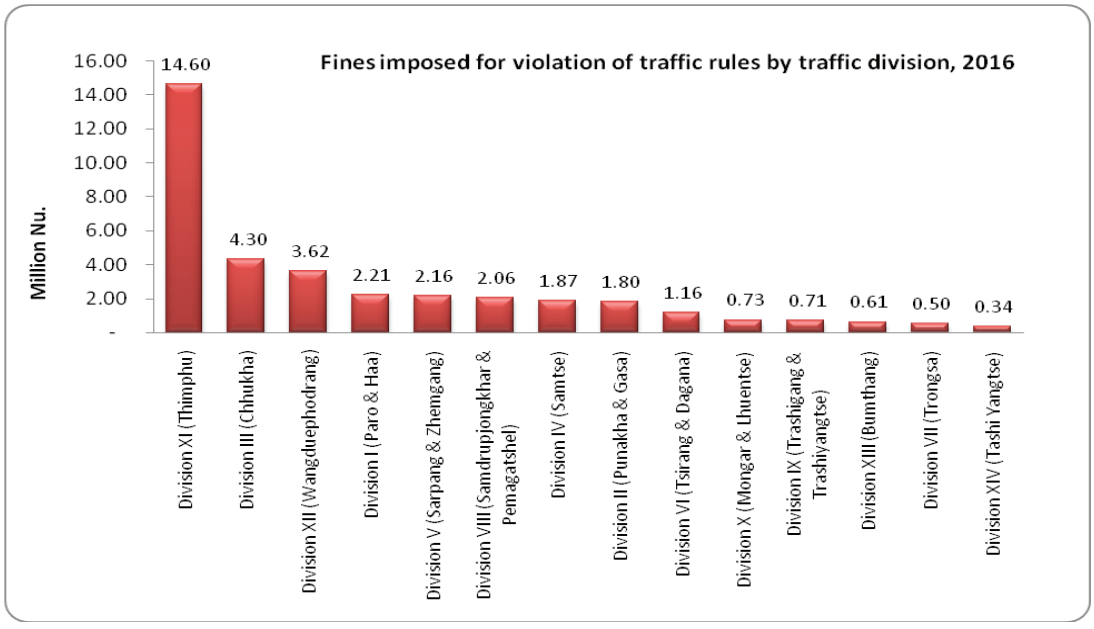


Table 17.1: Number of Crime Incidents and Type of Offences by Dzongkhag, 2016

Nature of Crime	Bumthang	Chhukha	Dagana	Gasa	Haa	
Crime Against the Person						
Homicide	0	3	0	0	1	
Assault,Battery & Related Offences	5	23	5	2	2	
Kidnapping & Related offences	0	1	0	0	0	
Sexual Offences	0	7	0	0	2	
Offences against Infant,Child,Mentally disabled & Incompetent person	0	2	0	0	0	
Crime Against the Property						
Arson & Related Offences	0	0	0	0	0	
Burglary,Trespass & Related Offences	9	24	1	0	2	
Larceny, Robbery, Armed Robbery & Related Offences	3	41	2	1	4	
Incidents of Commercial Crime, Fraud and Related Offences						
Money Laundering & Smuggling	2	1	0	0	1	
Embezzlement & Bribery	0	4	0	0	0	
Forgery & Related Offences	0	10	0	1	0	
Defamation & Related Offences	0	0	0	0	0	
Offence against state and public order						
Treason,Terrorism & Related Offences	0	1	0	0	0	
Offences against Cultural & National Heritage	4	1	1	2	1	
Offences against Judicial Authority	0	0	0	0	0	
Prostitution & Related Offences	0	0	0	0	0	
Offences against the Public Welfare	2	3	0	0	1	
Offences Related to Public & Civic Duties	0	0	0	0	0	
Offences Related to Public Order & Tranquillity	3	4	0	0	1	
Incidents of Abetting, Solicitaion & Criminal Conspiracy						
Aiding & Abetting,Solicitaion & Criminal Conspiracy	0	0	0	0	0	
Incidents of Micellaneous Crime						
Offences against Privacy	0	0	0	0	0	
Computer Offences	0	1	0	0	0	
Offences Related to Fire Arms & Weapons	0	4	0	0	0	
Offences Related to Protected Species,Controlled & Other Harmful Substances	0	18	0	0	0	
Conveyances of Unauthorized Articles	0	0	0	0	0	
Smuggling of tobacco and tobacco product	1	18	2	0	0	
Narcotic drugs, psychotropic substances and substance abuse	3	150	2	0	0	
Grand Total	**32**	**316**	**13**	**6**	**15**	

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

	Lhuentse	Monggar	Paro	Pema Gatshel	Punakha	Samdrup Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trashi Yangtse	Trongsa	Tsirang	Wangdue Phodrang	Zhemgang	Bhutan
	0	1	1	0	0	0	1	2	5	3	0	1	1	2	0	21
	7	15	43	15	11	2	12	24	177	22	7	6	7	28	4	417
	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	4
	2	0	4	2	4	1	10	3	28	1	0	6	0	7	0	77
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	0	0	3	0	1	0	0	0	2	0	0	0	0	0	0	6
	2	9	26	5	16	1	12	11	191	2	3	4	4	17	3	342
	3	8	35	2	7	2	26	10	347	9	2	11	3	21	3	540
	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	8
	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	6
	1	3	3	0	1	1	0	1	17	2	0	0	0	1	1	42
	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	4
	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
	9	27	4	4	7	1	0	0	7	11	13	2	0	6	4	104
	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	2	4	6	2	1	3	5	23	0	0	0	1	7	0	62
	2	0	2	1	0	0	0	0	0	0	0	0	0	1	0	6
	0	0	2	1	0	1	0	2	5	0	0	0	0	4	0	23
	0	0	0	0	0	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
	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1	0	1	0	1	1	1	0	6	0	0	0	0	0	2	17
	0	0	3	1	1	2	1	3	4	2	0	1	0	5	2	43
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	1	1	7	13	1	0	0	0	0	2	47
	0	1	14	0	2	7	17	14	89	8	0	1	0	7	1	316
	30	**66**	**151**	**37**	**53**	**21**	**84**	**84**	**921**	**61**	**25**	**32**	**16**	**108**	**22**	**2090**

Table 17.2: Monthly Motor Accident by Dzongkhag, 2016

(Incidents)

Dzongkhag	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Bumthang	0	0	0	1	0	0	0	0	0	0	0	0	1
Chukha	5	3	2	3	3	3	3	2	1	3	2	6	36
Dagana	0	0	0	1	0	0	0	0	0	0	0	0	1
Gasa	0	0	0	0	0	0	0	0	0	0	0	0	0
Haa	0	0	0	0	0	0	0	0	0	1	0	0	1
Lhuentse	0	0	0	0	0	0	1	0	0	0	0	1	2
Mongar	1	0	0	4	1	1	0	2	0	0	1	0	10
Paro	0	4	2	5	1	1	9	5	5	2	16	11	61
Pemagatshel	2	0	0	1	0	0	0	0	0	0	0	0	3
Punakha	0	1	0	0	1	0	2	0	0	0	0	0	4
Samdrup Jongkhar	2	1	1	1	1	1	0	0	0	0	1	0	8
Samtse	2	1	1	1	1	0	0	0	1	1	0	1	9
Sarpang	1	0	0	2	2	0	3	1	0	0	2	1	12
Thimphu	41	38	59	62	52	41	36	54	44	48	32	21	528
Trashigang	2	1	1	0	1	0	1	4	0	2	0	4	16
Trashi Yangtse	1	0	0	0	0	0	0	0	1	0	1	0	3
Trongsa	1	0	1	0	0	0	0	0	1	2	1	0	6
Tsirang	0	0	2	1	0	0	0	0	0	0	0	0	3
Wangdue Phodrang	1	1	0	4	1	2	0	0	2	1	0	2	14
Zhemgang	1	1	1	2	2	0	0	1	0	0	0	0	8
Bhutan	**60**	**51**	**70**	**88**	**66**	**49**	**55**	**69**	**55**	**60**	**56**	**47**	**726**

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

Table 17.3: Motor Vehicle Accident by Dzongkhag, (2012 - 2016)

(Incidents)

Dzongkhag	2012	2013	2014	2015	2016
Bumthang	2	1	2	2	1
Chhukha	317	186	84	61	36
Dagana	8	5	6	2	1
Gasa	2	1	0	0	0
Haa	5	0	0	2	1
Lhuentse	2	1	0	2	2
Monggar	9	4	6	10	10
Paro	85	37	41	16	61
Pema Gatshel	9	7	0	7	3
Punakha	14	4	4	2	4
Samdrup Jongkhar	13	12	11	18	8
Samtse	17	9	3	3	9
Sarpang	10	10	10	9	12
Thimphu	808	741	602	539	528
Trashigang	16	16	2	9	16
Trashi Yangtse	7	3	0	1	3
Trongsa	34	11	4	7	6
Tsirang	10	3	0	1	3
Wangdue Phodrang	32	38	14	16	14
Zhemgang	7	5	2	8	8
Bhutan	**1,407**	**1,094**	**791**	**715**	**726**

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

Table 17.4: Motor Vehicle Accidents by Causes by Dzongkhag, (2012-2016)

(Incidents)

Dzongkhag	Causes	2012	2013	2014	2015	2016
Bumthang	Mechanical fault	1	1	0	0	0
	Drunk driving	0	0	0	0	1
	Bad weather	1	0	0	0	0
	Without licence	0	0	0	1	0
	Unknown causes	0	0	0	0	0
	Other causes	0	0	2	1	0
Chukha	Mechanical fault	23	25	5	4	3
	Drunk driving	45	15	5	10	8
	Bad weather	67	41	11	13	2
	Without licence	80	12	3	3	2
	Unknown causes	8	0	0	0	7
	Other causes	94	98	60	31	14
Dagana	Mechanical fault	0	0	2	0	0
	Drunk driving	2	1	1	1	0
	Bad weather	2	0	0	0	0
	Without licence	1	2	2	0	0
	Unknown causes	2	0	0	0	0
	Other causes	1	2	1	1	1
Gasa	Mechanical fault	0	0	0	0	0
	Drunk driving	0	0	0	0	0
	Bad weather	2	1	0	0	0
	Without licence	0	0	0	0	0
	Unknown causes	0	0	0	0	0
	Other causes	0	0	0	0	0
Haa	Mechanical fault	1	0	0	1	0
	Drunk driving	2	0	0	0	0
	Bad weather	0	0	0	0	0
	Without licence	1	0	0	0	0
	Unknown causes	0	0	0	0	0
	Other causes	1	0	0	1	1
Lhuentse	Mechanical fault	0	0	0	0	0
	Drunk driving	1	0	0	0	1
	Bad weather	0	0	0	0	0

Table 17.4 cont...

Dzongkhag	Causes	2012	2013	2014	2015	2016
Lhuentse	Without licence	1	0	0	1	1
	Unknown causes	0	0	0	0	0
	Other causes	0	1	0	1	0
Monggar	Mechanical fault	1	0	0	1	0
	Drunk driving	5	0	0	5	0
	Bad weather	1	0	0	1	0
	Without licence	2	0	0	1	3
	Unknown causes	0	0	0	0	1
	Other causes	0	4	6	2	6
Paro	Mechanical fault	6	0	2	0	2
	Drunk driving	27	8	8	5	8
	Bad weather	11	3	5	0	1
	Without licence	9	2	4	2	3
	Unknown causes	24	0	0	0	10
	Other causes	8	24	22	9	37
Pemagatshel	Mechanical fault	0	0	0	0	0
	Drunk driving	0	0	0	3	0
	Bad weather	0	0	0	0	0
	Without licence	0	2	0	0	0
	Unknown causes	0	0	0	0	1
	Other causes	9	5	0	4	2
Punakha	Mechanical fault	1	0	0	0	0
	Drunk driving	1	0	1	1	0
	Bad weather	1	1	0	0	0
	Without licence	6	1	0	1	0
	Unknown causes	2	0	0	0	1
	Other causes	3	2	3	0	3
Samdrup Jongkhar	Mechanical fault	2	0	2	3	0
	Drunk driving	1	0	0	7	0
	Bad weather	3	0	2	0	1
	Without licence	1	1	1	3	1
	Unknown causes	0	0	0	0	2
	Other causes	6	11	6	5	4

cont...

Table 17.4 cont...

Dzongkhag	Causes	2012	2013	2014	2015	2016
Samtse	Mechanical fault	1	1	0	0	1
	Drunk driving	11	1	0	1	1
	Bad weather	0	0	1	0	0
	Without licence	3	0	1	1	1
	Unknown causes	0	0	0	0	0
	Other causes	2	7	1	1	6
Sarpang	Mechanical fault	1	2	2	0	0
	Drunk driving	0	4	1	4	0
	Bad weather	1	1	0	0	0
	Without licence	1	1	0	1	0
	Unknown causes	1	0	0	0	6
	Other causes	6	2	7	4	6
Thimphu	Mechanical fault	67	2	2	7	1
	Drunk driving	139	89	142	138	136
	Bad weather	20	2	14	3	0
	Without licence	75	71	48	60	59
	Unknown causes	356	1	0	0	157
	Other causes	151	621	396	331	175
Trashigang	Mechanical fault	4	0	0	1	0
	Drunk driving	3	2	0	6	2
	Bad weather	2	0	0	0	1
	Without licence	1	3	1	1	1
	Unknown causes	1	0	0	0	2
	Other causes	5	11	1	1	10
Trashi Yangt-se	Mechanical fault	0	0	0	1	0
	Drunk driving	3	1	0	0	0
	Bad weather	0	0	0	0	0
	Without licence	1	0	0	0	1
	Unknown causes	1	0	0	0	0
	Other causes	2	2	0	0	2
Trongsa	Mechanical fault	15	2	0	2	2
	Drunk driving	8		0	2	0
	Bad weather	3	5	1	1	1
	Without licence	2	0	0	0	1
	Unknown causes	2	0	0	0	0

cont...

Table 17.4 cont...

Dzongkhag	Causes	2012	2013	2014	2015	2016
Trongsa	Other causes	4	4	3	2	2
Tsirang	Mechanical fault	4	0	0	0	2
	Drunk driving	2	0	0	1	0
	Bad weather	1	0	0		0
	Without licence	2	0	0	0	0
	Unknown causes	...	0	0	0	1
	Other causes	1	3.	0		0
Wangdue Phodrang	Mechanical fault	4	0	3	4	0
	Drunk driving	3	2	2	8	2
	Bad weather	3	0	1	1	0
	Without licence	12	6	1	0	1
	Unknown causes	10	0	0	0	1
	Other causes	0	30	7	3	10
Zhemgang	Mechanical fault	3	0	0	2	2
	Drunk driving	1	1	0	3	1
	Bad weather	2	3	0	2	0
	Without licence	1	0	1	1	0
	Unknown causes	0	0	0	0	1
	Other causes	0	1	1	0	4

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

Table 17.5: Number of Houses Destroyed by Fire by Dzongkhag, (2012-2016)

Dzongkhag	2012	2013	2014	2015	2016
Bumthang	0	4	2	2	1
Chhukha	9	2	1	1	2
Dagana	0	0	0	0	0
Gasa	0	0	0	0	0
Haa	3	5	2	1	2
Lhuentse	0	0	2	0	1
Monggar	5	0	0	0	2
Paro	2	0	4	3	13
Pema Gatshel	2	2	0	2	0
Punakha	0	0	1	0	0
Samdrup Jongkhar	0	0	0	0	0
Samtse	0	1	1	0	1
Sarpang	1	2	1	0	1
Thimphu	16	18	15	3	18
Trashigang	0	7	1	1	1
Trashi Yangtse	0	2	1	0	4
Trongsa	3	0	1	1	1
Tsirang	0	0	0	0	0
Wangdue Phodrang	1	2	0	1	1
Zhemgang	0	0	0	0	2
Bhutan	**42**	**45**	**32**	**16**	**50**

Source: Fire Division, Royal Bhutan Police, Thimphu.

Table 17.6: Fines Imposed for Violation of Traffic Rules by Division, (2012-2016)

(Nu. in million)

Division/Dzongkhag	2012	2013	2014	2015	2016
Division I (Paro & Haa)	2.031	1.161	1.022	2.359	2.209
Division II (Punakha & Gasa)	0.598	0.364	0.246	0.504	1.798
Division III (Chhukha)	2.447	2.02	2.697	4.237	4.296
Division IV (Samtse)	0.474	0.661	0.817	1.935	1.868
Division V (Sarpang & Zhemgang)	0.481	0.725	0.693	1.737	2.163
Division VI (Tsirang & Dagana)	0.773	0.035	0.562	0.891	1.161
Division VII (Trongsa)	0.726	0.094	0.428	0.453	0.503
Division VIII (Samdrupjongkhar & Pemagatshel)	0.782	0.338	0.608	1.700	2.056
Division IX (Trashigang & Trashiyangtse)	0.352	0.292	0.500	0.971	0.707
Division X (Mongar & Lhuentse)	0.191	0.444	0.428	0.754	0.726
Division XI (Thimphu)	21.08	11.46	7.419	18.181	14.605
Division XII (Wangduephodrang)	1.221	0.769	1.291	8.469	3.616
Division XIII (Bumthang)	0.000	0.000	0.288	0.619	0.614
Division XIV (Tashi Yangtse)	...	...	...	...	0.336
Total	**31.156**	**18.363**	**17.001**	**42.809**	**36.657**

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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
2. Chhukha	3. Chapchha	1. Bunakha
		2. Dokharchhu Rimtekha
		3. Gangkha Shelyuel
		4. Lang Nyelsa
		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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
2. Chhukha	9. Maedtabkha	1. Gumina Tenchhukha
		2. Jozhingkha Maedtab Toed
		3. Maedtab Maed
		4. Pangu
		5. Uekha
	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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
3. Dagana	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
	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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
3. Dagana	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
	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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
4. Gasa	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
	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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
5. Haa	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
	3. Khoma	1. Babtong_ Dragteng
		2. Berpa _Khoma
		3. Gangla_ Kholma
		4. Pangkhar
		5. Rolmateng _Tsangngo

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
6. Lhuentse	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

cont...

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

cont...

Table cont...

Dzongkhag	Gewog	Chiwog
7. Monggar	8. Kengkhar	1. Dogtang Mooroong
		2. Kyidpari Yuldarig
		3. Neykolog Warongborang
		4. Olokid Tsalabi
		5. Phosothong Shingchongri
		6. Tongla Zitsibi
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
7. Monggar	14. Silambi	1. Daag
		2. Gyalong
		3. Kadag Silambi
		4. Pang Nagor
		5. Wama
	15. Thang-Rong	1. Atola
		2. Bauchhoeling Panglen
		3. Changshing
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
8. Paro	4. Hungrel	1. Chhubjagkha
		2. Gaupel
		3. Goenkha
		4. Hoongrelkha Jangsarbu
		5. Loongchhungna
	5. Lamgong	1. Chhukha
		2. Ngopa Shomo
		3. Tsendonang
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
9. Pemagatshel	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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
10. Punakha	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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
10. Punakha	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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
11. Samdrup Jongkhar	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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
11. Samdrup Jongkhar	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
	4. Namgaychoeling (La-hireni)	1. Chhunaggang Chhoedleling
		2. Gyalposhing Satsangsa
		3. Namgaychhoeling
		4. Pagshingkha Tshachhugang
		5. Sernyagang Tsholingkhar

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Table cont...

Dzongkhag	Gewog	Chiwog
12. Samtse	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

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Table cont...

Dzongkhag	Gewog	Chiwog
13. Sarpang	9. Serzhong	1. Barshong
		2. Norbuling
		3. Pemayoedling
		4. Sherzhong
		5. Tashiphu
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
14. Thimphu	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
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
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
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
15. Trashigang	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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
15. Trashigang	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
		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

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Table cont...

Dzongkhag	Gewog	Chiwog
16. Trashiyangtse	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
17. Trongsa	1. Draagteng	1. Kuenga Rabten
		2. Samling Khamaed
		3. Samling Khatoed
		4. Tagtse_Tashidingkha
		5. Uesar

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Table cont...

Dzongkhag	Gewog	Chiwog
17. Trongsa	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

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Table cont...

Dzongkhag	Gewog	Chiwog
18. Tsirang	9. Semjong	1. Dangreygang
		2. Dekidling
		3. Dzomling
		4. Tashiling Maed
		5. Tashiling Toed
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	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
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	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
	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

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Table cont...

Dzongkhag	Gewog	Chiwog
19. Wangdue Phodrang	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
	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

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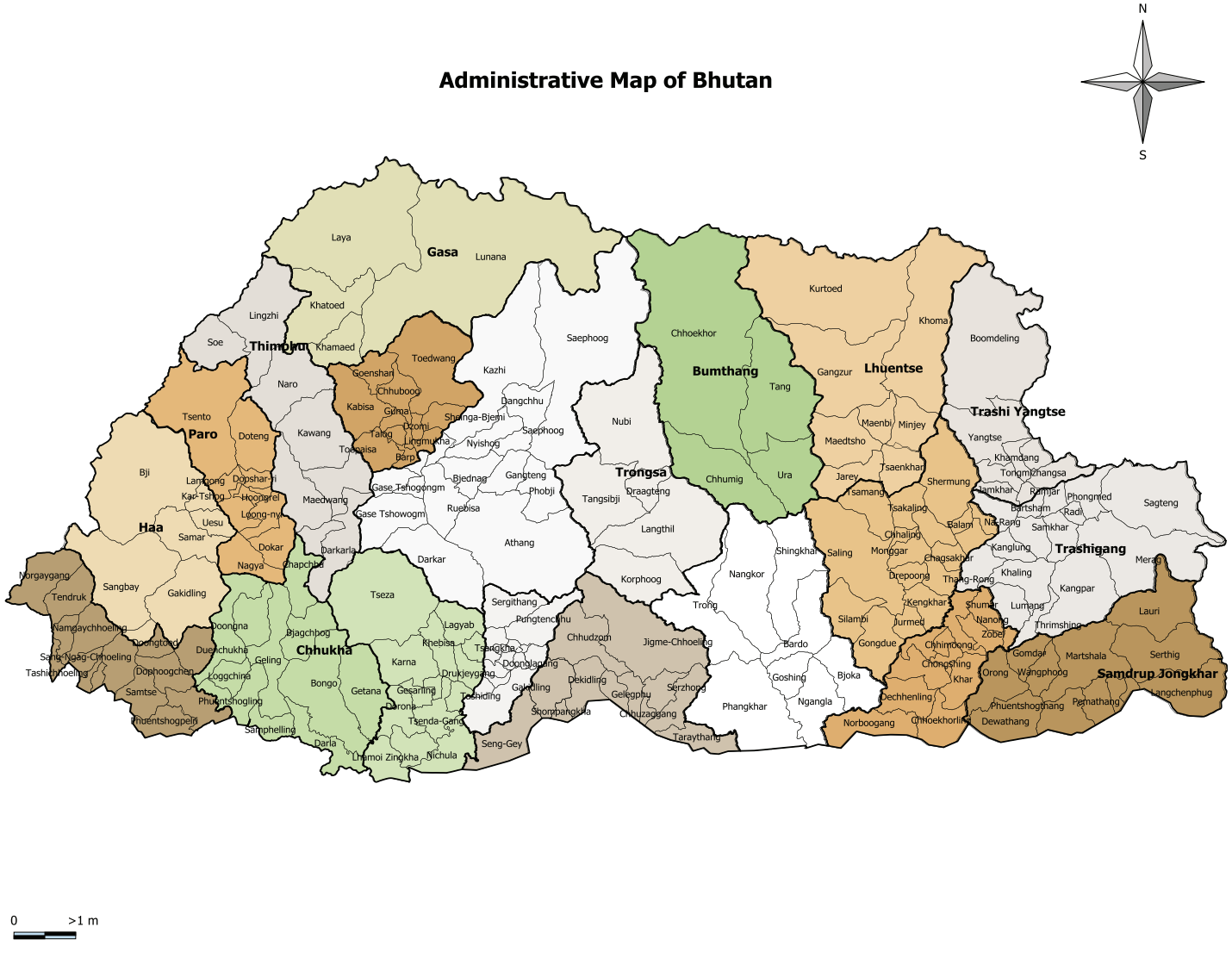
Table cont...

Dzongkhag	Gewog	Chiwog
20. Zhemgang	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



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