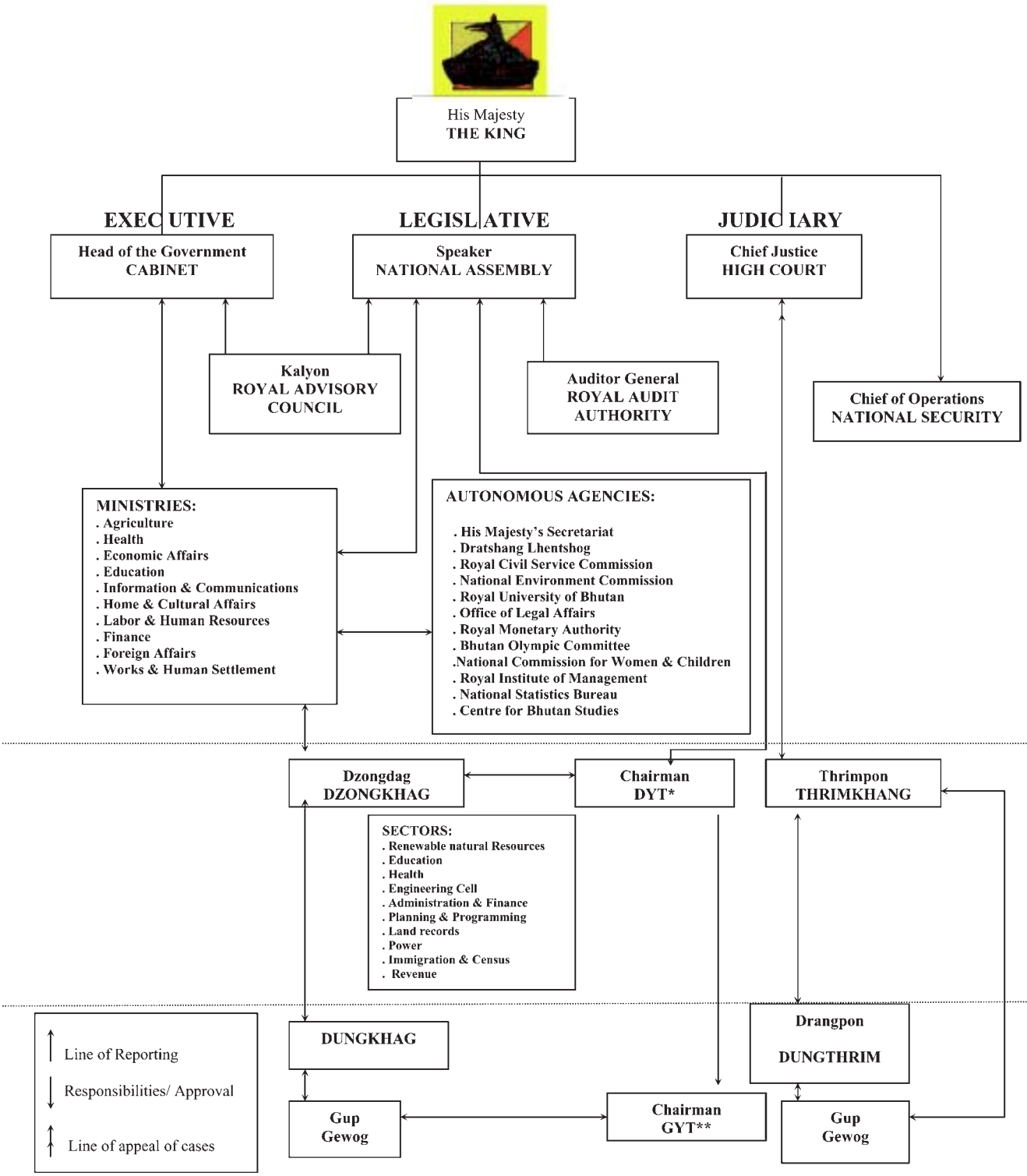
རྒྱལ་ཡོངས་རྩིས་དཔྱད་བཀོད་འཛིན།

NOVEMBER 2007

Statistical Yearbook of Bhutan 2007

National Statistics Bureau
Royal Government of Bhutan

Chart 1: THE BHUTANESE SYSTEM OF GOVERNANCE



*Dzongkhag Yargye Tshogchung
** Geog Yargye Tshogchung

Source: Royal Civil Service Commission Secretariat

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FOREWARD

This issue of the publications is the 25th edition in series. The Statistical yearbook of Bhutan is a comprehensive and systematic compendium of basic statistical information on Bhutan illustrating time series data about the Country's economy and social conditions.

The statistics collected are based on information gathered from statistical censuses and surveys, as well as from administrative records, by various ministries and agencies.

For the benefit of the users, efforts have been made to provide brief explanatory notes, coverage and data sources. The data in yearbook will serve as the principal source of information for planners, policy makers, research workers and academicians. It is intended to serve the quest for information by clients in the global community.

This 25th issue of statistical yearbook of Bhutan features the detailed information on the population parameters based on the PHCB 2005 and it has 16 different chapters of general interest to meet the need of a wide range of data users.

Endeavor has been made to ensure that this publication meets acceptable statistical standards. Data maintenance, its validation, compilation and updating has been done in close collaboration with all the data disseminating/ providing agencies, until the compilation was finalized for publication.

However, it was not always possible for us to undertake the detailed assessment of all the data available, albeit the need to place strong reliance on the existing data has been felt very much. Therefore, some shortcomings are inevitable as a result.

We value the contribution of different ministries and agencies that provided data and information for SYB 2007. In our desire to be more effective in serving the needs of the users for statistical information, we view our readers as key partners in publishing the SYB annually. We solicit comments and suggestions from the users of this yearbook, in order to improve the quality of the forthcoming issues.

November 2007

Director
National Statistics Bureau
Royal Government of Bhutan

NOTES FOR USERS

1. Unless otherwise indicated, the present issue of the Yearbook contains those statistics available as of December 2004
2. At the beginning of each chapter, general description of the statistics contained therein is given.
3. For every table, there is footnote indicating information specific to each figure in the table.
4. Unless otherwise indicated, "Year" refers to the calendar year, and "fiscal year" refers to the 12 months begining from July to June.

   n.a not available
   .. rounded to zero
   ***** sampling error too high for accurate estimation or estimates less than one percent.
   () negative numbers
   CY calendar year (period from January to December)
   FY fiscal year (period from April to March until 1985/86 and from July to June since then,unless otherwise indicated.

5. In some cases, minor discrepancies may occur between sums of component items and totals because of rounding.
6. Dzongkhags given in some tables differ from those given in Annex I. This is because of changes, following the creation of new Dzongkhags.
7. Names of the Ministries/Agencies both in tables and footnotes may differ. This is because of changes, following the creation of new Ministries/agencies.
8. Detail figures in the tables may not add up to the totals because of rounding.
9. Singular term is most often used to represent plural terms, example: agency for agencies etc.
10. When contents of this book are to be quoted or copied in other publication/report, please give a due credit by referring the title of this yearbook

    (Example) **Source: Bhutan Statistical Yearbook 2007, National Statistics Bureau**
11. For additional information on data or for any other queries, please refer to the original source or National Statistics Bureau.

SOME UNITS OF MEASUREMENT

Numbering and Scientific notations (US & scientific Community)

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

A. Length Measurement

1. Metric equivalents

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

Abbreviations	
mm	= millimeter
cm	= centimeter
m	= meter
dm	= decimeter
hm	= hectometer

2. 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

3. 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

1. 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

2. 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 m	= 10.764
1 square cm	= 0.155 square inch
1 square mile	= 2.590 square km
1 square km	= 0.386 square mile

C. Weight measurements

1. British units

16 dram	= 1 ounce
16 ounces	= 1 pound
28 pounds	= 1 cwt
20 cwt	= 1 ton
14 pounds	= 1 stone

2. Metric units

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

3. 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

1. Degree Celsius to degree Fahrenheit.
   (9 x T)/5 + 32, where T is temperature in degree Celsius.
2. Fahrenheit to degree Celsius.
   5 x (T - 32)/9, where T is temperature in Fahrenheit.

KEY FACTS ABOUT BHUTAN

Land area	38,394 sq. km.
Forest cover	72.5%
Population, 2006 (Projected)	646,851
Average Household size, (PHCB, 2005)	4.6
National Language	Dzongkha
National Currency	Ngultrum (Nu.)
Hospitals, 2006	29
Doctors, 2006	150
Civil servants, 2006	18,350
Schools, Institutes & NFE centers, 2006	1,158
Teachers (including in institutes & NFE), 2006	6,094
Students (including in institutes & NFE), 2006	169,776
Labour Force Participation rate, 2006	61.8%
Unemployment rate, 2006	3.2 %
Telephone connections, 2006	31,526
Cellular Mobile subscriber, 2006	82,078
Postal infrastructure, 2006	125
Total road length, 2006	4,544.7 km
Registered vehicles, 2006	33,241
Electricity generation, 2006	3,357.2 MU
Electricity exports, 2005/2006	1943.43 MU
Electricity imports, 2005/2006	34.35 MU
Tourist arrivals, 2006	17,342
Revenue earned from tourism, 2006	23.92 Mn US $
Total establishments, 2006	24,505
Balance of trade, 2006	(240.0) Mn. Nu.
Exchange rate, Nu. Per US $, 2006	45.3
Gross international money reserves, 2006/07	599.0 Mn US $
Total Ninth Plan budgetary outlay (2002-07)	70,000 Mn Nu.
GDP, 2006 (Current Price)	41,443.3 Mn. Nu.
GNI, 2006 (Current Price)	39,639.3 Mn. Nu.
Average inflation rate, 2006	4.99 %
Purchasing Power of Nu. 2006 (base year =2003)	0.87 Nu.

BHUTAN

I. Location and Extent

Bhutan is one of the Asia's smallest nations, landlocked between the extensive borders of the two great populous nations of China and India. Only 38,394 square kilometers in extent, the kingdom's longest east-west dimension, stretches around 300 kilometers and measures 170 kilometers at its maximum north-south dimension. Bhutan is situated in the eastern Himalayas and is mostly mountainous and heavily forested. It has 470 kilometers long bordered by Tibet (China's Xizang Autonomous Region) to the north and northwest and 605 kilometers with Indian state of Sikkim to the west, West Bengal to the southwest, Assam to the south and southeast, and Arunachal Pradesh to the east. Indian state of Sikkim, which measures eighty-eight-kilometer-wide territory, separates Bhutan from Nepal, while West Bengal separates Bhutan from Bangladesh by only sixty kilometers. The border with Tibet is traditional following the watershed of the Chumbi Valley in the northwest and the crest of the Himalayas in the north while, the southern border with India was established by treaty with the British in the nineteenth century and basically follows the line made by the Himalayan foothills with the plains.

72.5 percent of the Kingdom is covered with forests; 10 percent with year-round snow and glaciers; nearly 8 percent is permanently cultivated or used for human habitation; another 2 percent was used for shifting cultivation (tsheri), a practice banned by the government; and 3.9 percent as meadows and pastures, while rest of the land is either barren, rocky or scrubland.

II. The Geologic Setting*

The Himalayas of Bhutan consist of, from south to north, the Indian shield, the lower Himalayas, the Higher Himalayan Crystallines, and the Tibetan series. The Indian shield and its cover of sediments are separated from the lower Himalayas by the Main Boundary Thrust (MBT), which is the active thrust fault along which the rocks are being pushed up and over the Indian shield by the collision of India with Asia. The Main Central Thrust (MCT) separates the lower Himalayas from the Higher Himalayan Crystallines (HHC).

This Thrust, now "dead" is the surface along which substantial displacement took place about 20 Ma ago, leading to initial thickening of the continental crust. It can be thought of as an ancient equivalent of the MBT. Above the MCT is the Kakhtang thrust, discovered by Lincoln Hollister and the 1996 expedition to Bhutan and named for the army base through which it passes; it appears to be later than the MCT and brings to the surface deep portions of the crust, which may represent deeper section of the HHC. The South Tibetan Detachment System (STD) separates the HHC from the Tibetan series. The STD is a series of normal faults, all giving a sense of movement of the Tibetan series down to the north relative to the HHC.

The HHC appears to have been expelled out to the south in two pulses: one with the HHC carried south over the lesser Himalayas along the MCT, and the second producing a doubling of the HHC by further thrusting south along the Kakhtang thrust.

Most of the recent uplift of the Himalayas has occurred by thrusting along the MBT; movements associated with this fault causes the earthquakes occasionally felt in the Trashigang district. The uplift across the MBT set the stage for the erosion, which exhumed the deep portions of the HHC and its bounding structures, the MCT and the STD.

The MCT is slightly warped plane dipping northwards and separating the cover rocks of the underlying Indian shield from the highly deformed and thermally altered (metamorphosed) overlying wedge of the HHC. The plane intersects the rough topographic surface of the Himalayas, forming a line of intersection that can be followed across the ground surface. This line of intersection crosses the road several times near Barshong, crosses at the pass between Kanglung and Barshong, goes below the road from Kanglung to Trashigang and crosses the Gamrichu about 2km below Rolong. From there it goes along the east side of the Kurichu valley until it crosses the river, about 10 km below Lhuentse; from there it crosses back along the west side to Trashigang and crosses the Gamrichu about 2km below

* By Lincoln Hollister and the 1996 expedition to Bhutan

Rolong. From there it goes along the east side of the Kurichu valley until it crosses the river, about 10 km below Lhuntse; from there it crosses back along the west side of the Kurichu valley and recrosses the road between Monggar and Sengor. It continues northwesterly through Bhutan, Sikkim, Nepal, Ladakh, and Kashmir and into Pakistan. To the east it continues through the Northern Frontier of India.

III. 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; nineteen other peaks exceed 7,000 meters.

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. Watered by snow-fed rivers, 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.

IV. Climate and Vegetation

The country can be divided into three distinct climatic zones corresponding to the three main geographical divisions. Bhutan's climate is as varied as its altitudes and, like most of Asia; it is affected by the monsoons. Western Bhutan is particularly affected by monsoons that bring between 60 and 90 percent of the region's rainfall. The climate is humid and subtropical in the southern plains and foothills, temperate in the inner Himalayan valleys of the southern and central regions, and cold in the north, with year-round snow on the main Himalayan summits.

Temperatures vary according to elevation. Temperatures in Thimphu, located at 2,320 meters above sea level in west-central Bhutan, range from approximately 14° C to 25° C during the monsoon season of June through September but drop to between about -3° C and 14° C in January. 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.

V. 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.

VI. Government

On 17 December 1907, the civil and monastic representatives unanimously crowned Ugyen Wangchuck as the first hereditary monarch of Bhutan. It was as a result of the influence of the strength and the farsightedness of Ugyen Wangchuck that for the first time Bhutan was united under a central authority, which provided the country with stability and opportunity for development. In 1926 his son Jigme Wangchuck, who ruled until his death in 1952, 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 reestablished in 1953. The present Druk Gyalpo, His Majesty King Jigme Singye Wangchuck acceded to the throne in 1972. His Majesty the king is the head of state. The head of government is nominated from among the Cabinet Ministers. There has been steady decentralization of decision-making and institute building since His Majesty the King was enthroned. 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 change set off a process of adaptation in the relationship between the various branches of the government, as shown in **chart 1** it reflects the logical delineation in the separation of powers along with the establishment of elected Council of Ministers with full executive powers. It shows the apparatus of all the important aspects of the Bhutanese system of governance like the executive, legislative and judiciary going down from the central to the district levels.
Under the unity and farsighted leadership provided by His Majesty the King, the nation will be governed primarily through the Cabinet. The Cabinet Ministers are the heads of ministries, who will oversee that policies are formulated and programmes are carried out. The autonomous bodies have interactions primarily with the ministers, and this is denoted as such in the organogram.

VII. The National Assembly

The Tshogdu (The National Assembly) consists of 150 members; 106 are the elected representatives of the people, 10 are from the Dratshang (Clergy) and 24 are nominated representatives of the Government. The National Assembly as the legislative body is an independent institute, which elects Cabinet Ministers, approves annual budget and legislates acts governing the country, and discusses national issues. The people's representatives are directly elected by the respective constituencies through secret ballot, while the clergy representatives are elected by the Zhung Dratshang (Central Monastic Body) and the concerned Rabdeys (District Monastic Bodies). From among the senior civil servants, His Majesty the King nominates the representatives of the government. All the members serve for a term of three years. The National Assembly from among its members elects the Speaker and the Deputy Speaker. The National Assembly used to meet once a year. Starting from 2005, it will meet twice a year with shorter durations. The assembly enacts legislation and advises the government on all matters of national importance. Decisions are passed by a simple majority. A secret ballot is taken on all matters of national importance. Any Bhutanese over 25 years of age can be a candidate for membership.

VIII. The Royal Advisory Council

The Lodey Tshogdey (The Royal Advisory Council) was formally established in 1965 to advise the King and government ministers and to supervise the implementation of programs and policies laid down by the National Assembly. The Royal Advisory Council will continue to be consultative and advisory body. The Royal Advisory Council, as stipulated in its chatrim, will ensure the observance of the decisions made during the National Assembly and the Cabinet meetings. Therefore, it will have links with both the Cabinet and the National Assembly. It consists of nine members. There are six representatives of the public (Meeser Thuepoens) who serve for a term of three years. They are elected by the National Assembly through secret ballot from among the representatives of the Dzongkhags. Each Dzongkhag (district) deputes one representative who is elected through secret ballot from among the public. Two members represent the Monastic Body, one each from the Central Monastic Body and the Rabdeys who serve a term of one year. The chairman (Zhung Kalyon) is nominated by the king.

IX. The Monastic Body

The Monastic Body comprises the Central Monastic Body and the Rabdeys (District Monastic Bodies). The current strength of the Monastic Body is about 5,000 registered gelongs (monks) and is financed by an annual subsidy from the Royal Government. Punakha and Thimphu Dratshang having strength of 1,600 constitute the Central Monastic Body. The Monastic Body is the sole arbiter on religious matters. The Je Khempo who is chosen from among high-ranking gelongs is the head of the Body. He is assisted by four high-ranking Lopens of the Central Monastic Body.

X. Local Government

Local administration has been strengthened to meet the requirements of decentralized administration and development. There are twenty Dzongkhags

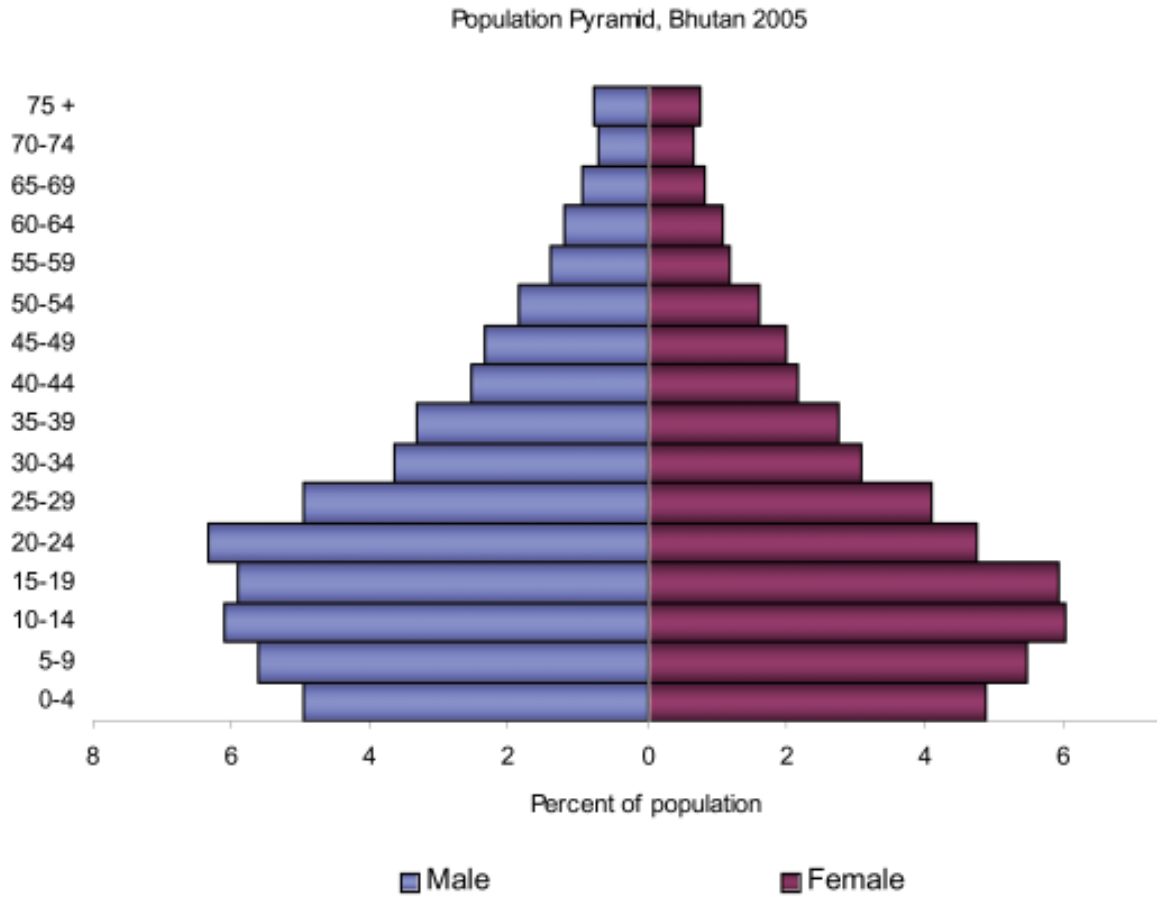
(Districts), governed by a Dzongkhag administrator (Dzongda) who is responsible for civil administration and developmental activities. Dzongda is assisted by a Dzongrab who is responsible for planning, development and civil administration. The larger Dzongkhags are sub divided into Dungkhags headed by a Dungpa. A Group of villages, from a gewog, the lowest administrative unit each gewog has a headman called the gup (in the north) or mandal (in the south). In each Dzongkhag the Dzongda is assisted in his development function by the Dzongkhag Yargye Tshogchung (District Development Committee), which consists of people's representatives and government officials.

XI. The Judiciary

Bhutan's Legal Code is based on that laid down by Ngawang Namgyal, the first Shabdrung who arrived Bhutan in 1616. Traditional Buddhist precepts are significantly maintained in the legal processes. The High Court consists of eight judges. There is a court in each Dzongkhag headed by a Drangpoen and assisted by Ramjams but minor disputes are settled by village heads (gups). As the final arbiter of law, the judiciary has been independent from other branches of the government since its inception.

CHAPTER 1
POPULATION

Population presents 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 basically conducted on a five or ten yearly basis. The Population and Housing Census in Bhutan was first conducted in May 2005. The census provides a full 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 are also used as a benchmark for making population estimates in non-census years and for population projections. Population censuses were undertaken in Bhutan in 1969 and 1980. The population figures for those early years were large because of the large influx of migrants from neighboring countries, particularly labor migrants at the instance of construction coinciding with the large-scale development work on infrastructure expansion. With the development emphasis changing to human resource development the large migrants moved out and in 1996 the total population was found to be around 600,000. The Census conducted in 2005 was based on the international standards and had been enumerated as the *de facto* population.



The second major element 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). In Bhutan, the vital registration system does not currently provide the full coverage of births and deaths and it has been necessary to undertake special sample surveys, (the

first one in 1984, and second one in 1994 and 2000) to obtain important demographic information. The Statistics presented in this chapter are purely of 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. The population for 2006 was projected at 646,851.

The interpretations of Demographic indicators are as follows:

Crude birth rate: Number of live births in a year per thousand populations.
General fertility rate: Number of live births in a year per thousand women in the childbearing age (15 to 49).
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 populations.
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 thousand 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 person's aged 65 and over as a percentage of the number of persons aged 0 to 14.

TABLE 1:1 PROJECTED POPULATION(NUMBER) BY SEX, BHUTAN 2005 - 2030

Year	Persons			Percent		
	Total	Male	Female	Total	Male	Female
2005	634,982	333,595	301,387	100.0	52.5	47.5
2006	646,851	339,403	307,448	100.0	52.5	47.5
2007	658,888	345,298	313,590	100.0	52.4	47.6
2008	671083	351269	319814	100.0	52.3	47.7
2009	683407	357305	326102	100.0	52.3	47.7
2010	695822	363383	332439	100.0	52.2	47.8
2011	708265	369476	338789	100.0	52.2	47.8
2012	720679	375554	345125	100.0	52.1	47.9
2013	733004	381582	351422	100.0	52.1	47.9
2014	745153	387520	357633	100.0	52.0	48.0
2015	757042	393324	363718	100.0	52.0	48.0
2016	768577	398948	369629	100.0	51.9	48.1
2017	779666	404347	375319	100.0	51.9	48.1
2018	790215	409474	380741	100.0	51.8	48.2
2019	800154	414293	385861	100.0	51.8	48.2
2020	809397	418760	390637	100.0	51.7	48.3
2021	818370	423085	395285	100.0	51.7	48.3
2022	827038	427250	399788	100.0	51.7	48.3
2023	835379	431247	404132	100.0	51.6	48.4
2024	843363	435058	408305	100.0	51.6	48.4
2025	850,976	438,679	412,297	100.0	51.6	48.4
2026	858410	442200	416210	100.0	51.5	48.5
2027	865662	445626	420036	100.0	51.5	48.5
2028	872759	448965	423794	100.0	51.4	48.6
2029	879707	452224	427483	100.0	51.4	48.6
2030	886523	455409	431114	100.0	51.4	48.6

Source: National Statistics Bureau.Thimphu

TABLE 1.2: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2005 - 2006

Age group	2005 (observed)			2006		
	Total	Male	Female	Total	Male	Female
0-4	62,553	31,489	31,064	65,100	32,702	32,398
5-9	70,399	35,547	34,852	68,780	34,808	33,972
10-14	77,007	38,728	38,279	76,190	38,420	37,770
15-19	75,236	37,504	37,732	75,810	37,404	38,406
20-24	70,574	40,254	30,320	72,016	40,330	31,686
25-29	57,358	31,386	25,972	60,311	33,428	26,883
30-34	42,806	23,208	19,598	44,844	24,282	20,562
35-39	38,729	21,124	17,605	39,547	21,568	17,979
40-44	29,900	16,022	13,878	31,182	16,759	14,423
45-49	27,662	14,895	12,767	27,970	15,037	12,933
50-54	22,047	11,779	10,268	23,088	12,340	10,748
55-59	16,392	8,764	7,628	16,973	9,074	7,899
60-64	14,574	7,564	7,010	14,593	7,582	7,011
65-69	11,361	5,999	5,362	11,581	6,079	5,502
70-74	8,742	4,493	4,249	8,865	4,567	4,298
75-79	5,245	2,677	2,568	5,469	2,794	2,675
80+	4,397	2,162	2,235	4,532	2,229	2,303
Total	634,982	333,595	301,387	646,851	339,403	307,448

Source: National Statistics Bureau.Thimphu

TABLE 1.3: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2007 - 2008

Age group	2007			2008		
	Total	Male	Female	Total	Male	Female
0-4	68,180	34,183	33,997	71,833	35,985	35,848
5-9	67,205	34,102	33,103	65,610	33,346	32,264
10-14	74,948	37,823	37,125	73,412	37,037	36,375
15-19	76,381	37,672	38,709	76,824	38,125	38,699
20-24	73,004	39,722	33,282	73,669	38,736	34,933
25-29	63,148	35,554	27,594	65,769	37,527	28,242
30-34	47,480	25,672	21,808	50,524	27,324	23,200
35-39	39,956	21,764	18,192	40,269	21,893	18,376
40-44	32,929	17,777	15,152	34,875	18,913	15,962
45-49	28,039	15,037	13,002	28,074	15,018	13,056
50-54	24,140	12,919	11,221	25,122	13,464	11,658
55-59	17,764	9,479	8,285	18,704	9,953	8,751
60-64	14,525	7,579	6,946	14,470	7,594	6,876
65-69	11,870	6,178	5,692	12,171	6,280	5,891
70-74	8,913	4,611	4,302	8,936	4,641	4,295
75-79	5,712	2,908	2,804	5,942	3,013	2,929
80+	4,694	2,318	2,376	4,879	2,420	2,459
Total	658,888	345,298	313,590	671,083	351,269	319,814

Source: National Statistics Bureau.Thimphu

TABLE 1.4: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2009 - 2010

Age group	2009			2010		
	Total	Male	Female	Total	Male	Female
0-4	76,103	38,177	37,926	81,063	40,853	40,210
5-9	63,888	32,424	31,464	61,901	31,204	30,697
10-14	71,756	36,199	35,557	70,108	35,404	34,704
15-19	76,949	38,479	38,470	76,636	38,536	38,100
20-24	74,201	37,806	36,395	74,730	37,240	37,490
25-29	68,070	39,045	29,025	69,980	39,907	30,073
30-34	53,693	29,149	24,544	56,767	31,061	25,706
35-39	40,924	22,208	18,716	42,226	22,888	19,338
40-44	36,647	19,940	16,707	38,000	20,708	17,292
45-49	28,362	15,153	13,209	29,087	15,553	13,534
50-54	25,937	13,912	12,025	26,535	14,229	12,306
55-59	19,704	10,463	9,241	20,697	10,980	9,717
60-64	14,558	7,679	6,879	14,873	7,867	7,006
65-69	12,416	6,366	6,050	12,566	6,425	6,141
70-74	8,992	4,677	4,315	9,113	4,729	4,384
75-79	6,126	3,099	3,027	6,253	3,163	3,090
80+	5,081	2,529	2,552	5,287	2,636	2,651
Total	683,407	357,305	326,102	695,822	363,383	332,439

Source: National Statistics Bureau.Thimphu

TABLE 1.5: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2011 - 2012

Age group	2011			2012		
	Total	Male	Female	Total	Male	Female
0-4	81,918	41,285	40,633	82,559	41,610	40,949
5-9	64,406	32,399	32,007	67,467	33,872	33,595
10-14	68,504	34,672	33,832	66,946	33,974	32,972
15-19	75,834	38,234	37,600	74,607	37,645	36,962
20-24	75,316	37,149	38,167	75,899	37,422	38,477
25-29	71,427	39,991	31,436	72,426	39,398	33,028
30-34	59,707	33,091	26,616	62,533	35,205	27,328
35-39	44,255	23,957	20,298	46,873	25,337	21,536
40-44	38,818	21,152	17,666	39,237	21,354	17,883
45-49	30,353	16,280	14,073	32,072	17,280	14,792
50-54	26,848	14,375	12,473	26,931	14,384	12,547
55-59	21,696	11,516	10,180	22,705	12,068	10,637
60-64	15,424	8,158	7,266	16,167	8,535	7,632
65-69	12,600	6,451	6,149	12,560	6,460	6,100
70-74	9,314	4,804	4,510	9,570	4,894	4,676
75-79	6,350	3,221	3,129	6,397	3,259	3,138
80+	5,495	2,741	2,754	5,730	2,857	2,873
Total	708,265	369,476	338,789	720,679	375,554	345,125

Source: National Statistics Bureau.Thimphu

TABLE 1.6: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2013 - 2014

Age group	2013			2014		
	Total	Male	Female	Total	Male	Female
0-4	82,936	41,801	41,135	83,001	41,835	41,166
5-9	71,111	35,670	35,441	75,377	37,859	37,518
10-14	65,365	33,224	32,141	63,657	32,309	31,348
15-19	73,090	36,868	36,222	71,452	36,039	35,413
20-24	76,354	37,879	38,475	76,495	38,239	38,256
25-29	73,105	38,429	34,676	73,652	37,516	36,136
30-34	65,147	37,169	27,978	67,446	38,683	28,763
35-39	49,896	26,978	22,918	53,044	28,790	24,254
40-44	39,561	21,490	18,071	40,225	21,811	18,414
45-49	33,987	18,396	15,591	35,732	19,405	16,327
50-54	26,987	14,379	12,608	27,287	14,522	12,765
55-59	23,651	12,590	11,061	24,440	13,021	11,419
60-64	17,044	8,974	8,070	17,978	9,447	8,531
65-69	12,534	6,485	6,049	12,636	6,572	6,064
70-74	9,836	4,986	4,850	10,054	5,065	4,989
75-79	6,430	3,289	3,141	6,488	3,323	3,165
80+	5,970	2,975	2,995	6,189	3,084	3,105
Total	733,004	381,582	351,422	745,153	387,520	357,633

Source: National Statistics Bureau.Thimphu

TABLE 1.7: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2015 - 2016

Age group	2015			2016		
	Total	Male	Female	Total	Male	Female
0-4	82,716	41,693	41,023	82,041	41,354	40,687
5-9	80,336	40,533	39,803	81,213	40,975	40,238
10-14	61,685	31,097	30,588	64,190	32,292	31,898
15-19	69,822	35,253	34,569	68,236	34,530	33,706
20-24	76,199	38,303	37,896	75,416	38,010	37,406
25-29	74,196	36,963	37,233	74,797	36,881	37,916
30-34	69,358	39,547	29,811	70,813	39,641	31,172
35-39	56,100	30,689	25,411	59,026	32,706	26,320
40-44	41,526	22,491	19,035	43,542	23,553	19,989
45-49	37,069	20,163	16,906	37,885	20,606	17,279
50-54	28,007	14,919	13,088	29,253	15,633	13,620
55-59	25,023	13,329	11,694	25,338	13,477	11,861
60-64	18,908	9,927	8,981	19,844	10,425	9,419
65-69	12,936	6,747	6,189	13,443	7,012	6,431
70-74	10,192	5,122	5,070	10,238	5,153	5,085
75-79	6,594	3,368	3,226	6,759	3,430	3,329
80+	6,375	3,180	3,195	6,543	3,270	3,273
Total	757,042	393,324	363,718	768,577	398,948	369,629

Source: National Statistics Bureau.Thimphu

TABLE 1.8: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2017 - 2018

Age group	2017			2018		
	Total	Male	Female	Total	Male	Female
0-4	80,944	40,804	40,140	79,405	40,032	39,373
5-9	81,877	41,310	40,567	82,279	41,513	40,766
10-14	67,250	33,765	33,485	70,890	35,561	35,329
15-19	66,693	33,839	32,854	65,126	33,096	32,030
20-24	74,212	37,432	36,780	72,716	36,666	36,050
25-29	75,395	37,162	38,233	75,864	37,625	38,239
30-34	71,824	39,063	32,761	72,518	38,113	34,405
35-39	61,841	34,808	27,033	64,448	36,763	27,685
40-44	46,139	24,922	21,217	49,135	26,548	22,587
45-49	38,313	20,814	17,499	38,653	20,960	17,693
50-54	30,933	16,607	14,326	32,802	17,693	15,109
55-59	25,441	13,499	11,942	25,520	13,509	12,011
60-64	20,794	10,940	9,854	21,686	11,428	10,258
65-69	14,118	7,351	6,767	14,911	7,743	7,168
70-74	10,226	5,171	5,055	10,229	5,205	5,024
75-79	6,966	3,504	3,462	7,178	3,579	3,599
80+	6,700	3,356	3,344	6,855	3,440	3,415
Total	779,666	404,347	375,319	790,215	409,474	380,741

Source: National Statistics Bureau.Thimphu

TABLE 1.9: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2019 - 2020

Age group	2019			2020		
	Total	Male	Female	Total	Male	Female
0-4	77,429	39,040	38,389	75,031	37,835	37,196
5-9	82,373	41,561	40,812	82,115	41,432	40,683
10-14	75,152	37,749	37,403	80,105	40,419	39,686
15-19	63,434	32,190	31,244	61,477	30,987	30,490
20-24	71,100	35,849	35,251	69,490	35,074	34,416
25-29	76,021	37,991	38,030	75,742	38,063	37,679
30-34	73,081	37,219	35,862	73,640	36,681	36,959
35-39	66,743	38,272	28,471	68,657	39,140	29,517
40-44	52,257	28,344	23,913	55,288	30,227	25,061
45-49	39,326	21,288	18,038	40,622	21,967	18,655
50-54	34,508	18,677	15,831	35,820	19,419	16,401
55-59	25,832	13,660	12,172	26,546	14,053	12,493
60-64	22,435	11,834	10,601	22,994	12,127	10,867
65-69	15,754	8,165	7,589	16,596	8,595	8,001
70-74	10,339	5,289	5,050	10,615	5,445	5,170
75-79	7,352	3,643	3,709	7,466	3,691	3,775
80+	7,018	3,522	3,496	7,193	3,605	3,588
Total	800,154	414,293	385,861	809,397	418,760	390,637

Source: National Statistics Bureau.Thimphu

TABLE 1.10: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2021 - 2022

Age group	2021			2022		
	Total	Male	Female	Total	Male	Female
0-4	72,746	36,686	36,060	70,635	35,623	35,012
5-9	81,469	41,108	40,361	80,400	40,571	39,829
10-14	80,987	40,864	40,123	81,657	41,202	40,455
15-19	63,982	32,183	31,799	67,039	33,654	33,385
20-24	67,921	34,360	33,561	66,394	33,677	32,717
25-29	74,979	37,780	37,199	73,794	37,212	36,582
30-34	74,253	36,609	37,644	74,862	36,896	37,966
35-39	70,118	39,244	30,874	71,137	38,682	32,455
40-44	58,193	32,228	25,965	60,988	34,311	26,677
45-49	42,617	23,018	19,599	45,181	24,369	20,812
50-54	36,628	19,857	16,771	37,063	20,070	16,993
55-59	27,754	14,742	13,012	29,376	15,678	13,698
60-64	23,309	12,275	11,034	23,427	12,308	11,119
65-69	17,446	9,042	8,404	18,308	9,504	8,804
70-74	11,060	5,673	5,387	11,642	5,961	5,681
75-79	7,512	3,721	3,791	7,517	3,742	3,775
80+	7,396	3,695	3,701	7,618	3,790	3,828
Total	818,370	423,085	395,285	827,038	427,250	399,788

Source: National Statistics Bureau.Thimphu

TABLE 1.11: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2023 - 2024

Age group	2023			2024		
	Total	Male	Female	Total	Male	Female
0-4	68,763	34,679	34,084	67,192	33,887	33,305
5-9	78,894	39,814	39,080	76,946	38,834	38,112
10-14	82,065	41,408	40,657	82,163	41,458	40,705
15-19	70,676	35,449	35,227	74,929	37,632	37,297
20-24	64,843	32,943	31,900	63,165	32,044	31,121
25-29	72,317	36,457	35,860	70,720	35,649	35,071
30-34	75,343	37,363	37,980	75,511	37,733	37,778
35-39	71,841	37,750	34,091	72,414	36,872	35,542
40-44	63,577	36,249	27,328	65,858	37,747	28,111
45-49	48,135	25,971	22,164	51,211	27,739	23,472
50-54	37,414	20,224	17,190	38,087	20,553	17,534
55-59	31,172	16,716	14,456	32,810	17,655	15,155
60-64	23,525	12,331	11,194	23,841	12,485	11,356
65-69	19,117	9,941	9,176	19,799	10,306	9,493
70-74	12,320	6,292	6,028	13,038	6,646	6,392
75-79	7,538	3,776	3,762	7,642	3,848	3,794
80+	7,839	3,884	3,955	8,037	3,970	4,067
Total	835,379	431,247	404,132	843,363	435,058	408,305

Source: National Statistics Bureau.Thimphu

TABLE 1.12: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2025 - 2026

Age group	2025			2026		
	Total	Male	Female	Total	Male	Female
0-4	65,982	33,276	32,706	64,877	32,718	32,159
5-9	74,575	37,641	36,934	72,314	36,501	35,813
10-14	81,911	41,331	40,580	81,271	41,010	40,261
15-19	79,870	40,295	39,575	80,757	40,742	40,015
20-24	61,222	30,849	30,373	63,725	32,044	31,681
25-29	69,126	34,882	34,244	67,574	34,176	33,398
30-34	75,244	37,809	37,435	74,496	37,533	36,963
35-39	72,983	36,347	36,636	73,604	36,283	37,321
40-44	67,761	38,610	29,151	69,219	38,720	30,499
45-49	54,197	29,592	24,605	57,062	31,562	25,500
50-54	39,366	21,222	18,144	41,323	22,252	19,071
55-59	34,072	18,365	15,707	34,858	18,789	16,069
60-64	24,529	12,862	11,667	25,676	13,511	12,165
65-69	20,311	10,572	9,739	20,607	10,710	9,897
70-74	13,756	7,008	6,748	14,482	7,384	7,098
75-79	7,869	3,973	3,896	8,224	4,151	4,073
80+	8,202	4,045	4,157	8,341	4,114	4,227
Total	850,976	438,679	412,297	858,410	442,200	416,210

Source: National Statistics Bureau.Thimphu

TABLE 1.13: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2027 - 2028

Age group	2027			2028		
	Total	Male	Female	Total	Male	Female
0-4	63,920	32,235	31,685	63,154	31,848	31,306
5-9	70,225	35,448	34,777	68,372	34,512	33,860
10-14	80,209	40,476	39,733	78,710	39,722	38,988
15-19	81,430	41,081	40,349	81,842	41,289	40,553
20-24	66,778	33,513	33,265	70,408	35,304	35,104
25-29	66,063	33,501	32,562	64,527	32,774	31,753
30-34	73,329	36,974	36,355	71,872	36,228	35,644
35-39	74,222	36,575	37,647	74,711	37,044	37,667
40-44	70,241	38,173	32,068	70,955	37,263	33,692
45-49	59,819	33,614	26,205	62,376	35,523	26,853
50-54	43,831	23,571	20,260	46,717	25,132	21,585
55-59	35,291	19,001	16,290	35,649	19,161	16,488
60-64	27,201	14,384	12,817	28,887	15,350	13,537
65-69	20,734	10,751	9,983	20,849	10,787	10,062
70-74	15,221	7,775	7,446	15,918	8,146	7,772
75-79	8,678	4,372	4,306	9,201	4,624	4,577
80+	8,470	4,182	4,288	8,611	4,258	4,353
Total	865,662	445,626	420,036	872,759	448,965	423,794

Source: National Statistics Bureau.Thimphu

TABLE 1.14: PROJECTED POPULATION (NUMBER) BY AGE GROUP AND SEX, BHUTAN 2029 - 2030

Age group	2029			2030		
	Total	Male	Female	Total	Male	Female
0-4	62,612	31,574	31,038	62,326	31,429	30,897
5-9	66,819	33,727	33,092	65,627	33,124	32,503
10-14	76,772	38,747	38,025	74,410	37,558	36,852
15-19	81,945	41,341	40,604	81,700	41,218	40,482
20-24	74,651	37,481	37,170	79,580	40,136	39,444
25-29	62,864	31,883	30,981	60,938	30,698	30,240
30-34	70,295	35,431	34,864	68,722	34,674	34,048
35-39	74,890	37,417	37,473	74,640	37,499	37,141
40-44	71,540	36,406	35,134	72,121	35,898	36,223
45-49	64,633	37,001	27,632	66,521	37,857	28,664
50-54	49,722	26,856	22,866	52,644	28,665	23,979
55-59	36,320	19,490	16,830	37,570	20,143	17,427
60-64	30,426	16,225	14,201	31,614	16,887	14,727
65-69	21,161	10,940	10,221	21,807	11,290	10,517
70-74	16,506	8,456	8,050	16,954	8,685	8,269
75-79	9,754	4,893	4,861	10,306	5,168	5,138
80+	8,797	4,356	4,441	9,043	4,480	4,563
Total	879,707	452,224	427,483	886,523	455,409	431,114

Source: National Statistics Bureau.Thimphu

TABLE 1.15: PROJECTED POPULATION AND PERCENT DISTRIBUTION BY AGE GROUP AND SEX, BHUTAN 2007

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	34,183	33,997	68,180	9.9	10.8	10.3
5-9	34,102	33,103	67,205	9.9	10.6	10.2
10-14	37,823	37,125	74,948	11.0	11.8	11.4
15-19	37,672	38,709	76,381	10.9	12.3	11.6
20-24	39,722	33,282	73,004	11.5	10.6	11.1
25-29	35,554	27,594	63,148	10.3	8.8	9.6
30-34	25,672	21,808	47,480	7.4	7.0	7.2
35-39	21,764	18,192	39,956	6.3	5.8	6.1
40-44	17,777	15,152	32,929	5.1	4.8	5.0
45-49	15,037	13,002	28,039	4.4	4.1	4.3
50-54	12,919	11,221	24,140	3.7	3.6	3.7
55-59	9,479	8,285	17,764	2.7	2.6	2.7
60-64	7,579	6,946	14,525	2.2	2.2	2.2
65-69	6,178	5,692	11,870	1.8	1.8	1.8
70-74	4,611	4,302	8,913	1.3	1.4	1.4
75-79	2,908	2,804	5,712	0.8	0.9	0.9
80+	2,318	2,376	4,694	0.7	0.8	0.7
All ages	345,298	313,590	658,888	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE1.16: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2007

Age	Male	Female	Both sex	Age	Male	Female	Both sex	Age	Male	Female	Both sex
0	6,894	7,275	14,169	27	7,213	5,530	12,743	54	2,323	2,018	4,341
1	6,901	6,960	13,861	28	6,826	5,284	12,110	55	2,152	1,869	4,021
2	6,860	6,725	13,585	29	6,365	5,032	11,397	56	1,996	1,732	3,728
3	6,797	6,564	13,361	30	5,854	4,777	10,631	57	1,864	1,623	3,487
4	6,731	6,473	13,204	31	5,374	4,536	9,910	58	1,768	1,552	3,320
5	6,688	6,448	13,136	32	4,997	4,325	9,322	59	1,699	1,509	3,208
6	6,689	6,483	13,172	33	4,777	4,155	8,932	60	1,638	1,475	3,113
7	6,752	6,573	13,325	34	4,670	4,015	8,685	61	1,574	1,437	3,011
8	6,887	6,712	13,599	35	4,601	3,891	8,492	62	1,513	1,395	2,908
9	7,086	6,887	13,973	36	4,507	3,768	8,275	63	1,456	1,346	2,802
10	7,317	7,083	14,400	37	4,390	3,644	8,034	64	1,398	1,293	2,691
11	7,530	7,280	14,810	38	4,229	3,512	7,741	65	1,345	1,241	2,586
12	7,665	7,459	15,124	39	4,037	3,377	7,414	66	1,295	1,191	2,486
13	7,685	7,600	15,285	40	3,848	3,247	7,095	67	1,240	1,141	2,381
14	7,626	7,703	15,329	41	3,684	3,129	6,813	68	1,181	1,087	2,268
15	7,524	7,804	15,328	42	3,536	3,019	6,555	69	1,117	1,032	2,149
16	7,450	7,878	15,328	43	3,409	2,922	6,331	70	1,051	975	2,026
17	7,444	7,855	15,299	44	3,300	2,835	6,135	71	986	918	1,904
18	7,544	7,707	15,251	45	3,194	2,750	5,944	72	921	861	1,782
19	7,710	7,465	15,175	46	3,089	2,668	5,757	73	858	803	1,661
20	7,882	7,178	15,060	47	2,996	2,592	5,588	74	795	745	1,540
21	7,998	6,895	14,893	48	2,916	2,527	5,443	75	730	686	1,416
22	8,039	6,625	14,664	49	2,842	2,465	5,307	76	661	627	1,288
23	7,976	6,394	14,370	50	2,781	2,413	5,194	77	588	563	1,151
24	7,827	6,190	14,017	51	2,713	2,357	5,070	78	509	498	1,007
25	7,665	5,985	13,650	52	2,618	2,275	4,893	79	420	430	850
26	7,485	5,763	13,248	53	2,484	2,158	4,642	80 +	2,318	2,376	4,694
Sub total	198,652	187,964	386,616	Sub total	111,250	93,203	204,453	Sub total	35,396	32,423	67,819
								Total	345,298	313,590	658,888

Source: National Statistics Bureau.Thimphu

TABLE 1.17: PROJECTED POPULALTION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2008 - 2010

Age	2008			2009			2010		
group	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	71,833	35,985	35,848	76,103	38,177	37,926	81,063	40,853	40,210
5-9	65,610	33,346	32,264	63,888	32,424	31,464	61,901	31,204	30,697
10-14	73,412	37,037	36,375	71,756	36,199	35,557	70,108	35,404	34,704
15-19	76,824	38,125	38,699	76,949	38,479	38,470	76,636	38,536	38,100
20-24	73,669	38,736	34,933	74,201	37,806	36,395	74,730	37,240	37,490
25-29	65,769	37,527	28,242	68,070	39,045	29,025	69,980	39,907	30,073
30-34	50,524	27,324	23,200	53,693	29,149	24,544	56,767	31,061	25,706
35-39	40,269	21,893	18,376	40,924	22,208	18,716	42,226	22,888	19,338
40-44	34,875	18,913	15,962	36,647	19,940	16,707	38,000	20,708	17,292
45-49	28,074	15,018	13,056	28,362	15,153	13,209	29,087	15,553	13,534
50-54	25,122	13,464	11,658	25,937	13,912	12,025	26,535	14,229	12,306
55-59	18,704	9,953	8,751	19,704	10,463	9,241	20,697	10,980	9,717
60-64	14,470	7,594	6,876	14,558	7,679	6,879	14,873	7,867	7,006
65-69	12,171	6,280	5,891	12,416	6,366	6,050	12,566	6,425	6,141
70-74	8,936	4,641	4,295	8,992	4,677	4,315	9,113	4,729	4,384
75-79	5,942	3,013	2,929	6,126	3,099	3,027	6,253	3,163	3,090
80+	4,879	2,420	2,459	5,081	2,529	2,552	5,287	2,636	2,651
Total	671,083	351,269	319,814	683,407	357,305	326,102	695,822	363,383	332,439

Source: National Statistics Bureau.Thimphu

TABLE 1.18:PROJECTED POPULATION(NUMBERS)AND PERCENT DISTRIBUTION BY AGE AND SEX,BHUTAN 2008

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	35,985	35,848	71,833	10.2	11.2	10.7
5-9	33,346	32,264	65,610	9.5	10.1	9.8
10-14	37,037	36,375	73,412	10.5	11.4	10.9
15-19	38,125	38,699	76,824	10.9	12.1	11.4
20-24	38,736	34,933	73,669	11.0	10.9	11.0
25-29	37,527	28,242	65,769	10.7	8.8	9.8
30-34	27,324	23,200	50,524	7.8	7.3	7.5
35-39	21,893	18,376	40,269	6.2	5.7	6.0
40-44	18,913	15,962	34,875	5.4	5.0	5.2
45-49	15,018	13,056	28,074	4.3	4.1	4.2
50-54	13,464	11,658	25,122	3.8	3.6	3.7
55-59	9,953	8,751	18,704	2.8	2.7	2.8
60-64	7,594	6,876	14,470	2.2	2.1	2.2
65-69	6,280	5,891	12,171	1.8	1.8	1.8
70-74	4,641	4,295	8,936	1.3	1.3	1.3
75-79	3,013	2,929	5,942	0.9	0.9	0.9
80+	2,420	2,459	4,879	0.7	0.8	0.7
All ages	351,269	319,814	671,083	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.19: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2008

Age	Male	Female	Both sex	Age	Male	Female	Both sex	Age	Male	Female	Both sex
0	7,699	7,998	15,697	27	7,682	5,605	13,287	54	2,450	2,126	4,576
1	7,426	7,488	14,914	28	7,329	5,382	12,711	55	2,271	1,979	4,250
2	7,167	7,076	14,243	29	6,835	5,197	12,032	56	2,109	1,846	3,955
3	6,940	6,757	13,697	30	6,283	5,026	11,309	57	1,965	1,729	3,694
4	6,753	6,529	13,282	31	5,772	4,846	10,618	58	1,850	1,635	3,485
5	6,624	6,392	13,016	32	5,346	4,657	10,003	59	1,758	1,562	3,320
6	6,566	6,342	12,908	33	5,055	4,446	9,501	60	1,669	1,491	3,160
7	6,588	6,377	12,965	34	4,868	4,225	9,093	61	1,580	1,420	3,000
8	6,694	6,489	13,183	35	4,698	4,002	8,700	62	1,504	1,361	2,865
9	6,874	6,664	13,538	36	4,513	3,797	8,310	63	1,444	1,318	2,762
10	7,097	6,881	13,978	37	4,353	3,631	7,984	64	1,397	1,286	2,683
11	7,317	7,108	14,425	38	4,222	3,513	7,735	65	1,356	1,261	2,617
12	7,483	7,316	14,799	39	4,107	3,433	7,540	66	1,316	1,235	2,551
13	7,563	7,476	15,039	40	4,020	3,373	7,393	67	1,267	1,194	2,461
14	7,577	7,594	15,171	41	3,936	3,307	7,243	68	1,206	1,137	2,343
15	7,574	7,707	15,281	42	3,823	3,221	7,044	69	1,135	1,064	2,199
16	7,590	7,803	15,393	43	3,663	3,101	6,764	70	1,061	988	2,049
17	7,611	7,826	15,437	44	3,471	2,960	6,431	71	990	915	1,905
18	7,651	7,755	15,406	45	3,267	2,811	6,078	72	923	851	1,774
19	7,699	7,608	15,307	46	3,084	2,677	5,761	73	863	795	1,658
20	7,721	7,431	15,152	47	2,947	2,574	5,521	74	804	746	1,550
21	7,721	7,241	14,962	48	2,874	2,513	5,387	75	746	700	1,446
22	7,733	7,017	14,750	49	2,846	2,481	5,327	76	684	652	1,336
23	7,765	6,761	14,526	50	2,838	2,463	5,301	77	614	596	1,210
24	7,796	6,483	14,279	51	2,812	2,433	5,245	78	533	531	1,064
25	7,843	6,181	14,024	52	2,745	2,372	5,117	79	436	450	886
26	7,838	5,877	13,715	53	2,619	2,264	4,883	80 +	2,420	2,459	4,879
Sub total	198,910	190,177	389,087	Sub total	116,008	96,310	212,318	Sub total	36,351	33,327	69,678
								Total	351,269	319,814	671,083

Source: National Statistics Bureau.Thimphu

TABLE 1.20: PROJECTED POPULALTION (NUMBERS) AND PERCENT DISTRIBUTION BY AGE GROUP AND SEX, BHUTAN 2009

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	38,177	37,926	76,103	10.7	11.6	11.1
5-9	32,424	31,464	63,888	9.1	9.6	9.3
10-14	36,199	35,557	71,756	10.1	10.9	10.5
15-19	38,479	38,470	76,949	10.8	11.8	11.3
20-24	37,806	36,395	74,201	10.6	11.2	10.9
25-29	39,045	29,025	68,070	10.9	8.9	10.0
30-34	29,149	24,544	53,693	8.2	7.5	7.9
35-39	22,208	18,716	40,924	6.2	5.7	6.0
40-44	19,940	16,707	36,647	5.6	5.1	5.4
45-49	15,153	13,209	28,362	4.2	4.1	4.2
50-54	13,912	12,025	25,937	3.9	3.7	3.8
55-59	10,463	9,241	19,704	2.9	2.8	2.9
60-64	7,679	6,879	14,558	2.1	2.1	2.1
65-69	6,366	6,050	12,416	1.8	1.9	1.8
70-74	4,677	4,315	8,992	1.3	1.3	1.3
75-79	3,099	3,027	6,126	0.9	0.9	0.9
80+	2,529	2,552	5,081	0.7	0.8	0.7
All ages	357,305	326,102	683,407	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.21: PROJECTED POPULALTION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2009

Age	Male	Female	Both sex	Age	Male	Female	Both sex	Age	Male	Female	Both sex
0	8,653	8,779	17,432	27	8,033	5,720	13,753	54	2,559	2,220	4,779
1	8,063	8,071	16,134	28	7,731	5,515	13,246	55	2,383	2,084	4,467
2	7,551	7,473	15,024	29	7,244	5,382	12,626	56	2,225	1,960	4,185
3	7,124	6,988	14,112	30	6,696	5,275	11,971	57	2,077	1,840	3,917
4	6,786	6,615	13,401	31	6,194	5,143	11,337	58	1,947	1,730	3,677
5	6,546	6,357	12,903	32	5,744	4,966	10,710	59	1,831	1,627	3,458
6	6,411	6,214	12,625	33	5,393	4,723	10,116	60	1,716	1,522	3,238
7	6,382	6,186	12,568	34	5,122	4,437	9,559	61	1,602	1,421	3,023
8	6,459	6,267	12,726	35	4,848	4,133	8,981	62	1,511	1,346	2,857
9	6,626	6,440	13,066	36	4,567	3,863	8,430	63	1,447	1,304	2,751
10	6,853	6,674	13,527	37	4,360	3,661	8,021	64	1,403	1,286	2,689
11	7,094	6,930	14,024	38	4,243	3,551	7,794	65	1,370	1,280	2,650
12	7,299	7,160	14,459	39	4,190	3,508	7,698	66	1,334	1,269	2,603
13	7,436	7,335	14,771	40	4,182	3,498	7,680	67	1,288	1,236	2,524
14	7,517	7,458	14,975	41	4,161	3,470	7,631	68	1,225	1,174	2,399
15	7,604	7,575	15,179	42	4,075	3,398	7,473	69	1,149	1,091	2,240
16	7,702	7,688	15,390	43	3,888	3,262	7,150	70	1,070	1,001	2,071
17	7,751	7,751	15,502	44	3,634	3,079	6,713	71	996	918	1,914
18	7,739	7,755	15,494	45	3,356	2,882	6,238	72	928	849	1,777
19	7,683	7,701	15,384	46	3,114	2,710	5,824	73	869	795	1,664
20	7,576	7,633	15,209	47	2,943	2,585	5,528	74	814	752	1,566
21	7,473	7,538	15,011	48	2,871	2,523	5,394	75	761	714	1,475
22	7,457	7,363	14,820	49	2,869	2,509	5,378	76	702	673	1,375
23	7,561	7,097	14,658	50	2,893	2,511	5,404	77	635	623	1,258
24	7,739	6,764	14,503	51	2,891	2,495	5,386	78	552	555	1,107
25	7,952	6,386	14,338	52	2,843	2,447	5,290	79	449	462	911
26	8,085	6,022	14,107	53	2,726	2,352	5,078	80 +	2,529	2,552	5,081
Sub total	199,122	192,220	391,342	Sub total	120,811	99,598	220,409	Sub total	37,372	34,284	71,656
								Total	357,305	326,102	683,407

Source: National Statistics Bureau.Thimphu

TABLE 1.22: PROJECTED POPULATION (NUMBERS) AND PERCENT DISTRIBUTION BY AGE GROUP AND SEX,BHUTAN 2010

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	40,853	40,210	81,063	11.2	12.1	11.6
5-9	31,204	30,697	61,901	8.6	9.2	8.9
10-14	35,404	34,704	70,108	9.7	10.4	10.1
15-19	38,536	38,100	76,636	10.6	11.5	11.0
20-24	37,240	37,490	74,730	10.2	11.3	10.7
25-29	39,907	30,073	69,980	11.0	9.0	10.1
30-34	31,061	25,706	56,767	8.5	7.7	8.2
35-39	22,888	19,338	42,226	6.3	5.8	6.1
40-44	20,708	17,292	38,000	5.7	5.2	5.5
45-49	15,553	13,534	29,087	4.3	4.1	4.2
50-54	14,229	12,306	26,535	3.9	3.7	3.8
55-59	10,980	9,717	20,697	3.0	2.9	3.0
60-64	7,867	7,006	14,873	2.2	2.1	2.1
65-69	6,425	6,141	12,566	1.8	1.8	1.8
70-74	4,729	4,384	9,113	1.3	1.3	1.3
75-79	3,163	3,090	6,253	0.9	0.9	0.9
80+	2,636	2,651	5,287	0.7	0.8	0.8
All ages	363,383	332,439	695,822	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.23: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2010

Age	Male	Female	Both sex	Age	Male	Female	Both sex	Age	Male	Female	Both sex
0	9,781	9,623	19,404	27	8,212	5,915	14,127	54	2,639	2,294	4,933
1	8,846	8,704	17,550	28	7,973	5,718	13,691	55	2,480	2,174	4,654
2	8,037	7,911	15,948	29	7,541	5,600	13,141	56	2,336	2,064	4,400
3	7,363	7,249	14,612	30	7,055	5,513	12,568	57	2,192	1,948	4,140
4	6,826	6,723	13,549	31	6,606	5,391	11,997	58	2,053	1,827	3,880
5	6,433	6,337	12,770	32	6,173	5,214	11,387	59	1,919	1,704	3,623
6	6,190	6,097	12,287	33	5,785	4,953	10,738	60	1,782	1,575	3,357
7	6,098	6,001	12,099	34	5,442	4,635	10,077	61	1,649	1,452	3,101
8	6,152	6,047	12,199	35	5,078	4,296	9,374	62	1,543	1,363	2,906
9	6,331	6,215	12,546	36	4,717	3,995	8,712	63	1,470	1,316	2,786
10	6,595	6,465	13,060	37	4,458	3,772	8,230	64	1,423	1,300	2,723
11	6,889	6,747	13,636	38	4,333	3,656	7,989	65	1,387	1,298	2,685
12	7,147	6,999	14,146	39	4,302	3,619	7,921	66	1,347	1,286	2,633
13	7,328	7,183	14,511	40	4,325	3,618	7,943	67	1,299	1,256	2,555
14	7,445	7,310	14,755	41	4,323	3,594	7,917	68	1,234	1,193	2,427
15	7,582	7,429	15,011	42	4,244	3,524	7,768	69	1,158	1,108	2,266
16	7,731	7,557	15,288	43	4,047	3,377	7,424	70	1,079	1,016	2,095
17	7,802	7,655	15,457	44	3,769	3,179	6,948	71	1,005	931	1,936
18	7,765	7,718	15,483	45	3,464	2,966	6,430	72	938	862	1,800
19	7,656	7,741	15,397	46	3,204	2,781	5,985	73	880	808	1,688
20	7,481	7,758	15,239	47	3,018	2,646	5,664	74	827	767	1,594
21	7,329	7,740	15,069	48	2,936	2,579	5,515	75	774	730	1,504
22	7,297	7,616	14,913	49	2,931	2,562	5,493	76	715	690	1,405
23	7,440	7,361	14,801	50	2,952	2,561	5,513	77	648	638	1,286
24	7,693	7,015	14,708	51	2,945	2,542	5,487	78	565	566	1,131
25	7,988	6,612	14,600	52	2,901	2,498	5,399	79	461	466	927
26	8,193	6,228	14,421	53	2,792	2,411	5,203	80 +	2,636	2,651	5,287
Sub total	199,418	194,041	393,459	Sub total	125,526	103,115	228,641	Sub total	38,439	35,283	73,722
								Total	363,383	332,439	695,822

Source: National Statistics Bureau.Thimphu

TABLE 1.24: PROJECTED POPULATION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2011 - 2013

Age group	2011			2012			2013		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	81,918	41,285	40,633	82,559	41,610	40,949	82,936	41,801	41,135
5-9	64,406	32,399	32,007	67,467	33,872	33,595	71,111	35,670	35,441
10-14	68,504	34,672	33,832	66,946	33,974	32,972	65,365	33,224	32,141
15-19	75,834	38,234	37,600	74,607	37,645	36,962	73,090	36,868	36,222
20-24	75,316	37,149	38,167	75,899	37,422	38,477	76,354	37,879	38,475
25-29	71,427	39,991	31,436	72,426	39,398	33,028	73,105	38,429	34,676
30-34	59,707	33,091	26,616	62,533	35,205	27,328	65,147	37,169	27,978
35-39	44,255	23,957	20,298	46,873	25,337	21,536	49,896	26,978	22,918
40-44	38,818	21,152	17,666	39,237	21,354	17,883	39,561	21,490	18,071
45-49	30,353	16,280	14,073	32,072	17,280	14,792	33,987	18,396	15,591
50-54	26,848	14,375	12,473	26,931	14,384	12,547	26,987	14,379	12,608
55-59	21,696	11,516	10,180	22,705	12,068	10,637	23,651	12,590	11,061
60-64	15,424	8,158	7,266	16,167	8,535	7,632	17,044	8,974	8,070
65-69	12,600	6,451	6,149	12,560	6,460	6,100	12,534	6,485	6,049
70-74	9,314	4,804	4,510	9,570	4,894	4,676	9,836	4,986	4,850
75-79	6,350	3,221	3,129	6,397	3,259	3,138	6,430	3,289	3,141
80+	5,495	2,741	2,754	5,730	2,857	2,873	5,970	2,975	2,995
Total	708,265	369,476	338,789	720,679	375,554	345,125	733,004	381,582	351,422

Source: National Statistics Bureau.Thimphu

TABLE 1.25: PROJECTED POPULATION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2014 - 2016

Age group	2014			2015			2016		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	83,001	41,835	41,166	82,716	41,693	41,023	82,041	41,354	40,687
5-9	75,377	37,859	37,518	80,336	40,533	39,803	81,213	40,975	40,238
10-14	63,657	32,309	31,348	61,685	31,097	30,588	64,190	32,292	31,898
15-19	71,452	36,039	35,413	69,822	35,253	34,569	68,236	34,530	33,706
20-24	76,495	38,239	38,256	76,199	38,303	37,896	75,416	38,010	37,406
25-29	73,652	37,516	36,136	74,196	36,963	37,233	74,797	36,881	37,916
30-34	67,446	38,683	28,763	69,358	39,547	29,811	70,813	39,641	31,172
35-39	53,044	28,790	24,254	56,100	30,689	25,411	59,026	32,706	26,320
40-44	40,225	21,811	18,414	41,526	22,491	19,035	43,542	23,553	19,989
45-49	35,732	19,405	16,327	37,069	20,163	16,906	37,885	20,606	17,279
50-54	27,287	14,522	12,765	28,007	14,919	13,088	29,253	15,633	13,620
55-59	24,440	13,021	11,419	25,023	13,329	11,694	25,338	13,477	11,861
60-64	17,978	9,447	8,531	18,908	9,927	8,981	19,844	10,425	9,419
65-69	12,636	6,572	6,064	12,936	6,747	6,189	13,443	7,012	6,431
70-74	10,054	5,065	4,989	10,192	5,122	5,070	10,238	5,153	5,085
75-79	6,488	3,323	3,165	6,594	3,368	3,226	6,759	3,430	3,329
80+	6,189	3,084	3,105	6,375	3,180	3,195	6,543	3,270	3,273
Total	745,153	387,520	357,633	757,042	393,324	363,718	768,577	398,948	369,629

Source: National Statistics Bureau.Thimphu

TABLE 1.26: PROJECTED POPULATION (NUMBERS) AND PERCENT DISTRIBUTION BY AGE AND SEX, BHUTAN 2015

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	41,693	41,023	82,716	10.6	11.3	10.9
5-9	40,533	39,803	80,336	10.3	10.9	10.6
10-14	31,097	30,588	61,685	7.9	8.4	8.1
15-19	35,253	34,569	69,822	9.0	9.5	9.2
20-24	38,303	37,896	76,199	9.7	10.4	10.1
25-29	36,963	37,233	74,196	9.4	10.2	9.8
30-34	39,547	29,811	69,358	10.1	8.2	9.2
35-39	30,689	25,411	56,100	7.8	7.0	7.4
40-44	22,491	19,035	41,526	5.7	5.2	5.5
45-49	20,163	16,906	37,069	5.1	4.6	4.9
50-54	14,919	13,088	28,007	3.8	3.6	3.7
55-59	13,329	11,694	25,023	3.4	3.2	3.3
60-64	9,927	8,981	18,908	2.5	2.5	2.5
65-69	6,747	6,189	12,936	1.7	1.7	1.7
70-74	5,122	5,070	10,192	1.3	1.4	1.3
75-79	3,368	3,226	6,594	0.9	0.9	0.9
80+	3,180	3,195	6,375	0.8	0.9	0.8
All ages	393,324	363,718	757,042	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.27: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2015

Age	Male	Female	Both sex
0	8,334	8,198	16,532
1	8,242	8,114	16,356
2	8,273	8,143	16,416
3	8,369	8,235	16,604
4	8,475	8,333	16,808
5	8,530	8,381	16,911
6	8,480	8,325	16,805
7	8,275	8,123	16,398
8	7,891	7,747	15,638
9	7,357	7,227	14,584
10	6,756	6,643	13,399
11	6,226	6,129	12,355
12	5,928	5,837	11,765
13	5,957	5,860	11,817
14	6,230	6,119	12,349
15	6,573	6,445	13,018
16	6,861	6,723	13,584
17	7,117	6,971	14,088
18	7,294	7,153	14,447
19	7,408	7,277	14,685
20	7,541	7,394	14,935
21	7,687	7,519	15,206
22	7,754	7,614	15,368
23	7,716	7,674	15,390
24	7,605	7,695	15,300
25	7,430	7,710	15,140
26	7,276	7,688	14,964
Sub total	201,585	199,277	400,862

Age	Male	Female	Both sex
27	7,243	7,564	14,807
28	7,383	7,309	14,692
29	7,631	6,962	14,593
30	7,922	6,560	14,482
31	8,122	6,176	14,298
32	8,139	5,864	14,003
33	7,897	5,665	13,562
34	7,467	5,546	13,013
35	6,981	5,456	12,437
36	6,532	5,333	11,865
37	6,098	5,154	11,252
38	5,711	4,892	10,603
39	5,367	4,576	9,943
40	5,003	4,238	9,241
41	4,643	3,937	8,580
42	4,382	3,712	8,094
43	4,250	3,595	7,845
44	4,213	3,553	7,766
45	4,227	3,547	7,774
46	4,218	3,520	7,738
47	4,132	3,445	7,577
48	3,933	3,296	7,229
49	3,653	3,098	6,751
50	3,349	2,883	6,232
51	3,086	2,698	5,784
52	2,894	2,559	5,453
53	2,804	2,487	5,291
Sub total	147,280	123,625	270,905

Age	Male	Female	Both sex
54	2,786	2,461	5,247
55	2,793	2,452	5,245
56	2,774	2,426	5,200
57	2,717	2,375	5,092
58	2,602	2,281	4,883
59	2,443	2,160	4,603
60	2,278	2,035	4,313
61	2,128	1,920	4,048
62	1,980	1,799	3,779
63	1,838	1,675	3,513
64	1,703	1,552	3,255
65	1,565	1,422	2,987
66	1,432	1,298	2,730
67	1,322	1,204	2,526
68	1,242	1,147	2,389
69	1,186	1,118	2,304
70	1,139	1,098	2,237
71	1,090	1,073	2,163
72	1,034	1,032	2,066
73	967	971	1,938
74	892	896	1,788
75	813	810	1,623
76	735	722	1,457
77	663	635	1,298
78	601	559	1,160
79	556	500	1,056
80 +	3,180	3,195	6,375
Sub total	44,459	40,816	85,275
Total	393,324	363,718	757,042

Source: National Statistics Bureau.Thimphu

TABLE 1.28: PROJECTED POPULATION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2017 - 2019

Age group	2017			2018			2019		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	80,944	40,804	40,140	79,405	40,032	39,373	77,429	39,040	38,389
5-9	81,877	41,310	40,567	82,279	41,513	40,766	82,373	41,561	40,812
10-14	67,250	33,765	33,485	70,890	35,561	35,329	75,152	37,749	37,403
15-19	66,693	33,839	32,854	65,126	33,096	32,030	63,434	32,190	31,244
20-24	74,212	37,432	36,780	72,716	36,666	36,050	71,100	35,849	35,251
25-29	75,395	37,162	38,233	75,864	37,625	38,239	76,021	37,991	38,030
30-34	71,824	39,063	32,761	72,518	38,113	34,405	73,081	37,219	35,862
35-39	61,841	34,808	27,033	64,448	36,763	27,685	66,743	38,272	28,471
40-44	46,139	24,922	21,217	49,135	26,548	22,587	52,257	28,344	23,913
45-49	38,313	20,814	17,499	38,653	20,960	17,693	39,326	21,288	18,038
50-54	30,933	16,607	14,326	32,802	17,693	15,109	34,508	18,677	15,831
55-59	25,441	13,499	11,942	25,520	13,509	12,011	25,832	13,660	12,172
60-64	20,794	10,940	9,854	21,686	11,428	10,258	22,435	11,834	10,601
65-69	14,118	7,351	6,767	14,911	7,743	7,168	15,754	8,165	7,589
70-74	10,226	5,171	5,055	10,229	5,205	5,024	10,339	5,289	5,050
75-79	6,966	3,504	3,462	7,178	3,579	3,599	7,352	3,643	3,709
80+	6,700	3,356	3,344	6,855	3,440	3,415	7,018	3,522	3,496
Total	779,666	404,347	375,319	790,215	409,474	380,741	800,154	414,293	385,861

Source: National Statistics Bureau.Thimphu

TABLE 1.29: PROJECTED POPULATION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2020 - 2022

Age group	2020			2021			2022		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	75,031	37,835	37,196	72,746	36,686	36,060	70,635	35,623	35,012
5-9	82,115	41,432	40,683	81,469	41,108	40,361	80,400	40,571	39,829
10-14	80,105	40,419	39,686	80,987	40,864	40,123	81,657	41,202	40,455
15-19	61,477	30,987	30,490	63,982	32,183	31,799	67,039	33,654	33,385
20-24	69,490	35,074	34,416	67,921	34,360	33,561	66,394	33,677	32,717
25-29	75,742	38,063	37,679	74,979	37,780	37,199	73,794	37,212	36,582
30-34	73,640	36,681	36,959	74,253	36,609	37,644	74,862	36,896	37,966
35-39	68,657	39,140	29,517	70,118	39,244	30,874	71,137	38,682	32,455
40-44	55,288	30,227	25,061	58,193	32,228	25,965	60,988	34,311	26,677
45-49	40,622	21,967	18,655	42,617	23,018	19,599	45,181	24,369	20,812
50-54	35,820	19,419	16,401	36,628	19,857	16,771	37,063	20,070	16,993
55-59	26,546	14,053	12,493	27,754	14,742	13,012	29,376	15,678	13,698
60-64	22,994	12,127	10,867	23,309	12,275	11,034	23,427	12,308	11,119
65-69	16,596	8,595	8,001	17,446	9,042	8,404	18,308	9,504	8,804
70-74	10,615	5,445	5,170	11,060	5,673	5,387	11,642	5,961	5,681
75-79	7,466	3,691	3,775	7,512	3,721	3,791	7,517	3,742	3,775
80+	7,193	3,605	3,588	7,396	3,695	3,701	7,618	3,790	3,828
Total	809,397	418,760	390,637	818,370	423,085	395,285	827,038	427,250	399,788

Source: National Statistics Bureau.Thimphu

TABLE 1.30: PROJECTED POPULATION (NUMBERS) AND PERCENT DISTRIBUTION BY AGE GROUP AND SEX, BHUTAN 2020

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	37,835	37,196	75,031	9.0	9.5	9.3
5-9	41,432	40,683	82,115	9.9	10.4	10.1
10-14	40,419	39,686	80,105	9.7	10.2	9.9
15-19	30,987	30,490	61,477	7.4	7.8	7.6
20-24	35,074	34,416	69,490	8.4	8.8	8.6
25-29	38,063	37,679	75,742	9.1	9.6	9.4
30-34	36,681	36,959	73,640	8.8	9.5	9.1
35-39	39,140	29,517	68,657	9.3	7.6	8.5
40-44	30,227	25,061	55,288	7.2	6.4	6.8
45-49	21,967	18,655	40,622	5.2	4.8	5.0
50-54	19,419	16,401	35,820	4.6	4.2	4.4
55-59	14,053	12,493	26,546	3.4	3.2	3.3
60-64	12,127	10,867	22,994	2.9	2.8	2.8
65-69	8,595	8,001	16,596	2.1	2.0	2.1
70-74	5,445	5,170	10,615	1.3	1.3	1.3
75-79	3,691	3,775	7,466	0.9	1.0	0.9
80+	3,605	3,588	7,193	0.9	0.9	0.9
All ages	418,760	390,637	809,397	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.31: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2020

Age	Male	Female	Both sex
0	6,457	6,361	12,818
1	7,264	7,145	14,409
2	7,790	7,656	15,446
3	8,093	7,950	16,043
4	8,231	8,084	16,315
5	8,266	8,118	16,384
6	8,257	8,107	16,364
7	8,251	8,103	16,354
8	8,289	8,139	16,428
9	8,369	8,216	16,585
10	8,449	8,293	16,742
11	8,450	8,295	16,745
12	8,280	8,128	16,408
13	7,888	7,746	15,634
14	7,352	7,224	14,576
15	6,737	6,626	13,363
16	6,206	6,111	12,317
17	5,906	5,817	11,723
18	5,934	5,840	11,774
19	6,204	6,096	12,300
20	6,543	6,420	12,963
21	6,829	6,695	13,524
22	7,080	6,940	14,020
23	7,255	7,119	14,374
24	7,367	7,242	14,609
25	7,497	7,356	14,853
26	7,641	7,478	15,119
Sub total	200,885	197,305	398,190

Age	Male	Female	Both sex
27	7,705	7,570	15,275
28	7,665	7,628	15,293
29	7,555	7,647	15,202
30	7,379	7,659	15,038
31	7,224	7,634	14,858
32	7,189	7,508	14,697
33	7,323	7,253	14,576
34	7,566	6,905	14,471
35	7,850	6,503	14,353
36	8,044	6,120	14,164
37	8,055	5,806	13,861
38	7,812	5,605	13,417
39	7,379	5,483	12,862
40	6,892	5,390	12,282
41	6,441	5,264	11,705
42	6,005	5,083	11,088
43	5,617	4,820	10,437
44	5,272	4,504	9,776
45	4,908	4,166	9,074
46	4,545	3,865	8,410
47	4,280	3,639	7,919
48	4,141	3,516	7,657
49	4,093	3,469	7,562
50	4,095	3,456	7,551
51	4,074	3,422	7,496
52	3,980	3,342	7,322
53	3,775	3,191	6,966
Sub total	166,864	146,448	313,312

Age	Male	Female	Both sex
54	3,495	2,990	6,485
55	3,189	2,775	5,964
56	2,925	2,587	5,512
57	2,727	2,443	5,170
58	2,623	2,362	4,985
59	2,589	2,326	4,915
60	2,577	2,305	4,882
61	2,543	2,269	4,812
62	2,473	2,208	4,681
63	2,349	2,107	4,456
64	2,185	1,978	4,163
65	2,015	1,847	3,862
66	1,862	1,725	3,587
67	1,711	1,601	3,312
68	1,569	1,475	3,044
69	1,438	1,353	2,791
70	1,312	1,235	2,547
71	1,194	1,123	2,317
72	1,080	1,022	2,102
73	976	933	1,909
74	883	857	1,740
75	805	797	1,602
76	746	756	1,502
77	711	733	1,444
78	702	733	1,435
79	727	756	1,483
80 +	3,605	3,588	7,193
Sub total	51,011	46,884	97,895
Total	418,760	390,637	809,397

Source: National Statistics Bureau.Thimphu

TABLE 1.32: PROJECTED POPULATION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2023 - 2025

Age group	2023			2024			2025		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	68,763	34,679	34,084	67,192	33,887	33,305	65,982	33,276	32,706
5-9	78,894	39,814	39,080	76,946	38,834	38,112	74,575	37,641	36,934
10-14	82,065	41,408	40,657	82,163	41,458	40,705	81,911	41,331	40,580
15-19	70,676	35,449	35,227	74,929	37,632	37,297	79,870	40,295	39,575
20-24	64,843	32,943	31,900	63,165	32,044	31,121	61,222	30,849	30,373
25-29	72,317	36,457	35,860	70,720	35,649	35,071	69,126	34,882	34,244
30-34	75,343	37,363	37,980	75,511	37,733	37,778	75,244	37,809	37,435
35-39	71,841	37,750	34,091	72,414	36,872	35,542	72,983	36,347	36,636
40-44	63,577	36,249	27,328	65,858	37,747	28,111	67,761	38,610	29,151
45-49	48,135	25,971	22,164	51,211	27,739	23,472	54,197	29,592	24,605
50-54	37,414	20,224	17,190	38,087	20,553	17,534	39,366	21,222	18,144
55-59	31,172	16,716	14,456	32,810	17,655	15,155	34,072	18,365	15,707
60-64	23,525	12,331	11,194	23,841	12,485	11,356	24,529	12,862	11,667
65-69	19,117	9,941	9,176	19,799	10,306	9,493	20,311	10,572	9,739
70-74	12,320	6,292	6,028	13,038	6,646	6,392	13,756	7,008	6,748
75-79	7,538	3,776	3,762	7,642	3,848	3,794	7,869	3,973	3,896
80+	7,839	3,884	3,955	8,037	3,970	4,067	8,202	4,045	4,157
Total	835,379	431,247	404,132	843,363	435,058	408,305	850,976	438,679	412,297

Source: National Statistics Bureau.Thimphu

TABLE 1.33: PROJECTED POPULATION (NUMBERS) AND PERCENTAGE DISTRIBUTION BY AGE AND SEX, BHUTAN 2025

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	33,276	32,706	65,982	7.6	7.9	7.8
5-9	37,641	36,934	74,575	8.6	9.0	8.8
10-14	41,331	40,580	81,911	9.4	9.8	9.6
15-19	40,295	39,575	79,870	9.2	9.6	9.4
20-24	30,849	30,373	61,222	7.0	7.4	7.2
25-29	34,882	34,244	69,126	8.0	8.3	8.1
30-34	37,809	37,435	75,244	8.6	9.1	8.8
35-39	36,347	36,636	72,983	8.3	8.9	8.6
40-44	38,610	29,151	67,761	8.8	7.1	8.0
45-49	29,592	24,605	54,197	6.7	6.0	6.4
50-54	21,222	18,144	39,366	4.8	4.4	4.6
55-59	18,365	15,707	34,072	4.2	3.8	4.0
60-64	12,862	11,667	24,529	2.9	2.8	2.9
65-69	10,572	9,739	20,311	2.4	2.4	2.4
70-74	7,008	6,748	13,756	1.6	1.6	1.6
75-79	3,973	3,896	7,869	0.9	0.9	0.9
80+	4,045	4,157	8,202	0.9	1.0	1.0
All ages	438,679	412,297	850,976	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.34: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2025

Age	Male	Female	Both sex
0	6,399	6,297	12,696
1	6,501	6,393	12,894
2	6,631	6,518	13,149
3	6,786	6,666	13,452
4	6,959	6,832	13,791
5	7,145	7,012	14,157
6	7,338	7,200	14,538
7	7,532	7,390	14,922
8	7,723	7,577	15,300
9	7,903	7,755	15,658
10	8,065	7,916	15,981
11	8,202	8,052	16,254
12	8,306	8,156	16,462
13	8,369	8,219	16,588
14	8,389	8,237	16,626
15	8,427	8,274	16,701
16	8,426	8,272	16,698
17	8,254	8,105	16,359
18	7,862	7,722	15,584
19	7,326	7,202	14,528
20	6,711	6,604	13,315
21	6,180	6,089	12,269
22	5,880	5,795	11,675
23	5,905	5,816	11,721
24	6,173	6,069	12,242
25	6,510	6,391	12,901
26	6,792	6,663	13,455
Sub total	196,694	193,222	389,916

Age	Male	Female	Both sex
27	7,042	6,906	13,948
28	7,214	7,082	14,296
29	7,324	7,202	14,526
30	7,452	7,313	14,765
31	7,592	7,433	15,025
32	7,654	7,522	15,176
33	7,612	7,576	15,188
34	7,499	7,591	15,090
35	7,322	7,600	14,922
36	7,164	7,571	14,735
37	7,124	7,443	14,567
38	7,252	7,185	14,437
39	7,485	6,837	14,322
40	7,759	6,434	14,193
41	7,943	6,050	13,993
42	7,947	5,734	13,681
43	7,699	5,530	13,229
44	7,262	5,403	12,665
45	6,772	5,305	12,077
46	6,316	5,175	11,491
47	5,878	4,990	10,868
48	5,487	4,726	10,213
49	5,139	4,409	9,548
50	4,772	4,071	8,843
51	4,408	3,769	8,177
52	4,135	3,539	7,674
53	3,985	3,410	7,395
Sub total	181,238	163,806	345,044

Age	Male	Female	Both sex
54	3,922	3,355	7,277
55	3,907	3,332	7,239
56	3,869	3,288	7,157
57	3,764	3,201	6,965
58	3,554	3,045	6,599
59	3,271	2,841	6,112
60	2,966	2,624	5,590
61	2,700	2,433	5,133
62	2,495	2,282	4,777
63	2,378	2,189	4,567
64	2,323	2,139	4,462
65	2,291	2,102	4,393
66	2,238	2,051	4,289
67	2,156	1,979	4,135
68	2,026	1,870	3,896
69	1,861	1,737	3,598
70	1,686	1,595	3,281
71	1,522	1,459	2,981
72	1,380	1,336	2,716
73	1,261	1,229	2,490
74	1,159	1,129	2,288
75	1,061	1,032	2,093
76	956	927	1,883
77	828	806	1,634
78	668	657	1,325
79	460	474	934
80 +	4,045	4,157	8,202
Sub total	60,747	55,269	116,016
Total	438,679	412,297	850,976

Source: National Statistics Bureau.Thimphu

TABLE 1.35: PROJECTED POPULALTION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2026 - 2028

Age group	2026			2027			2028		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0-4	64,877	32,718	32,159	63,920	32,235	31,685	63,154	31,848	31,306
5-9	72,314	36,501	35,813	70,225	35,448	34,777	68,372	34,512	33,860
10-14	81,271	41,010	40,261	80,209	40,476	39,733	78,710	39,722	38,988
15-19	80,757	40,742	40,015	81,430	41,081	40,349	81,842	41,289	40,553
20-24	63,725	32,044	31,681	66,778	33,513	33,265	70,408	35,304	35,104
25-29	67,574	34,176	33,398	66,063	33,501	32,562	64,527	32,774	31,753
30-34	74,496	37,533	36,963	73,329	36,974	36,355	71,872	36,228	35,644
35-39	73,604	36,283	37,321	74,222	36,575	37,647	74,711	37,044	37,667
40-44	69,219	38,720	30,499	70,241	38,173	32,068	70,955	37,263	33,692
45-49	57,062	31,562	25,500	59,819	33,614	26,205	62,376	35,523	26,853
50-54	41,323	22,252	19,071	43,831	23,571	20,260	46,717	25,132	21,585
55-59	34,858	18,789	16,069	35,291	19,001	16,290	35,649	19,161	16,488
60-64	25,676	13,511	12,165	27,201	14,384	12,817	28,887	15,350	13,537
65-69	20,607	10,710	9,897	20,734	10,751	9,983	20,849	10,787	10,062
70-74	14,482	7,384	7,098	15,221	7,775	7,446	15,918	8,146	7,772
75-79	8,224	4,151	4,073	8,678	4,372	4,306	9,201	4,624	4,577
80+	8,341	4,114	4,227	8,470	4,182	4,288	8,611	4,258	4,353
Total	858,410	442,200	416,210	865,662	445,626	420,036	872,759	448,965	423,794

Source: National Statistics Bureau, Thimphu.

TABLE 1.36: PROJECTED POPULATION (NUMBERS) BY AGE GROUP AND SEX, BHUTAN 2029 - 2030

Age group	2029			2030		
	Total	Male	Female	Total	Male	Female
0-4	62,612	31,574	31,038	62,326	31,429	30,897
5-9	66,819	33,727	33,092	65,627	33,124	32,503
10-14	76,772	38,747	38,025	74,410	37,558	36,852
15-19	81,945	41,341	40,604	81,700	41,218	40,482
20-24	74,651	37,481	37,170	79,580	40,136	39,444
25-29	62,864	31,883	30,981	60,938	30,698	30,240
30-34	70,295	35,431	34,864	68,722	34,674	34,048
35-39	74,890	37,417	37,473	74,640	37,499	37,141
40-44	71,540	36,406	35,134	72,121	35,898	36,223
45-49	64,633	37,001	27,632	66,521	37,857	28,664
50-54	49,722	26,856	22,866	52,644	28,665	23,979
55-59	36,320	19,490	16,830	37,570	20,143	17,427
60-64	30,426	16,225	14,201	31,614	16,887	14,727
65-69	21,161	10,940	10,221	21,807	11,290	10,517
70-74	16,506	8,456	8,050	16,954	8,685	8,269
75-79	9,754	4,893	4,861	10,306	5,168	5,138
80+	8,797	4,356	4,441	9,043	4,480	4,563
Total	879,707	452,224	427,483	886,523	455,409	431,114

Source: National Statistics Bureau, Thimphu.

TABLE 1.37: PROJECTED POPULATION (NUMBERS) AND PERCENT DISTRIBUTION BY AGE GROUP AND SEX, BHUTAN 2030

Age	Persons			Percentage		
	Male	Female	Both sex	Male	Female	Both sex
0-4	31,429	30,897	62,326	6.9	7.2	7.0
5-9	33,124	32,503	65,627	7.3	7.5	7.4
10-14	37,558	36,852	74,410	8.2	8.5	8.4
15-19	41,218	40,482	81,700	9.1	9.4	9.2
20-24	40,136	39,444	79,580	8.8	9.1	9.0
25-29	30,698	30,240	60,938	6.7	7.0	6.9
30-34	34,674	34,048	68,722	7.6	7.9	7.8
35-39	37,499	37,141	74,640	8.2	8.6	8.4
40-44	35,898	36,223	72,121	7.9	8.4	8.1
45-49	37,857	28,664	66,521	8.3	6.6	7.5
50-54	28,665	23,979	52,644	6.3	5.6	5.9
55-59	20,143	17,427	37,570	4.4	4.0	4.2
60-64	16,887	14,727	31,614	3.7	3.4	3.6
65-69	11,290	10,517	21,807	2.5	2.4	2.5
70-74	8,685	8,269	16,954	1.9	1.9	1.9
75-79	5,168	5,138	10,306	1.1	1.2	1.2
80+	4,480	4,563	9,043	1.0	1.1	1.0
All ages	455,409	431,114	886,523	100.0	100.0	100.0

Source: National Statistics Bureau.Thimphu

TABLE 1.38: PROJECTED POPULATION (NUMBERS) BY SEX AND SINGLE YEARS OF AGE, BHUTAN 2030

Age	Male	Female	Both sex
0	6,413	6,313	12,726
1	6,292	6,189	12,481
2	6,232	6,125	12,357
3	6,225	6,116	12,341
4	6,267	6,154	12,421
5	6,348	6,231	12,579
6	6,462	6,342	12,804
7	6,605	6,480	13,085
8	6,766	6,639	13,405
9	6,943	6,811	13,754
10	7,130	6,994	14,124
11	7,322	7,183	14,505
12	7,515	7,374	14,889
13	7,706	7,562	15,268
14	7,885	7,739	15,624
15	8,046	7,900	15,946
16	8,182	8,034	16,216
17	8,283	8,136	16,419
18	8,345	8,198	16,543
19	8,362	8,214	16,576
20	8,398	8,249	16,647
21	8,394	8,247	16,641
22	8,221	8,077	16,298
23	7,828	7,696	15,524
24	7,295	7,175	14,470
25	6,681	6,579	13,260
26	6,151	6,064	12,215
Sub total	196,297	192,821	389,118

Age	Male	Female	Both sex
27	5,851	5,769	11,620
28	5,875	5,788	11,663
29	6,140	6,040	12,180
30	6,474	6,358	12,832
31	6,755	6,628	13,383
32	7,000	6,867	13,867
33	7,170	7,039	14,209
34	7,275	7,156	14,431
35	7,399	7,263	14,662
36	7,534	7,379	14,913
37	7,592	7,463	15,055
38	7,545	7,513	15,058
39	7,429	7,523	14,952
40	7,247	7,525	14,772
41	7,086	7,493	14,579
42	7,038	7,358	14,396
43	7,154	7,099	14,253
44	7,373	6,748	14,121
45	7,631	6,344	13,975
46	7,802	5,957	13,759
47	7,794	5,638	13,432
48	7,536	5,429	12,965
49	7,094	5,296	12,390
50	6,598	5,190	11,788
51	6,135	5,053	11,188
52	5,692	4,863	10,555
53	5,296	4,596	9,892
Sub total	187,515	173,375	360,890

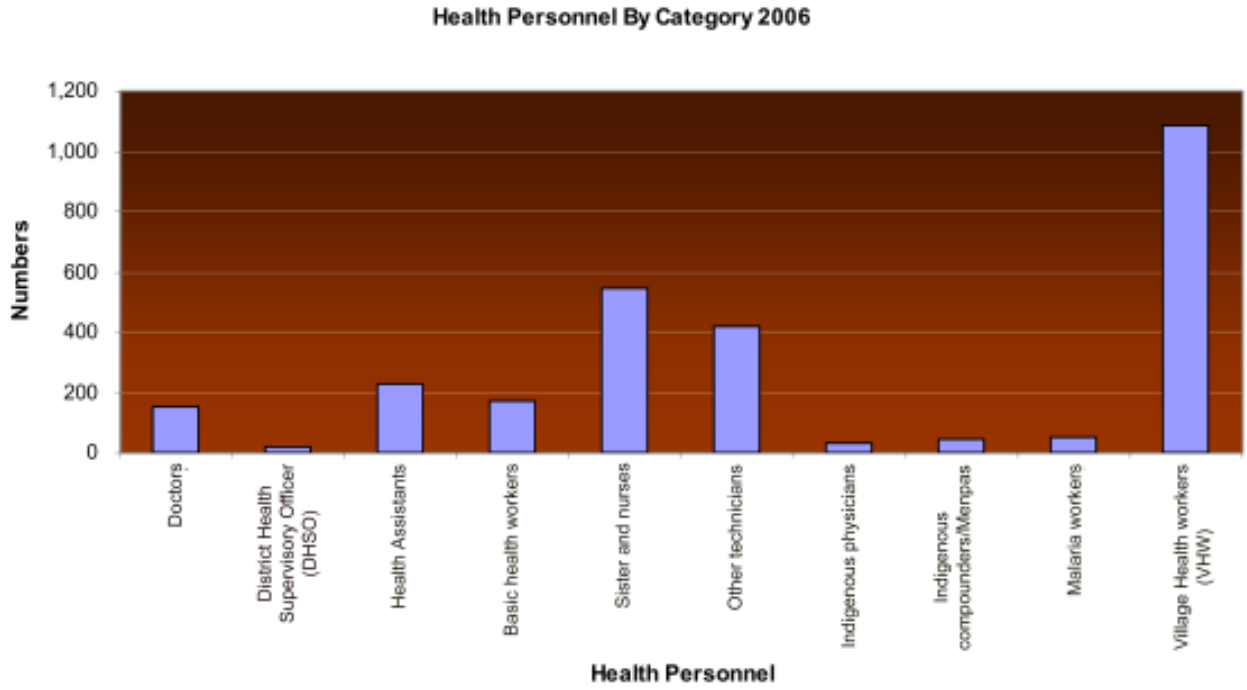
Age	Male	Female	Both sex
54	4,944	4,277	9,221
55	4,575	3,939	8,514
56	4,207	3,634	7,841
57	3,925	3,399	7,324
58	3,760	3,262	7,022
59	3,676	3,193	6,869
60	3,638	3,156	6,794
61	3,581	3,100	6,681
62	3,461	3,002	6,463
63	3,244	2,838	6,082
64	2,963	2,631	5,594
65	2,662	2,410	5,072
66	2,397	2,215	4,612
67	2,188	2,056	4,244
68	2,058	1,951	4,009
69	1,985	1,885	3,870
70	1,932	1,830	3,762
71	1,867	1,767	3,634
72	1,770	1,678	3,448
73	1,638	1,564	3,202
74	1,478	1,430	2,908
75	1,307	1,284	2,591
76	1,139	1,138	2,277
77	995	1,004	1,999
78	888	894	1,782
79	839	818	1,657
80 +	4,480	4,563	9,043
Sub total	71,597	64,918	136,515
Grand	455,409	431,114	886,523

Source: National Statistics Bureau.Thimphu

CHAPTER 2
HEALTH

Since the time when the Health care facilities in Bhutan were first established in 1962, there has been continuous efforts in improving the modern medical facilities. The Ministry of Health has now a wide spread network of Health Facilities, covering around 90% of the total population. Institutional health facilities were earlier concentrated in the urban 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 system through an organized structure placed at the National, Regional and Dzongkhag Hospitals serving as Referral Centers followed by the Basic Health Units (BHUs) at the Community Level. Basic health units (BHUs) serve remote areas staffed by well-trained paramedical personnel who are equipped to treat minor ailments, and advise on preventive measures to avoid the spread of communicable diseases.

Extended Health Centers (Outreach Clinics) and Mobile Health Units support these BHUs.



There are also a number of special health programs in Bhutan administered by the Ministry of Health. These cover Child Health and Immunization Program, Reproductive Health Program, Acute Respiratory Infection (ARI) Program, National Control of Diarrhoeal Disease Program (NCDDP), National STD/AIDS Control Program, Rural Water Supply & Sanitation Program (RWSS), Village Health

Workers Program (VHW), National Leprosy Program, National Malaria Control Program (NMCP) and Mental Health Program. As of 2006, there were 29 hospitals, 176 BHUs and over 514 Outreach Clinics spread over 201 gewogs providing primary health care services. A total of 2,749 health personnel of different categories serve in different hospitals.

Besides the allopathic system, there exists a well established network of Indigenous Medical Facilities under the Institute of Traditional Medical Services that has basically three functions; medical services for out patients; collection and manufacturing of indigenous medicines;

and research and training of the Physicians (Drungtsho) and Compounders (Menpas).

The main indicators of the health status of the population are morbidity and mortality. Morbidity refers to the type of illness people suffer from, while mortality relates to death rates and causes of death. The Department of Public Health has been conducting the National Health Surveys every five years, which is the source for mortality statistics. Over all level of mortality have been estimated from the Demographic Sample Surveys, but causes of death data have not yet become available. Efforts are under way to improve the vital registration system. Morbidity data are obtained from the patients' records in hospitals and Basic Health Units whose data are presented in the annual publication "Annual Health Bulletins". The available morbidity statistics are based on patients treated by hospitals, basic health units and dispensaries.

General health conditions in Bhutan are affected by low nutrition intake, poor sanitation, high prevalence of parasitic infections and contagious diseases. Acute Respiratory Infection continues to dominate entire morbidity situation. There is also a rising condition of the non- Communicable diseases.

Water and Sanitation Facility by type, Bhutan 2006

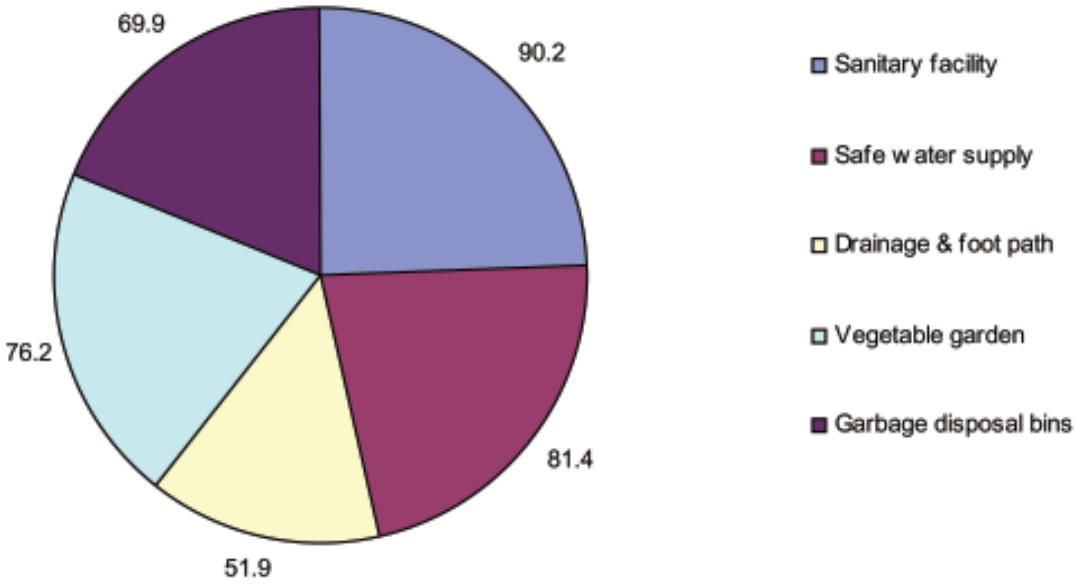


TABLE 2.1: SUMMARY OF THE HEALTH FACILITIES AND PERSONNEL, BHUTAN, 2001 TO 2006

Facilities	2001	2002	2003	2004	2005	2006
Number of hospitals	29	29	29	29	29	29
Number of basic health units	168	166	172	176	176	176
Number of dispensaries/outreach clinic	461	455	440	476	485	514
Number of indigenous hospitals	1	1	1	1	1	1
Number of indigenous dispensaries	19	19	19	21	21	21
Number of doctors	114	122	140	144	145	150
Persons per doctor*	7,476	5,872	5,245	5,227	4,379	4,312
Number of hospital beds	1,023	1,023	1,093	1,113	1,078	1,133
Persons per hospital bed	683	700	672	676	589	570.9
Doctors per 10,000 persons	1.3	1.7	1.9	1.9	2.3	2.3
Hospital bed per 10,000 persons	15	14	15	15	17	17.5
Population covered by health care (%)	90	90	90	90	90	90
Population access to safe drinking water (%)	68	n.a	71	n.a	84	81.4
Women attended by trained personnel during child birth (%)	n.a	24	46.7	53.6	52.3	57.1

Note:

Includes doctors in adminstrative services, non-nationals and attachments.

* The Persons per doctor for the year 2005 and thereafter is calculated based on the population figures of PHCB 2005, while earlier ones were based on the NSB estimates.

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.2: TYPE OF HEALTH FACILITIES IN DZONGKHAGS,BHUTAN,2006

(Number)

Dzongkhag	Hospitals	Basic health unit	Outreach clinic
Bumthang	1	3	14
Chhukha	3	8	47
Dagana	0	8	18
Gasa	0	4	8
Ha	1	4	15
Lhuentse	1	10	32
Monggar	1	22	54
Paro	1	3	27
Pemagatshel	1	10	38
Punakha	1	5	9
Samdrupjongkhar	2	7	20
Samtse	3	9	18
Sarpang	2	10	17
Thimphu	4	10	19
Trashigang	3	21	57
Trashiyangtse	1	8	25
Trongsa	1	7	21
Tsirang	1	4	13
Wangdue	1	10	24
Zhemgang	1	13	38
Bhutan	29	176	514

Note:

BHU's figure excludes those centres which are not functioning.

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.3: HEALTH PERSONNEL BY CATEGORY, BHUTAN, 2001 TO 2006

(Number)

Health personnel	2001	2002	2003	2004	2005	2006
Doctors	114	122	140	135	145	150
District Health Supervisory Officer (DHSO)	23	27	24	23	22	22
Health Assistants	163	173	144	201	171	229
Basic health workers	176	175	172	171	210	173
Sister and nurses	569	500	501	510	524	548
B.Sc Nurses	n.a	5	8	12	14	39
General Nurse Midwife/Staff Nurses (GNM)	n.a	174	173	183	202	200
Auxiliary Nurse Midwife (ANM)	n.a	145	144	140	134	134
Assistant Nurses	n.a	176	176	175	174	174
Other technicians	259	252	29	368	438	420
Indigenous physicians	31	32	29	31	30	30
Indigenous compounders/Menpas	23	23	26	26	36	42
Malaria workers	59	66	47	47	48	48
Village Health workers (VHW)	n.a	n.a	1,097	1,201	1,200	1,087

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.4: TOP TEN MORBIDITY, BHUTAN, 2006

Priority health problem/Disease	Number
Common cold	292,142
Skin Infections	115,586
Diarrhoea	70,939
Peptic Ulcer Syndrome	67,504
Acute Pharyngitis/Tonsilitis	63,669
Other disorders of skin & Subcutaneous-tissues	63,190
Other Musculo-skeletal disorders	58,864
Other Diseases of the Digestive System	49,334
Other Respiratory & Nose Diseases	43,023
Conjunctivitis	41,977

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.5: TOP TEN INDOOR HOSPITAL MORTALITY, BHUTAN, 2006

Priority health problem/Disease	Number
Alcohol Liver Diseases	96
Other Circulatory Diseases	87
Neonatal Death	73
Other Infections (excluding ear, brain, STI)	48
Other Respiratory & nose Diseases	46
Other Diseases of the Digestive System	46
Other Cancers	45
Pneumonia	44
Other Kidney, UT / Genital Disorders	27
Injuries & Poisoning	22

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.6: MORBIDITY CASES REPORTED FROM BASIC HEALTH UNITS, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & older		Total
	Male	Female	Male	Female	
Cholera	4	7	9	16	36
Typhoid	19	9	206	202	436
Diarrhoea	6,876	5,484	12,640	11,896	36,896
Dysentery	2,356	2,349	6,089	5,480	16,274
Tetanus	10	5	18	19	52
Diphtheria	n.a	n.a	n.a	n.a	n.a
Pertussis	n.a	n.a	n.a	n.a	n.a
Early Syphilis	n.a	n.a	37	22	59
Sexually Transmitted Disease, excluding HIV/AIDS	n.a	n.a	512	381	893
Polio	n.a	n.a	n.a	n.a	n.a
Rabies	3	n.a	12	5	20
Viral, Protozoal & Helminthic disease					
Measels	1	2	1	n.a	4
Viral Hepatitis	22	15	63	74	174
Plasmodium falciparum malaria	16	6	183	98	303
Other malaria	19	23	183	100	325
Intestinal Worms	1,453	1,493	3,665	4,206	10,817
Scabies	659	655	4,328	3,235	8,877
Other Infections (excluding ear, brain, STI)	348	331	1,852	1,954	4,485
Blood diseases					
Nutritional Anaemia	90	121	1,339	4,128	5,678
Blood & Immune Disorders	16	17	184	186	403
Endocrine, Metabolic & Nutritional					
Malnutrition (exclude child clinic attendance)	96	127	293	437	953
Mental disorders					
Other Mental Disorders	n.a	4	115	115	234
Disease of Nervous syatem					
Meningitis/Encephalitis	n.a	n.a	8	4	12
Other Nervous including Peripheral Disorders	100	115	5,347	8,724	14,286
Eye & Ear Diseses					
Conjunctivities	1,717	1,862	8,393	12,259	24,231
Other Eye Disorders	508	564	5,368	7,182	13,622
Otitis Media	1,431	1,402	3,042	3,162	9,037
Other Ear Disorders	338	317	1,553	1,769	3,977
Disease of Circulatory System					
Hypertension	n.a	n.a	2,425	3,603	6,028
Other Circulatory Diseases	37	45	694	1,073	1,849
Respiratory diseases					
Common Cold	12,926	13,908	56,602	69,321	152,757
Acute Pharyngitis/Tonsilitis	1,561	1,779	10,607	12,951	26,898
Pneumonia	2,168	2,180	711	692	5,751
Other Respiratory & Nose Disesses	1,163	1,252	6,167	7,541	16,123

(contd..)

TABLE 2.6 (contd.) MORBIDITY CASES REPORTED FROM BASIC HEALTH UNITS, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & Older		Total
	Male	Female	Male	Female	
Disease of the Digestive system					
Dental Cares	242	264	3,563	4,351	8,420
Diseases of Teeth & Gums	235	283	2,889	3,341	6,748
Peptic Ulcer Syndrome	62	166	12,231	18,263	30,722
Alcohol Liver Diseases	n.a	n.a	119	95	214
Other Diseases of the Digestive System	1,032	1,164	7,011	8,516	17,723
Skin Diseases					
Skin Infections	5,623	5,748	24,854	22,663	58,888
Other Disorders of Skin & Subcutaneous	1,916	2,074	10,912	10,645	25,547
Diseases of Musculo-skeletal system & Cogenital deformities					
Arthritis & Arthrosis	46	33	2,931	3,291	6,301
Other Musculo-skeletal disorders	139	177	10,683	11,874	22,873
Genito-Urinary diseases					
Infection of Breasts including Puerperium	1	4	17	355	377
Other Disease of the Breast	1	2	17	621	641
Menstrual Distrubances	n.a	n.a	n.a	1,940	1,940
Other Kidney, UT/Genital Disorders	233	254	2,597	6,092	9,176
Pregnancy, Childbirth and Puerperium					
Abortions	n.a	n.a	n.a	91	91
Pregnancy Included Hypertension	n.a	n.a	n.a	19	19
Ante-Partum Haemorrhage & Placenta Previa	n.a	n.a	n.a	15	15
Malpresentation	n.a	n.a	n.a	11	11
Prolonged Labour	n.a	n.a	n.a	72	72
Obstructed Labour	n.a	n.a	n.a	11	11
Post Partum Haemorrhage	n.a	n.a	n.a	66	66
Retained Placenta	n.a	n.a	n.a	90	90
Puerperal Sepsis	n.a	n.a	n.a	23	23
Other complications of pregnancy	n.a	n.a	n.a	188	188
Perinatal Conditions					
Low Birth Weight	32	17	n.a	n.a	49
Foetal Death & Stillbirth	17	5	n.a	n.a	22
Noenatal Death	10	9	n.a	n.a	19
Conditions Orginating in the Perinatal Period	3	4	n.a	n.a	7
Malformations					
Malformations	2	n.a	3	4	9
Injuries & Trauma					
Burns & Corrosions	338	337	716	503	1,894
Injuries & Poisoning	355	321	5,172	2,172	8,020
Transport Accidents	10	8	310	132	460
Bites & Stings	222	230	1,754	1,297	3,503
Other External cause of Injury	325	302	5,071	2,214	7,912
Work related injuries	90	120	5,046	2,047	7,303
Complications of Health Care	23	21	226	208	478
ANC, Immunisation & Other counselling	1,284	1,444	3,641	8,207	14,576
Total	46,178	47,059	232,409	270,252	595,898

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.7: HOSPITAL MORBIDITY CASES REPORTED, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & older		Total
	Male	Female	Male	Female	
Cholera	n.a	n.a	1	1	2
Typhoid	125	119	1,033	1,158	2,435
Diarrhoea	6,796	6,407	11,625	9,215	34,043
Dysentery	2,743	2,750	5,718	4,146	15,357
Tuberclosis	8	19	535	358	920
Tetanus	n.a	n.a	5	2	7
Diphtheria	n.a	n.a	n.a	n.a	n.a
Pertussis	n.a	n.a	n.a	n.a	n.a
Early Syphilis	2	2	21	9	34
Sexually Transmitted Disease, excluding HIV/AIDS	2	1	443	236	682
Polio	n.a	n.a	n.a	n.a	n.a
Rabies	n.a	1	4	1	6
Viral, Protozoal & Helminthic disease					
Measels	5	5	6	1	17
Viral Hepatitis	64	88	305	187	644
Plasmodium falciparum malaria	38	59	583	323	1,003
Other malaria	40	55	611	266	972
Intestinal Worms	1,409	1,478	2,608	2,326	7,821
Scabies	1,144	1,201	4,310	2,968	9,623
Other Infections (excluding ear, brain, STI)	718	821	3,253	2,667	7,459
Neoplasm					
Cervical Cancer	n.a	3	n.a	46	49
Other Cancers	5	7	291	235	538
Neoplasm (benign + CIS)	6	1	30	46	83
Blood diseases					
Nutritional Anaemia	273	318	1,434	3,530	5,555
Blood & Immune Disorders	48	33	164	184	429
Endocrine, Metabolic & Nutritional					
Diabetes	n.a	3	780	687	1,470
Malnutrition (exclude child clinic attendance)	86	134	81	69	370
Other Nutritional & Metabolic Disorders	143	198	891	1,009	2,241

Contd..

TABLE 2.7 (contd.): HOSPITAL MORBIDITY CASES REPORTED, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & older		Total
	Male	Female	Male	Female	
Mental Disorders					
Psychosis	1	n.a	52	77	130
Depression	1	3	206	314	524
Anxiety	4	1	138	159	302
Other Mental Disorders	1	3	257	239	500
Disease of Nervous system					
Meningitis/Encephalitis	14	16	52	71	153
Epilepsy	32	17	654	502	1,205
Other Nervous including Peripheral Disorders	123	119	2,660	3,132	6,034
Eye & Ear Diseases					
Conjunctivities	1,804	1,822	7,319	6,801	17,746
Cataract	10	14	533	410	967
Other Eye Disorders	740	876	8,764	8,731	19,111
Otitis Media	1,503	1,562	4,275	3,840	11,180
Other Ear Disorders	567	594	2,715	2,486	6,362
Diseases of Circulatory System					
Rheumatic Heart Diseases	9	9	531	503	1,052
Hypertension	n.a	n.a	6,313	8,160	14,473
Ischaemic Heart Diseases	n.a	n.a	51	43	94
Cerebro-vascular Diseases	4	1	89	90	184
Other Circulatory Diseases	108	120	1,074	1,116	2,418
Respiratory diseases					
Common Cold	19,104	19,441	52,522	48,318	139,385
Acute Pharyngitis/Tonsilitis	3,251	3,371	14,635	15,514	36,771
Pneumonia	3,988	3,645	2,121	1,900	11,654
Other Respiratory & Nose Disesses	3,320	3,284	10,183	10,113	26,900
Disease of the Digestive system					
Dental Caries	754	795	9,630	10,269	21,448
Diseases of Teeth & Gums	550	628	3,685	3,429	8,292
Peptic Ulcer Syndrome	107	155	16,504	20,016	36,782
Acute Appendicitis	1	4	386	354	745
Alcohol Liver Diseases	n.a	n.a	792	525	1,317
Gall Bladder Diseases	21	33	335	719	1,108
Other Diseases of the Digestive system	1,740	1,845	14,542	13,484	31,611
Skin Diseases					
Skin Infections	6,929	6,770	24,696	18,303	56,698
Other Disorders of Skin & Subcutaneous	3,713	3,756	16,801	13,373	37,643
Diseases of Musculo-skeletal system & Cogenital deformities	37	40	3,616	2,991	6,684

contd..

TABLE 2.7 (contd.): HOSPITAL MORBIDITY CASES REPORTED, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & older		Total
	Male	Female	Male	Female	
Arthritis & Arthrosis	37	40	3,616	2,991	6,684
Other Musculo-skeletal disorders	329	380	20,027	15,255	35,991
Genito-Urinary Diseases					
Cystitis	10	19	286	690	1,005
Infection of Breasts, including Puerperium	2	n.a	6	462	470
Other Disease of the Breast	1	n.a	26	797	824
Pelvic Inflammatory Disease	n.a	n.a	n.a	1,555	1,555
Menstrual Disturbances	n.a	n.a	n.a	2,118	2,118
Other Kidney, UT/Genital Disorders	395	333	4,763	9,993	15,484
Pregnancy, Childbirth and Puerperium					
Abortions	n.a	n.a	n.a	720	720
Pregnancy Included Hypertension	n.a	n.a	n.a	434	434
Ante-Partum Haemorrhage & Placenta Previa	n.a	n.a	n.a	116	116
Malpresentation	n.a	n.a	n.a	109	109
Prolonged Labour	n.a	n.a	n.a	185	185
Obstructed Labour	n.a	n.a	n.a	67	67
Post Partum Haemorrhage	n.a	n.a	n.a	102	102
Retained Placenta	n.a	n.a	n.a	158	158
Puerperal Sepsis	n.a	n.a	n.a	83	83
Other complications of pregnancy	n.a	n.a	n.a	4,268	4,268
Perinatal Conditions					
Low Birth Weight	72	81	n.a	n.a	153
Foetal Death & Stillbirth	17	26	n.a	n.a	43
Noenatal Death	46	38	n.a	n.a	84
Conditions Orginating in the Perinatal Period	312	272	n.a	n.a	584
Malformations					
Malformations	55	28	25	18	126
Injuries & Trauma					
Burns & Corrosions	388	408	948	686	2,430
Injuries & Poisoning	829	703	8,984	3,662	14,178
Transport Accidents	55	63	753	300	1,171
Bites & Stings	426	429	2,134	1,464	4,453
Other External cause of Injury	395	403	4,243	1,842	6,883
Work related injuries	97	112	3,266	1,336	4,811
Complications of Health Care	41	40	225	234	540
ANC, Immunisation & Other counselling	2,682	2,938	3,731	11,539	20,890
Total	68,280	68,940	293,896	286,836	717,952

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.8: HOSPITAL INDOOR MORBIDITY REPORT, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & old		Total	Refferals		Deaths
	Male	Female	Male	Female		In	Out	
Cholera	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Typhoid	18	19	327	373	737	37	25	1
Diarrhoea	275	251	342	276	1,144	31	7	3
Dysentery	75	72	139	143	429	33	7	2
Tuberculosis	4	11	418	269	702	197	46	19
Tetanus	n.a	n.a	3	n.a	3	1	1	1
Diphtheria	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Pertussis	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Early Syphilis	2	2	n.a	1	5	n.a	n.a	n.a
Sexually Transmitted Disease, excluding HIV/AIDS	1	n.a	18	10	29	2	n.a	n.a
Polio	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
Rabies	n.a	n.a	3	1	4	2	n.a	2
Viral, Protozoal & Helminthic disease								
Measels	n.a	n.a	4	1	5	n.a	n.a	n.a
Viral Hepatitis	11	21	96	55	183	16	9	6
Plasmodium falciparum malaria	14	25	299	161	499	25	3	6
Other malaria	13	21	223	88	345	12	3	1
Intestinal Worms	6	5	25	22	58	4	2	n.a
Scabies	15	13	49	35	112	2	n.a	n.a
Other Infections (excluding ear, brain, STI)	98	85	412	279	874	64	12	48
Neoplasm								
Cervical Cancer	n.a	3	n.a	46	49	14	2	n.a
Other Cancers	5	7	291	235	538	123	17	45
Neoplasm (benign+CIS)	6	1	30	46	83	7	n.a	4
Blood diseases								
Nutritional Anaemia	19	23	103	228	373	35	14	1
Blood & Immune Disorders	8	3	52	47	110	18	14	4
Endocrine, Metabolic & Nutritional								
Diabetes	n.a	2	122	88	212	39	20	7
Malnutrition (exclude child clinic attendance)	27	41	13	14	95	16	9	2
Other Nutritional & Metabolic Disorders	12	12	54	61	139	8	6	4
Mental Disorders								
Psychosis	1	n.a	29	40	70	13	6	n.a
Depression	1	3	46	54	104	30	5	1
Anxiety	1	1	39	44	85	14	1	n.a
Other Mental Disorders	1	1	94	71	167	20	10	5

contd..

TABLE 2.8(contd.): HOSPITAL INDOOR MORBIDITY REPORT, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & older		Total	Refferals		Deaths
	Male	Female	Male	Female		In	Out	
Disease of Nervous system								
Meningitis/Encephalitis	13	13	31	40	97	25	25	18
Epilepsy	15	9	104	56	184	18	9	2
Other Nervous including Peripheral Disorders	48	29	190	115	382	46	38	10
Eye & Ear Diseses								
Conjunctivities	9	11	74	72	166	1	n.a	n.a
Cataract	n.a	n.a	212	183	395	13	3	n.a
Other Eye Disorders	20	12	206	213	451	40	12	n.a
Otitis Media	18	21	82	72	193	8	1	n.a
Other Ear Disorders	10	9	65	44	128	3	5	n.a
Diseases of Circulatory System								
Rheumatic Heart Diseases	2	6	105	89	202	63	31	13
Hypertension	n.a	n.a	534	465	999	56	40	14
Ischaemic Heart Diseases	n.a	n.a	27	19	46	5	7	3
Cerebro-vascular Diseases	4	1	45	43	93	24	16	14
Other Circulatory Diseases	29	24	312	257	622	105	80	87
Respiratory diseases								
Common Cold	351	374	706	688	2,119	12	3	2
Acute Pharyngitis/Tonsilitis	78	64	246	300	688	8	2	1
Pneumonia	1,270	1,057	313	304	2,944	122	45	44
Other Respiratory & Nose Disesses	645	491	1,020	1,002	3,158	219	109	46
Disease of the Digestive system								
Dental Caries	9	8	144	147	308	4	1	n.a
Diseases of Teeth & Gums	6	5	22	26	59	5	2	n.a
Peptic Ulcer Syndrome	8	9	482	731	1,230	77	30	1
Acute Appendicitis	1	4	227	199	431	126	66	2
Alcohol Liver Diseases	n.a	n.a	453	304	757	120	57	96
Gall Bladder Diseases	7	10	188	443	648	63	25	4
Other Diseases of the Digestive syster	233	176	1,208	1,066	2,683	235	169	46
Skin Diseases								
Skin Infections	161	155	517	363	1,196	41	13	n.a
Other Disorders of Skin & Subcutanec	141	102	589	463	1,295	86	36	2
Diseases of Musculo-skeletal system & Cogenital deformities								
Arthritis & Arthrosis	4	4	124	85	217	21	15	n.a
Other Musculo-skeletal disorders	43	37	697	479	1,256	142	82	1

Contd.

TABLE 2.8(contd.): HOSPITAL INDOOR MORBIDITY REPORT, BHUTAN, 2006

(Number)

Disease Name/Infections	Under 5 years		5 years & older		Total	Refferals		Deaths
	Male	Female	Male	Female		In	Out	
Genito-Urinary Diseases								
Cystitis	4	5	44	122	175	14	3	n.a
Infection of Breasts, including Puerperi	1	n.a	3	68	72	4	1	n.a
Other Disease of the Breast	1	n.a	8	62	71	1	5	n.a
Pelvic Inflammatory Disease	n.a	n.a	n.a	202	202	20	12	n.a
Menstrual Disturbances	n.a	n.a	n.a	125	125	8	7	n.a
Other Kidney, UT/Genital Disorders	88	46	860	1,420	2,414	312	137	27
Pregnancy, Childbirth and Puerperium								
Abortions	n.a	n.a	n.a	614	614	61	30	n.a
Pregnancy Included Hypertension	n.a	n.a	n.a	326	326	60	42	1
Ante-Partum Haemorrhage & Placenta Previa	n.a	n.a	n.a	98	98	19	15	n.a
Malpresentation	n.a	n.a	n.a	97	97	25	22	n.a
Prolonged Labour	n.a	n.a	n.a	179	179	41	55	n.a
Obstructed Labour	n.a	n.a	n.a	63	63	17	7	n.a
Post Partum Haemorrhage	n.a	n.a	n.a	90	90	26	10	2
Retained Placenta	n.a	n.a	n.a	143	143	17	12	1
Puerperal Sepsis	n.a	n.a	n.a	60	60	9	6	1
Other complications of pregnancy	n.a	n.a	n.a	3,854	3,854	364	176	n.a
Perinatal Conditions								
Low Birth Weight	65	75	n.a	n.a	140	12	7	2
Foetal Death & Stillbirth	16	26	n.a	n.a	42	7	1	13
Noenatal Death	43	37	n.a	n.a	80	n.a	1	73
Conditions Orginating in the Perinatal Period	302	265	n.a	n.a	567	30	20	10
Malformations								
Malformations	52	28	25	17	122	16	7	6
Injuries & Trauma								
Burns & Corrosions	49	30	108	66	253	43	30	5
Injuries & Poisoning	96	72	1,138	477	1,783	399	177	22
Transport Accidents	11	7	334	118	470	57	65	6
Bites & Stings	8	4	109	63	184	18	9	2
Other External cause of Injury	26	19	356	165	566	41	44	4
Work related injuries	4	7	285	144	440	17	35	n.a
Complications of Health Care	n.a	n.a	12	23	35	2	6	1
ANC, Immunisation & Other counsellin	3	6	119	881	1,009	29	8	n.a
Total	4,507	3,880	15,555	20,433	44,375	4,120	2,091	744

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.9: NUMBER OF PATIENTS REPORTED IN DIFFERENT HOSPITALS, BHUTAN, 2001 TO 2006

Hospital	2001	2002	2003	2004	2005	2006
Government hospitals	521.4	274.9	293.7	318.3	345.4	n.a
Bumthang	12.5	14.6	19.9	14.4	19.3	n.a
Geylegphug	59.8	26.9	23.9	30.4	39.7	n.a
Lhuentse	10.3	10.7	8.8	8.2	10.1	n.a
Monggar	23.2	16.0	14.1	21.7	19.8	n.a
Paro	25.8	24.9	24.3	27.3	48.5	n.a
Pemagatshel	15.6	10.6	17.1	17.3	15.7	n.a
Phuentsholing	60.0	26.1	28.1	29.2	26.9	n.a
Punakha	43.7	29.1	24.3	27.0	27.5	n.a
Samdrup Jongkhar	18.4	13.6	17.2	18.3	14.8	n.a
Samtse	35.9	17.3	16.8	18.8	20.7	n.a
Sarpang	27.8	16.0	21.4	26.1	19.1	n.a
Sibsoo	11.7	12.3	10.6	13.2	13.0	n.a
Trashi Yangtse	11.6	7.5	8.0	8.7	8.3	n.a
Thimphu	78.2	0	0	0	0	n.a
Trashigang	23.4	9.9	12.7	12.9	17.6	n.a
Trongsa	14.1	10.8	12.8	5.0	8.3	n.a
Tshimalakha	21.4	13.2	16.4	19.4	19.4	n.a
Tsirang	28.0	15.4	17.3	20.4	16.7	n.a

contd..

TABLE 2.9(contd.): NUMBER OF PATIENTS REPORTED IN DIFFERENT HOSPITALS, BHUTAN, 2001 TO 2006

Hospital	2001	2002	2003	2004	2005	2006
Leprosy mission hospitals	19.4	26.8	21.7	28.9	28.3	n.a
Gidakom	5.2	9.2	7.9	11.4	11.5	n.a
Riserboo	3.6	7.7	6.2	8.2	9.2	n.a
Yebilaptsa (Zhemgang)	10.6	9.9	7.6	9.3	7.6	n.a
Army hospitals	16.7	47.6	5.8	39.9	25.5	n.a
Lungtenphug	n.a	n.a	n.a	10.3	9.2	n.a
Wangdiphodrang	16.7	19.4	n.a	29.6	16.3	n.a
Yonphula	n.a	12.3	5.8	n.a	n.a	n.a
Imtrat (Ha)	n.a	15.9	n.a	n.a	n.a	n.a
Others	18.3	48.1	12.8	14.0	11.8	n.a
Dantak (Deothang)	18.3	11.6	12.8	14.0	11.8	n.a
IBFH (Thimphu)	n.a	36.5	n.a	n.a	n.a	n.a
Project hospitals	30.4	25.2	28.1	27.7	25.2	n.a
Gomtu	30.4	25.2	28.1	27.7	25.2	n.a
Indigenous hospital	35.6	n.a	n.a	32.4	n.a	n.a
Indigenous dispensary	62.5	n.a	n.a	68.3	n.a	n.a
All hospitals (b)	704.3	422.6	362.1	529.5	436.2	n.a

Note:

Comparisons over time may be affected by different coverage in each year

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.10: EPI COVERAGE IN PERCENTAGE BY DZONGKHAG, BHUTAN, 2006

Dzongkhag	BCG	MEASLES	DPT3/HEP 3	OPV 3
Bumthang	265	348	334	334
Chhukha	1,230	1,421	1,553	1,553
Dagana	314	357	340	342
Gasa	51	74	83	88
Ha	168	204	212	212
Lhuentse	327	368	363	361
Monggar	977	804	947	947
Paro	451	603	646	646
Pemagatshel	279	285	313	313
Punakha	359	388	412	413
Samdrupjongkhar	930	848	909	909
Samtse	1,203	1,229	1,249	1,252
Sarpang	1,035	844	965	968
Thimphu	3,166	2,127	2,005	2,128
Trashigang	898	898	977	977
Trashiyangtse	379	381	408	400
Trongsa	228	269	271	275
Tsirang	318	372	350	350
Wangdue	587	573	693	693
Zhemgang	319	384	370	370
Bhutan	13,484	12,777	13,400	13,531

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.11: DETAILS OF CHILD GROWTH MONITORING IN IMMUNIZATION CLINICS, BHUTAN, 2002 TO 2006

Details	2002	2003	2004	2005	2006
Children weighed(nos)	122,753	128,083	150,416	161,004	174,149
Child malnutrition(nos)	116,016	11,153	13,915	44,176	16,788
Degree I	106,141	9,253	11,616	12,592	14,240
Degree II	8,155	1,601	1,902	2,093	2,120
Degree III	1,720	299	397	410	428
Over weight	n.a	n.a	n.a	29,081	39,926

TABLE 2.12: DETAILS OF MATERNAL AND CHILD HEALTH CARE SERVICES, BHUTAN, 2002 TO 2006

Type of care	2002	2003	2004	2005	2006
Maternal health care attendence(a)	39,190	50,073	58,804	54,142	48,859
Antenatal	39,190	50,073	58,804	54,142	48,859
Postnatal	n.a	n.a	n.a	n.a	n.a
Deliveries attended	3,826	6,174	7,284	6,957	7,675
Home	n.a	2,291	2,125	1,629	1,317
Hospital/Basic Health Units	3,826	3,883	5,159	5,328	6,358
Child health care attendance	264,824	130,711	150,416	161,004	171,135
First visit	39,359	15,114	15,231	15,090	14,589
Re-visit	225,465	115,597	135,185	145,914	156,546
Malnourished children (b)	404	11,452	14,312	15,095	16,788
All malnourished	n.a	11,153	13,915	15,095	16,788
Third degree	404	299	397	n.a	428

Notes:

(a) Refers to total attendance, not comprehensive cases

(b) Children attending health units are classified according to three degrees of malnourishment;
Third degree malnourishment refers to the most severe cases.

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.13: DETAILS OF MATERNAL HEALTH CARE ACTIVITIES BY DZONGKHAG, BHUTAN, 2003 TO 2006

(Number)

Dzongkhag	2003	2004	2005	2006
Bumthang				
Antenatal	719	1,233	1,289	1,141
Postnatal	..	..	..	..
Reported deliveries	277	280	281	233
Trained deliveries	97	148	169	154
Chhukha				
Antenatal	6,850	7,778	6,651	5,508
Postnatal	..	..	..	..
Reported deliveries	1,582	1,641	1,701	1,330
Trained deliveries	609	672	477	539
Dagana				
Antenatal	849	936	971	1,003
Postnatal	..	..	..	..
Reported deliveries	472	405	411	396
Trained deliveries	244	166	82	58
Gasa				
Antenatal	155	134	134	188
Postnatal	..	..	..	..
Reported deliveries	45	49	50	47
Trained deliveries	9	17	21	28
Ha				
Antenatal	342	495	502	579
Postnatal	..	..	..	..
Reported deliveries	130	177	178	189
Trained deliveries	18	53	52	46
Lhuentse				
Antenatal	821	963	1,154	1,098
Postnatal	..		..	..
Reported deliveries	364	343	347	403
Trained deliveries	136	94	138	178
Monggar				
Antenatal	2,094	2,422	2,395	3,021
Postnatal	..	..	..	..
Reported deliveries	846	926	935	886
Trained deliveries	468	406	452	553

contd..

TABLE 2.13(contd.): DETAILS OF MATERNAL HEALTH CARE ACTIVITIES BY DZONGKHAG, BHUTAN, 2003 TO 2006 (Number)

Dzongkhag	2003	2004	2005	2006
Paro				
Antenatal	2,117	2,809	3,184	2,653
Postnatal	..	..	..	..
Reported deliveries	375	585	592	567
Trained deliveries	233	359	418	376
Pemagatshel				
Antenatal	699	886	767	791
Postnatal	..	..	..	..
Reported deliveries	278	268	274	255
Trained deliveries	47	84	43	51
Punakha				
Antenatal	1,326	1,798	1,687	1,528
Postnatal	..	..	..	..
Reported deliveries	386	355	356	354
Trained deliveries	65	147	182	299
Samdrupjongkhar				
Antenatal	2,869	3,379	3,529	3,344
Postnatal	..	..	..	..
Reported deliveries	740	884	909	990
Trained deliveries	351	404	453	489
Samtse				
Antenatal	342	5,536	5,078	4,760
Postnatal	..	..	..	..
Reported deliveries	1,318	887	898	1,238
Trained deliveries	18	557	763	758
Sarpang				
Antenatal	3,714	4,240	3,793	3,411
Postnatal	..	..	..	..
Reported deliveries	993	893	915	1,099
Trained deliveries	580	527	747	696
Thimphu				
Antenatal	14,358	15,700	12,689	10,068
Postnatal	..	..	..	..
Reported deliveries	437	455	1,989	2,594
Trained deliveries	1,737	2,070	1,584	2,202

Contd..

TABLE 2.13(contd.): DETAILS OF MATERNAL HEALTH CARE ACTIVITIES BY DZONGKHAG, BHUTAN, 2003 TO 2006 (Number)

Dzongkhag	2003	2004	2005	2006
Trashigang				
Antenatal	2,830	3,597	3,275	3,082
Postnatal	..	..	..	..
Reported deliveries	974	1,167	1,181	1,008
Trained deliveries	346	545	490	481
Trashiyangtse				
Antenatal	765	953	949	1,093
Postnatal	..	..	..	..
Reported deliveries	480	392	399	431
Trained deliveries	92	156	107	111
Trongsa				
Antenatal	873	651	824	937
Postnatal	..	..	..	..
Reported deliveries	275	298	299	243
Trained deliveries	126	160	140	106
Tsirang				
Antenatal	1,129	1,469	1,441	1,192
Postnatal	..	..	..	..
Reported deliveries	417	444	449	352
Trained deliveries	162	233	295	227
Wangduephodrang				
Antenatal	1,993	2,182	2,559	2,296
Postnatal	..	..	..	..
Reported deliveries	635	733	737	429
Trained deliveries	220	181	161	161
Zhemgang				
Antenatal	669	1,443	1,251	1,166
Postnatal	..	..	..	..
Reported deliveries	340	392	401	405
Trained deliveries	189	254	183	162

Note:

Trained delivery refers to deliveries attended by trained health personnels in hospitals/BHUs and at home

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.14: DETAILS OF COMPLICATIONS DURING PREGNANCY AND DURING LABOUR/DELIVERIES, BHUTAN, 2004 TO 2006

	2004		2005		2006	
Complications	Numbers	Percent	Numbers	Percent	Numbers	Percent
Pregnancy of mothers	2,725	100	5,022	100	5,851	100.00
Abortions	579	21.24	657	13.08	811	13.86
Antepartum haemorrhage	118	4.33	125	2.49	131	2.24
P.I.H	365	13.39	514	10.23	453	7.74
Anaemia	..	..	..	..	..	..
Hepatitis	..	..	..	..	..	..
Malaria	..	..	..	..	..	..
Others	1,663	61.02	3,726	74.19	4,456	76.16
Labour/delivery	1,117	100	983	100	977	100.00
Obstructed labour	222	8.14	155	15.77	78	7.98
Mal presentation	113	4.14	148	15.05	120	12.28
Prolonged labour/Ruptured uterus	267	9.79	235	23.91	257	26.31
Post partum haemorrhage	183	6.71	197	20.04	168	17.20
Retained Placenta	332	12.18	248	25.23	248	25.38
Puerperal Sepsis	..	..	..	..	106	10.85
All complications	3,842	..	6,005	..	6,828	..

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.15: FAMILY PLANNING ACCEPTORS BY TYPE OF METHOD, BHUTAN, 2002 TO 2006

(Number)

Method	2002	2003	2004	2005	2006
Tubectomy	320	1,049	1,364	1,364	1,844
Vasectomy	1,230	4,636	4,919	4,919	7,202
Minilap	n.a	1,049	n.a	n.a	n.a
Intra uterine device (IUD)	836	25,669	2,111	1,305	1,598
Pills (OCP)	n.a	14,403	18,807	20,210	32,074
Condoms	n.a	574,834	1,000,679	1,163,234	1,517,705
Injection DMPA	8,077	51,027	40,745	41,005	57,985
All methods	10,463	672,667	1,068,625	1,232,037	1,618,408

Note: IUD = No. inserted, Pills = No. of cycles, DMPA = No. of Injections and Condoms = No. of pieces

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.16: NUMBER OF USERS OF FAMILY PLANNING METHODS BY TYPE, BY DZONGKHAG, BHUTAN, 2006

Dzongkhag	Family planning methods						Total
	Vasec.	Tubec.	IUD	DMPA	Pills	Condom	
Bumthang	125	30	20	1,791	1,210	49,659	52,835
Chhukha	734	111	139	5,656	3,566	252,283	262,489
Dagana	407	46	11	2,333	1,794	36,085	40,676
Gasa	12	14	2	313	160	14,695	15,196
Ha	23	50	12	664	413	14,539	15,701
Lhuentse	293	22	6	2,062	724	68,503	71,610
Monggar	646	188	119	5,334	1,659	214,466	222,412
Paro	482	244	107	2,240	703	60,792	64,568
Pemagatshel	197	7	2	1,249	763	10,661	12,879
Punakha	95	56	13	1,572	1,365	26,655	29,756
Samdrup Jongkhar	368	61	83	3,763	1,714	31,058	37,047
Samtse	977	194	37	3,343	3,115	49,827	57,493
Sarpang	1,148	424	27	5,651	4,610	92,508	104,368
Thimphu	504	237	869	8,230	4,996	183,782	198,618
Trashi Yangtse	63	2	42	1,316	355	25,336	27,114
Trashigang	506	33	62	5,908	1,999	114,236	122,744
Trongsa	105	16	22	1,314	331	36,359	38,147
Tsirang	300	65	8	1,439	610	93,576	95,998
Wangdue Phodrang	72	17	5	1,713	744	91,399	93,950
Zhemgang	145	27	12	2,094	1,243	51,286	54,807
Bhutan	7,202	1,844	1,598	57,985	32,074	1,517,705	1,618,408

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.17: NUMBER OF BLOOD SLIDE EXAMINATIONS FOR MALARIA AND MALARIOMATRIC INDICES, BHUTAN, 2003 TO 2006

Details	2003	2004	2005	2006
Total blood films examined (numbers)	61,246	54,892	n.a	66,079
Blood film detected negative	n.a	n.a	n.a	64,210
Blood films detected positive	3,806	2,670	n.a	1,869
Plasmodium vivax	2,126	1,580	n.a	963
Plasmodium falciparum	1,680	966	n.a	761
Mixed infections	n.a	124	n.a	144
Deaths due to malaria (numbers)	15	15	n.a	6

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.18: NUMBER OF TUBERCULOSIS CASES BY TYPE, BHUTAN, 2001 TO 2006

Year	Cases diagnosed and treated			
	Pulmonary	Extra Pulmonary	Total cases	Total deaths
2001	874	342	1,216	51
2002	758	293	1,051	41
2003	682	344	1,026	31
2004	648	354	1,002	22
2005	631	387	1,018	29
2006	608	326	934	61

Source:Information Section,Department of Health, MoH, Thimphu.

TABLE 2.19: WATER AND SANITATION FACILITY TYPE BY DZONGKHAG, BHUTAN, 2006

Dzongkhag	Percentage Coverage				
	Sanitary facility	Safe water supply	Drainage & foot path	Vegetable garden	Garbage disposal bins
Bumthang	97.1	98.5	90.2	96.3	92.0
Chhukha	98.5	81.0	76.8	40.9	42.9
Dagana	84.9	55.3	34.4	80.3	88.5
Gasa	81.5	42.3	18.0	62.1	79.8
Ha	93.3	92.1	57.0	58.6	91.1
Lhuentse	88.8	87.1	71.0	87.9	68.7
Monggar	91.1	78.4	43.7	72.6	64.1
Paro	95.7	84.0	78.6	92.9	90.5
Pemagatshel	92.9	88.9	45.7	88.7	51.8
Punakha	92.4	81.7	23.7	90.6	82.0
Samdrupjongkhar	94.6	88.9	39.2	61.2	79.5
Samtse	89.1	68.7	36.6	76.1	62.8
Sarpang	91.2	85.6	49.3	62.2	74.3
Thimphu	87.0	78.4	54.5	68.6	35.8
Trashigang	91.6	87.8	42.8	84.6	63.0
Trashiyangtse	86.8	87.1	52.8	86.9	57.4
Trongsa	87.4	93.8	70.7	78.5	66.2
Tsirang	84.4	75.3	43.9	82.3	70.8
Wangduephodrang	96.5	86.9	63.4	84.0	86.5
Zhemgang	75.3	67.7	47.2	70.2	51.1
Total % coverage	90.2	81.4	51.9	76.2	69.9

Source:Information Section,Department of Health, MoH, Thimphu.

CHAPTER 3
EDUCATION

The introduction of comprehensive education system in Bhutan came along with the economic development initiated in 1961. Prior to that time there were virtually no modern education facilities inside Bhutan. However, the monastic form of education existed and continued to exist even today. Now there is an extensive network of Schools and other educational institutions spread throughout the country. The present formal educational refers to the hierarchically structured and chronologically graded learning's, which requires certification for the learner to progress through the grades to go to higher levels. The formal education consists of one-year pre-primary (PP), six years primary, two years Lower Secondary School, two years Middle Secondary School, two years Higher Secondary School and three years of tertiary (or college) education.

Entry into the formal education system starts at the age of six when the children are admitted into preprimary classes. The medium of instruction in the schools is both 'Dzongkha'-the national language and English. School curricula also include training in traditional arts, crafts, and agriculture. Besides the modern education system, there is large number of traditional institutions offering education to children in monasteries, Drupdas and Shedras, for which the Ministry of Education does not maintain any data.

Non-formal education, which is meant for those individuals who are unable to avail the facilities of the formal education, is 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.

The summaries of the data are presented through this chapter. For the academic session 2006, there were 169,776students enrolled in 507 schools/institutes and 646 Non-formal education centers. Of 507 schools and institutes 28 were privately run while the government ran the rest.

In 2006, there were 245 community primary schools catering to small and far-flung remote areas. Community primary school is the basic level for the primary school system, which caters to the specific community, a village or a cluster of defined villages. Number of Non Formal Education centers expanded from 6 in 1992 with 300 learners to 646 centers with 18,550 learners in 2006. The NFE centers provide only basic literacy courses of reading and writing.

The size of enrolment till Higher Secondary Schools was highest in Thimphu Dzongkhag followed by Chhukha, Trashigang, Paro and Monggar. Many schools provide boarding facilities for students living in areas far from the nearest school. Children from communities who do not have their own schools enroll in the more distant school either as day scholar or as boarders. This is made possible largely through the provision of meals through the World Food Programme (WFP).

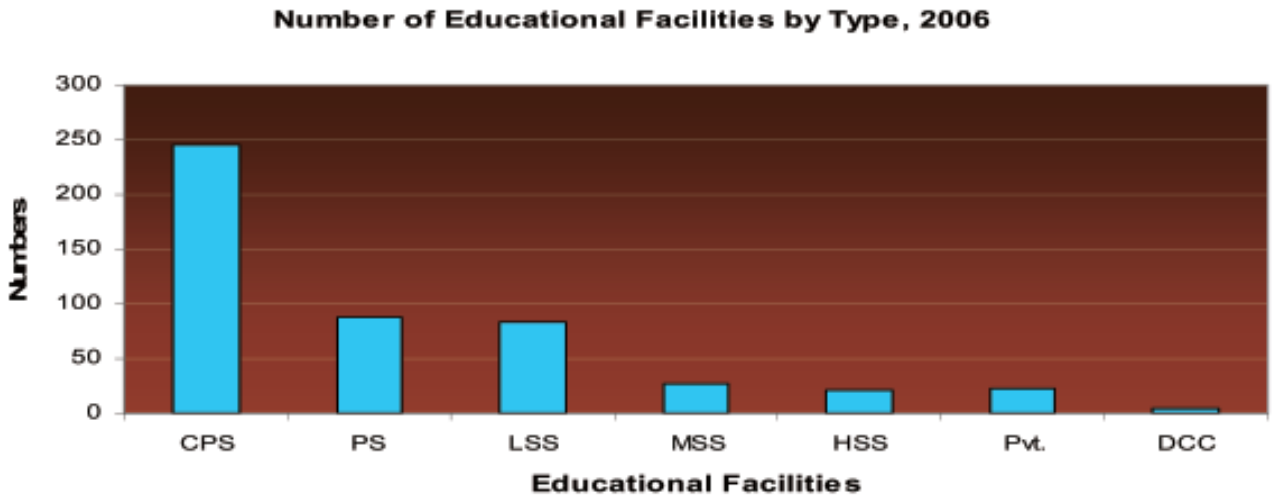


TABLE 3.1: NUMBER OF SCHOOLS AND INSTITUTIONS, STAFF AND STUDENTS, BHUTAN, 2006

Details	CPS	PS	LSS	MSS	HSS	Pvt.	Other Inst.	NFE Centre	Daycare Centres	Total
Number of school and Institution	245	88	84	28	21	23	18	646	5	1,158
Teaching staff	852	790	1,643	748	596	334	449	669	13	6,094
Bhutanese	850	780	1,506	588	388	238	373	669	13	5,405
Non-Bhutanese	2	10	137	160	208	96	76	0	0	689
Number of students	29,132	25,745	50,576	21,236	14,414	5,421	4,433	18,550	269	169,776
Male	15,210	13,224	25,340	10,971	7,801	2,711	2,886	5,444	135	83,722
Female	13,922	12,521	25,236	10,265	6,613	2,710	1,547	13,106	134	86,054
Student to teacher rati	34.2	32.6	30.8	29.5	26.2	16.2	9.9	27.7	20.7	28.2

Note:

CPS-Community Primary School, PS-Primary School, LSS-Lower Secondary School, MSS-Middle Secondary School, ,

HSS-Higher Secondary School, Pvt-Private School.

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.2: NUMBER OF EDUCATIONAL INSTITUTIONS, TEACHERS AND STUDENTS, BHUTAN, 2001 TO 2006

Year	Infrastructure			Teacher			Student		
	School	Inst.*	Total	School	Inst.*	Total	School	Inst.*	Total
2001	375	11	386	3,887	441	4,328	117323	2,467	119,790
2002	397	11	408	3,668	282	3,950	123,283	3,096	126,379
2003	426	14	440	4,005	313	4,318	129,160	3,251	132,411
2004	447	14	461	4,376	321	4,697	135,987	3,381	139,368
2005	458	18	476	4,604	566	5,170	141,388	4,429	145,817
2006	489	18	507	4,963	449	5,412	146,524	4,433	150,957

Note:

*Excludes NFE & DCC

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.3: NUMBER OF ENROLMENT AND TEACHING STAFF IN SCHOOLS, INSTITUTES, NFE CENTRES AND DAYCARE CENTRES, 2006

Type of Schools, Centres & Institutes	Enrolment			Teachers		
	Male	Female	Total	Male	Female	Total
School Education						
Community Primary Schools	15,210	13,922	29,132	665	187	852
Primary Schools	13,224	12,521	25,745	427	363	790
Pvt.Primary Schools	1,030	1,007	2,037	52	112	164
Lower Secondary Schools	25,340	25,236	50,576	857	786	1,643
Middle Secondary Schools	10,971	10,265	21,236	440	308	748
Higher Secondary Schools	7,801	6,613	14,414	413	183	596
Pvt.Higher Secondary Schools	1,681	1,703	3,384	136	34	170
Sub-Total	75,257	71,267	146,524	2,990	1,973	4,963
Institutes						
Sherubtse College	654	360	1,014	67	11	78
Institute for Language & Cultural Studies	156	116	272	25	1	26
National Institute of Education, Samtse	320	163	483	33	8	41
National Institute of Education, Paro	419	325	744	35	11	46
Royal Bhutan Institute of Technology	350	96	446	54	5	59
Royal Institute of Health Sciences	104	93	197	8	14	22
National Institute of Traditional Medicine	26	2	28	5	..	5
Natural Resource Training Institute	128	14	142	24	3	27
Royal Institute of Management	159	68	227	27	6	33
National Institute for the Disabled	23	18	41	9	3	12
Jigmecholling Sanskrit Pathshala	25	2	27	1	..	1
Dhoban Sanskrit Pathshala	33	..	33	1	..	1
Vocational Training Institute, Construction	145	109	254	18	4	22
Vocational Training Institute, Khuruthang	67	66	133	9	1	10
Vocational Training Institute, Rangjung	54	26	80	14	3	17
Vocational Training Institute, Samthang	71	10	81	12	..	12
National Institutes for Zorig Chusum	110	62	172	22	4	26
Trashiyangtse Institute for Zorig Chusum	42	17	59	11	..	11
Sub-Total	2,886	1,547	4,433	375	74	449
Early Childhood Care (Day Care Centres)	135	134	269	1	12	13
Non-Formal Education Programme	5,444	13,106	18,550	346	323	669
Total	83,722	86,054	169,776	3,712	2,382	6,094

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.4: NUMBER OF EDUCATIONAL FACILITIES BY TYPE AND DZONGKHAG, 2006

Dzongkhag	CPS	PS	LSS	MSS	HSS	Pvt.	DCC	Total
Bumthang	13	1	2	1	1	1	0	19
Chhukha	17	5	6	4	2	2	0	36
Dagana	14	2	0	2	0	0	0	18
Gasa	3	0	1	0	0	0	0	4
Ha	2	3	3	0	1	0	0	9
Lhuentse	14	8	1	1	1	0	0	25
Monggar	30	9	6	0	2	0	0	47
Paro	4	4	8	2	1	5	0	24
Pemagatshel	11	3	4	1	1	0	0	20
Punakha	5	2	3	1	1	1	0	13
Samdrup Jongkhar	13	4	8	3	0	1	0	29
Samtse	7	4	3	2	1	0	0	17
Sarpang	9	1	3	1	1	2	0	17
Thimphu	6	7	10	3	2	11	5	44
Trashigang	34	13	9	3	2	0	0	61
Trashi Yangtse	20	2	4	1	1	0	0	28
Trongsa	15	3	3	1	1	0	0	23
Tsirang	3	2	3	0	1	0	0	9
Wangdue Phodrang	13	5	4	1	1	0	0	24
Zhemgang	12	10	3	1	1	0	0	27
Bhutan	245	88	84	28	21	23	5	494

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.5: NUMBER OF TEACHERS IN EDUCATIONAL INSTITUTIONS BY NATIONALITY, BHUTAN, 2003 TO 2006

Institution	2003			2004			2005			2006		
	Bht	N/Bht	Total	Bht	N/Bht	Total	Bht	N/Bht	Total	Bht	N/Bht	Total
Schools	3317	696	4013	3719	772	4491	3992	641	4633	4361	614	4988
Day Care Centres	0	0	0	0	0	0	19	0	19	..	..	13
Community Primary Schools	586	6	592	704	3	707	782	4	786	850	2	852
Primary Schools	679	22	701	734	18	752	757	10	767	780	10	790
Lower Secondary Schools	1178	210	1388	1281	180	1461	1320	157	1477	1506	137	1643
Middle Secondary Schools	426	197	623	515	214	729	539	182	721	588	160	748
Higher Secondary Schools	287	179	466	280	160	440	355	196	551	388	208	596
Private Schools	154	81	235	196	196	392	211	91	302	238	96	334
National Institute for the Disabled (NID)	7	1	8	9	1	10	9	1	10	11	1	12
Specialised/Professional Institutes	446	237	683	756	74	830	1073	87	1160	948	75	1136
Sherubtse College	23	39	62	26	44	70	39	20	59	35	46	81
Paro College of Education	25	7	32	51	1	52	11	0	11	45	2	47
Samtse College of Education	51	3	54	31	6	37	8	1	9	43	4	47
Institute of Language and Cultural Studies	22	2	24	22	2	24	37	4	41	27	1	28
Royal Institute of Health and Sciences	..	..	..	..	..	..	1	0	1	22	2	24
National Institute of Traditional Medicine	..	..	..	..	..	..	1	0	1	6	0	6
Jigme Namgyel Polytechnic	..	..	..	..	..	..	..	..	..	20	2	22
College of Natural Resources	..	..	..	..	..	..	31	43	74	27	0	27
Royal Institute of Management	..	..	..	..	..	..	9	1	10	30	3	33
College of Science and Technology	39	20	59	39	20	59	66	9	75	24	15	39
Dhoban Sanskrit Patshala	1	0	1	1	0	1	26	1	27	..	..	1
Jigmecholing Sanskrit Patshala	1	0	1	1	0	1	24	2	26	..	..	1
Vocational Training Institute (Construction)	..	..	..	9	0	9	16	0	16	..	..	22
Vocational Training Institute (Khuruthang)	..	..	..	8	1	9	11	0	11	..	..	10
Vocational Training Institute (Rangjung)	..	..	..	8	0	8	77	3	80	..	..	17
Vocational Training Institute (Samthang)	..	..	..	12	0	12	64	0	64	..	..	12
National Institute for Zorig Chusum	10	1	11	22	0	22	39	3	42	..	..	26
Tashiyangtse Institute for Zorig Chusum	11	0	11	7	0	7	11	0	11	..	..	11
Non Formal Education Programme	263	165	428	519	0	519	583	0	583	669	..	669
Day Care Centres	..	..	..	..	..	0	19	0	19	..	..	13
Bhutan	3763	933	4696	4475	846	5321	5065	728	5793	5309	689	6124

Source: Policy & Planning Division, MoE, Thimphu.

Note :

The figures for MSS&HSS are clubbed together for the year 2006

TABLE 3.6: NUMBER OF EDUCATIONAL FACILITIES AND STUDENTS BY DZONGKHAG, 2006

Dzongkhag	Educational facilities	Student		
		Total	Girls	Boys
Bumthang	19	4,085	2,053	2,032
Chhukha	36	14,548	7,036	7,512
Dagana	18	4,408	2,140	2,268
Gasa	4	496	245	251
Ha	9	2,941	1,504	1,437
Lhuentse	25	3,768	1,804	1,964
Monggar	47	8,784	4,110	4,674
Paro	24	8,992	4,606	4,386
Pemagatshel	20	3,973	1,805	2,168
Punakha	13	5,305	2,740	2,565
Samdrup Jongkhar	29	9,550	4,499	5,051
Samtse	17	10,313	4,735	5,578
Sarpang	17	8,538	4,106	4,432
Thimphu	39	23,064	11830	11,234
Trashigang	61	12,770	5,924	6,846
Trashi Yangtse	28	4,842	2,293	2,549
Trongsa	23	3,601	1,817	1,784
Tsirang	9	4,060	1,897	2,163
Wangdue Phodrang	24	7,221	3,637	3,584
Zhemgang	27	5,265	2,486	2,779
Bhutan	489	146,524	71,267	75,257

Note:

In the above table,the Institues and NFE centres and Day Care Centres are excluded

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.7: NUMBER OF ENROLMENT IN EDUCATIONAL INSTITUTIONS, 2002 TO 2006

Institutions	2002	2003	2004	2005	2006
Schools	123,283	129,160	135,988	141,388	146,524
Community Primary Schools	20,978	22,502	24,533	26,965	29,132
Primary Schools	28,849	26,168	26,508	25,879	25,745
Lower Secondary Schools	41,985	46,856	48,089	48,995	50,576
Middle Secondary Schools	19,194	17,735	20,775	20,641	21,236
Higher Secondary Schools	8,464	11,268	10,865	13,145	14,414
Private Schools	3,813	4,631	5,218	5,763	5,421
Other institutions	2,711	3,251	3,381	4,429	4,433
Sherubtse College	625	828	939	465	1,014
National Institute of Education, Paro	633	656	637	69	744
National Institute of Education, Samtse	381	344	489	72	483
Institute of Language and Culutural Studies	255	225	261	779	272
Royal Bhutan Institute of Technology	560	429	390	487	446
Royal Institute of Health Sciences			..	34	197
National Institute of Traditional Medicines			..	26	28
Natural Resource Training Institute			..	1,157	142
Royal Institute of Management			..	42	227
National Institue of Zorig Chusum, Kawajang	139	122	149	187	172
Trashiyangtse Institue of Zorigchusum	46	52	54	28	59
National Institute for the Disabled (NID)	37	35	38	82	41
Dhoban Sanskrit patsala	35	13	26	48	33
Jigmecholing (Surey) Sanskrit patshala	n.a	30	26	272	27
Vocational Training Institue, Samthang	n.a	99	68	215	81
Vocational Training Institute, Construction			165	137	254
Vocational Training Institute, Khuruthang			28	60	133
Vocational Training Instritute, Rangjung			111	269	80
Non-formal Education Centres	9,798	12,838	15,866	16,642	18,550
Day Care Centres			..	86	269
Total			155,235	162,545	169,776

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.8: NUMBER OF STUDENTS IN HIGH SCHOOLS AND BELOW BY DZONGKHAG AND TYPE OF SCHOOL, 2006

Dzongkhag	Private school			Community school			Primary school		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Bumthang	75	54	129	668	724	1,392	41	47	88
Chhukha	293	298	591	1,157	1,013	2,170	587	466	1,053
Dagana	0	0	0	1,623	1,482	3,105	221	245	466
Gasa	0	0	0	165	133	298	0	0	0
Ha	0	0	0	25	30	55	316	355	671
Lhuentse	0	0	0	566	543	1,109	744	763	1,507
Monggar	0	0	0	1,386	1,280	2,666	935	815	1,750
Paro	249	286	535	164	154	318	917	880	1,797
Pemagatshel	0	0	0	492	507	999	178	155	333
Punakha	344	323	667	323	349	672	388	403	791
Samtse	0	0	0	1,019	772	1,791	1,290	1,128	2,418
Samdrup Jongkhar	13	25	38	846	749	1,595	607	536	1,143
Sarpang (a)	88	75	163	1,675	1,434	3,109	425	407	832
Thimphu	1,649	1,649	3,298	340	337	677	2,663	2,622	5,285
Trashigang	0	0	0	1,871	1,601	3,472	1,341	1,179	2,520
Trashi Yangtse	0	0	0	879	838	1,717	135	137	272
Trongsa	0	0	0	592	570	1,162	427	432	859
Tsirang	0	0	0	223	172	395	328	322	650
Wangdue Phodrang	0	0	0	720	766	1,486	942	969	1,911
Zhemgang	0	0	0	476	468	944	739	660	1,399
Bhutan	2,711	2,710	5,421	15,210	13,922	29,132	13,224	12,521	25,745

contd..

TABLE 3.8 (contd.): NUMBER OF STUDENTS IN HIGH SCHOOLS AND BELOW BY DZONGKHAG AND TYPE OF SCHOOL, 2006

Dzongkhag	Lower secondary			Middle secondary			Higher secondary			All school		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Bumthang	692	700	1,392	303	307	610	253	221	474	2,032	2,053	4,085
Chhukha	2,701	2,731	5,432	2,113	1,926	4,039	661	602	1,263	7,512	7,036	14,548
Dagana	0	0	0	424	413	837	0	0	0	2,268	2,140	4,408
Gasa	86	112	198	0	0	0	0	0	0	251	245	496
Ha	729	753	1,482	0	0	0	367	366	733	1,437	1,504	2,941
Lhuentse	150	150	300	253	184	437	251	164	415	1,964	1,804	3,768
Mongar	1,472	1,344	2,816	0	0	0	881	671	1,552	4,674	4,110	8,784
Paro	2,015	2,221	4,236	541	608	1,149	500	457	957	4,386	4,606	8,992
Pemagatshel	712	564	1,276	445	382	827	341	197	538	2,168	1,805	3,973
Punakha	552	672	1,224	555	637	1,192	403	356	759	2,565	2,740	5,305
Samtse	1,333	1,136	2,469	1,608	1,354	2,962	328	345	673	5,578	4,735	10,313
Samdrupjongkhar	2,080	1,800	3,880	1,505	1,389	2,894	0	0	0	5,051	4,499	9,550
Sarpang (a)	1,596	1,596	3,192	377	347	724	271	247	518	4,432	4,106	8,538
Thimphu	4,376	4,707	9,083	1,011	1,157	2,168	1,195	1,358	2,553	11,234	11,830	23,064
Trashigang	1,992	1,897	3,889	885	762	1,647	757	485	1,242	6,846	5,924	12,770
Trashiyangtse	893	861	1,754	383	278	661	259	179	438	2,549	2,293	4,842
Trongsa	409	481	890	130	141	271	226	193	419	1,784	1,817	3,601
Tsirang	1,236	1,167	2,403	0	0	0	376	236	612	2,163	1,897	4,060
Wangduephodrang	1,452	1,465	2,917	219	210	429	251	227	478	3,584	3,637	7,221
Zhemgang	864	879	1,743	219	170	389	481	309	790	2,779	2,486	5,265
Bhutan	25,340	25,236	50,576	10,971	10,265	21,236	7,801	6,613	14,414	75,257	71,267	146,524

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.9: NUMBER OF STUDENTS BY GRADE AND TYPE OF SCHOOL, BHUTAN, 2006

Grade	Private			Communitry Pry			Primary			Lower Secondary		
	Boy	Girl	Total	Boy	Girl	Total	Boy	Girl	Total	Boy	Girl	Total
Pre primary	339	320	659	3,090	2,791	5,881	1,946	1,888	3,834	2,642	2,581	5,223
I	228	220	448	2,564	2,385	4,949	1,998	1,794	3,792	2,681	2,498	5,179
II	155	140	295	2,567	2,348	4,915	2,006	1,990	3,996	2,726	2,724	5,450
III	90	122	212	2,253	2,124	4,377	1,900	1,851	3,751	2,551	2,601	5,152
IV	110	90	200	2,151	1,881	4,032	1,914	1,854	3,768	2,616	2,671	5,287
V	57	59	116	1,434	1,388	2,822	1,788	1,619	3,407	2,477	2,569	5,046
VI	48	63	111	1,151	1,005	2,156	1,672	1,525	3,197	2,475	2,612	5,087
VII	-	-	-	-	-	-	-	-	-	3,958	3,932	7,890
VIII	-	-	-	-	-	-	-	-	-	3,214	3,048	6,262
IX	7	4	11	-	-	-	-	-	-	-	-	-
X	12	19	31	-	-	-	-	-	-	-	-	-
XI	844	865	1,709	-	-	-	-	-	-	-	-	-
XII	821	808	1,629	-	-	-	-	-	-	-	-	-
Bhutan	2,711	2,710	5,421	15,210	13,922	29,132	13,224	12,521	25,745	25,340	25,236	50,576

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.9(contd.): NUMBER OF STUDENTS BY GRADE AND TYPE OF SCHOOL, BHUTAN, 2006

Grade	Middle Secondary			Higher Secondary		
	Boy	Girl	Total	Boy	Girl	Total
Pre-primary	659	613	1,272	-	-	-
I	608	570	1,178	-	-	-
II	756	697	1,453	-	-	-
III	671	609	1,280	-	-	-
IV	643	661	1,304	-	-	-
V	642	585	1,227	-	-	-
VI	600	569	1,169	-	-	-
VII	1,368	1,399	2,767	288	269	557
VIII	1,125	1,290	2,415	278	313	591
IX	2,225	1,974	4,199	2,271	2,378	4,649
X	1,674	1,298	2,972	1,895	1,958	3,853
XI	-	-	-	1,581	944	2,525
XII	-	-	-	1,488	751	2,239
Bhutan	10,971	10,265	21,236	7,801	6,613	14,414

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.10: NUMBER OF STUDENTS BY GRADE, 2001 TO 2006

Grade	2001	2002	2003	2004	2005	2006
Primary grade	88,412	90,944	93,841	97,323	99,874	102,225
Nursery	..	..	..	..	416	..
Pre-primary	15,166	15,604	15,977	16,636	15,518	16,869
I	15,006	14,828	15,517	15,925	16,455	15,546
II	13,846	14,526	14,268	15,081	15,633	16,109
III	12,494	12,947	13,616	13,643	14,415	14,772
IV	12,253	12,594	12,939	13,805	13,750	14,591
V	10,255	10,954	11,251	11,756	12,635	12,618
VI	9,392	9,491	10,273	10,477	11,052	11,720
Lower Secondary grade	15,128	15,988	16,207	17,619	19,647	20,482
VI(a)	n.a	n.a	n.a	n.a	n.a	n.a
VII	8,439	8,859	9,093	10,036	10,686	11,214
VIII	6,689	7,129	7,114	7,583	8,961	9,268
Middle Secondary grade	10,508	11,423	12,537	13,829	14,183	15,715
IX	5,890	6,613	7,241	7,544	7,732	8,859
X	4,618	4,810	5,296	6,285	6,451	6,856
Higher Secondary school	2,719	4,432	5,804	6,691	7,684	8,102
XI	1,631	2,749	2,991	3,610	3,997	4,234
XII	1,088	1,683	2,813	3,081	3,687	3,868
Bhutan	116,767	122,787	122,585	135,462	141,388	146,524

Note:

In the above table, nursery grade is excluded

(a) grade vi is in junior level as well. Figures now included under primary level.

Source: Policy & Planning Division, MoE, Thimphu.

TABLE 3.11: NUMBER OF STUDENTS ENROLED,PROMOTEES,REPEATERS AND DROUPOUTS BY GRADE, BHUTAN, 2006

Details	Enrolment	Promotees	Repeaters	Dropouts
PP	16,869	14,266	1,257	-5
I	15,546	14,873	1,280	302
II	16,109	13,916	1,236	481
III	14,772	13,336	856	223
IV	14,591	11,884	1,255	611
V	12,618	11,331	734	570
VI	11,720	10,297	389	366
VII	11,214	8,993	917	776
VIII	9,268	8,343	275	343
IX	8,859	6,828	516	388
X*	6,856	4,195	28	0
Bhutan	138,422	118,262	8,743	4,055

Note:

* The students who leave school after Class X are school leavers and not drop-outs.

Promotees and dropout figures are imputations

Source: Policy & Planning Division, MoE, Thimphu.

CHAPTER 4
LABOUR AND EMPLOYMENT

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 labor force, employment, wage rate and conditions of work. Labour statistics usually presented in this chapter are from sample surveys and the national Labour Force Surveys. The National Statistical Bureau conducted the two consecutive Labor Force Surveys in 1998 and 2000.

The Department of Employment and Labour conducted the third round of Labor Force Survey in 2001 since its creation in 2000. The fourth, fifth and sixth Labour Force Surveys were conducted by Department of Employment in 2003, 2004 and 2006.

Although share of primary sector in GDP is gradually decreasing, agriculture is still the Predominant sector providing employment to around 63% of the labour force. Labour force is marred by high dependency ratio.

The private sector is emerging as the important sector generating employment opportunities for the rapidly increasing labour market.

The employed persons comprise of all those who had worked at least for one hour during the survey reference period and simultaneously has a job. Out of the total extrapolated population (537900), 222900 were found employed, which consist of 41%. From the total economically active population (Labour force) 96.8% are employed, which in other words is an employment rate. Over the years there is downward trend in employment rates. There is a slight increase from the year 2001 to 2003 and has gradually declined up till 2006.

TABLE 4.1: EMPLOYMENT IN CIVIL SERVICE, BHUTAN, 2003 TO Dec 2006

Ministry/Division	2003*	2004	2005	2006
All Ministries	14,224	14,879	15,887	16,853
Ministry of Agriculture	2,493	2,410	3,150	3,243
Ministry of Education	5,112	5,225	5,507	5,956
Ministry of Finance	664	645	1,216	1,293
Ministry of Foreign Affairs	121	127	113	121
Ministry of Information & Communication	287	311	323	338
Ministry of Health	1,954	2,061	2,216	2,328
Ministry of Home & Cultural Affairs	1,764	2,159	1,092	1,106
Ministry of Labour & Human Resources	221	204	212	247
Ministry of Trade & Industries	468	509	508	554
Ministry of Works & Human Settlement	1,140	1,228	1,550	1,667
Other Non-Ministerial Organizations	727	1,112	1,203	1,497
His Majesty 4th King's Secretariat	33	32	33	35
His Majesty 5th King's Secretariat	..	..	..	7
Dratshang Lhentshog	28	27	25	29
National Assembly	22	23	21	25
Royal Advisory Council	15	14	14	14
Cabinet Secretariat	7	9	10	12
Election Commission	..	..	..	94
Royal Civil Service Commission	39	47	49	54
Royal Court of Justice	296	295	289	315
Centre for Bhutan Studies	11	14	15	19
Bhutan Olympic Committee	9	10	9	8
Office of Attorney General	13	17	21	21
Anti-Corruption Commission	..	..	..	18
Planning Commission Secretariat	..	..	..	48
National Environment Commission	37	40	38	42
Royal Institute of Management	71	69	59	58
Royal Audit Authority	141	152	161	170
Royal University of Bhutan	5	329	414	463
National Commission for Women & Children	..	..	4	5
Bhutan Naroctic Control Agency	..	..	..	2
National Statistical Bureau	..	34	41	57
National Steering Committee for Coronation and Centenary Celebration	..	..	..	1
All Civil Servants	14,951	15,991	17,090	18,350
Includes Seconded to: Corporations, Internationals Org & NGO's	46	46	72	..

Note:

* Till Sept 2003.

Source: Royal Civil Servic Commission

TABLE 4.2: ECONOMICALLY ACTIVE & IN-ACTIVE POPULATION BY AGE GROUP, SEX, RESIDENCE, BHUTAN 2005

Labor force activity, Sex	Age group											All ages
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 +	
						URBAN						
Economically active												
Employed	4,261	15,103	14,677	10,455	9,274	5,965	4,563	2,903	1,422	749	760	70,132
Male	2,409	10,990	10,561	7,777	6,997	4,599	3,584	2,316	1,121	578	589	51,521
Female	1,852	4,113	4,116	2,678	2,277	1,366	979	587	301	171	171	18,611
Unemployed	600	1,730	566	167	157	81	63	46	17	11	12	3,450
Male	271	899	368	103	96	61	47	36	12	8	8	1,909
Female	329	831	198	64	61	20	16	10	5	3	4	1,541
Employment rate	87.7	89.7	96.3	98.4	98.3	98.7	98.6	98.4	98.8	98.6	98.4	95.3
Male	89.9	92.4	96.6	98.7	98.6	98.7	98.7	98.5	98.9	98.6	98.7	96.4
Female	84.9	83.2	95.4	97.7	97.4	98.6	98.4	98.3	98.4	98.3	97.7	92.4
Unemployment rate	12.3	10.3	3.7	1.6	1.7	1.3	1.4	1.6	1.2	1.4	1.6	4.7
Male	10.1	7.6	3.4	1.3	1.4	1.3	1.3	1.5	1.1	1.4	1.3	3.6
Female	15.1	16.8	4.6	2.3	2.6	1.4	1.6	1.7	1.6	1.7	2.3	7.6
Economically Inactive	22,767	12,089	6,523	4,539	3,630	2,429	2,038	1,560	1,261	1,374	3,530	61,740
Male	10,979	4,995	1,241	647	520	408	353	417	399	498	1,470	21,927
Female	11,788	7,094	5,282	3,892	3,110	2,021	1,685	1,143	862	876	2,060	39,813
Both Activity	27,628	28,922	21,766	15,161	13,061	8,475	6,664	4,509	2,700	2,134	4,302	135,322
Male	13,659	16,884	12,170	8,527	7,613	5,068	3,984	2,769	1,532	1,084	2,067	75,357
Female	13,969	12,038	9,596	6,634	5,448	3,407	2,680	1,740	1,168	1,050	2,235	59,965
						RURAL						
Economically active												
Employed	18,082	27,818	25,932	20,490	19,202	15,914	15,323	12,187	8,911	6,849	8,190	178,898
Male	8,699	17,330	16,081	12,636	11,694	9,373	9,065	7,137	5,305	4,141	5,091	106,552
Female	9,383	10,488	9,851	7,854	7,508	6,541	6,258	5,050	3,606	2,708	3,099	72,346
Unemployed	850	1,128	595	393	323	267	302	235	159	86	77	4,415
Male	469	667	396	283	230	190	210	175	118	59	61	2,858
Female	381	461	199	110	93	77	92	60	41	27	16	1,557
Employment rate	95.5	96.1	97.8	98.1	98.3	98.3	98.1	98.1	98.2	98.8	99.1	97.6
Male	94.9	96.3	97.6	97.8	98.1	98.0	97.7	97.6	97.8	98.6	98.8	97.4
Female	96.1	95.8	98.0	98.6	98.8	98.8	98.6	98.8	98.9	99.0	99.5	97.9
Unemployment rate	4.5	3.9	2.2	1.9	1.7	1.7	1.9	1.9	1.8	1.2	0.9	2.4
Male	5.1	3.7	2.4	2.2	1.9	2.0	2.3	2.4	2.2	1.4	1.2	2.6
Female	3.9	4.2	2.0	1.4	1.2	1.2	1.4	1.2	1.1	1.0	0.5	2.1
Economically Inactive	28,676	12,706	9,065	6,762	6,143	5,244	5,373	5,116	4,622	5,505	17,176	106,388
Male	14,677	5,373	2,739	1,762	1,587	1,391	1,636	1,698	1,809	2,280	8,112	43,064
Female	13,999	7,333	6,326	5,000	4,556	3,853	3,737	3,418	2,813	3,225	9,064	63,324

TABLE 4.2: ECONOMICALLY ACTIVE & IN-ACTIVE POPULATION BY AGE GROUP, SEX, RESIDENCE, BHUTAN 2005

Labor force activity, Sex	Age group											All ages
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 +	
Both Activity	47,608	41,652	35,592	27,645	25,668	21,425	20,998	17,538	13,692	12,440	25,443	289,701
Male	23,845	23,370	19,216	14,681	13,511	10,954	10,911	9,010	7,232	6,480	13,264	152,474
Female	23,763	18,282	16,376	12,964	12,157	10,471	10,087	8,528	6,460	5,960	12,179	137,227
						BOTH AREAS						
Economically active												
Employed	22,343	42,921	40,609	30,945	28,476	21,879	19,886	15,090	10,333	7,598	8,950	249,030
Male	11,108	28,320	26,642	20,413	18,691	13,972	12,649	9,453	6,426	4,719	5,680	158,073
Female	11,235	14,601	13,967	10,532	9,785	7,907	7,237	5,637	3,907	2,879	3,270	90,957
Unemployed	1,450	2,858	1,161	560	480	348	365	281	176	97	89	7,865
Male	740	1,566	764	386	326	251	257	211	130	67	69	4,767
Female	710	1,292	397	174	154	97	108	70	46	30	20	3,098
Employment rate	93.9	93.8	97.2	98.2	98.3	98.4	98.2	98.2	98.3	98.7	99.0	96.9
Male	93.8	94.8	97.2	98.1	98.3	98.2	98.0	97.8	98.0	98.6	98.8	97.1
Female	94.1	91.9	97.2	98.4	98.5	98.8	98.5	98.8	98.8	99.0	99.4	96.7
Unemployment rate	6.1	6.2	2.8	1.8	1.7	1.6	1.8	1.8	1.7	1.3	1.0	3.1
Male	6.2	5.2	2.8	1.9	1.7	1.8	2.0	2.2	2.0	1.4	1.2	2.9
Female	5.9	8.1	2.8	1.6	1.5	1.2	1.5	1.2	1.2	1.0	0.6	3.3
Economically Inactive	51,443	24,795	15,588	11,301	9,773	7,673	7,411	6,676	5,883	6,879	20,706	168,128
Male	25,656	10,368	3,980	2,409	2,107	1,799	1,989	2,115	2,208	2,778	9,582	64,991
Female	25,787	14,427	11,608	8,892	7,666	5,874	5,422	4,561	3,675	4,101	11,124	103,137
Both Activity	75,236	70,574	57,358	42,806	38,729	29,900	27,662	22,047	16,392	14,574	29,745	425,023
Male	37,504	40,254	31,386	23,208	21,124	16,022	14,895	11,779	8,764	7,564	15,331	227,831
Female	37,732	30,320	25,972	19,598	17,605	13,878	12,767	10,268	7,628	7,010	14,414	197,192

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.3: ECONOMICALLY ACTIVE & IN-ACTIVE POPULATION BY LEGAL AGE OF 18 YEARS AND ABOVE, RESIDENCE, BHUTAN 2005

Economic activity, Residence	Age group											
	18 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 +	All ages
Urban												
Economically active	4,452	22,134	20,549	14,606	12,620	8,120	6,329	4,065	2,029	1,127	1,203	97,234
Employed	4,027	20,404	19,983	14,439	12,463	8,039	6,266	4,019	2,012	1,116	1,191	93,959
Unemployed	425	1,730	566	167	157	81	63	46	17	11	12	3,275
Economically Inactive	7,281	6,788	1,217	555	441	355	335	444	671	1,007	3,099	22,193
Rural												
Economically active	11,038	35,842	33,342	26,435	24,684	20,598	19,987	16,250	11,649	8,790	10,385	219,000
Employed	10,642	34,714	32,747	26,042	24,361	20,331	19,685	16,015	11,490	8,704	10,308	215,039
Unemployed	396	1,128	595	393	323	267	302	235	159	86	77	3,961
Economically Inactive	6,228	5,810	2,250	1,210	984	827	1,011	1,288	2,043	3,650	15,058	40,359
Both areas												
Economically active	15,490	57,976	53,891	41,041	37,304	28,718	26,316	20,315	13,678	9,917	11,588	316,234
Employed	14,669	55,118	52,730	40,481	36,824	28,370	25,951	20,034	13,502	9,820	11,499	308,998
Unemployed	821	2,858	1,161	560	480	348	365	281	176	97	89	7,236
Economically Inactive	13,509	12,598	3,467	1,765	1,425	1,182	1,346	1,732	2,714	4,657	18,157	62,552
Urban												
Employment rate	90.5	92.2	97.2	98.9	98.8	99.0	99.0	98.9	99.2	99.0	99.0	96.6
Unemployment rate	9.5	7.8	2.8	1.1	1.2	1.0	1.0	1.1	0.8	1.0	1.0	3.4
Rural												
Employment rate	96.4	96.9	98.2	98.5	98.7	98.7	98.5	98.6	98.6	99.0	99.3	98.2
Unemployment rate	3.6	3.1	1.8	1.5	1.3	1.3	1.5	1.4	1.4	1.0	0.7	1.8
Both areas												
Employment rate	94.7	95.1	97.8	98.6	98.7	98.8	98.6	98.6	98.7	99.0	99.2	97.7
Unemployment rate	5.3	4.9	2.2	1.4	1.3	1.2	1.4	1.4	1.3	1.0	0.8	2.3

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.4: ECONOMICALLY ACTIVE & IN-ACTIVE POPULATION 15 YEARS AND ABOVE BY RESIDENCE, DZONGKHAG 2005

Dzongkhag, Residence	Economically active			Inactive	Both active & Inactive
	Employed	Unemployed	Total persons		
BUMTHANG	6,044	136	6,180	4,970	11,150
Urban	1,782	60	1,842	1,047	2,889
Rural	4,262	76	4,338	3,923	8,261
CHHUKHA	30,493	1,167	31,660	19,995	51,655
Urban	11,437	656	12,093	10,620	22,713
Rural	19,056	511	19,567	9,375	28,942
DAGANA	8,297	89	8,386	2,776	11,162
Urban	562	12	574	818	1,392
Rural	7,735	77	7,812	1,958	9,770
GASA	1,570	16	1,586	511	2,097
Urban	122	2	124	90	214
Rural	1,448	14	1,462	421	1,883
HAA	4,846	120	4,966	2,977	7,943
Urban	853	28	881	931	1,812
Rural	3,993	92	4,085	2,046	6,131
LHUENTSE	6,525	55	6,580	3,360	9,940
Urban	539	9	548	505	1,053
Rural	5,986	46	6,032	2,855	8,887
MONGGAR	13,591	350	13,941	10,181	24,122
Urban	2,232	44	2,276	2,812	5,088
Rural	11,359	306	11,665	7,369	19,034
PARO	13,636	491	14,127	11,474	25,601
Urban	1,363	51	1,414	703	2,117
Rural	12,273	440	12,713	10,771	23,484
PEMAGATSHEL	4,125	225	4,350	4,842	9,192
Urban	589	14	603	1,055	1,658
Rural	3,536	211	3,747	3,787	7,534
PUNAKHA	7,036	124	7,160	4,694	11,854
Urban	573	22	595	1,128	1,723
Rural	6,463	102	6,565	3,566	10,131
SAMDRUPJONGKHAR	14,915	602	15,517	10,400	25,917
Urban	4,135	145	4,280	2,959	7,239
Rural	10,780	457	11,237	7,441	18,678

TABLE 4.4: ECONOMICALLY ACTIVE & IN-ACTIVE POPULATION 15 YEARS AND ABOVE BY RESIDENCE, DZONGKHAG 2005

Dzongkhag, Residence	Economically active			Inactive	Both active & Inactive
	Employed	Unemployed	Total persons		
SAMTSE	24,760	548	25,308	14,455	39,763
Urban	3,180	121	3,301	3,294	6,595
Rural	21,580	427	22,007	11,161	33,168
SARPANG	15,307	528	15,835	11,465	27,300
Urban	4,608	154	4,762	3,688	8,450
Rural	10,699	374	11,073	7,777	18,850
THIMPHU	38,432	2,181	40,613	28,371	68,984
Urban	30,190	1,921	32,111	23,276	55,387
Rural	8,242	260	8,502	5,095	13,597
TRASHIGANG	20,706	303	21,009	12,248	33,257
Urban	2,044	43	2,087	2,898	4,985
Rural	18,662	260	18,922	9,350	28,272
TRASHIYANGTSE	6,410	103	6,513	4,786	11,299
Urban	798	13	811	1,213	2,024
Rural	5,612	90	5,702	3,573	9,275
TRONGSA	5,281	106	5,387	3,448	8,835
Urban	872	27	899	867	1,766
Rural	4,409	79	4,488	2,581	7,069
TSIRANG	8,231	133	8,364	3,960	12,324
Urban	645	17	662	367	1,029
Rural	7,586	116	7,702	3,593	11,295
WANGDUE	13,031	304	13,335	7,249	20,584
Urban	2,809	77	2,886	1,993	4,879
Rural	10,222	227	10,449	5,256	15,705
ZHEMGANG	5,794	284	6,078	5,966	12,044
Urban	799	34	833	1,476	2,309
Rural	4,995	250	5,245	4,490	9,735
ALL DZONGKHAGS	249,030	7,865	256,895	168,128	425,023
Urban	70,132	3,450	73,582	61,740	135,322
Rural	178,898	4,415	183,313	106,388	289,701

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.5: POPULATION BY ACTIVITY, SCHOOL/INSTITUTE ATTENDANCE, SEX, AGE GROUP, RESIDENCE, BHUTAN 2005

School/institute attendence, Sex, Economic activity	Age group											
	15 - 1	20 - 2	25 - 2	30 - 3	35 - 3	40 - 4	45 - 4	50 - 5	55 - 5	60 - 6	65 +	All ages
	URBAN											
Male												
Attended	12,292	13,300	9,207	6,282	5,532	3,341	2,567	1,724	814	354	516	55,929
Employed	1,600	7,784	7,894	5,747	5,106	3,093	2,361	1,508	634	216	181	36,124
Unemployed	219	801	320	74	69	34	29	18	5	1	2	1,572
Inactive	10,473	4,715	993	461	357	214	177	198	175	137	333	18,233
Never attended	2,448	3,503	2,870	2,107	1,844	1,387	1,154	869	571	488	972	18,213
Employed	831	2,697	2,446	1,877	1,675	1,235	1,012	695	415	267	306	13,456
Unemployed	55	102	56	38	15	24	17	17	4	4	5	337
Inactive	1,562	704	368	192	154	128	125	157	152	217	661	4,420
Both attendence	14,740	16,803	12,077	8,389	7,376	4,728	3,721	2,593	1,385	842	1,488	74,142
Employed	2,431	10,481	10,340	7,624	6,781	4,328	3,373	2,203	1,049	483	487	49,580
Unemployed	274	903	376	112	84	58	46	35	9	5	7	1,909
Inactive	12,035	5,419	1,361	653	511	342	302	355	327	354	994	22,653
Female												
Attended	15,388	13,997	10,879	7,355	6,182	4,020	3,338	2,543	1,514	1,091	1,792	68,099
Employed	3,691	10,138	9,202	6,487	5,495	3,500	2,867	2,054	1,091	652	591	45,768
Unemployed	240	464	225	115	95	54	57	43	21	8	12	1,334
Inactive	11,457	3,395	1,452	753	592	466	414	446	402	431	1,189	20,997
Never attended	6,716	8,801	8,056	7,167	7,357	7,081	7,637	6,466	5,725	5,483	11,753	82,242
Employed	4,798	7,314	6,784	6,013	6,200	5,955	6,222	5,052	4,179	3,488	4,502	60,507
Unemployed	218	186	158	156	146	139	155	130	99	52	48	1,487
Inactive	1,700	1,301	1,114	998	1,011	987	1,260	1,284	1,447	1,943	7,203	20,248
Both attendence	22,104	22,798	18,935	14,522	13,539	11,101	10,975	9,009	7,239	6,574	13,545	150,341
Employed	8,489	17,452	15,986	12,500	11,695	9,455	9,089	7,106	5,270	4,140	5,093	106,275
Unemployed	458	650	383	271	241	193	212	173	120	60	60	2,821
Inactive	13,157	4,696	2,566	1,751	1,603	1,453	1,674	1,730	1,849	2,374	8,392	41,245
Both sex												
Attended	27,680	27,297	20,086	13,637	11,714	7,361	5,905	4,267	2,328	1,445	2,308	124,028
Employed	5,291	17,922	17,096	12,234	10,601	6,593	5,228	3,562	1,725	868	772	81,892
Unemployed	459	1,265	545	189	164	88	86	61	26	9	14	2,906
Inactive	21,930	8,110	2,445	1,214	949	680	591	644	577	568	1,522	39,230
Never attended	9,164	12,304	10,926	9,274	9,201	8,468	8,791	7,335	6,296	5,971	12,725	100,455
Employed	5,629	10,011	9,230	7,890	7,875	7,190	7,234	5,747	4,594	3,755	4,808	73,963
Unemployed	273	288	214	194	161	163	172	147	103	56	53	1,824
Inactive	3,262	2,005	1,482	1,190	1,165	1,115	1,385	1,441	1,599	2,160	7,864	24,668
Both attendence	36,844	39,601	31,012	22,911	20,915	15,829	14,696	11,602	8,624	7,416	15,033	224,483
Employed	10,920	27,933	26,326	20,124	18,476	13,783	12,462	9,309	6,319	4,623	5,580	155,855
Unemployed	732	1,553	759	383	325	251	258	208	129	65	67	4,730
Inactive	25,192	10,115	3,927	2,404	2,114	1,795	1,976	2,085	2,176	2,728	9,386	63,898

TABLE 4.5: POPULATION BY ACTIVITY, SCHOOL/INSTITUTE ATTENDANCE, SEX, AGE GROUP, RESIDENCE, BHUTAN 2005

School/institute attendence, Sex, Economic activity	Age group											
	15 - 1'	20 - 2·	25 - 2'	30 - 3·	35 - 3'	40 - 4·	45 - 4'	50 - 5·	55 - 5'	60 - 6·	65 +	All ages
						RURAL						
Male												
Attended	12,014	8,954	5,796	3,339	2,363	1,108	700	461	181	116	129	35,161
Employed	943	3,284	3,185	1,793	1,318	580	338	225	66	32	23	11,787
Unemployed	287	808	172	41	33	6	2	2	3	0	0	1,354
Inactive	10,784	4,862	2,439	1,505	1,012	522	360	234	112	84	106	22,020
Never attended	2,967	3,058	3,190	2,580	2,305	1,552	1,360	949	704	647	1,384	20,696
Employed	806	1,066	1,144	971	875	659	575	374	267	186	191	7,114
Unemployed	49	61	23	15	21	12	10	9	2	5	5	212
Inactive	2,112	1,931	2,023	1,594	1,409	881	775	566	435	456	1,188	13,370
Both attendence	14,981	12,012	8,986	5,919	4,668	2,660	2,060	1,410	885	763	1,513	55,857
Employed	1,749	4,350	4,329	2,764	2,193	1,239	913	599	333	218	214	18,901
Unemployed	336	869	195	56	54	18	12	11	5	5	5	1,566
Inactive	12,896	6,793	4,462	3,099	2,421	1,403	1,135	800	547	540	1,294	35,390
Female												
Attended	13,593	7,951	5,584	3,266	2,367	1,569	1,287	788	543	530	1,158	38,636
Employed	3,154	3,788	2,890	1,490	1,055	670	513	297	131	78	78	14,144
Unemployed	180	265	71	26	21	8	8	6	1	1	1	588
Inactive	10,259	3,898	2,623	1,750	1,291	891	766	485	411	451	1,079	23,904
Never attended	9,818	11,010	11,776	10,710	10,779	9,842	9,619	8,247	6,340	5,865	12,041	106,047
Employed	6,520	6,850	7,064	6,567	6,752	6,187	5,998	4,885	3,550	2,679	3,078	60,130
Unemployed	202	171	136	95	80	71	87	56	41	26	16	981
Inactive	3,096	3,989	4,576	4,048	3,947	3,584	3,534	3,306	2,749	3,160	8,947	44,936
Both attendence	23,411	18,961	17,360	13,976	13,146	11,411	10,906	9,035	6,883	6,395	13,199	144,683
Employed	9,674	10,638	9,954	8,057	7,807	6,857	6,511	5,182	3,681	2,757	3,156	74,274
Unemployed	382	436	207	121	101	79	95	62	42	27	17	1,569
Inactive	13,355	7,887	7,199	5,798	5,238	4,475	4,300	3,791	3,160	3,611	10,026	68,840
Both sex												
Attended	25,607	16,905	11,380	6,605	4,730	2,677	1,987	1,249	724	646	1,287	73,797
Employed	4,097	7,072	6,075	3,283	2,373	1,250	851	522	197	110	101	25,931
Unemployed	467	1,073	243	67	54	14	10	8	4	1	1	1,942
Inactive	21,043	8,760	5,062	3,255	2,303	1,413	1,126	719	523	535	1,185	45,924
Never attended	12,785	14,068	14,966	13,290	13,084	11,394	10,979	9,196	7,044	6,512	13,425	126,743
Employed	7,326	7,916	8,208	7,538	7,627	6,846	6,573	5,259	3,817	2,865	3,269	67,244
Unemployed	251	232	159	110	101	83	97	65	43	31	21	1,193
Inactive	5,208	5,920	6,599	5,642	5,356	4,465	4,309	3,872	3,184	3,616	10,135	58,306
Both attendence	38,392	30,973	26,346	19,895	17,814	14,071	12,966	10,445	7,768	7,158	14,712	200,540
Employed	11,423	14,988	14,283	10,821	10,000	8,096	7,424	5,781	4,014	2,975	3,370	93,175
Unemployed	718	1,305	402	177	155	97	107	73	47	32	22	3,135
Inactive	26,251	14,680	11,661	8,897	7,659	5,878	5,435	4,591	3,707	4,151	11,320	104,230

TABLE 4.5: POPULATION BY ACTIVITY, SCHOOL/INSTITUTE ATTENDANCE, SEX, AGE GROUP, RESIDENCE, BHUTAN 2005

School/institute attendence, Sex, Economic activity	Age group											
	15 - 1	20 - 2	25 - 2	30 - 3	35 - 3	40 - 4	45 - 4	50 - 5	55 - 5	60 - 6	65 +	All ages
	BOTH AREAS											
Male												
Attended	24,306	22,254	15,003	9,621	7,895	4,449	3,267	2,185	995	470	645	91,090
Employed	2,543	11,068	11,079	7,540	6,424	3,673	2,699	1,733	700	248	204	47,911
Unemployed	506	1,609	492	115	102	40	31	20	8	1	2	2,926
Inactive	21,257	9,577	3,432	1,966	1,369	736	537	432	287	221	439	40,253
Never attended	5,415	6,561	6,060	4,687	4,149	2,939	2,514	1,818	1,275	1,135	2,356	38,909
Employed	1,637	3,763	3,590	2,848	2,550	1,894	1,587	1,069	682	453	497	20,570
Unemployed	104	163	79	53	36	36	27	26	6	9	10	549
Inactive	3,674	2,635	2,391	1,786	1,563	1,009	900	723	587	673	1,849	17,790
Both attendence	29,721	28,815	21,063	14,308	12,044	7,388	5,781	4,003	2,270	1,605	3,001	129,999
Employed	4,180	14,831	14,669	10,388	8,974	5,567	4,286	2,802	1,382	701	701	68,481
Unemployed	610	1,772	571	168	138	76	58	46	14	10	12	3,475
Inactive	24,931	12,212	5,823	3,752	2,932	1,745	1,437	1,155	874	894	2,288	58,043
Female												
Attended	28,981	21,948	16,463	10,621	8,549	5,589	4,625	3,331	2,057	1,621	2,950	106,735
Employed	6,845	13,926	12,092	7,977	6,550	4,170	3,380	2,351	1,222	730	669	59,912
Unemployed	420	729	296	141	116	62	65	49	22	9	13	1,922
Inactive	21,716	7,293	4,075	2,503	1,883	1,357	1,180	931	813	882	2,268	44,901
Never attended	16,534	19,811	19,832	17,877	18,136	16,923	17,256	14,713	12,065	11,348	23,794	188,289
Employed	11,318	14,164	13,848	12,580	12,952	12,142	12,220	9,937	7,729	6,167	7,580	120,637
Unemployed	420	357	294	251	226	210	242	186	140	78	64	2,468
Inactive	4,796	5,290	5,690	5,046	4,958	4,571	4,794	4,590	4,196	5,103	16,150	65,184
Both attendence	45,515	41,759	36,295	28,498	26,685	22,512	21,881	18,044	14,122	12,969	26,744	295,024
Employed	18,163	28,090	25,940	20,557	19,502	16,312	15,600	12,288	8,951	6,897	8,249	180,549
Unemployed	840	1,086	590	392	342	272	307	235	162	87	77	4,390
Inactive	26,512	12,583	9,765	7,549	6,841	5,928	5,974	5,521	5,009	5,985	18,418	110,085
Both sex												
Attended	53,287	44,202	31,466	20,242	16,444	10,038	7,892	5,516	3,052	2,091	3,595	197,825
Employed	9,388	24,994	23,171	15,517	12,974	7,843	6,079	4,084	1,922	978	873	107,823
Unemployed	926	2,338	788	256	218	102	96	69	30	10	15	4,848
Inactive	42,973	16,870	7,507	4,469	3,252	2,093	1,717	1,363	1,100	1,103	2,707	85,154
Never attended	21,949	26,372	25,892	22,564	22,285	19,862	19,770	16,531	13,340	12,483	26,150	227,198
Employed	12,955	17,927	17,438	15,428	15,502	14,036	13,807	11,006	8,411	6,620	8,077	141,207
Unemployed	524	520	373	304	262	246	269	212	146	87	74	3,017
Inactive	8,470	7,925	8,081	6,832	6,521	5,580	5,694	5,313	4,783	5,776	17,999	82,974
Both attendence	75,236	70,574	57,358	42,806	38,729	29,900	27,662	22,047	16,392	14,574	29,745	425,023
Employed	22,343	42,921	40,609	30,945	28,476	21,879	19,886	15,090	10,333	7,598	8,950	249,030
Unemployed	1,450	2,858	1,161	560	480	348	365	281	176	97	89	7,865
Inactive	51,443	24,795	15,588	11,301	9,773	7,673	7,411	6,676	5,883	6,879	20,706	168,128

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.6: EMPLOYED PERSONS BY SECTOR OF EMPLOYMENT, EMPLOYMENT STATUS, SEX, RESIDENCE, BHUTAN 2005

Sector of employemnt, Residence	EMPLOYMENT STATUS															All status		
	Employer			Paid employee			Own-account worker			Unpaid family worker			Others					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
URBAN	1,493	379	1,872	40,715	9,433	50,148	5,341	4,863	10,204	1,156	2,785	3,941	2,816	1,151	3,967	51,521	18,611	70,132
Agriculture	39	18	57	1,098	371	1,469	477	524	1,001	530	881	1,411	51	51	102	2,195	1,845	4,040
Mining/Quarring	13	1	14	286	86	372	16	5	21	1	3	4	3	1	4	319	96	415
Manufacturing	71	14	85	1,778	373	2,151	78	253	331	6	125	131	2	4	6	1,935	769	2,704
Electricity/gas/water	48	5	53	1,677	263	1,940	30	5	35	7	2	9	4	0	4	1,766	275	2,041
Construction	226	18	244	9,918	582	10,500	491	43	534	72	16	88	134	14	148	10,841	673	11,514
Retail/Wholesale Trade	171	47	218	691	319	1,010	1,486	1,531	3,017	156	272	428	22	20	42	2,526	2,189	4,715
Hotel/Restaurant	81	78	159	846	497	1,343	391	519	910	63	129	192	10	5	15	1,391	1,228	2,619
Transport/Communication	132	15	147	3,853	317	4,170	732	20	752	58	4	62	31	0	31	4,806	356	5,162
Finance/Insurance	33	13	46	1,288	586	1,874	15	6	21	0	6	6	6	3	9	1,342	614	1,956
Public administration/security	202	27	229	9,085	1,169	10,254	29	9	38	11	8	19	39	7	46	9,366	1,220	10,586
Education	40	34	74	1,791	1,468	3,259	13	19	32	6	13	19	17	29	46	1,867	1,563	3,430
Health services	30	12	42	863	616	1,479	11	2	13	1	0	1	5	3	8	910	633	1,543
Others	407	97	504	7,541	2,786	10,327	1,572	1,927	3,499	245	1,326	1,571	2,492	1,014	3,506	12,257	7,150	19,407
RURAL	1,133	255	1,388	41,355	6,854	48,209	22,544	16,804	39,348	32,575	44,094	76,669	8,945	4,339	13,284	106,552	72,346	178,898
Agriculture	130	63	193	2,320	843	3,163	17,181	13,696	30,877	29,360	40,394	69,754	341	249	590	49,332	55,245	104,577
Mining/Quarring	24	6	30	1,665	440	2,105	68	33	101	32	35	67	112	9	121	1,901	523	2,424
Manufacturing	27	15	42	1,125	219	1,344	120	308	428	38	305	343	10	11	21	1,320	858	2,178
Electricity/gas/water	46	1	47	1,624	75	1,699	143	19	162	107	25	132	31	4	35	1,951	124	2,075
Construction	255	18	273	14,883	1,455	16,338	1,303	128	1,431	700	253	953	314	64	378	17,455	1,918	19,373
Retail/Wholesale Trade	16	3	19	133	50	183	681	795	1,476	105	215	320	16	18	34	951	1,081	2,032
Hotel/Restaurant	23	9	32	535	299	834	154	253	407	35	78	113	8	4	12	755	643	1,398
Transport/Communication	60	6	66	1,977	252	2,229	442	17	459	99	16	115	25	1	26	2,603	292	2,895
Finance/Insurance	7	8	15	240	56	296	6	3	9	4	6	10	1	0	1	258	73	331
Public administration/security	135	3	138	6,378	239	6,617	66	4	70	39	15	54	29	0	29	6,647	261	6,908
Education	146	49	195	2,762	1,153	3,915	78	19	97	44	32	76	102	17	119	3,132	1,270	4,402
Health services	39	12	51	693	199	892	9	2	11	8	6	14	7	3	10	756	222	978
Others	225	62	287	7,020	1,574	8,594	2,293	1,527	3,820	2,004	2,714	4,718	7,949	3,959	11,908	19,491	9,836	29,327

TABLE 4.6: EMPLOYED PERSONS BY SECTOR OF EMPLOYMENT, EMPLOYMENT STATUS, SEX, RESIDENCE, BHUTAN 2005

Sector of employemnt, Residence	EMPLOYMENT STATUS															All status		
	Employer			Paid employee			Own-account worker			Unpaid family worker			Others					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
BOTH AREAS	2,626	634	3,260	82,070	16,287	98,357	27,885	21,667	49,552	33,731	46,879	80,610	11,761	5,490	17,251	158,073	90,957	249,030
Agriculture	169	81	250	3,418	1,214	4,632	17,658	14,220	31,878	29,890	41,275	71,165	392	300	692	51,527	57,090	108,617
Mining/Quarring	37	7	44	1,951	526	2,477	84	38	122	33	38	71	115	10	125	2,220	619	2,839
Manufacturing	98	29	127	2,903	592	3,495	198	561	759	44	430	474	12	15	27	3,255	1,627	4,882
Electricity/gas/water	94	6	100	3,301	338	3,639	173	24	197	114	27	141	35	4	39	3,717	399	4,116
Construction	481	36	517	24,801	2,037	26,838	1,794	171	1,965	772	269	1,041	448	78	526	28,296	2,591	30,887
Retail/Wholesale Trade	187	50	237	824	369	1,193	2,167	2,326	4,493	261	487	748	38	38	76	3,477	3,270	6,747
Hotel/Restaurant	104	87	191	1,381	796	2,177	545	772	1,317	98	207	305	18	9	27	2,146	1,871	4,017
Transport/Communication	192	21	213	5,830	569	6,399	1,174	37	1,211	157	20	177	56	1	57	7,409	648	8,057
Finance/Insurance	40	21	61	1,528	642	2,170	21	9	30	4	12	16	7	3	10	1,600	687	2,287
Public administration/security	337	30	367	15,463	1,408	16,871	95	13	108	50	23	73	68	7	75	16,013	1,481	17,494
Education	186	83	269	4,553	2,621	7,174	91	38	129	50	45	95	119	46	165	4,999	2,833	7,832
Health services	69	24	93	1,556	815	2,371	20	4	24	9	6	15	12	6	18	1,666	855	2,521
Others	632	159	791	14,561	4,360	18,921	3,865	3,454	7,319	2,249	4,040	6,289	10,441	4,973	15,414	31,748	16,986	48,734

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.7: CURRENTLY EMPLOYED POPULATION BY SECTOR OF EMPLOYMENT, RESIDENCE, AGE GROUP, SEX, BHUTAN 2005

Sector, Residence	Male					Female					Both sex				
	15-24	25-54	55 - 64	65 +	All ages	15-24	25-54	55 - 64	65 +	All ages	15-24	25-54	55 - 64	65 +	All ages
URBAN	13,399	35,834	1,699	589	51,521	5,965	12,003	472	171	18,611	19,364	47,837	2,171	760	70,132
Agriculture	302	1,555	213	125	2,195	383	1,250	139	73	1,845	685	2,805	352	198	4,040
Mining/Quarring	66	238	13	2	319	31	64	0	1	96	97	302	13	3	415
Manufacturing	487	1,383	48	17	1,935	269	485	13	2	769	756	1,868	61	19	2,704
Electricity/gas/water	268	1,465	30	3	1,766	68	207	0	0	275	336	1,672	30	3	2,041
Construction	4,371	6,210	209	51	10,841	223	434	11	5	673	4,594	6,644	220	56	11,514
Retail/Wholesale Trade	481	1,693	257	95	2,526	498	1,573	92	26	2,189	979	3,266	349	121	4,715
Hotel/Restaurant	467	824	68	32	1,391	480	703	39	6	1,228	947	1,527	107	38	2,619
Transport/Communication	1,153	3,583	65	5	4,806	149	205	1	1	356	1,302	3,788	66	6	5,162
Finance/Insurance	142	1,160	39	1	1,342	190	422	2	0	614	332	1,582	41	1	1,956
Public administration/security	2,166	7,001	169	30	9,366	425	791	2	2	1,220	2,591	7,792	171	32	10,586
Education	259	1,552	50	6	1,867	474	1,082	6	1	1,563	733	2,634	56	7	3,430
Health services	85	797	25	3	910	93	535	5	0	633	178	1,332	30	3	1,543
Others (Not classified above)	3,152	8,373	513	219	12,257	2,682	4,252	162	54	7,150	5,834	12,625	675	273	19,407
RURAL	26,029	65,986	9,446	5,091	106,552	19,871	43,062	6,314	3,099	72,346	45,900	109,048	15,760	8,190	178,898
Agriculture	10,184	28,696	6,568	3,884	49,332	13,947	33,020	5,523	2,755	55,245	24,131	61,716	12,091	6,639	104,577
Mining/Quarring	658	1,157	69	17	1,901	221	290	8	4	523	879	1,447	77	21	2,424
Manufacturing	359	894	42	25	1,320	301	512	38	7	858	660	1,406	80	32	2,178
Electricity/gas/water	492	1,401	50	8	1,951	43	76	4	1	124	535	1,477	54	9	2,075
Construction	6,109	10,533	637	176	17,455	740	1,122	47	9	1,918	6,849	11,655	684	185	19,373
Retail/Wholesale Trade	127	649	122	53	951	202	801	58	20	1,081	329	1,450	180	73	2,032
Hotel/Restaurant	234	482	27	12	755	250	361	27	5	643	484	843	54	17	1,398
Transport/Communication	627	1,915	57	4	2,603	103	186	2	1	292	730	2,101	59	5	2,895
Finance/Insurance	32	220	4	2	258	21	52	0	0	73	53	272	4	2	331
Public administration/security	1,754	4,720	153	20	6,647	96	159	5	1	261	1,850	4,879	158	21	6,908
Education	681	2,366	58	27	3,132	537	722	6	5	1,270	1,218	3,088	64	32	4,402
Health services	77	658	17	4	756	37	183	2	0	222	114	841	19	4	978
Others (Not classified above)	4,695	12,295	1,642	859	19,491	3,373	5,578	594	291	9,836	8,068	17,873	2,236	1,150	29,327
BOTH AREAS	39,428	101,820	11,145	5,680	158,073	25,836	55,065	6,786	3,270	90,957	65,264	156,885	17,931	8,950	249,030
Agriculture	10,486	30,251	6,781	4,009	51,527	14,330	34,270	5,662	2,828	57,090	24,816	64,521	12,443	6,837	108,617
Mining/Quarring	724	1,395	82	19	2,220	252	354	8	5	619	976	1,749	90	24	2,839
Manufacturing	846	2,277	90	42	3,255	570	997	51	9	1,627	1,416	3,274	141	51	4,882
Electricity/gas/water	760	2,866	80	11	3,717	111	283	4	1	399	871	3,149	84	12	4,116
Construction	10,480	16,743	846	227	28,296	963	1,556	58	14	2,591	11,443	18,299	904	241	30,887
Retail/Wholesale Trade	608	2,342	379	148	3,477	700	2,374	150	46	3,270	1,308	4,716	529	194	6,747
Hotel/Restaurant	701	1,306	95	44	2,146	730	1,064	66	11	1,871	1,431	2,370	161	55	4,017
Transport/Communication	1,780	5,498	122	9	7,409	252	391	3	2	648	2,032	5,889	125	11	8,057
Finance/Insurance	174	1,380	43	3	1,600	211	474	2	0	687	385	1,854	45	3	2,287
Public administration/security	3,920	11,721	322	50	16,013	521	950	7	3	1,481	4,441	12,671	329	53	17,494
Education	940	3,918	108	33	4,999	1,011	1,804	12	6	2,833	1,951	5,722	120	39	7,832
Health services	162	1,455	42	7	1,666	130	718	7	0	855	292	2,173	49	7	2,521
Others (Not classified above)	7,847	20,668	2,155	1,078	31,748	6,055	9,830	756	345	16,986	13,902	30,498	2,911	1,423	48,734

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.8: EMPLOYED POPULATION 15 YEARS ABOVE BY OCCUPATION, RESIDENCE, SEX, BHUTAN 2005

Occupation	Urban			Rural			Both areas		
	Male	Female	Both sex	Male	Female	Both sex	Male	Female	Both sex
Executives	227	33	260	327	9	336	554	42	596
Program Managers, General Managers etc.	910	197	1,107	194	39	233	1,104	236	1,340
Physicist, chemists related professional	40	14	54	20	3	23	60	17	77
Mathematicians/statisticians	121	39	160	31	4	35	152	43	195
Computer professionals	425	554	979	107	103	210	532	657	1,189
Engineers, architects	1,375	146	1,521	673	46	719	2,048	192	2,240
Human & animal doctors	105	41	146	44	16	60	149	57	206
Health supervisors, assistant, nurses & midwife	437	458	895	337	163	500	774	621	1,395
Lecturers in college, institutes	144	42	186	41	14	55	185	56	241
School teachers	1,120	1,044	2,164	1,899	835	2,734	3,019	1,879	4,898
Bussiness professional	1,631	1,267	2,898	577	545	1,122	2,208	1,812	4,020
Thrimpoen, Thrimrap, Jab-mee	83	13	96	12	1	13	95	14	109
Library science, social science & information related	118	108	226	43	58	101	161	166	327
Chhampoen (dancer), Tseepem (singer) and sports professional	258	73	331	144	11	155	402	84	486
Lamas, Lopens, Rimpochhe	144	3	147	197	7	204	341	10	351
Assistant engineers, support engineers	383	53	436	163	17	180	546	70	616
Civil aviation	76	16	92	39	17	56	115	33	148
Safety quality inspectors	43	7	50	13	2	15	56	9	65
Livestock health professional	446	156	602	567	187	754	1,013	343	1,356
Dungtsho, Menpa	19	5	24	15	1	16	34	6	40
Teachers of Shedra, non-formal and others	65	45	110	277	157	434	342	202	544
Auditor	209	59	268	32	5	37	241	64	305
Bussiness agents, brokers	27	8	35	3	6	9	30	14	44
Administrative management	817	339	1,156	197	58	255	1,014	397	1,411
Customs, taxing related professionals	231	37	268	49	9	58	280	46	326
Security personnel	6,586	85	6,671	5,181	32	5,213	11,767	117	11,884
Gelong, gomchhen, anim	570	53	623	1,377	67	1,444	1,947	120	2,067
Clerks, keyboard operating clerks, secretaries	930	880	1,810	968	238	1,206	1,898	1,118	3,016
Financial accountant	863	489	1,352	452	116	568	1,315	605	1,920
Store keeper, ticket seller	365	121	486	126	28	154	491	149	640
Post mail delivery man	64	34	98	20	9	29	84	43	127
Cashiers, teller clerks	714	454	1,168	843	125	968	1,557	579	2,136

TABLE 4.8: EMPLOYED POPULATION 15 YEARS ABOVE BY OCCUPATION, RESIDENCE, SEX, BHUTAN 2005

Occupation	Urban			Rural			Both areas		
	Male	Female	Both sex	Male	Female	Both sex	Male	Female	Both sex
Receptionists	210	137	347	112	36	148	322	173	495
Tourist guides, ushers	323	41	364	147	12	159	470	53	523
Housekeeping, sweeper	486	537	1,023	231	236	467	717	773	1,490
Beautician, barber	63	81	144	13	6	19	76	87	163
Tseep (astrologer)	28	3	31	48	3	51	76	6	82
Watchman, guard	1,985	94	2,079	1,669	90	1,759	3,654	184	3,838
Fashion, models, characters	13	5	18	3	2	5	16	7	23
Retailer	1,911	1,975	3,886	835	1,112	1,947	2,746	3,087	5,833
Meet, cheese, butter seller	52	16	68	23	11	34	75	27	102
Market oriented crop & livestock raising	172	111	283	111	74	185	283	185	468
Logging contractor	400	77	477	684	60	744	1,084	137	1,221
Farming	1,487	1,712	3,199	50,085	56,290	106,375	51,572	58,002	109,574
Miners, stone cutters, carving	2,355	77	2,432	2,718	222	2,940	5,073	299	5,372
Goldsmith	152	3	155	76	3	79	228	6	234
Building construction finish-ups	31	2	33	23	4	27	54	6	60
Painter, Lhadrip	511	41	552	375	4	379	886	45	931
Welder	97	1	98	136	0	136	233	1	234
Blacksmiths	49	3	52	186	11	197	235	14	249
Mechanic	1,234	41	1,275	856	18	874	2,090	59	2,149
Electrical equipment fitters	994	89	1,083	860	39	899	1,854	128	1,982
Potters	24	1	25	38	2	40	62	3	65
Weavers, pap, bowl making	144	2,843	2,987	270	2,307	2,577	414	5,150	5,564
Food manufacturing workers	61	34	95	20	6	26	81	40	121
Carpenter	1,907	18	1,925	3,241	59	3,300	5,148	77	5,225
Tailor	349	53	402	86	11	97	435	64	499
Mining, mineral processing plant operators	101	3	104	119	38	157	220	41	261
Power production & related plant operator	41	8	49	55	1	56	96	9	105
Metals, chemical, other plant machine operator	110	15	125	100	8	108	210	23	233
Printing/binding, paper product worker	50	17	67	10	2	12	60	19	79
Plumber	292	6	298	370	19	389	662	25	687
Chain operator	285	18	303	382	9	391	667	27	694
Heavy machine, locomotive engine operator & worker	57	2	59	70	2	72	127	4	131

TABLE 4.8: EMPLOYED POPULATION 15 YEARS ABOVE BY OCCUPATION, RESIDENCE, SEX, BHUTAN 2005

Occupation	Urban			Rural			Both areas		
	Male	Female	Both sex	Male	Female	Both sex	Male	Female	Both sex
Motor vehicle drivers	4,512	33	4,545	2,172	18	2,190	6,684	51	6,735
Port, ship related worker	0	1	1	8	0	8	8	1	9
Contractors excluding logging	471	31	502	448	22	470	919	53	972
Pavement vendors (doma, cloth etc.)	73	88	161	14	41	55	87	129	216
Cobbling & cleaning services	34	0	34	9	4	13	43	4	47
Household chores, maid, baby sitter	1,370	1,297	2,667	1,284	381	1,665	2,654	1,678	4,332
Messenger, porter, & related worker	181	69	250	144	17	161	325	86	411
Garbage collectors	13	2	15	4	2	6	17	4	21
Cattle herder	78	28	106	1,982	1,013	2,995	2,060	1,041	3,101
Road laborer	5,906	666	6,572	12,993	2,843	15,836	18,899	3,509	22,408
Sawmill laborer	210	68	278	368	41	409	578	109	687
Transport laborer, freight handler	74	6	80	55	4	59	129	10	139
No skills	58	67	125	130	87	217	188	154	342
Occupation not stated	512	271	783	700	273	973	1,212	544	1,756
Occupation not classified	2,509	1,047	3,556	7,321	3,975	11,296	9,830	5,022	14,852
ALL OCCUPATION	51,521	18,611	70,132	106,552	72,346	178,898	158,073	90,957	249,030

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

TABLE 4.9: POPULATION 15 YEARS ABOVE BY MAIN SOURCE OF INCOME, BY AGE GROUP, SEX, RESIDENCE, BHUTAN 2005

Source of income,	Male				Female				Both sex			
Residence	15-24	25- 64	65+	All ages	15-24	25- 64	65+	All ages	15-24	25- 64	65+	All ages
Urban	30,543	42,747	2,067	75,357	26,007	31,723	2,235	59,965	56,550	74,470	4,302	135,322
Salary/wage	12,016	31,592	196	43,804	3,856	6,170	27	10,053	15,872	37,762	223	53,857
Own enterprise	524	4,570	238	5,332	545	2,966	58	3,569	1,069	7,536	296	8,901
Farming	257	1,232	227	1,716	334	1,478	148	1,960	591	2,710	375	3,676
Property	35	461	140	636	33	467	85	585	68	928	225	1,221
Pension	7	114	37	158	8	18	7	33	15	132	44	191
Stipend	2,303	374	5	2,682	1,432	67	1	1,500	3,735	441	6	4,182
Remittances	2,189	177	41	2,407	1,551	226	60	1,837	3,740	403	101	4,244
Livestock	23	70	26	119	20	133	15	168	43	203	41	287
Weaving	6	25	2	33	1,162	3,334	27	4,523	1,168	3,359	29	4,556
Other sources	299	1,079	81	1,459	146	510	36	692	445	1,589	117	2,151
No income	12,884	3,053	1,074	17,011	16,920	16,354	1,771	35,045	29,804	19,407	2,845	52,056
Rural	47,215	91,995	13,264	152,474	42,045	83,003	12,179	137,227	89,260	174,998	25,443	289,701
Salary/wage	12,806	30,728	376	43,910	2,732	4,384	40	7,156	15,538	35,112	416	51,066
Own enterprise	253	2,331	163	2,747	309	1,573	42	1,924	562	3,904	205	4,671
Farming	10,522	40,922	5,414	56,858	15,125	46,526	3,996	65,647	25,647	87,448	9,410	122,505
Property	71	511	156	738	71	400	90	561	142	911	246	1,299
Pension	9	203	75	287	5	39	3	47	14	242	78	334
Stipend	3,190	1,070	23	4,283	1,234	121	7	1,362	4,424	1,191	30	5,645
Remittances	3,170	1,193	700	5,063	2,226	1,330	861	4,417	5,396	2,523	1,561	9,480
Livestock	942	3,414	654	5,010	916	3,152	296	4,364	1,858	6,566	950	9,374
Weaving	25	124	33	182	1,851	4,370	107	6,328	1,876	4,494	140	6,510
Other sources	1,343	3,857	614	5,814	457	1,342	268	2,067	1,800	5,199	882	7,881
No income	14,884	7,642	5,056	27,582	17,119	19,766	6,469	43,354	32,003	27,408	11,525	70,936
Both areas	77,758	134,742	15,331	227,831	68,052	114,726	14,414	197,192	145,810	249,468	29,745	425,023
Salary/wage	24,822	62,320	572	87,714	6,588	10,554	67	17,209	31,410	72,874	639	104,923
Own enterprise	777	6,901	401	8,079	854	4,539	100	5,493	1,631	11,440	501	13,572
Farming	10,779	42,154	5,641	58,574	15,459	48,004	4,144	67,607	26,238	90,158	9,785	126,181
Property	106	972	296	1,374	104	867	175	1,146	210	1,839	471	2,520
Pension	16	317	112	445	13	57	10	80	29	374	122	525
Stipend	5,493	1,444	28	6,965	2,666	188	8	2,862	8,159	1,632	36	9,827
Remittances	5,359	1,370	741	7,470	3,777	1,556	921	6,254	9,136	2,926	1,662	13,724
Livestock	965	3,484	680	5,129	936	3,285	311	4,532	1,901	6,769	991	9,661
Weaving	31	149	35	215	3,013	7,704	134	10,851	3,044	7,853	169	11,066
Other sources	1,642	4,936	695	7,273	603	1,852	304	2,759	2,245	6,788	999	10,032
No income	27,768	10,695	6,130	44,593	34,039	36,120	8,240	78,399	61,807	46,815	14,370	122,992

Source: Population and Housing Census of Bhutan 2005, Office of the Census Commissioner, Thimphu

CHAPETR 5
LAND USE AND AGRICULTURE

The Ministry of Agriculture, over the past four decades, was concerned about "how to grow" by establishing various agriculture infrastructures to produce and distribute the inputs. Currently the Ministry of Agriculture established 4 main RNR research centers. The Ministry of Agriculture with the accumulated experiences having accomplished one five year plan to the other, maintains the three basic objectives that are to conserve the environment, enhance the rural income and attain self reliance in cereals and essential oil crops. In 2004, Agriculture contributed 24.7% to the total economy i.e., as measured by the Gross Domestic Product. It was also the single largest sector that provides livelihood to 79% of the population.

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 Jatsha 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 designed policies but 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. The Ministry of Agriculture conducts nation wide sample surveys and the major source of Agricultural data is now available from the National Agricultural Census that was conducted in 2000.

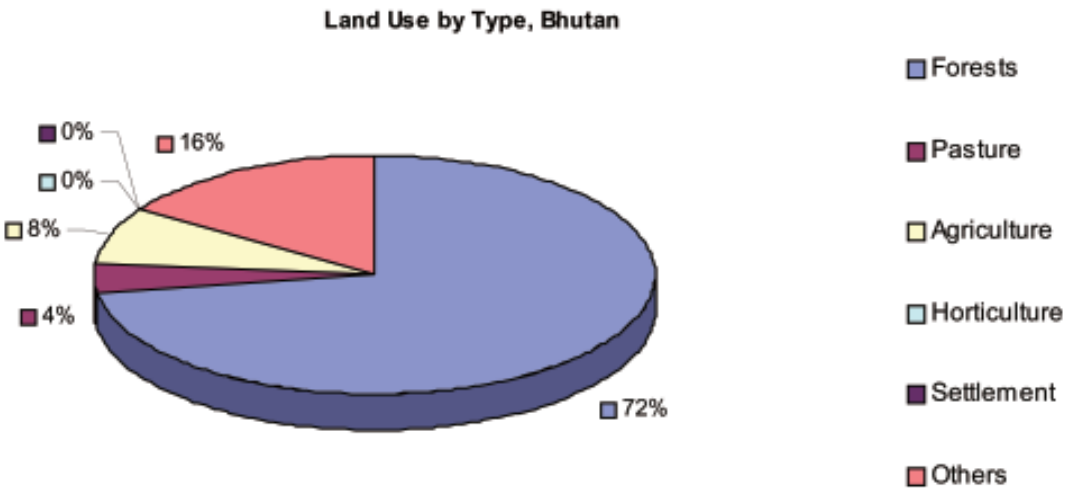


TABLE 5.1: LAND-USE AND VEGETATION TYPES AS PERCENTAGE OF TOTAL AREA, BHUTAN, 1995

Land-use and vegetation types	Percent
Forests	72.5
Conifer forest	26.5
Fir	8.6
Mixed conifer	12.1
Blue pine	3.2
Chir pine	2.5
Broadleaf forest	37.7
Broadleaf + conifer	3.4
Broadleaf forest	34.3
Forest plantation	0.2
Conifer plantation	0.1
Broadleaf plantation	0.1
Scrub forest	8.1
Pasture	3.9
Natural pastures	3.9
Improved pastures	0.0
Agriculture	7.7
Wetland cultivation	1.0
Irrigated wetland	1.0
Rainfed wetland	0.0
Dryland cultivation	2.4
Terraced dryland	0.3
Unterraced dryland	2.2
Tseri (Shifting cultivation)	2.2
Mixed cultivated land	2.1
Horticulture	0.1
Orchards	0.1
Apple orchards	0.0
Citrus orchard	0.0
Horticulture plantations	0.1
Cardamom plantation	0.1
Arecanut plantation	0.0
Ginger plantation	0.0
Settlement	0.1
Others	15.7
Snow/glaciers	7.5
Rock outcrops	5.0
Water spreads	0.8
Marshy areas	0.1
Landslips/erosion	2.4
Total	100.0

Note:

Horticulture areas might be underestimated as they were too small to be mapped at a scale 1:50,000 and because they were under forest cover.

Source:PPD, Ministry of Agriculture, Thimphu.

TABLE 5.2: PERCENTAGE OF AREA BY DZONGKHAG, BY TYPE OF LAND COVER, BHUTAN, 1995

(percent)

Dzongkhag	Forest	Pasture	Agri-culture	Horti-culture	Settle-ment	Others	Total area
Bumthang	4.5	0.6	0.1	0.0	0.0	1.6	6.8
Chhukha	3.9	0.1	0.4	0.0	0.0	0.1	4.5
Dagana	2.8	0.0	0.4	0.0	0.0	0.1	3.5
Gasa	3.6	0.6	0.0	..	0.0	6.8	11.0
Ha	3.4	0.3	0.1	0.0	0.0	0.5	4.3
Lhuentse	5.4	0.2	0.3	..	0.0	1.2	7.2
Monggar	4.3	0.0	0.5	..	0.0	0.0	4.9
Punakha	2.2	0.0	0.1	0.0	0.0	0.1	2.4
Paro	2.1	0.2	0.2	0.0	0.0	0.7	3.2
Pemagatshel	0.7	0.0	0.6	0.0	0.0	0.0	1.3
Samdrup Jongkhar	4.5	0.0	1.1	0.0	0.0	0.2	5.8
Samtse	3.2	0.0	0.6	0.0	0.0	0.1	3.9
Sarpang	4.8	0.0	0.7	0.0	0.0	0.2	5.7
Thimphu	2.7	0.8	0.1	0.0	0.0	1.2	4.8
Trashigang	4.5	0.3	0.8	..	0.0	0.1	5.7
Trashi Yangtse	2.7	0.1	0.3	..	0.0	0.4	3.6
Trongsa	3.9	0.2	0.3	0.0	0.0	0.1	4.5
Tsirang	1.2	0.0	0.3	0.0	0.0	0.0	1.6
Wangdue Phodrang	7.4	0.4	0.2	0.0	0.0	2.1	10.1
Zhemgang	4.6	0.0	0.6	0.0	0.0	0.1	5.3
Bhutan	72.5	3.9	7.7	0.0	0.0	15.7	100.0

Source:PPD,Ministry of Agriculture, Thimphu.

TABLE 5.3: ALTITUDE ZONES OF DZONGKHAGS AS PERCENTAGE OF THEIR TOTAL AREA, BHUTAN, 1995

(Percent)

Dzongkhag	Altitude at Dzongkhag centre (metres)	Altitude zones (metres)						Total
		0-600	600-1200	1200-1800	1800-2400	2400-3000	3000-3600	0-3600
Bumthang	2,690	0.0	0.0	0.0	0.4	10.6	26.2	37
Chhukha	2,220	7.7	17.2	20.8	20.4	18.7	11.8	97
Dagana	1,520	4.0	15.7	22.0	24.3	20.7	8.7	95
Gasa	3,659	0.0	0.0	0.1	0.9	2.5	4.8	8
Ha	2,712	0.0	0.8	3.6	7.3	16.1	24.0	52
Lhuentse	1,460	0.0	0.9	6.8	14.3	19.6	17.0	59
Monggar	1,620	3.1	17.9	27.1	23.3	16.0	11.2	99
Paro	2,280	0.0	0.0	0.0	6.3	25.3	24.8	56
Pemagatshel	1,200	7.9	39.0	39.7	13.2	0.2	0.0	100
Punakha	1,220	0.0	0.0	17.8	26.5	21.8	15.5	82
Samdrup Jongkhar	160	25.6	27.6	23.1	14.4	6.5	2.4	100
Samtse	390	17.0	25.5	24.3	18.8	11.0	2.5	99
Sarpang	210	31.1	29.4	21.1	14.6	2.9	0.7	100
Thimphu	2,320	0.0	0.0	1.0	5.0	16.3	18.8	41
Trashigang	1,040	0.2	4.9	15.8	22.2	20.6	18.0	82
Trashi Yangtse	1,830	0.0	2.3	6.7	16.5	23.4	18.8	68
Trongsa	2,180	0.0	2.9	10.4	19.5	28.8	21.2	83
Tsirang	1,620	7.3	31.4	30.1	19.8	7.6	3.2	99
Wangdue Phodrang	1,260	0.1	3.0	9.0	13.5	17.8	19.2	63
Zhemgang	1,916	9.5	27.1	28.0	17.9	9.7	5.1	97

Contd...

TABLE 5.3(contd.): ALTITUDE ZONES OF DZONGKHAGS AS PERCENTAGE OF THEIR TOTAL AREA, BHUTAN, 1995

(Percent)

Dzongkhag	Altitude zones (meters)							
	0-3600	3600-4200	4200-4800	4800-5400	5400-6000	6000-6600	> 6600	Total area(%)
Bumthang	37.2	25.7	18.4	16.3	2.2	0.2	0.0	100
Chhukha	96.6	3.1	0.1	0.0	0.1	0.0	0.0	100
Dagana	95.4	3.7	1.0	0.0	0.0	0.0	0.0	100
Gasa	8.3	11.2	21.9	28.6	21.1	7.4	1.4	100
Ha	51.8	27.9	17.6	2.6	0.1	0.0	0.0	100
Lhuentse	58.6	15.7	16.7	8.4	0.5	0.0	0.0	100
Monggar	98.6	1.5	0.0	0.0	0.0	0.0	0.0	100
Paro	56.4	18.6	21.3	3.5	0.1	0.0	0.0	100
Pemagatshel	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100
Punakha	81.6	12.6	5.7	0.1	0.0	0.0	0.0	100
Samdrup Jongkhar	99.6	0.3	0.0	0.0	0.0	0.0	0.0	100
Samtse	99.1	0.7	0.0	0.0	0.1	0.0	0.0	100
Sarpang	99.8	0.2	0.0	0.0	0.0	0.0	0.0	100
Thimphu	41.1	18.6	27.3	10.9	1.4	0.5	0.1	100
Trashigang	81.7	16.0	2.3	0.0	0.0	0.0	0.0	100
Trashi Yangtse	67.7	15.5	13.4	3.2	0.2	0.0	0.0	100
Trongsa	82.8	12.4	4.7	0.1	0.0	0.0	0.0	100
Tsirang	99.4	0.5	0.0	0.0	0.0	0.0	0.0	100
Wangdue Phodrang	62.6	12.7	12.5	11.1	1.1	0.0	0.0	100
Zhemgang	97.3	2.1	0.5	0.0	0.0	0.0	0.0	100

Source:PPD, Ministry of Agriculture, Thimphu.

TABLE 5.4: PERCENTAGE OF TOTAL AREA OF BHUTAN BY DZONGKHAG BY ALTITUDE ZONES, 1995

(Percent)

Dzongkhag	Area	Altitude zones (metres)						Total
		0-600	600-1200	1200-1800	800-24000	2400-3000	3000-3600	0-3600
Bumthang	6.8	0.0	0.0	0.0	0.0	0.7	1.8	2.5
Chhukha	4.5	0.3	0.8	0.9	0.9	0.8	0.5	4.3
Dagana	3.5	0.1	0.5	0.8	0.8	0.7	0.3	3.3
Gasa	11.0	0.0	0.0	0.0	0.1	0.3	0.5	0.9
Ha	4.3	0.0	0.0	0.2	0.3	0.7	1.0	2.2
Lhuentse	7.2	0.0	0.1	0.5	1.0	1.4	1.2	4.2
Monggar	4.9	0.2	0.9	1.3	1.1	0.8	0.5	4.8
Punakha	2.4	0.0	0.0	0.4	0.6	0.5	0.4	2.0
Paro	3.2	0.0	0.0	0.0	0.2	0.8	0.8	1.8
Pemagatshel	1.3	0.1	0.5	0.5	0.2	0.0	0.0	1.3
Samdrup Jongkhar	5.8	1.5	1.6	1.3	0.8	0.4	0.1	5.7
Samtse	3.9	0.7	1.0	1.0	0.7	0.4	0.1	3.9
Sarpang	5.7	1.8	1.7	1.2	0.8	0.2	0.0	5.7
Thimphu	4.8	0.0	0.0	0.0	0.2	0.8	0.9	2.0
Trashigang	5.7	0.0	0.3	0.9	1.3	1.2	1.0	4.7
Trashi Yangtse	3.6	0.0	0.1	0.2	0.6	0.8	0.7	2.4
Trongsa	4.5	0.0	0.1	0.5	0.9	1.3	1.0	3.7
Tsirang	1.6	0.1	0.5	0.5	0.3	0.1	0.1	1.6
Wangdue Phodrang	10.1	0.0	0.3	0.9	1.4	1.8	1.9	6.3
Zhemgang	5.3	0.5	1.4	1.5	0.9	0.5	0.3	5.2
Bhutan	100.0	5.3	9.8	12.6	13.4	14.3	13.2	68.6

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TABLE 5.4 (contd.): PERCENTAGE OF TOTAL AREA OF BHUTAN BY DZONGKHAG BY ALTITUDE ZONES, 1995

(Percent)

Dzongkhag	Area	Altitude zones (metres)							Total area (%)
		0-3600	3600-4200	4200-4800	4800-5400	5400-6000	6000-6600	>6600	
Bumthang	6.8	0.0	0.0	0.0	0.0	0.7	1.8	2.5	6.8
Chhukha	4.5	0.3	0.8	0.9	0.9	0.8	0.5	4.3	4.5
Dagana	3.5	0.1	0.5	0.8	0.8	0.7	0.3	3.3	3.5
Gasa	11.0	0.0	0.0	0.0	0.1	0.3	0.5	0.9	11.0
Ha	4.3	0.0	0.0	0.2	0.3	0.7	1.0	2.2	4.3
Lhuentse	7.2	0.0	0.1	0.5	1.0	1.4	1.2	4.2	7.2
Monggar	4.9	0.2	0.9	1.3	1.1	0.8	0.5	4.8	4.9
Punakha	2.4	0.0	0.0	0.4	0.6	0.5	0.4	2.0	2.4
Paro	3.2	0.0	0.0	0.0	0.2	0.8	0.8	1.8	3.2
Pemagatshel	1.3	0.1	0.5	0.5	0.2	0.0	0.0	1.3	1.3
Samdrup Jongkhar	5.8	1.5	1.6	1.3	0.8	0.4	0.1	5.7	5.8
Samtse	3.9	0.7	1.0	1.0	0.7	0.4	0.1	3.9	3.9
Sarpang	5.7	1.8	1.7	1.2	0.8	0.2	0.0	5.7	5.7
Thimphu	4.8	0.0	0.0	0.0	0.2	0.8	0.9	2.0	4.8
Trashigang	5.7	0.0	0.3	0.9	1.3	1.2	1.0	4.7	5.7
Trashi Yangtse	3.6	0.0	0.1	0.2	0.6	0.8	0.7	2.4	3.6
Trongsa	4.5	0.0	0.1	0.5	0.9	1.3	1.0	3.7	4.5
Tsirang	1.6	0.1	0.5	0.5	0.3	0.1	0.1	1.6	1.6
Wangdue Phodrang	10.1	0.0	0.3	0.9	1.4	1.8	1.9	6.3	10.1
Zhemgang	5.3	0.5	1.4	1.5	0.9	0.5	0.3	5.2	5.3
Bhutan	100.0	5.3	9.8	12.6	13.4	14.3	13.2	68.6	100.0

Source: PPD, Ministry of Agriculture, Thimphu.

TABLE 5.5: AVERAGE TEMPERATURE (DEGREE CENTIGRADE) RECORDS FROM 1996 TO 2006

(Degree Celsius)

Dzongkhag	Tempe-rature	Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bumthang	Max	11.0	12.5	14.8	17.1	19.4	21.7	22.5	22.4	21.1	18.0	15.1	12.6
	Min	-4.2	-1.3	1.9	5.7	9.4	12.9	14.3	14.3	12.3	6.6	1.6	-3.6
	Ave	3.4	5.6	8.3	11.4	14.4	17.3	18.4	18.4	16.7	12.3	8.4	4.5
Chhukha	Max	23.9	26.5	29.5	31.1	32.4	32.6	31.9	32.6	31.6	31.2	28.3	24.9
	Min	13.7	15.9	18.8	20.5	22.6	24.2	24.3	24.7	23.7	21.8	18.3	15.2
	Ave	18.8	21.2	24.1	25.8	27.5	28.4	28.1	28.7	27.6	26.5	23.3	20.0
Dagana	Max	11.0	12.3	16.1	19.7	21.9	23.2	23.1	23.0	22.4	20.0	15.8	13.0
	Min	6.1	7.2	10.9	13.7	15.7	17.6	18.1	17.8	17.1	15.3	11.0	8.2
	Ave	8.5	9.8	13.5	16.7	18.8	20.4	20.6	20.4	19.8	17.6	13.4	10.6
Gasa*	Max	9.2	10.0	12.4	15.5	18.0	20.6	22.8	22.5	20.7	18.6	13.7	11.0
	Min	0.4	1.1	3.6	7.5	10.4	12.8	13.2	12.6	12.1	11.2	4.6	0.5
	Ave	4.8	5.5	8.0	11.5	14.2	16.7	18.0	17.5	16.4	14.9	9.2	5.8
Ha Namjayling	Max	10.0	10.8	13.0	15.3	17.8	19.4	20.3	20.4	18.8	16.4	13.8	11.5
	Min	-4.2	-2.0	1.5	5.1	9.4	12.8	14.2	13.9	12.2	6.4	0.8	-3.1
	Ave	2.9	4.4	7.2	10.2	13.6	16.1	17.3	17.1	15.5	11.4	7.3	4.2
Lhuentse	Max	17.7	20.3	23.9	26.3	27.2	28.5	28.9	29.3	28.2	25.6	22.7	18.4
	Min	6.7	8.5	11.8	14.5	16.7	19.3	19.6	19..7	18.7	14.8	11.4	7.9
	Ave	12.2	14.4	17.9	20.4	21.9	23.9	24.3	24.5	23.5	20.2	17.0	13.2
Monggar	Max	16.1	18.6	21.5	20.0	25.7	26.6	26.8	27.8	26.8	24.4	20.7	17.7
	Min	6.0	7.9	11.2	13.6	15.8	18.0	18.5	18.3	17.1	13.7	10.0	7.2
	Ave	11.1	13.2	16.4	18.8	20.7	22.3	22.7	23.0	21.9	19.1	15.3	12.4
Punakha	Max	17.5	19.3	22.2	24.9	27.3	29.2	29.1	28.9	27.9	25.6	22.1	18.9
	Min	5.8	8.1	11.2	13.8	17.2	19.3	20.1	19.0	18.1	15.6	12.1	7.5
	Ave	11.7	13.7	16.7	19.3	22.3	24.3	24.6	24.0	23.0	20.6	17.1	13.2
Paro	Max	12.8	14.9	17.6	20.1	22.5	24.5	25.4	25.2	23.5	20.4	15.8	14.0
	Min	1.0	3.1	5.6	8.9	12.3	15.4	17.7	17.1	15.1	10.8	6.2	2.5
	Ave	6.9	9.0	11.6	14.5	17.4	19.9	21.6	21.1	19.3	15.6	11.0	8.2
Pemagatshel	Max	16.6	18.1	20.6	23.0	25.0	25.9	26.8	26.4	25.8	24.3	21.2	18.8
	Min	5.6	7.3	10.1	12.7	15.2	16.9	17.6	17.2	16.2	12.9	9.7	7.0
	Ave	11.1	12.7	15.4	17.9	20.1	21.4	22.2	21.8	21.0	18.6	15.5	12.9
Samdrup Jongkhar	Max	21.0	22.9	25.3	26.2	27.6	28.5	28.8	29.4	28.6	28.1	25.9	23.0
	Min	9.5	11.5	14.3	16.3	18.6	20.6	21.1	21.2	20.1	15.9	14.1	11.1
	Ave	15.2	17.2	19.8	21.3	23.1	24.5	24.9	25.3	24.4	22.0	20.0	17.0

Contd...

TABLE 5.5 (contd.): AVERAGE TEMPERATURE (DEGREE CENTIGRADE) RECORDS FROM 1996 TO 2006

(Degree Celsius)

Dzongkhag	Tempe-rature	Month											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Samtse	Max	20.5	22.7	25.7	27.3	28.0	28.3	27.8	28.5	28.4	27.7	25.1	22.7
	Min	13.3	16.1	19.0	21.0	22.6	23.9	24.3	24.5	23.6	21.1	18.2	15.2
	Ave	16.9	19.4	22.3	24.1	25.3	26.1	26.0	26.5	26.0	24.4	21.6	18.9
Sarpang	Max	22.9	24.7	26.6	28.3	29.4	29.7	30.2	30.9	30.4	28.9	26.7	24.1
	Min	13.4	16.2	18.3	21.0	22.7	24.0	24.3	24.7	24.1	21.2	17.8	14.7
	Ave	18.2	20.4	22.5	24.7	26.1	26.9	27.2	27.8	27.3	25.1	22.3	19.4
Thimphu	Max	14.6	15.8	18.2	20.7	22.8	24.4	24.8	25.1	23.8	21.2	18.3	16.0
	Min	-3.3	-0.7	3.0	6.7	10.9	14.6	15.9	15.4	13.6	8.0	2.2	-2.1
	Ave	5.6	7.6	10.6	13.7	16.9	19.5	20.4	20.2	18.7	14.6	10.3	7.0
Trashigang	Max	13.6	15.6	18.8	21.1	22.7	23.7	24.3	24.8	23.9	21.7	18.2	15.4
	Min	2.5	4.6	7.3	10.4	13.3	16.2	17.0	16.8	15.5	11.2	7.2	3.9
	Ave	8.1	10.1	13.0	15.8	18.0	20.0	20.6	20.8	19.7	16.5	12.7	9.6
Tashi Yangtse	Max	12.3	14.8	16.7	19.8	22.2	23.2	23.7	23.6	22.4	19.9	16.5	13.2
	Min	3.6	6.2	8.2	11.1	14.2	17.0	18.5	17.9	16.5	12.3	8.1	4.1
	Ave	8.0	10.5	12.5	15.4	18.2	20.1	21.1	20.7	19.5	16.1	12.3	8.6
Trongsa	Max	17.5	19.3	22.3	23.9	23.6	24.7	25.9	26.6	25.0	22.3	19.3	18.0
	Min	5.6	6.2	10.4	13.5	14.5	17.2	18.2	18.1	17.1	13.4	9.7	7.2
	Ave	11.5	12.7	16.3	18.7	19.0	20.9	22.0	22.3	21.1	17.9	14.5	12.6
Tsirang	Max	14.1	15.7	18.7	20.7	22.1	23.1	23.5	24.0	23.4	21.8	19.2	16.3
	Min	4.6	6.5	9.5	12.9	15.7	18.0	18.6	18.3	17.2	13.4	9.4	5.8
	Ave	9.4	11.1	14.1	16.8	18.9	20.5	21.0	21.2	20.3	17.6	14.3	11.0
Wangduephodrang	Max	17.8	19.4	22.7	25.5	27.3	28.2	27.6	27.9	27.1	25.6	22.4	19.5
	Min	5.5	8.1	10.8	14.4	17.8	20.3	20.9	20.6	19.5	15.1	10.5	6.0
	Ave	11.6	13.7	16.7	19.9	22.5	24.3	24.3	24.2	23.3	20.3	16.4	12.7
Zhemgang	Max	12.5	13.9	16.6	18.9	20.7	22.3	22.8	22.8	21.9	19.9	16.9	13.9
	Min	4.8	6.7	10.1	13.2	15.6	17.7	18.2	18.2	16.9	13.5	9.8	6.3
	Ave	8.7	10.3	13.4	16.1	18.1	20.0	20.5	20.5	19.4	16.7	13.4	10.1

Note: * Regarding Gasa Dzongkhag, the datas are from the year 2003 to 2006

Source : Metrology Section, Hydro-mets Services Division, DoE,MTI,Thimphu.

TABLE 5.6: TOTAL MONTHLY RAINFALL AT EXISTING STATIONS IN EACH DZONGKHAG, BHUTAN, 2006

(Millimeter)

Dzongkhag and station	Month												Total rain fall
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Bumthang													
Chamkhar (A)	0.0	5.5	43.2	107.5	86.9	78.3	168.2	192.9	57.8	18.1	21.7	0.0	780.1
Gyetsa (C)	0.0	9.7	35.3	124.1	100.7	68.8	175.2	132.0	69.7	19.1	2.2	1.0	737.8
Chhukha													
Chhukha	0.0	0.0	0.0	0.0	196.0	245.4	183.4	99.0	159.4	43.8	15.2	16.8	959.0
Gedu	0.0	16.3	77.1	237.2	504.2	745.8	447.3	125.8	432.2	68.0	30.0	22.6	2,706.5
Phuentsholing	172.8	109.1	208.8	126.7	125.0	66.4	52.2	119.3	88.7	228.1	97.3	163.0	1,557.4
Tala	0.0	14.0	47.0	169.0	388.7	631.8	528.0	113.4	550.0	102.2	57.0	25.0	2,626.1
Dagana													
Dagana Dzong	0.0	0.0	10.0	203.9	100.1	190.9	257.3	135.1	267.5	70.3	6.7	20.1	1,261.9
Drujaygang	0.0	2.9	10.9	82.9	79.8	162.5	346.2	98.2	201.7	30.5	9.6	13.0	1,038.2
Tashithang	0.0	0.0	22.0	37.0	135.0	154.0	181.0	126.0	221.0	17.0	17.0	21.0	931.0
Gasa													
Gasa Katey	0.0	0.0	29.0	58.4	228.8	290.5	311.9	321.4	316.0	295.7	59.7	14.2	1,838.2
Haa													
Haa Namjeyling	0.0	8.0	56.5	62.9	46.5	70.0	249.9	166.9	121.9	25.3	32.6	0.0	840.5
Lhuentse													
Khomachu	0.0	7.0	20.1	71.6	158.8	77.4	107.8	219.8	56.6	21.1	19.4	1.0	760.6
Autsho	0.0	11.2	15.6	77.0	105.0	121.2	64.8	126.4	86.0	16.6	21.4	8.0	653.2
Dungkhar	6.6	16.4	53.6	158.6	169.2	44.2	342.2	256.7	199.2	74.2	7.2	17.0	1,345.1
Tangmachu	0.0	8.0	14.7	70.3	136.9	107.0	107.0	210.9	103.0	24.0	31.8	4.3	817.9
Monggar													
Monggar (A)	0.0	0.0	36.0	128.2	66.8	88.8	129.4	83.2	149.7	14.6	22.6	2.0	721.3
Lingmithang	0.0	7.0	18.4	88.2	54.4	62.8	89.4	65.6	109.9	11.2	16.0	5.0	527.9
Yadi	0.0	2.4	15.3	141.4	107.2	62.7	76.9	76.1	132.2	37.8	28.0	0.0	680.0
Paro													
Paro (DSC)	0.0	7.6	29.7	55.5	28.5	33.6	915.4	115.6	97.6	29.5	27.3	2.1	1,342.4
Betikha	0.0	7.0	67.0	562.0	407.0	311.0	520.0	316.0	0.0	16.5	14.0	4.5	2,225.0
Drugyal Dzong	0.0	0.0	30.5	71.0	53.0	99.0	203.0	196.5	111.0	30.0	21.0	5.0	820.0
Pemagatshel													
Pemagatshel	0.0	30.4	85.6	132.8	159.1	223.3	209.4	127.7	341.9	18.5	60.1	8.8	1,397.6
Dungmain	0.0	50.5	57.5	186.8	245.2	521.1	293.0	209.0	726.0	77.0	123.0	1.2	2,490.3
Yurung	0.0	45.0	45.0	66.0	116.3	259.1	167.2	131.0	363.0	10.0	37.1	8.0	1,247.7
Punakha													
Punakha Dzong	0.0	4.5	14.5	57.2	64.1	51.0	190.5	158.6	104.2	24.2	12.3	1.2	682.3
Shelgana	0.0	9.0	13.0	82.4	169.8	104.0	252.0	329.5	162.8	18.4	2.4	0.0	1,143.3
Samdrup Jongkhar													
Airong	0.0	63.0	130.3	251.4	246.8	658.0	512.8	326.0	604.0	40.6	13.6	3.6	2,850.1
Dechenling	0.0	28.0	19.4	2,158.0	2,926.0	3,982.0	2,904.0	2,066.0	6,598.0	8.2	57.0	14.8	20,761.4
Deothang	20.0	48.2	11.4	220.9	240.2	571.2	499.8	154.4	718.6	17.4	25.6	4.5	2,532.2
Samtse													
Tendu	0.0	44.6	21.1	111.8	421.3	558.7	613.0	674.6	423.4	82.6	20.9	3.4	2,975.4
NIE	16.4	20.4	193.2	234.5	314.6	486.2	1,265.8	604.3	538.0	450.7	20.2	0.0	4,144.3
Dorokha	0.0	16.0	287.0	764.0	540.0	540.0	3,263.0	1,749.0	2,085.0	165.0	310.0	0.0	9,719.0
Sipsu	0.0	42.8	20.6	180.8	766.9	979.6	950.0	877.8	849.2	148.4	47	29.6	3,942.7

contd…

TABLE 5.6 (contd.): TOTAL MONTHLY RAINFALL AT EXISTING STATIONS IN EACH DZONGKHAG, BHUTAN, 2006

(Millimeters)

Dzongkhag and station	Month												Total rain fall
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Thimphu													
Gidakom	0.0	1.6	18.0	27.5	29.5	18.8	160.6	126.6	58.9	25.9	7.9	2.3	477.6
Simtokha	0.0	0.0	15.8	41.1	56.0	24.6	147.4	122.7	70.8	19.1	10.0	2.1	509.6
MTI Complex	0.0	0.0	15.1	70.7	56.4	38.0	229.7	177.6	64.8	27.0	18.0	2.2	699.5
Dochula	2.6	11.6	11.8	85.8	124.8	240.8	289.1	281.2	179.0	132.7	11.0	0.0	1,370.4
Sarpang													
Surey	0.0	53.0	76.2	142.0	320.0	0.0	514.6	208.6	682.8	33.4	36.0	30.6	2,097.2
Bhur	0.0	9.6	32.7	200.2	716.8	946.6	702.6	432.2	731.5	59.9	38.0	15.0	3,885.1
Sarpang	55.2	16.8	126.7	173.9	405.0	447.1	1,005.0	202.8	341.8	312.4	0.0	35.3	3,122.0
Trashigang													
Chazam	0.0	3.4	13.6	109.6	156.6	118.4	101.8	60.8	81.4	17.4	7.6	0.2	670.8
Kanglung	0.0	4.0	14.8	140.8	146.2	124.0	220.2	190.8	109.6	41.2	19.4	5.8	1,016.8
Khaling	8.0	22.0	50.5	210.7	163.8	247.9	296.7	350.4	252.5	32.0	14.0	14.0	1,662.5
Radhi	1.0	0.1	25.0	140.9	116.3	203.6	206.4	238.9	142.9	75.5	13.4	10.0	1,174.0
Thrimshing	4.9	28.6	76.9	148.1	94.6	299.8	175.6	124.4	195.9	19.0	33.4	1.2	1,202.4
Wamrong	0.0	2.0	156.6	212.6	211.0	619.0	290.0	301.2	0.0	10.0	10.0	10.0	1,822.4
Tashi Yangtse													
Tashi Yangtse	0.0	17.0	53.9	104.8	165.1	116.5	185.4	347.3	74.1	28.3	38.7	7.1	1,138.2
Yallang	0.0	63.6	35.2	208.0	156.4	259.8	120.8	172.4	82.0	29.6	32.6	0.0	1,160.4
Trongsa													
Bjizam	0.0	16.2	76.4	135.6	135.8	92.0	158.2	210.1	98.4	73.4	19.7	7.4	1,023.2
Kuengarabten	2.1	7.6	10.5	28.5	168.9	103.4	196.3	65.5	139.6	67.3	38.4	0.0	828.1
Langthel	0.0	5.0	10.0	7.0	28.0	101.5	76.0	135.1	147.0	147.0	11.0	0.0	667.6
Chendepji	0.0	4.0	36.2	90.5	233.3	251.5	224.2	113.6	103.5	21.3	0.0	7.0	1,085.1
Trongsa	0.0	0.0	76.4	109.2	111.8	118.3	242.3	308.3	137.7	24.0	29.2	3.4	1,160.6
Tsirang													
Damphu	0.0	0.5	35.4	111.4	134.4	202.2	299.1	120.4	213.2	36.6	13.8	9.2	1,176.2
Sunkosh Dobani	0.0	2.3	20.0	58.3	92.9	141.2	291.4	137.2	224.2	25.0	6.7	11.1	1,010.3
Wangdue													
Wangdue (RNRRC)	0.0	1.2	14.7	85.3	97.8	61.7	234.8	164.2	145.2	11.4	14.9	2.1	833.3
Nobding	0.0	9.0	8.8	57.0	117.5	189.3	221.9	168.2	118.2	19.0	9.6	1.0	919.5
Phobjikha	0.0	6.0	45.0	101.7	137.3	98.4	184.1	194.6	127.6	47.2	8.8	3.4	954.1
Samtengang	0.0	0.0	13.6	35.8	156.0	77.8	290.0	265.8	157.4	28.4	18.2	1.4	1,044.4
Zhemgang													
Buli	0.0	8.6	43.7	135.9	179.6	264.9	275.6	260.1	248.6	22.2	26.2	0.0	1,465.4
Yebilaptsa	7.1	4.6	34.5	80.2	190.6	287.8	233.2	148.6	200.4	23.8	22.4	7.4	1,240.6
Zhemgang	2.4	0.0	30.2	145.6	222.7	204.6	250.3	188.9	228.1	110.6	22.5	14.0	1419.9

Source: Metrology Section, Department of Energy, MTI, Thimphu.

TABLE 5.7: NUMBER OF AGRICULTURE RESEARCH AND EXTENSION FACILITIES, BHUTAN, JUNE 2007

Infrastructure	Numbers
RNR (Common services)	
RNR Extension Centres*	110
RNR Research Centres	4
RNR Research sub-stations	6
Soil and Plant Analytical Laboratory	1
Agriculture	
Agriculture Extension Centres**	49
Agriculture Seed Production Farms	11
Farm Mechanization Centres	3
Farm Mechanization Training Centres	1
National Mashroom Centres	1
National Post Harvest Center	1
National Plant Protection Centres	1
National Soil Service Centre	1
Livestock	
Livestock Extension Centres	50
Regional Veterinary Laboratories	4
Satellite Veterinary Laboratories	3
Veterinary Hospital (including Thimphu Hospital)	20
Livestock Farms	11
Fodder Seed Production Centers	1
Vaccine Production Centres	1
National Artificial Insemination Centers	1
Cold Water Fishery Center	1
National Warm Water Fish Culture Center	1
National Center for Animal Health	1
Forestry	
Beat Offices	62
Nature Conservation Study Centre	1
Range Offices***	39
Territorial Division HQs(DFO)	12
Percent of Forest cover (including 8% shrub)	72.5
Percent of Protected Area	26.2

Note: * includes 11 RNR centres under construction.

** includes 1 AEC under construction.

***includes 5 FMUs considered as Range Offices.

Source: PPD, Ministry of Agriculture, Thimphu.

TABLE 5.8: IRRIGATION CHANNEL CONSTRUCTED IN DZONGKHAGS FROM 2001/02 TO 2004/05

Dzongkhag	New Construction Year (Km)				Total Km	Renovation Year (Km)				Total Km
	2001/02	2002/03	2003/04	2004/05		2001/02	2002/03	2003/04	2004/05	
Bumthang	4.72	0.00	3.00	0.00	7.72	0.00	0.00	0.00	4.00	4.00
Chhukha	1.50	0.00	1.84	0.00	3.34	3.78	0.00	4.10	3.94	11.82
Dagana	0.00	0.00	4.00	4.00	8.00	2.20	0.00	0.00	0.00	2.20
Gasa	1.60	0.00	0.00	0.00	1.60	0.00	0.00	0.00	16.00	16.00
Ha	0.00	0.73	1.00	0.00	1.73	4.95	0.00	3.00	2.60	10.55
Lhuentse	4.25	0.00	9.80	4.30	18.35	6.00	0.00	16.87	24.00	46.87
Monggar	0.00	2.10	0.00	5.10	7.20	0.00	0.64	4.45	12.32	17.41
Paro	2.00	2.00	3.00	4.50	11.50	0.00	3.50	15.50	19.88	38.88
Pemagatshel	0.00	0.00	0.00	1.50	1.50	0.00	0.00	0.00	7.00	7.00
Punakha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.75	34.59	70.34
Samdrup Jongkhar	0.00	0.00	0.00	0.00	0.00	13.19	11.52	18.01	4.71	47.43
Samtse	0.00	0.00	4.70	10.00	14.70	0.00	0.00	11.00	10.00	21.00
Sarpang	0.00	0.00	13.70	9.00	22.70	12.20	3.50	18.50	19.50	53.70
Thimphu	3.00	2.00	0.00	3.00	8.00	11.00	6.50	4.00	7.00	28.50
Trashigang	0.00	0.00	0.00	14.50	14.50	18.71	4.80	1.50	2.60	27.61
Trashi Yangtse	4.00	4.03	5.04	1.00	14.07	17.30	0.00	5.30	13.50	36.10
Trongsa	0.00	0.00	0.00	12.50	12.50	0.00	0.00	12.00	12.00	24.00
Tsirang	0.00	0.00	0.00	0.00	0.00	1.20	0.00	3.75	12.88	17.83
Wangdue Phodrang	0.00	0.00	0.00	0.00	0.00	6.00	0.00	33.00	15.05	54.05
Zhemgang	2.92	3.77	0.00	3.00	8.77	8.60	0.00	7.00	12.80	28.40
Bhutan	23.99	14.63	46.08	72.40	156.18	105.13	30.46	193.73	234.37	563.69

Source: Department of Agriculture, MoA, Thimphu.

TABLE 5.9: POWER TILLER TRACKS DEVELOPMENT AND ACHIEVEMENTS, 2005

Dzongkhag/ Gewog	Length (Km)	Completed (Km) 2002-03	Completed (Km) 2003-04	Completed (Km) 2004-05	Completed (Km) 2005-06	Total (Km)
Trongsa	34.00	0.00	0.00	7.50	21.75	63.25
Haa	8.00	0.00	0.00	0.00	1.50	9.50
Paro	9.80	0.00	0.00	0.50	3.30	13.60
Mongar	34.64	0.00	0.00	0.00	4.87	39.51
Trashigang	37.30	0.00	0.00	0.00	4.00	41.30
Dagana	19.00	0.00	0.00	0.00	0.00	19.00
Lhuentse	35.00	0.00	0.00	2.00	8.00	45.00
Chukha	17.00	0.00	0.00	0.00	0.00	17.00
Wangdue	19.00	0.00	0.00	0.00	0.00	19.00
Trashi Yangtse	21.00	0.00	0.00	0.00	0.00	21.00
Zhemgang	2.50	0.00	0.00	0.00	0.00	2.50
Tsirang	28.00	0.00	0.00	0.00	0.00	28.00
Punakha	17.59	0.00	0.00	0.00	5.00	22.59
Pemagatshel	15.00	0.00	0.00	0.00	0.00	15.00
Samdrup Jongkhar	11.80	0.00	0.00	0.00	0.00	11.80
Total	309.63	0.00	0.00	0.00	48.42	368.05

Source: LMS,Department of Agriculture, MoA, Thimphu.

TABLE 5.10: WET LAND CONVERTED TO DRY LAND FOR THE YEAR 2005

Dzongkhag	Area (acres) proposed	Area (acres) approved	Area (acres) not approved
Trashigang	7.85	2.95	4.90
Gasa	1.86	0.25	1.61
Punakha	2.94	0.14	2.80
Paro	2.76	1.33	1.48
Wangdue	4.77	1.84	2.93
Chukha	1.50	1.50	0.00
Pemagatshel	4.80	4.80	0.00
Trashi Yangtse	0.24	0.24	0.00
Total	26.72	13.05	13.72

Source: LMS,Department of Agriculture, MoA, Thimphu.

TABLE 5.11: QUANTITY OF PESTICIDES SUPPLIED TO FARMERS, BHUTAN 2001/02 TO 2006/07

(Kilogram or Litre)

Period	Insect-icides	Fungi-cides	Herbi-cides	Acari-cides	Rodenti-cides	Others (Non-toxic)	Total
2001/02	3,714.0	1,858.9	807.0	2.0	70.5	9,073.0	15,525.4
2002/03	5,543.8	1,933.6	689.0	17.0	56.4	9,342.7	17,582.5
2003/04	13,074.3	2,888.3	874.0	9.0	64.7	10,052.4	26,962.7
2004/05	2,600.0	2,460.0	850.0	50.0	10.0	10,505.0	16,475.0
2005/06	3,036.0	2,410.0	1,020.0	20.0	38.0	10,732.0	17,256.0
2006/07	4,126.0	4,101.0	1,853.0	10.0	48.0	10,053.0	20,191.0

Note:

Others inlude Tree spray oil, Linseed oil,protein Hydruolysate,Sandovit

Source: Department of Agriculture, MoA, Thimphu.

TABLE 5.12: ARABLE AGRICULTURE LAND, SOKZHING AND TSAMDROG BY LAND TYPE AND DZONGKHAG, BHUTAN, 2007

(Hectares)

Dzongkhag	Wet land	Dry land	Pangzhing	Kitchen Garden	Orchard	Sokzhing	Tsamdrog	Total area
Bumthang	0.00	1,890.00	3,773.00	89.00	54.00	325.00	26,671.00	32,802.00
Chhukha	1,053.00	8,168.00	555.00	78.00	1,075.00	323.00	21,014.00	32,266.00
Dagana	2,115.00	6,341.00	15.00	30.00	795.00	142.00	9,235.00	18,673.00
Gasa	115.00	183.00	69.00	10.00	0.00	161.00	13,893.00	14,431.00
Haa	45.00	866.00	148.00	45.00	76.00	642.00	60,778.00	62,600.00
Lhuentse	1,351.00	3,112.00	351.00	132.00	1.00	735.00	9,108.00	14,790.00
Monggar	825.00	9,602.00	472.00	26.00	8.00	705.00	7,142.00	18,780.00
Paro	1,606.00	3,354.00	245.00	218.00	296.00	1,769.00	1,767.00	9,255.00
Pemagatshel	241.00	11,956.00	850.00	70.00	781.00	340.00	3,162.00	17,400.00
Punakha	2,743.00	377.00	401.00	154.00	72.00	447.00	17,569.00	21,763.00
Samdrup Jongkhar	734.00	10,933.00	569.00	17.00	266.00	80.00	8,764.00	21,363.00
Samtse	3,455.00	11,963.00	8.00	1.00	2,377.00	119.00	15,775.00	33,698.00
Sarpang	2,254.00	5,265.00	53.00	24.00	1,922.00	1.00	365.00	9,884.00
Thimphu	1,162.00	785.00	433.00	117.00	303.00	353.00	77,317.00	80,470.00
Trashigang	1,927.00	13,425.00	1,053.00	85.00	28.00	1,396.00	40,445.00	58,359.00
Trashi Yangtse	1,454.00	4,350.00	1,346.00	5.00	2.00	569.00	1,665.00	9,391.00
Trongsa	1,026.00	1,320.00	510.00	56.00	62.00	305.00	21,687.00	24,966.00
Tsirang	1,672.00	3,565.00	33.00	1.00	678.00	57.00	662.00	6,668.00
Wangdue Phodrang	2,792.00	1,453.00	486.00	189.00	21.00	1,276.00	50,719.00	56,936.00
Zhemgang	1,068.00	7,855.00	95.00	44.00	370.00	81.00	18,775.00	28,288.00
Bhutan	27,638.00	106,763.00	11,465.00	1,391.00	9,187.00	9,826.00	406,513.00	572,783.00

Note: Tseri and Chilzhing data(as per DSLR's record) have been clubbed with dryland. Pakzhing has been clubbed with orchard.

Source: PPD,Ministry of Agriculture, Thimphu

TABLE 5.13: CULTIVATED AREA, PRODUCTION AND YIELD OF MAJOR CROPS BY DZONGKHAG, BHUTAN, 2005

Dzongkhag	Wheat			Barley		
	Area (acre)	Product. (Kg)	Yield (Kg/acre)	Area (acre)	Product. (Kg)	Yield (Kg/acre)
Bumthang	998	809,176	811	860	683,763	795
Chhukha	4,436.00	1,623,815	366	197	161,207	818
Dagana	930	390,194	420	89	47,151	530
Gasa	227	99,957	440	..	..	..
Ha	945	432,798	458	211	111,497	528
Lhuentse	363	364,595	1,004	..	..	..
Monggar	343	181,784	530	1,967	935,668	476
Paro	2,396	1,239,761	517	406	209,328	516
Pemagatshel	265	169,803	641	433	204,914	473
Punakha	1,413	570,258	404	274	166,509	608
Samdrup Jongkhar	990	572,959	579	553	308,433	558
Samtse	1,694	809,749	478	..	..	..
Sarpang	1,339	669,500	500	206	239,689	1,164
Thimphu	750	471,964	629	272	96,858	356
Trashigang	228	447,252	1,962	1,076	430,760	400
Trashi Yangtse	1,927	1,057,596	549	..	..	..
Trongsa	847	444,444	525	793	426,549	538
Tsirang	1,069	533,807	499	..	..	..
Wangdue Phodrang	321	120,945	377	850	420,339	495
Zhemgang	426	295,801	694	180	88,941	494
Bhutan	21,907	11,306,158	12,383	8,367	4,531,606	8,749

contd…

TABLE 5.13(contd.): CULTIVATED AREA, PRODUCTION AND YIELD OF MAJOR CROPS BY DZONGKHAG, BHUTAN, 2005

Dzongkhag	Paddy			Maize		
	Area (acre)	Product. (Kg)	Yield (Kg/acre)	Area (acre)	Product. (Kg)	Yield (Kg/acre)
Bumthang	45	74,126	1,647	..	..	..
Chhukha	3,556	3,249,421	914	4,437	6,093,793	1,373
Dagana	4,032	3,145,059	780	8,035	5,447,724	678
Gasa	153	134,602	880	..	..	..
Ha	201	221,072	1,100	208	152,851	735
Lhuentse	1,788	2,396,541	1,340	2,200	4,732,855	2,151
Mongar	2,081	2,804,862	1,348	7,030	10,532,868	1,498
Paro	3,673	5,986,759	1,630	21	11,052	526
Pemagatshel	149	133,650	897	2,772	3,343,944	1,206
Punakha	4,455	6,914,907	1,552	561	566,213	1,009
Samdrup Jongkhar	4,205	3,911,231	930	7,939	11,590,933	1,460
Samtse	11,857	9,105,417	768	12,172	13,255,814	1,089
Sarpang	8,237	8,752,637	1,063	8,967	10,696,521	1,193
Thimphu	1,807	2,693,308	1,490	54	41,036	760
Trashigang	1,905	2,654,324	1,393	2,296	5,204,400	2,267
Trashi Yangtse	3,336	4,815,800	1,444	416	412,214	991
Trongsa	3,711	4,297,352	1,158	8,181	11,162,934	1,364
Tsirang	1,792	1,658,198	925	1,099	1,143,668	1,041
Wangdue Phodrang	4,159	3,502,718	842	6,242	5,097,890	817
Zhemgang	1,317	1,154,703	877	3,231	4,481,043	1,387
Bhutan	62,459	67,606,687	22,978	75,861	93,967,753	21,545

Source: PPD, Ministry of Agriculture

TABLE 5.14: QUANTITY OF POTATO SEED PLANTED AND PRODUCTION BY VARIETY AND REGION, 1992/93 TO 1994/95

(Metric ton)

Location/region	Desiree			K. Jyoti			Yusikap		
	1992-1993	1993-1994	1994-1995	1992-1993	1993-1994	1994-1995	1992-1993	1993-1994	1994-1995
Quantity planted	161.1	156.4	156.1	95.2	82.5	75.4	90.7	86.3	86.0
Phobjikha farm	8.2	6.7	6.7	4.4	4.7	1.3	4.7	4.8	4.8
Trashigang	18.4	20.3	20.2	35.0	34.5	33.3	45.5	35.2	35.1
Pemagatshel	4.0	4.0	4.0	14.0	14.0	13.8	10.0	10.0	10.0
Bumthang	32.6	31.7	31.7	22.0	18.9	17.0	21.4	20.0	20.0
Phubjikha	98.0	93.7	93.5	19.9	10.5	10.2	9.2	16.4	16.2
Quantity produced	414.2	414.9	447.0	216.7	188.8	156.6	238.0	237.9	240.7
Phobjikha farm	33.5	33.5	36.0	11.4	11.4	15.8	34.0	34.0	28.3
Trashigang	15.7	15.7	41.6	42.9	42.9	67.7	95.4	95.3	93.1
Pemagatshel	10.7	10.7	8.2	28.7	28.7	30.9	22.1	22.1	21.0
Bumthang	74.1	74.1	86.1	84.9	57.1	13.3	53.2	53.2	56.6
Phubjikha	280.2	281.0	275.3	48.8	48.8	29.0	33.4	33.4	41.9
Seed to production ratio	2.6	2.7	2.9	2.3	2.3	2.1	2.6	2.8	2.8
Phobjikha farm	4.1	5.0	5.3	2.6	2.4	12.4	7.2	7.1	5.9
Trashigang	0.9	0.8	2.1	1.2	1.2	2.0	2.1	2.7	2.7
Pemagatshel	2.7	2.7	2.0	2.1	2.1	2.2	2.2	2.2	2.1
Bumthang	2.3	2.3	2.7	3.9	3.0	0.8	2.5	2.7	2.8
Phobjikha	2.9	3.0	2.9	2.5	4.7	2.9	3.6	2.0	2.6

Note:

The data remains the same for the year 2007 as they have not updated

Source: PPD, Ministry of Agriculture, Thimphu

TABLE 5.15: NUMBER OF LIVESTOCK BY TYPE AND DZONGKHAG, BHUTAN, 2005

(Numbers)

Dzongkhag	Nublang+ Mithun Cattle	Jersey Cattle	Brown Swiss Cattle	Other Cattle (Baffaloes+ Zo+Zom)	Yaks	Horses (includes Mules+ Donkeys)	Sheep	Goats	Pigs	Poultry
Thimphu	4,177	2,000	12	0	9,727	1217	5	39	520	2,802
Paro	13,077	4,553	98	0	4,823	1,334	0	57	1,558	4,005
Ha	9,678	2,154	69	0	7,748	604	0	0	84	1,060
Chhukha	26,589	3,328	0	24	0	912	1945	5148	3,449	17,321
Samtse	36,180	1,886	333	0	0	27	2534	4625	1,225	29,151
Punakha	9,517	1,637	45	0	4935	789	0	16	1,716	5,647
Gasa	4380	0	192	998	0	971	71	0	28	773
Wangdue	19,152	2,338	1,297	434	1,716	1,393	3,808	136	2,028	4,217
Tsirang	8,972	4,522	13	167	0	199	973	5668	1,593	18,186
Dagana	10,445	2,308	0	75	0	325	450	3078	1,945	11,960
Bumthang	6,555	1,230	2,308	1,015	3,487	1,398	1,197	0	0	1,361
Trongsa	8,972	1,947	714	0	0	391	730	5	252	2,438
Zhamgang	11,721	1,319	62	0	0	1,692	0	200	1,597	7,670
Sarpang	21,800	3,076	112	89	0	846	585	618	2,203	3,041
Lhuentse	11,918	1,903	236	0	456	1,968	151	33	968	7,382
Monggar	23,173	3,878	190	0	0	2,642	62	299	2,718	15,116
Trashigang	20,576	6,419	114	0	11,953	3,399	4,942	125	2,581	14,648
Yangtse	10,169	2,065	94	197	595	1,837	37	175	1,435	2,108
Pemagatshel	4,140	1,952	13	0	0	516	2	106	764	3,570
S/Jongkhar	17,344	2,896	0	0	98	2,148	120	179	1,497	8,652
Bhutan	278,535	51,411	5,902	2,999	45,538	24,608	17,612	20,507	28,161	161,108

Source: PPD,Ministry of Agriculture, Thimphu

TABLE 5.16: IMPORTS AND DISTRIBUTION OF FOOD ITEMS BY FOOD CORPORATION OF BHUTAN, 2001 TO 2006

(Metric tonns)

Commodity	2001	2002	2003	2004	2005	2006
Imports						
Rice	6,599.00	7,434.00	18,262.52	7,187.92	6,226.74	8,293.74
Wheat	1,371.40	2,310.00	2,625.60	2,500.00	35.59	0.00
Sugar	3,154.70	1,924.50	1,180.80	1,966.02	3,924.27	3,706.36
Salt	51.19	162.90	616.88	140.03	194.96	215.44
Oil	210.04	379.90	636.3	198.07	568.53	643.94
Pulses	417.01	427.85	836.98	231.49	202.65	289.56
Atta	106.89	..	..	..	169.74	327.83
Maida	97.81	..	29.25	19.98	283.41	327.83
Sales						
Rice	5,877.80	8,059.60	8,984.68	15,985.14	7,279.18	7,948.99
Wheat	846.80	1,740.58	1,646.96	987.52	202.91	0.00
Sugar	3,266.00	2,332.00	1,148.05	2,106.18	3,726.05	3,028.88
Salt	45.60	122.50	354.03	401.85	212.47	207.82
Oil	200.50	377.50	421.44	473.77	486.26	648.89
Pulses	280.77	537.02	329.65	710.81	229.08	261.73
Atta	137.02	433.01	593.40	633.65	430.61	299.04
Maida	130.11	171.22	243.78	265.03	337.41	332.72

Source: Food Corporation of Bhutan,Phuentsholing.

TABLE 5.17: QUANTITY OF AGRICULTURAL PRODUCE HANDLED BY FOOD CORPORATION OF BHUTAN, 2001 TO 2006

(Metric tonns)

Commodity	2001	2002	2003	2004	2005	2006
Potatoes	25,452.50	23,035.60	20,335.40	22,834.90	23,766.14	20,645.22
Vegetables	1,654.20	2,227.40	1,783.10	1,994.30	1,706.50	1,488.00
Apples	491.70	465.00	348.60	147.30	226.70	452.53
Oranges	4,639.80	2,065.30	2,878.10	2,218.10	1,916.50	1,863.61
Cardamom	0.00	0.60	0.00	0.00	0.17	0.01
Ginger	479.50	514.50	265.90	156.40	208.70	459.9
Garlic	0.00	0.20	0.30	0.10	0.08	0.00
Arecanut	63.10	86.40	149.70	114.60	146.62	153.86
Supari(dried doma)	0.00	0.00	0.00	0.00	0.00	0.00
Dry chilli	4.40	12.20	5.90	4.20	3.90	6.40
Kidney bean(rajma)	21.00	50.20	23.10	48.70	49.63	69.53
Soya bean	169.80	17.30	31.70	60.90	37.15	47.92
Pulses	0.00	3.40	0.90	0.00	0.00	0.00
Mustard	0.00	0.00	0.00	0.00	0.00	0.00
Pipla (wild)	0.00	1.00	0.30	0.00	0.00	0.00
Chirota (wild)	1.20	0.00	0.00	0.00	0.00	0.00
Leshi	0.00	0.00	0.00	0.10	0.00	0.00
Lemon	3.20	1.10	0.00	0.00	0.00	0.00
Apricot	0.00	0.00	0.00	0.00	0.00	0.00
Peach	3.20	2.10	1.20	0.80	1.13	0.18
Plum	2.20	0.60	0.60	0.30	0.13	0.02
Pear	0.40	0.30	0.10	0.80	0.02	0.11
Dry bean	0.00	0.00	0.00	0.00	0.00	0.00

Source: Food Corporation of Bhutan, Phuntsholing.

TABLE 5.18: QUANTITY AND VALUE OF FOREST PRODUCTS SUPPLIED BY TYPE AND USERS BHUTAN, 2003/04 TO 2006/07

User and product type	2003/04		2004/05		2005/06		2006/07	
	Quantity	Value (Nu.)	Quantity	Value (Nu)	Quantity	Value (Nu)	Quantity	Value (Nu)
Rural Supply								
Trees (numbers)	20699.0	827960.0	15745.0	629800.0	25037.0	1001480.0	11504.0	471458.0
Shinglap (numbers)	2447.0	97880.0	2536.0	101440.0	2260.0	90400.0	13.0	520.0
Cham (numbers)	65689.0	1970670.0	42625.0	1705000.0	63538.0	1906140.0	19451.0	594064.0
Tsim (numbers)	29589.0	355068.0	25074.0	300888.0	48526.0	582312.0	10897.0	43588.0
Dangchung (numbers)	18453.0	73812.0	25210.0	100840.0	23391.0	93564.0	4393.0	30195.0
Flag post (numbers)	36148.0	144592.0	36906.0	147624.0	38192.0	152768.0	22984.0	103372.0
Fencing post (numbers)	15951.0	63804.0	24489.0	97956.0	31020.0	124080.0	16015.0	225105.0
Fuel wood (cubic metre)	34737.0	347370.0	32491.0	324910.0	29900.2	299002.0	1331927.7	616729.0
Log form (Cft)	92324.0	73859.2	416742.0	333393.6	346194.0	276955.2	308461.0	246097.2
Sawn timber (cft)	25234.0	25234.0	5043.0	5043.0	39309.1	39309.1	0.0	0.0
Sub total		3980249.2		3746894.6		4566010.3		2331128.2
Non wood Forest Produce (Rural Supply)								
Bamboo (numbers)	127644.0	12588.0	123200.0	11471.2	163987.0	86913.1	369390.5	30905.8
Stone (TL)	1.0	40.0	3.0	120.0	12.0	480.0	1100.0	24040.0
Sand (TL)	3.0	120.0	4.0	160.0	10.0	400.0	647.0	1972.0
Mashrrom billet (numbers)	250.0	150.0	1290.0	774.0	..	..	9.0	360.0
Cane (Bundle)	203.0	630.0	96.0	384.0	242.0	2420.0	484.0	1972.0
Chirrata (kg)	..	..	..	..	..	..	0.0	..
Sub total		13528.0		12909.2		90213.1		59249.8
Urban Supply (Auction)								
Trees (number)	7.0	16800.0	12.0	28800.0	43.0	103200.0	961.0	291587.0
Shinglap (numbers)	..	..	..	..	..	..	..	..
Cham (numbers)	..	..	..	..	..	..	413.0	23946.0
Tsims (numbers)	..	..	..	..	..	..	987.0	11650.0
Dangchung (numbers)	765.0	336600.0	1565.0	688600.0	8434.0	3710960.0	259.0	3158.0
Fencing post (numbers)	9.0	180.0	1790.0	35800.0	254.0	5080.0	8407.0	38735.0
Flag post (numbers)	..	..	..	..	..	..	5585.0	53112.0
Firewood (cubic metre)	7808.0	78080.0	2896.0	28960.0	43736.0	437360.0	130686.3	1297404.0
Log form (cft)	1757.0	31626.0	253447.0	4562046.0	731650.0	13169700.0	1803567.8	25158174.3
Sawn form (cft)	..	..	126.4	2275.9	474.1	8532.9	6962.0	123178.0
Sub total		463286.0		22126095.8		17434832.9		27000944.3
Non wood Forest Produce on Commercial rate								
Bamboo (numbers)	291538.0	154515.1	324372.0	168673.4	464883.0	246388.0	110159.0	87430.8
Stone (TL)	58563.5	2342540.0	46038.0	1841520.0	41955.0	1678200.0	27476.8	1110254.0
Sand (TL)	20294.5	811780.0	47137.0	1885480.0	45730.0	1829200.0	43439.0	9329236.5
Stone Chips (TL)	4679.5	187180.0	28481.5	1139260.0	0.00	0.00	13799.0	347500.0
Top Soil (TL)	4.0	160.0	350.0	14000.0	380.0	15200.0	..	..
Wood Chips (TL)	344.1	172062.5	206.0	103429000.0	289.0	144500.0	0.0	0.0
Lemon grass (kg)	5320.1	21280.2	6330.0	25320.0	3596.0	14384.0	..	..
Mashrrom Billet (numbers)	1220.0	24400.0	5700.0	5700.0	12774.0	12774.0	6870.0	4600.0
Resin (TL)	26853.5	107414.0	7391.5	29566.0	41135.0	164540.0	24954.5	85503.0
Dalphne (Kg)	..	..	900.0	540.0	9400.0	5640.0	8830.0	7808.0
Cordycep (Kg)	..	..	153.0	3442500.0	81.0	1821600.0	..	..
Leaf mould (TL)	..	..	141.0	8460.0	575.5	34530.0	206.0	11324.0
Sand (Lots)	..	..	..	..	..	..	79.0	13551875.0
Sub total		3821331.8		111990019.4		5966956.0		24535531.3

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TABLE 5.18(contd.): QUANTITY AND VALUE OF FOREST PRODUCTS SUPPLIED BY TYPE AND USERS BHUTAN, 2003/04 TO 2006/07

User and product type	2003/04		2004/05		2005/06		2006/07	
	Quantity	Value (Nu.)	Quantity	Value (Nu)	Quantity	Value (Nu)	Quantity	Value (Nu)
Subsidy (Dzong and Lhakhang)								
Tree (numbers)	886.0	35440.0	247.0	9880.0	104.0	4160.0	0.0	0.0
Chams (numbers)	..	..	30.0	900.0	12.0	360.0	0.0	0.0
Tsim (numbers)	23.0	276.0	18.0	216.0	..	..	0.0	0.0
Flag post (numbers)	..	..	1152.0	4608.0	..	..	0.0	0.0
Log (cft)	13211.7	10569.4	..	..	..	..	0.0	0.0
Sub total		46285.4		15604.0		4520.0		0.0
Commercial (Dzong and Lhakhang)								
Tree (numbers)	74.0	85248.0	947.0	1090944.0	87.0	100224.0	0.0	0.0
Shinglap (numbers)	111.0	127872.0	23.0	26496.0	..	..	0.0	0.0
Chams (numbers)	..	..	1814.0	435360.0	..	..	0.0	0.0
Dangchung (numbers)	300.0	4800.0	993.0	23832.0	..	..	0.0	0.0
Tsims (numbers)	..	..	915.0	34770.0	105.0	3990.0	0.0	0.0
Fencing post (numbers)	180.0	2160.0	535.0	2140.0	..	..	0.0	0.0
Firewood (cubic metre)	1224.0	12240.0	320.0	3200.0	416.0	4160.0	0.0	0.0
Log (cft)	..	..	..	..	..	..	0.0	0.0
Swan timber (cft)	..	..	..	..	..	..	0.0	0.0
Sub total		232320.0		1636422.0		109014.0		0.0
Government Institution								
Tree (numbers)	832.0	958464.0	1238.0	1426176.0	1468.0	1691136.0	0.0	0.0
Chams (numbers)	261.0	62640.0	544.0	130560.0	293.0	70320.0	0.0	0.0
Tsims (numbers)	845.0	202800.0	394.0	14972.0	1637.0	62206.0	0.0	0.0
Dangchung (numbers)	2943.0	70632.0	9459.0	227016.0	8360.0	200640.0	0.0	0.0
Flag post (numbers)	6309.0	100944.0	1425.0	22800.0	1622.0	25952.0	0.0	0.0
Fencing post (numbers)	4768.0	57216.0	6266.0	75192.0	8076.0	96912.0	0.0	0.0
Firewood (cubic metre)	..	..	18549.0	185490.0	31176.0	311760.0	0.0	0.0
Log forms (cft)	473155.0	6151015.0	485025.0	6305325.0	284016.0	3692207.2	0.0	0.0
Sawn timber (cft)	537.3	9671.0	126.4	2275.9	..	..	0.0	0.0
Sub total		7613382.0		8389806.9		6151133.2		0.0
Free of Royalty								
Tree (numbers)	423.0	0.0	127.0	0.0	216.0	0.0	270.0	0.0
Shinglap (numbers)	35.0	0.0	6.0	0.0	..	0.0	40.0	0.0
Chams (numbers)	1163.0	0.0	880.0	0.0	1260.0	0.0	167.0	0.0
Tsims (numbers)	2591.0	0.0	1025.0	0.0	1105.0	0.0	175.0	0.0
Dangchung (numbers)	2370.0	0.0	1594.0	0.0	899.0	0.0	280.0	0.0
Poles (numbers)	..	0.0	..	0.0	..	0.0	1253.0	0.0
Fencing post (numbers)	..	0.0	..	0.0	640.0	0.0	80.0	0.0
Flag post (numbers)	..	0.0	..	0.0	401.0	0.0	0.0	0.0
Log (cft)	3424.2	0.0	995.0	0.0	256.0	0.0 ..		
Firewood (cubic metre)	..	0.0	2327.0	0.0	885.0	0.0	767.7	0.0

contd..

TABLE 5.18(contd.): QUANTITY AND VALUE OF FOREST PRODUCTS SUPPLIED BY TYPE AND USERS BHUTAN, 2003/04 TO 2006/07

User and product type	2003/04		2004/05		2005/06		2006/07	
	Quantity	Value (Nu.)	Quantity	Value (Nu)	Quantity	Value (Nu)	Quantity	Value (Nu)
Bhutan								
Tree (numbers)	22921.0	1923912.0	18316.0	3185600.0	26955.0	2900200.0	12465	763045.0
Shinglap (numbers)	2593.0	225752.0	2565.0	127936.0	2260.0	90400.0	13	520.0
Cham (numbers)	67113.0	2033310.0	45893.0	2271820.0	65103.0	1976820.0	19864	618010.0
Tsims (numbers))	33048.0	558144.0	26401.0	350846.0	51373.0	648508.0	11884	55238.0
Dangchung (numbers)	24831.0	485844.0	37256.0	1040288.0	41084.0	4005164.0	4393	30195.0
Flag post (numbers)	42457.0	245536.0	39483.0	194712.0	40255.0	179360.0	28569	156484.0
Fencing post (numbers)	20728.0	121200.0	33080.0	137621.0	39990.0	226072.0	24422	263840.0
Fuel wood (cubic metre)	34737.0	347370.0	32491.0	324910.0	29900.2	299002.0	1462614	1914133.0
Log forms (cft)	567236.0	6256500.2	1155214.0	11200764.0	1361860.0	17138862.4	2112028.8	25282528.7
Sawn timber (cft)	25771.3	34905.0	5169.4	7318.9	39309.1	39309.1	6962	123178.0
Bamboo (numbers)	419182.0	167103.1	447572.0	180144.6	628870.0	333301.1	479549.5	118336.6
Stone (TL)	58564.5	2342580.0	46041.0	1841640.0	41967.0	1678680.0	28576.8	1134294.0
Sand (TL)	20297.5	811900.0	47141.0	1885640.0	45740.0	1829600.0	44086	9331208.5
Stone chips (TL)	4679.5	187180.0	28481.5	1139260.0	0.0	0.0	13808	347860.0
Top Soil (TL)	4.0	160.0	350.0	14000.0	380.0	15200.0	..	..
Wood chips (TL)	344.1	172062.5	206858.0	103429000.0	289.0	144500.0	..	..
Mashrrom Billet (numbers)	250.0	150.0	6990.0	6474.0	12774.0	12774.0	6870	4600.0
Resin (Kg)	..	107141.0	7391.5	29566.0	41135.0	41135.0	24954.5	85503.0
Cordycep (Kg)	..	..	153.0	3442500.0	81.0	1821600.0	140.4	3158258.0
Daphne (Kg)	..	..	900.0	540.0	9400.0	9400.0	8830.0	7808.0
Lemon grass (Kg)	5320.1	21280.2	6330.0	25320.0	3596.0	3596.0	..	..
Leaf mould (TL)	..	..	141.0	8460.0	575.5	575.5	211.0	11624.0
Cane (Bundle)	203.0	630.0	96.0	384.0	242.0	2662.0	484.0	1972.0
Chirrata (Kg)	..	..	..	..	..	..	..	..
Sand Auction (lots)	..	..	..	..	..		79.0	13551875.0
Total		16042660.1		130844744.6		33396721.1		56960510.8

Source: Department of Forest, MoA, Thimphu.

TABLE 5.19: DETAILS OF PROTECTED AREAS IN BHUTAN, BY YEAR OF ESTABLISHMENT AND AREA, 2006

Name of Area	Establishment year	Area (sq.Km)
Existing Protected Areas		
Torsa Strict Nature Reserve	1993	644
Jigme Dorji National Park	1993	4,349
Jigme Singye Wangchuck National Park*	1993	1,723
Thrumshingla National Park	1993	905
Royal Manas National Park	1993	1,023
Sakteng Wildlife Sanctuary	1993	650
Bomdeling Wildlife Sanctuary	1993	1,487
Phibsoo Wildlife Sanctuary	1993	278
Khaling Wildlife Sanctuary	1993	273
Royal Botanical Park (RBP)	2004	47
Total		11,379
Biological Corridors	2000	3,710

Note: * Previously known as Black Mountain National Park

Source: NCD, DoF, Ministry of Agriculture, Thimphu.

TABLE 5.20: DISPOSAL OF LOGWOOD BY FORESTRY DEVELOPMENT CORPORATION LIMITED, 2001 TO 2005

Item	Units	2001	2002	2003	2004	2005
Logwood						
Commercial logwood	cft	1561014.03	1725866.72	1779485.26	1940958.60	1925870.76
Rural logwood	cft	238859.25	393142.51	264027.94	317945.56	285034.73
Firewood (urban)	M3	..	..	..	30856.16	..
Total		1799873.28	2119009.23	2043513.20	2289760.32	2210905.49

Source:Department of Forest, MoA, Thimphu.

CHAPTER 6
INDUSTRIES

The subject 'Industries' covers 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 of the kingdom.

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 Plant, the Bhutan Board Products Ltd., the first chemical plant, Bhutan Carbide and Chemicals Ltd. established during 1988, 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

Cottage industry also plays a prominent role with its good timber resources and favorable agricultural conditions. There is lot of scope for expansion of the manufacturing sector particularly in these areas.
As the industrial sector grows in Bhutan, statistics on industry will become increasingly important. The Department of Trade 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.

According to the information collected in 2007, the number of industrial license holders increased from 985 to 1113 in 2006, with more than 90% of the establishments operated by the private sectors. Most of the existing industrial establishments are small scale or cottage industries.

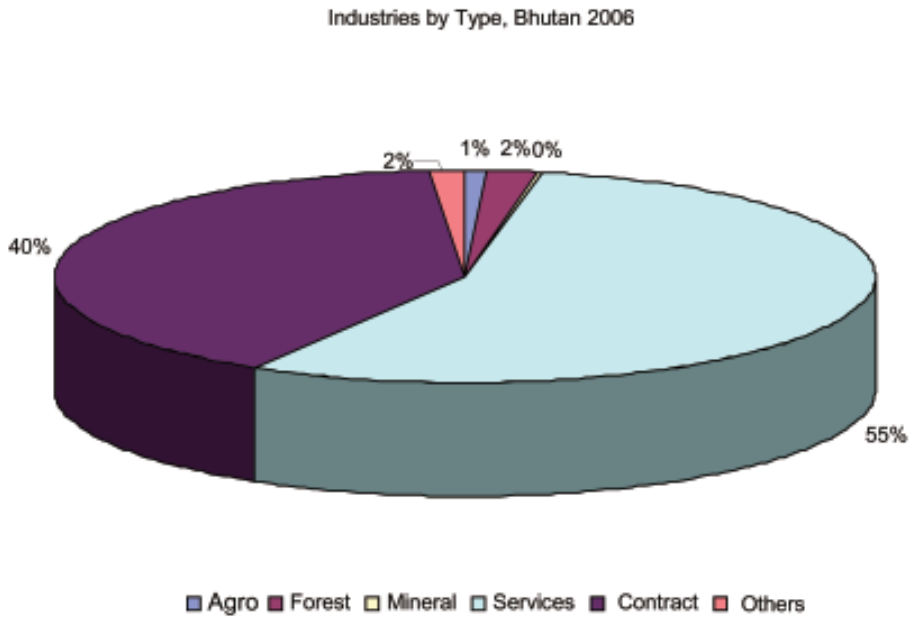

TABLE 6.1: NUMBER OF INDUSTRIAL ESTABLISHMENTS BY SECTOR, 2002 TO 2006

Sector	2002	2003	2004	2005	2006
Production & manufacturing	586	800	874	985	1133
New registration	18	58	73	99	135
Existing establishments	568	742	801	886	998
Services	4,272	4,812	5,468	6,753	13,597
New registration	430	587	662	1,366	1,479
Existing establishments	3,842	4,225	4,806	5,387	12,118
Contract	9,050	9,080	9,212	9,519	9,775
New registration	480	145	131	207	269
Existing establishments	8,570	8,935	9,081	9,312	9,506
All sectors	13,908	14,692	15,554	17,257	24,505

Source: Department of Industry, MTI, Thimphu.

TABLE 6.2: NUMBER OF LICENCESED FIRMS IN MANUFACTURING AND MINING INDUSTRIES BY SECTOR, BHUTAN 2004 TO 2006

Industry	2004				2005				2006			
	Public	Joint	Private	Total	Public	Joint	Private	Total	Public	Joint	Private	Total
Mining	0	0	17	17	0	0	18	18	0	0	25	25
Manufacturing	..	..	..	..	..	..	..	..	..	..	..	..
Food processing/milling	4	1	157	162	5	1	175	181	5	1	193	199
Textiles and Clothing	..		1	1	0	0	1	1	0	0	1	1
Wood and Paper Products	2	2	364	368	2	2	410	414	2	2	466	470
Chemical Products	..	..	..	..	..	..	..	..	..	..	..	..
Mineral Products	0	2	47	49	0	2	60	62	0	2	64	66
Other	5	0	272	277	6	0	303	309	8	0	364	372
Total mining & manufacturing	11	5	858	874	13	5	967	985	15	5	1,113	1,133

Source: Department of Industry, MTI, Thimphu.

TABLE 6.3: NUMBER OF INDUSTRIES BY SECTOR, SIZE AND TYPE, BHUTAN, 2002 TO 2006

Industrial establishments	2002	2003	2004	2005	2006
Sector					
Private	13,833	14,627	15,489	17,181	24,417
Joint	24	15	15	15	11
Public	51	50	50	61	77
Size					
Large scale	44	43	47	57	72
Medium scale	50	36	43	62	78
Small scale	467	588	628	678	1,660
Cottage scale	4,277	4,945	5,624	6,941	12,920
Mini scale					
Other (Contract)	9,050	9,080	9,212	9,519	9,775
Type					
Production & Manufacturing	586	800	874	985	1,133
Agro based	121	155	162	181	199
Forest based	324	341	368	414	470
Mineral based	46	55	66	80	91
Others	95	249	278	310	373
Contract	9,050	9,080	9,212	9,519	9,775
Services	4,272	4,812	5,468	6,753	13,597
All industries	13,908	14,692	15,554	17,257	24,505

Source: Department of Industry, MTI, Thimphu.

TABLE 6.4: NUMBER OF CONTRACT FIRMS BY TYPE, BY DZONGKHAG, BHUTAN, 2006

Dzongkhag	Class of contract firm				Total
	A	B	C	Petty	
Bumthang	2	2	10	214	228
Chhukha	41	19	132	604	796
Dagana	-	-	9	269	278
Gasa	-	-	-	33	33
Haa	-	5	44	200	249
Lhuntse	-	-	22	109	131
Mongar	1	1	59	325	386
Paro	-	10	68	360	438
Pemagatshel	1	4	19	166	190
Punakha	1	2	7	267	277
Samdrup Jongkhar	17	6	89	253	365
Samtse	1	1	47	253	302
Sarpang	6	2	37	395	440
Thimphu	129	89	518	3,053	3,789
Trashigang	5	22	60	393	480
Trashi Yangtse	-	-	35	123	158
Trongsa	-	-	34	161	195
Tsirang	-	-	5	119	124
Wangdue Phodrang	-	-	22	626	648
Zhemgang	-	-	7	261	268
Bhutan	204	163	1,224	8,184	9,775

Contd...

TABLE 6.4(Contd.): NUMBER OF INDUSTRIAL FIRMS, BY TYPE, BY DZONGKHAG, BHUTAN, 2006

Dzongkhag	Scale of industry				Total
	Small	Medium	Large	Cottage	
Bumthang	15	2	3	470	490
Chhukha	911	40	37	1,205	2,193
Dagana	3	-	-	246	249
Gasa	-	-	-	38	38
Haa	33	-	-	184	217
Lhuntse	-	-	-	124	124
Mongar	1	-	-	560	561
Paro	50	2	1	1,003	1,056
Pemagatshel	6	-	1	201	208
Punakha	8	-	-	288	296
Samdrup Jongkhar	26	3	5	818	852
Samtse	162	5	7	392	566
Sarpang	33	-	2	903	938
Thimphu	377	21	14	4,365	4,777
Trashigang	1	-	-	631	632
Trashi Yangtse	-	-	-	150	150
Trongsa	4	2	-	291	297
Tsirang	3	-	-	240	243
Wangdue Phodrang	27	3	2	542	574
Zhemgang	-	-	-	269	269
Bhutan	1,660	78	72	12,920	14,730

Source: Department of Industry, MTI, Thimphu.

TABLE 6.5: NUMBER OF INDUSTRIES BY TYPE, BY DZONGKHAG, BHUTAN, 2006

Dzongkhag	Agro based	Forest based	Mineral based	Services	Contract	Others	All types
Bumthang	9	31	-	443	228	7	718
Chhukha	42	41	21	2,012	796	77	2,989
Dagana	-	-	-	249	278	-	527
Gasa	1	1	-	36	33	-	71
Haa	2	24	-	191	249	-	466
Lhuntse	1	3	1	119	131	-	255
Mongar	8	20	4	525	386	4	947
Paro	8	72	8	950	438	18	1,494
Pemagatshel	3	8	10	187	190	-	398
Punakha	1	4	-	290	277	1	573
Samdrup Jongkhar	19	22	5	797	365	9	1,217
Samtse	13	8	14	518	302	13	868
Sarpang	42	25	5	857	440	9	1,378
Thimphu	28	135	17	4,373	3,789	224	8,566
Trashigang	3	22	-	600	480	7	1,112
Trashi Yangtse	1	11	-	138	158	-	308
Trongsa	3	8	-	286	195	-	492
Tsirang	9	4	-	230	124	-	367
Wangdue Phodrang	2	14	6	549	648	-	1,222
Zhemgang	4	17	-	247	268	1	537
Bhutan	199	470	91	13,597	9,775	370	24,505

Source: Department of Industry, MTI, Thimphu.

TABLE 6.6: MINERAL PRODUCTION FROM MINES IN BHUTAN, 2002 TO 2006

Minerals	2002	2003	2004	2005	2006
Dolomite (metric tonnes)	388,056	367,402	452,336	388,711	476,516.08
Lime stone (metric tonnes)	506,268	551,525	560,807	536,030	581,332.98
Gypsum (metric tonnes)	105,658	122,829	131,236	150,585	204,198.16
Slate (square feet)	6,100	57,970	126,789	2,908	5,873.06
Coal mines (metric tonnes)	88,567	66,324	29,631	85,279	97,965.46
Marble block (Cu.M)	-	-	-	-	219.33
Marble (square feet)	3,207	6,228	3,385	4,005	3,813.40
Quartzite (metric tonnes)	47,464	52,058	42,599	52,694	40,197.65
Talc (metric tonnes)	23,118	23,101	39,797	42,791	54,208.24
Iron Ore (metric tonnes)	-	-	-	5,679	-
Pink Shale (metric tonnes)	937	-	-	364	360.30
Stone (metric tonnes)	319,702	316,068	252,207	146,767	232,187.10
Granite (square feet)	5559	11579	2151.73	9,436	8,310.90

Source: Department of Gelogy and Mines, MTI, Thimphu.

TABLE 6.7: MINERAL PRODUCTION, BHUTAN, 2004 TO 2006

Minerals	2004			2005			2006		
	Export	Domestic use	Total	Export	Domestic use	Total	Export	Domestic use	Total
Dolomite (metric tonnes)	452,273	63	452,336	388,637	74	388,711	472982.21	3533.87	476516.08
Lime stone (metric tonnes)	33,759	527,048	560,807	86,996	449,034	536,030	90028.94	491304.04	581332.98
Gypsum (metric tonnes)	103,258	27,979	131,236	115,646	34,940	150,585	168116.37	36081.79	204198.16
Coal mines (metric tonnes)	20,362	9,269	29,631	48,377	36,902	85,279	65545.15	32420.31	97965.46
Marble block(Cu.M)	-	-	-	-	-	-	0.00	219.33	21933
Marble (square feet)	1,811	1,574	3,385	-	4,005	4,005	0.00	3813.40	3,813.40
Slate (square feet)	-	126,789	126,789	-	2,909	2,909	0.00	5873.06	5,873.06
Quartzite (metric tonnes)	7,223	35,376	42,599	9,193	43,501	52,694	8402.81	31794.84	40,197.65
Talc (metric tonnes)	39,797	-	39,797	42,738	53	42,791	54208.24	0.00	54,208.24
Iron Ore (metric tonnes)	-	-	-	-	5,679	5,679	0.00	0.00	0.00
Pink & green Shale (mt)	-	-	-	364	-	364	360.30	0.00	360.30
Stone (metric tonnes	15,986	234,646	250,632	25,626	121,142	146,767	70783.22	161403.88	232,187.10
Granite (square feet)	-	2,152	2,152	-	9,436	9,436	0.00	8,310.90	8,310.90

Source: Department of Gelogy and Mines, MTI, Thimphu.

TABLE 6.8: NUMBER OF ESTABLISHMENT BY TYPE OF INDUSTRY AND SECTOR, BHUTAN, 2000

Type of Industry	Sole/proprietor-ship/partnership	Private Company	Joint Venture	Govt. Company	All Sectors
Forest based industry	107	6	3	5	121
Agrobased industry	68	1	1	8	78
Mineralbased industry	15	10	3	2	30
Other based industry	62	2	1	5	70
All industries	252	19	8	20	299

Source: "Census of Manufacturing Industries 2001"

TABLE 6.9: DISTRIBUTION OF ESTABLISHMENT BY DZONGKHAGS, BHUTAN,

Dzongkhag	Number of establishment	Percentage
Bumthang	16	5.4
Chukha	62	20.7
Dagana	n.a	n.a
Gasa	n.a	n.a
Ha	4	1.3
Lhuentse	1	0.3
Monggar	9	3.0
Paro	23	7.7
Pemagatshel	5	1.7
Punakha	2	0.7
Samdrup Jongkhar	13	4.3
Samtse	25	8.4
Sarpang	15	5.0
Thimphu	87	29.1
Trashigang	6	2.0
Trashi Yangtse	11	3.7
Trongsa	3	1.0
Tsirang	6	2.0
Wangdue Phodrang	7	2.3
Zhemgang	4	1.3
Bhutan	299	100

Source: "Census of Manufacturing Industries 2001"

TABLE 6.10: NUMBER OF ESTABLISHMENT BY SECTOR & SIZE OF EMPLOYMENT, BHUTAN, 2000

Legal status by industry	Total persons engaged				
	1-5	6-10	11-20	21-30	31-40
Sole proprietorship/partners	87	59	45	23	10
Forest..based industry	31	24	30	9	5
Agro..based industry	36	15	6	5	1
Mineral..based industry	1	1	3	3	..
Other based industry	19	19	6	6	4
Private Company	2	2	0	1	2
Forest..based industry	1	..	..	..	1
Agro..based industry	1	..	..	..	..
Mineral..based industry	..	1	..	1	1
Other based industry	..	1	..	..	..
Joint Venture	1	0	1	0	0
Forest based industry	..	..	..	..	..
Agro..based industry	1	..	..	..	..
Mineral..based industry	..	..	..	..	..
Other based industry	..	..	1	..	..
Government company	1	2	0	4	1
Forest..based industry	1	..	..	1	..
Agro..based industry	..	2	..	1	..
Mineral based industry	..	..	..	1	..
Other based industry	..	..	..	1	1
Total	91	63	46	28	13

Contd...

TABLE 6.10(contd.): NUMBER OF ESTABLISHMENT BY SECTOR & SIZE OF EMPLOYMENT, BHUTAN, 2000

Legal status by industry	Total persons engaged					
	41-50	51-100	101-200	201-300	300+	Total
Sole proprietorship/partners	6	12	7	3	0	252
Forest-based industry	1	5	1	1	..	107
Agro-based industry	2	1	2	..	..	68
Mineral-based industry	1	4	1	1	..	15
Other based industry	2	2	3	1	..	62
Private Company	1	3	2	3	3	19
Forest-based industry	..	2	..	2	..	6
Agro-based industry	..	..	..	..	..	1
Forest based industry	..	1	..	..	2	3
Agro-based industry	..	..	..	..	..	1
Mineral-based industry	..	1	..	1	1	3
Other based industry	..	..	..	..	..	1
Government Company	0	4	2	3	3	20
Forest-based industry	..	2	..	1	..	5
Agro-based industry	..	..	1	2	1	7
Mineral based industry	..	..	..	..	1	2
Other based industry	..	2	1	..	1	6
Total	7	21	11	10	9	299

Source: "Census of Manufacturing Industries 2001"

TABLE 6.11: NUMBER OF PERSONS ENGAGED IN INDUSTRIES BY EMPLOYMENT STATUS AND SEX, 2000

Type of industry	Male					
	All male	Proprietor	Employee	Casual	Skilled	Un-skilled
Forest based industry	3,877	78	1,512	812	943	532
Agrobased industry	1,327	58	324	320	332	293
Mineralbased industry	5,385	17	1,357	1,935	673	1,403
Other based industry	3,573	37	1,409	553	909	665
All activities	14,162	190	4,602	3,620	2,857	2,893

Source: "Census of Manufacturing Industries 2001"

TABLE 6.12: NUMBER OF PERSONS ENGAGED IN INDUSTRIES BY EMPLOYMENT STATUS AND SEX, 2000

Type of industry	Female					
	All female	Proprietor	Employee	Casual	Skilled	Un-skilled
Forest based industry	551	18	185	138	70	140
Agrobased industry	854	22	59	366	52	355
Mineralbased industry	459	4	74	217	55	109
Other based industry	888	22	205	281	221	159
All activities	2,752	66	523	1,002	398	763

Source: "Census of Manufacturing Industries 2001"

TABLE 6.13: STATUS AND SEX, BHUTAN, 2000

Sector	Male					
	All male	Proprietor	Employee	Casual	Skilled	Unskilled
Sole proprietor	4,282	180	1,315	1,174	906	707
Private Company	2,406	7	601	648	707	443
Joint sector	3,842	3	1,079	1,232	455	1073
Government company	3,632	-	1,607	566	789	670
All Sectors	14,162	190	4,602	3,620	2857	2893

Source: "Census of Manufacturing Industries 2001"

TABLE 6.14: NUMBER OF PERSON ENGAGED IN INDUSTRIAL SECTORS BY EMPLOYMENT STATUS AND SEX, BHUTAN, 2000

Sector	Female					
	All female	Proprietor	Employee	Casual	Skilled	Unskilled
Sole proprietor	905	66	166	359	199	115
Private company	341	-	40	149	83	69
Joint sector	412	-	116	111	28	157
Government company	1,094	-	201	383	88	422
All Sectors	2,752	66	523	1,002	398	763

Source: "Census of Manufacturing Industries 2001"

CHAPTER 7
TRANSPORT AND COMMUNICATIONS

About two and half decades back, Bhutan had fragmented transport and communications network. 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. In 1985 the gradual privatization of the public transport services was achieved in 1990 with 21 operators managing a fleet of more than 100 buses on 73 routes. As of December 2006, there were 33,241 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 25 years, tremendous achievements were made in establishing 4,544.73 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 is responsible for the design and planning of roads and in setting standards for quality.

Druk Air, the national airline commenced providing services since February 1983 and was commercialized in 1985. Bhutan established its international air links first with Kolkata, India and today it flies to ten destinations in the region. The Division of Civil Aviation was established in 1986 to provide infrastructure and services and to regulate the airline industry. The Civil Aviation Act was enacted in 1990 and the Division of Civil Aviation became the member of ICAO (International Civil Aviation Organization. The Paro International Airport was inaugurated on 10 April 1999 and has taken the air transport sectors further ahead in providing the reliable, safe and comfortable travel services.

Within the last two and half decades, telecommunication network has changed from physical wire network to a national digital network. Telecommunication has been accorded high priority in Bhutan's development plans. 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. In September 1993 the telecommunication link between Thimphu and Tsirang was established and in March 1999 all the 20 district headquarters had access to telecommunication services. Within the period 1992-1999 the number of telephones per 100 people increased from 0.08 to 1.12.

Following the formulation and implementation of Bhutan Postal Act of 1996, Division of Post was incorporated under Bhutan Companies Act. In 1993, Bhutan Post introduced International Express Mail Service and after a year Domestic Express Services and Fax Mail Services were introduced. Fax Money Order Service started in 1996 followed by Post Overnight Courier and Bhutan Post Express Passengers Services in 1997. Within a short period, Bhutan Post increased the types of services from 4 to 13. There are now 125 postal services, where on an average one Post Office caters to around 5174.8 Bhutanese People.

The recently completed 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 every day affairs. As of December 2006, there were 6,685 Internet and 31,526 telephone connections.

Yet another breakthrough was the launch of cellular mobile (B Mobile) services in the Kingdom, coinciding with the His Majesty's Birthday, 11 November 2003. The Bhutan Telecom Authority has now connected all twenty Dzongkhags by the cellular services.

TABLE 7.1: LENGTH OF ROADS BY TYPE, BHUTAN, 2001 TO JUNE 2006

(Length in Km)

Type of road	National highway	District road	Feeder road	Urban road	Farm road	Forest road	All road
2001	1,558.0	476.0	1,092.9	87.7	..	..	3,745.8
Black topped	..	..	..	..	..	..	2,334.4
Non-black topped	..	..	..	..		..	1,411.1
2003	1,578.1	459.0	1,327.2	91.7	..	551.1	4,007.1
Black topped	1,559.1	360.0	401.4	91.1	..	7.0	2,418.5
Non-black topped	19.0	99.0	925.8	0.6	..	544.1	1,588.6
2004	1,577.2	459.0	1,226.5	109.2	251.5	529.5	4,152.9
Black topped	1,559.1	360.0	417.1	102.1	4.8	7.4	2,450.5
Non-black topped	18.20	99.00	809.40	7.10	246.40	522.10	1,702.20
2005	1,571.04	459.00	1,278.26	125.11	388.54	570.60	4,392.50
Black topped	1,552.89	360.00	420.16	117.15	4.84	7.38	2,462.42
Non-black topped	18.15	99.00	858.10	7.96	383.70	563.22	1,930.13
2006	1,556.00	510.95	1,246.91	130.22	525.85	574.80	4,544.73
Black topped	1,537.85	380.70	436.20	118.75	4.84	7.38	2,485.72
Non-black topped	18.15	130.25	810.71	11.47	521.01	567.42	2,059.01

Source: Department of Roads, MoWHS, Thimphu.

TABLE 7.2: LENGTH OF ROADS BY TYPE AND DZONGKHAG, BHUTAN, AS ON JUNE 2006

(Length in Km)

Dzongkhag	National highway	District road	Feeder road	Urban road	Farm Road	Forest road	Total	Percen-tage
Bumthang	122.0	0.0	54.0	0.0	51.3	47.8	275.2	6.1
Chhukha	223.0	0.0	205.8	15.7	10.9	30.9	486.3	10.7
Dagana*	0.0	87.0	32.1	1.5	24.5	0.0	145.1	3.2
Gasa	0.0	25.5	0.0	0.0	4.1	0.0	29.5	0.65
Ha	16.0	25.6	33.0	2.23	7.0	47.0	130.9	2.9
Lhuentse	0.0	45.0	52.3	0.95	36.2	14.0	148.4	3.27
Monggar	184.0	20.0	68.1	2.2	17.2	44.8	336.3	7.4
Paro	103.0	36.4	57.0	0.0	54.5	5.2	256.2	5.6
Pemagatshel	0.0	23.0	40.9	0.0	16.7	17.6	98.2	2.2
Punakha	9.0	26.5	54.5	4.4	45.4	59.0	198.8	4.4
Samdrup Jongkhar	73.8	50.0	52.6	7.3	19.0	0.0	202.7	4.5
Samtse	0.0	89.0	25.4	9.00	15.2	7.0	145.6	3.2
Sarpang	123.4	0.0	42.6	0.0	50.9	93.3	310.2	6.8
Thimphu	111.0	0.0	90.2	71.4	18.9	103.9	395.3	8.7
Trashigang	121.0	5.0	136.9	4.0	58.9	8.5	334.3	7.4
Trashi Yangtse	0.0	40.0	37.0	5.2	22.6	10.5	115.3	2.5
Trongsa	168.0	0.0	33.9	0.0	20.8	10.7	233.4	5.1
Tsirang	64.0	0.0	28.2	1.5	22.7	6.5	122.9	2.7
Wangdue Phodrang	133.8	0.0	130.6	3.0	12.9	26.6	306.9	6.8
Zhemgang	104.0	38.0	71.9	1.9	16.2	41.6	273.6	6.0
Bhutan	1,556.00	510.95	1246.91	130.22	525.85	574.80	4544.73	0

Note:The Length of Forest Roads change from time to time as some of them are abandoned after logging operation in a certain area are completed.

Source: Department of Roads, MoWHS, Thimphu.

TABLE 7.3: NUMBER AND LENGTH OFMOTORABLE BRIDGES IN BHUTAN BY TYPE AS ON APRIL 2007

Type of bridges	Number	% by number	Length(m)	% By length
RCT Beam	48	20.34	918.80	13.89
RC Slab	17	7.20	299.35	4.53
Prestressed concrete	6	2.54	331.00	5.00
Bailey bridge	105	44.49	2,788.51	42.16
Bailey Suspension Bridge	5	2.12	475.62	7.19
Hemilton and steel	6	2.54	187.60	2.84
Composite bridge	23	9.75	335.56	5.07
Composite arch bridge	1	0.42	48.00	0.73
Wooden	1	0.42	10.00	0.15
Submersible	7	2.97	206.50	3.12
Arch-RC	1	0.42	120.00	1.81
Steel Pony Truss	4	1.69	190.00	2.87
Steel Truss/Grider	9	3.81	560.00	8.47
Steel Langer Arch	1	0.42	95.25	1.44
Multi Cell Box Culvert	2	0.85	48.00	0.73
All bridges	236	100.00	6,614.19	100.00

Type of bridges	Number	% by number	Length(m)	% By length
Total Permanent bridges	125	52.97	3,274.13	49.50
Total Temporary bridges	111	47.03	3,340.06	50.50
Total No of bridges	236	100.00	6,614.19	100.00

Source: Bridge Division, DoR, MoWHS, Thimphu.

TABLE 7.4: NUMBER OF SUPENSION BRIDGES COMPLETED DURING I TO IX FIVE YEAR PLAN PERIODS BY DZONGKHAG 2006

Dzongkhag	Plan periods					
	I-IV	V	VI	VII	VIII	IX
Bumthang	1	7	3	4	2	3
Chhukha	3	5	1	3	2	3
Dagana	2	2	2	3	4	3
Gasa	0	0	2	2	2	1
Ha	3	6	1	3	2	1
Lhuentse	3	4	2	3	5	3
Monggar	9	5	2	5	6	6
Paro	3	8	3	2	1	3
Pemagatshel	2	7	2	3	4	3
Punakha	3	4	1	0	2	3
Samdrup Jongkhar	10	13	6	2	6	2
Samtse	10	14	2	1	2	3
Sarpang	9	8	5	0	5	2
Thimphu	0	1	3	3	1	3
Trashigang	7	12	2	3	8	7
Trashi Yangtse	3	6	4	3	3	3
Trongsa	4	6	3	3	2	3
Tsirang	6	4	1	2	2	1
Wangdue Phodrang	2	10	5	3	3	2
Zhemgang	1	5	4	4	4	3
Bhutan	81	127	54	52	66	58

Note: The completed bridges include two power tiller bridges funded by RGoB/JICA, six pedestrain bridges funded by DANIDA/RGoB,there pedestrain bridges funded by DSP (Decentralisation Support Program) besides our normal planned bridges under suspension bridges programme.12 of the planned bridgesof the 9th FYP are under various stages of construction currently.

Source: Ministry of Works & Human Settlement.

TABLE 7.5: NUMBER OF REGISTERED VEHICLES BY TYPE AND REGION, 2002 TO 2006

Region	Heavy	Medium	Light	Two-Wheeler	Taxi	Earth mover	Others	All Types
2002	2,747	770	10,071	8,371	1,423	464	584	24,430
Thimphu	553	411	6,691	5,160	1,013	135	397	14,360
Gelephu	96	46	383	627	18	14	89	1,273
Phuntsholing	1,923	261	2,653	1,837	379	267	17	7,337
Samdrup Jongkhar	175	52	344	747	13	48	81	1,460
2003	2,810	781	11,428	7,507	1,560	479	438	25,003
Thimphu*	623	473	7,586	4,540	1,079	158	184	14,643
Gelephu	85	49	332	628	21	10	138	1,263
Phuntsholing	1,915	230	3,144	1,608	441	272	17	7,627
Samdrup Jongkhar	187	29	366	731	19	39	99	1,470
2004	2,964	919	13,359	6,583	1,785	472	658	26,740
Thimphu	709	597	9,006	3,276	1,235	158	358	15,339
Gelephu	137	5	327	704	26	9	140	1,348
Phuntsholing	1,938	277	3,619	1,739	504	265	41	8,437
Samdrup Jongkhar	180	40	407	810	20	40	119	1,616
2005**	4,352	..	15,374	7,138	2,050	509	491	29,914
Thimphu	1,668	..	10,235	3,417	1,410	232	140	17,102
Gelephu	152	..	483	845	34	15	136	1,665
Phuntsholing	2,301	..	4,179	1,982	583	240	52	9,337
Samdrup Jongkhar	231	..	477	894	23	22	163	1,810
2006	4,184	363	17,712	7,931	2,056	549	446	33,241
Thimphu	1,729	7	11,773	3,499	1,452	273	234	18,967
Gelephu	159	5	537	859	39	8	35	1,642
Phuntsholing	2,061	351	4,875	2,056	538	262	69	10,212
Samdrup Jongkhar	235	-	527	1,517	27	6	108	2,420

Notes:
1.Excludes vehicles of armed forces.
2."Others" include bull dozers, road rollers, pay loaders, excavators, cranes, tractors, power tillers, etc.
3. *For the year 2003, Medium-category vehicles are included in the Heavey category for Thimphu region.
4. ** For 2005 and after, medium category vehicles are included in the heavy category for all regions.
Source: Road Safety and Transport Authority, MoIC, Thimphu.

TABLE 7.6: NUMBER OF DRIVING LICENCES ISSUED BY REGION,2006

Region	No. of Licenses
Thimphu	1,935
Phuentsholing	413
Gelephu	784
Samdrupjongkhar	324
Professional driving license	559
Total	4,015

Note: PDL is issued from Thimphu only

Source: Road Safety and Transport Authority, MoIC, Thimphu.

TABLE 7.7: NUMBERS OF PASSENGERS CARRIED & REVENUE EARNED BY DRUK AIR FLIGHTS BY SECTOR, 2002 TO 2006

Sector	2002	2003	2004	2005	2006
Paro to Kolkata	3,156	3,592	4,990	6,933	7,359
Kolkata to Paro	2,585	3,116	4,397	6,242	6,190
Paro to Bangkok	9,007	8,431	10,879	13,642	15,642
Bangkok to Paro	8,874	8,269	10,610	13,265	15,608
Paro to Dhaka	142	462	n.a	n.a	136
Dhaka to Paro	147	471	n.a	n.a	108
Paro to Delhi	3,185	3,393	4,718	7,168	7,866
Delhi to Paro	3,296	3,469	4,608	7,222	7,782
Paro to Kathmandu	3,193	2,881	4,388	5,633	4,945
Kathmandu to Paro	3,229	2,953	4,163	5,805	4,801
Kathmandu to Delhi	427	2,121	2,687	4,333	7,432
Delhi to Kathmandu	81	1,046	985	2,531	3,059
Kolkata to Bangkok	1,568	2,059	2,693	9,602	10,934
Bangkok to Kolkata	1,406	1,991	2,312	8,798	10,750
Dhaka to Bangkok	145	1279	n.a	n.a	123
Bangkok to Dhaka	166	558	n.a	n.a	91
Paro to Yangon	24	82	166	n.a	n.a
Yangon to Paro	1	82	127	n.a	n.a
Dhaka to Yangon	53	264	n.a	n.a	n.a
yangon to Dhaka	17	245	n.a	n.a	n.a
Gaya to Bangkok	n.a	n.a	n.a	n.a	3,203
Bangkok to gaya	n.a	n.a	n.a	n.a	2,954
Yangon to Bangkok	139	615	1196	n.a	n.a
Bangkok to Yangon	18	169	401	n.a	n.a
Paro to Gaya	n.a	106	418	515	711
Gaya to Paro	n.a	58	274	510	443
kolkata to Yangon	n.a	n.a	14	n.a	n.a
Yangon to kolkata	n.a	n.a	19	n.a	n.a
Total passengers (a)	40,859	47,712	6,005	92,199	110,137
Revenue (Nu.in millions)	425	451.3	609.8	838.87	1,172.67
During fiscal/calendar year	2001/02	2002/03	2003/04	2004/05	2005/2006

Source: Druk Air Corporation, Paro.

TABLE 7.8: NUMBER OF FLIGHTS MADE BY DRUK AIR BY SECTOR, 2002 TO 2006

Sector	2002	2003	2004	2005	2006
Paro to Calcutta	197	167	275	266	267
Calcutta to Paro	175	166	260	268	265
Paro to Bangkok	226	270	267	264	394
Bangkok to Paro	220	271	271	266	390
Paro to Dhaka	27	103	0	n.a	18
Dhaka to Paro	29	105	0	n.a	18
Paro to Delhi	107	111	140	162	166
Delhi to Paro	108	109	139	162	161
Paro to Kathmandu	116	120	146	164	163
Kathmandu to Paro	116	120	152	165	164
Paro to Yangon	16	104	92	n.a	n.a
Yangon to Paro	17	104	101	n.a	n.a
Paro to Gaya	n.a	7	9	11	90
Gaya to Paro	n.a	7	9	11	94
Delhi to katmandu	100	104	137	160	155
katmandu to Delhi	95	104	122	148	154
Bangkok to kolkata	166	157	197	261	259
Kolkata to Bangkok	195	155	195	245	263
Gaya t o Bangkok	n.a	n.a	n.a	n.a	93
Bangkok to Gaya	n.a	n.a	n.a	n.a	95
Dhaka to Yangon	16	104	n.a	n.a	n.a
Yangon to Dhaka	17	104	n.a	n.a	n.a
kolkata to Yangon	n.a	n.a	13	n.a	n.a
yangon to Kolkata	n.a	n.a	13	n.a	n.a
Dhaka to Bangkok	27	104	n.a	n.a	18
Bangkok to Dhaka	29	104	n.a	n.a	18
yangon to bangkok	16	104	96	n.a	n.a
Bangkok to Yangon	17	104	100	n.a	n.a
All sectors	2,032	2,908	2,734	2,553	3,245

Source: Druk Air corporation, Paro.

TABLE 7.9: TELEPHONE CONNECTION CAPACITY BY EXCHANGE, 2002 TO 2006

Exchange (Switch type)	2002	2003	2004	2005	2006
Bubja(DRMASS)	n.a	n.a	n.a	n.a	128
Bartsham(DRMASS)	n.a	n.a	n.a	n.a	64
Basochu(DRMASS)	n.a	n.a	n.a	n.a	55
Bngtar(DAMA)	n.a	n.a	n.a	n.a	4
Chumey(SAU)	n.a	n.a	n.a	n.a	256
Chargarey(DRMASS)	n.a	n.a	n.a	n.a	42
Changmari(DRMASS)	n.a	n.a	n.a	n.a	128
Chapcha(DRMASS)	n.a	n.a	n.a	n.a	64
Dechencholing(ELU)	720	720	720	720	720
Damji(DRMASS)	n.a	n.a	n.a	n.a	30
Dramtse(DRMASS)	n.a	n.a	n.a	n.a	64
Deothang(SAU)	n.a	n.a	n.a	n.a	512
Dagana(DRMASS)	128	128	128	128	128
Dagana(VoIP)	n.a	n.a	n.a	n.a	400
Drujegang(DRMASS)	128	128	128	128	64
Dagapela(DRMASS)	n.a	n.a	n.a	n.a	64
Damphu(RLU)	388	636	636	992	n.a
Damphu(E10)	n.a	n.a	n.a	n.a	992
Damthang(SAU)	n.a	n.a	n.a	n.a	256
Gepshing(DRMASS)	n.a	n.a	n.a	n.a	128
Gelephu(LS)	1,104	1,572	1,572	1,652	2,164
Gelephu(corDECT)	n.a	n.a	n.a	n.a	1,000
Gedu(CDOT)	n.a	n.a	n.a	n.a	672
Gomtu(SAU)	n.a	n.a	n.a	n.a	384
Gasa(DRMASS)	n.a	n.a	n.a	n.a	128
HAA(DRMASS)	249	249	532	532	n.a
HAA(RLU)	n.a	n.a	n.a	n.a	732
Jakar(RLU)	487	892	892	892	892
Jomotsangkha(EPOST)	n.a	n.a	n.a	n.a	108
Jengkha(DRMASS)	n.a	n.a	n.a	n.a	64
Khasadrapchu(SAU)	n.a	n.a	n.a	n.a	384
Khaling(DRMASS)	n.a	n.a	n.a	n.a	128
Kanglung(DRMASS)	128	540	540	508	n.a
Kanglung(RLU)	n.a	540	540	508	n.a
Kanglung(E10)	n.a	n.a	n.a	n.a	1,008
Lhuntse(DRMASS)	64	128	123	123	127
Lobesa(DRMASS)	n.a	n.a	n.a	n.a	128
Laya(EPOST)	n.a	n.a	n.a	n.a	8
Lingshi(DAMA)	n.a	n.a	n.a	n.a	4
Lhamoi Zhingkha(DAMA)	n.a	n.a	n.a	n.a	4
Mongar(RLU)	548	540	832	892	892

Contd.

TABLE 7.9(contd.): TELEPHONE CONNECTION CAPACITY BY EXCHANGE, 2002 TO 2006

Exchange (Switch type)	2002	2003	2004	2005	2006
Merak(EPOST)	n.a	n.a	n.a	n.a	8
Menjowong(EPOST)	n.a	n.a	n.a	n.a	8
Nganglam(DAMA)	n.a	n.a	n.a	n.a	4
Pemagatshel(RLU)	376	376	376	504	504
Phontsholing(LS)	3,448	3,832	3,832	6,008	6,008
Phuntsholing(corDECT)	n.a	n.a	n.a	n.a	560
Padechu(DRMASS)	n.a	n.a	n.a	n.a	20
Pasakha(SAU)	n.a	n.a	n.a	n.a	640
Paro(LS)	1,588	1,784	1,784	2,680	3,192
Paro(corDECT)	n.a	n.a	n.a	n.a	1,000
Punakha(RLU)	504	504	632	632	632
Panbang(DAMA)	n.a	n.a	n.a	n.a	104
Rangjung(DRMASS)	n.a	n.a	n.a	n.a	128
Ramitey(DRMASS)	n.a	n.a	n.a	n.a	64
Simtokha(ELU)	720	720	720	720	720
Samdrupjongkhar(LS)	856	968	968	1,140	1,396
Sinkhar Lauri(EPOST)	n.a	n.a	n.a	n.a	8
Sarpang(DRMASS)	181	256	256	256	n.a
Sarang(RLU)	n.a	n.a	n.a	n.a	892
Surey(DRMASS)	n.a	n.a	n.a	n.a	64
Sinchekha(SAU)	n.a	n.a	n.a	n.a	384
Samtse(LS)	848	884	892	1,788	1,788
Sibsu(SAU)	n.a	n.a	n.a	n.a	384
Satsam(SAU)	n.a	n.a	n.a	n.a	512
Sombekha(EPOST)	n.a	n.a	n.a	n.a	8
Sakten(DAMA)	n.a	n.a	n.a	n.a	4
Thimphu(TLS/INTS)	8,688	15,448	15,464	18,032	17,376
Thimphu(corDECT)	0	0	1,000	1,000	4,000
Trongsa(LS)	590	628	636	892	892
Tshangkha(DRMASS)	n.a	n.a	n.a	n.a	64
Trongsa(corVAN)	n.a	n.a	n.a	n.a	4,000
Trashigang(LS)	924	1,180	1,180	1,404	1,756
Tshenkherla(DRMASS)	n.a	n.a	n.a	n.a	128
Trashiyangtse(DRMASS)	128	128	128	128	128
Tangmachu(DRMASS)	n.a	n.a	n.a	n.a	64
Tala(DRMASS)	n.a	n.a	n.a	n.a	64
Tashijong(DRCS)	n.a	n.a	n.a	n.a	5
Tshimasham(RLU)	556	604	620	676	764
Tshimasham(CorDECT)	n.a	n.a	n.a	n.a	1,000
VoIP	n.a	n.a	n.a	n.a	48
Wangdue(RLU)	636	636	764	976	n.a
Wangdue(E10)	n.a	n.a	n.a	n.a	1,376
Wamrong(DRMASS)	n.a	n.a	n.a	n.a	128
Yusipang(DRMASS)	n.a	n.a	n.a	n.a	125
Yadi(DRMASS)	n.a	n.a	n.a	n.a	64
Yosel Tshe(DRMASS)	n.a	n.a	n.a	n.a	12

Contd.

TABLE 7.9 (contd.):TELEPHONE CONNECTION CAPACITY BY EXCHANGE, 2002 TO 2006

Exchange (Switch type)	2002	2003	2004	2005	2006
Zhemgang(RLU)	256	376	376	376	376
Zhemgang(corDECT)	0	0	1,000	1,000	1,000
Total capacity	24,115	33,729	36,603	48,295	59,024

ALL DRMASS/SAU capacity are included in the HOST exchanges

note:LS-Local Switch, TS- Toll Switch,INTS- International Switch,
RLU-Remote Line Unit,DRMASS-Digital Radio Multiple Access System,
E10-(IN Switch) Intelligient Network< EPOST-(VSAT) Very Small Aperture Treminals
DAMA-Damand Assigned Multiple Access,SAU-Subscriber Access Unit,
VoIP- Voice over Internet Protocol,

Source: Bhutan Telecom, Thimphu.

TABLE 7.10: NUMBER OF TELEPHONE TRUNK CIRCUITS, BHUTAN, JAN TILL DEC 2006

Sector	Type of connection	Existing circuits
Thimphu INTS - London (BT)	Bothway	12
Thimphu INTS- Singapore (ST)	Bothway	8
Thimphu INTS - Japan (KDD)	Bothway	14
Thimphu INTS - Telco214(USA)	Bothway	30
Thimphu TLS - Intel.Gateway Switch	Bothway	90
Thimphu INTS - Nepal	Bothway	7
Thimphu INTS - Thailand	Bothway	7
Thimphu INTS - India	Bothway	90
Thimphu TLS - Phuntsholing	Bothway	147
Thimphu TLS - Trongsa	OG	44
Thimphu TLS - Trongsa	IC	44
Thimphu TLS - Gelephu	OG	29
Thimphu TLS - Gelephu	IC	29
Thimphu TLS- Trashigang	OG	14
Thimphu TLS- Trashigang	IC	14
Thimphu TLS - Samdrup Jongkhar	OG	29
Thimphu TLS - Samdrup Jongkhar	IC	29
Thimphu TLS - Paro	Bothway	88
Thimphu TLS - Wangdue Phodrang	Bothway	90
Thimphu INTS - Wangdue Phodrang	Bothway	60
Thimphu TLS- Punakha	N/A	n.a
Thimphu TLS - Decholing	N/A	n.a
Thimphu TLS- Basochu	N/A	n.a
Thimphu TLS - Kasa Dapchu	N/A	n.a
Thimphu TLS- Yoesepang	N/A	n.a
Thimphu TLS - Lobesa	N/A	n.a
Thimphu TLS - VOIP National	Bothway	30
Thimphu TLS - VOIP International	Bothway	30
ThimphuTLS - Gasa	N/A	n.a
Thimphu TLS - Damjee (Gasa)	N/A	n.a
Thimphu TLS- Simtokha	N/A	n.a
Thimphu TLS- DAMA	OG	12
Thimphu TLS- DAMA	IC	12
Thimphu TLS- Thimphu corVAN	Bothway	60
Thimphu TLS-kanglung	Bothway	91
Thimphu TLS- Samtse	Bothway	60
Thimphu TLS- Tsirang	Bothway	60
Thimphu TLS- Druknet	OG	240
Trongsa - Jakar	N/A	n.a
Trongsa - Zhemgang	N/A	n.a
Trongsa - Tshangkha	N/A	n.a
Trongsa - Bubja	N/A	n.a
Trongsa - Chumey	N/A	n.a
Trongsa - Gelephu	OG	30
Trongsa - Gelephu	IC	30
Trongsa - S/Jongkhar	N/A	n.a
Trongsa - S/Jongkhar	N/A	n.a
Trongsa - DAMA	OG	5
Trongsa - DAMA	IC	5
Trongsa -Zhemgang cor DECT	Bothway	30

Contd..

TABLE 7.10 (contd.): NUMBER OF TELEPHONE TRUNK CIRCUITS, BHUTAN, JAN TILL DEC 2006

Sector	Type of connection	Existing circuits
Trongsa - Trongsa cor VAN	Bothway	60
Trongsa - Kanglung	Bothway	60
Trashigang - Mongar	N/A	
Trashigang - Tashi Yangtse	N/A	
Trashigang - Yonphula	N/A	
Trashigang - Khaling	N/A	
Trashigang - Wamrong	N/A	
Trashigang - Tshenkherla	N/A	
Trashigang - Rangjung	N/A	
Trashigang - Dremetse	N/A	
Trashigang - Bartsham	N/A	
Trashigang - Kanglung	Bothway	90
Trashigang - Yadi	N/A	
Trashigang DAMA	OG	6
Trashigang DAMA	IC	6
Mongar - Luntse	N/A	
Mongar - Tangmachu	N/A	
Mongar - Gelpoishing	N/A	
Kanglung- kanglung cor VAN	Bothway	60
Samdrup Jongkhar - Pemagatshel	N/A	
Samdrup Jongkhar - Deothang	N/A	
Samdrup Jongkhar - Kanglung	Bothway	60
Samdrup Jongkhar - Tashigang	N/A	
Samdrup Jongkhar DAMA	OG	6
Samdrup Jongkhar DAMA	IC	6
Jomoitshangkha DAMA	N/A	
Nanglam DAMA	N/A	
Bangtar DAMA	N/A	
Gelephu - DAMA	N/A	
Gelephu - Sarpang	N/A	
Gelephu - Tsirang	Bothway	60
Gelephu - Surey	N/A	
Gelephu - Gelephu corDECT	Bothway	30
Panbang DAMA	N/A	
Tsirang - Dagana	N/A	
Tsirang - Dagapela	N/A	
Tsirang - Drukjegang	N/A	
Tsirang - Tsirang corVAN	Bothway	60
Phuntsholing - Samtse	Bothway	60
Phuntsholing - Gedu	N/A	
Phuntsholing - Pasakha	N/A	
Phuntsholing - Remetey	N/A	
Phuntsholing - Paro	Bothway	60
Phuntsholing - Phuntsholing corDECT	Bothway	60
Phuntsholing - Kolkata	Bothway	90
Paro - Tsimatsham	N/A	
Pare - Haa	N/A	
Paro - Chapcha	N/A	

Contd..

TABLE 7.10 (contd.): NUMBER OF TELEPHONE TRUNK CIRCUITS, BHUTAN, JAN TILL DEC 2006

Sector	Type of connection	Existing circuits
Paro - Haa Damthang	N/A	
Paro - Haa Jengkhana	N/A	
Paro - Paro corDECT	Bothway	30
Paro - Tsimasham corDECT	Bothway	30
Thimphu B-Mobile MSC -PSTN Thimphu	Bothway	307
Thimphu B-Mobile MSC -PSTN Intl gateway switch	Bothway	60
Thimphu B-MobileMSC-PSTN Wangdue	Bothway	122
Samtse - DAMA	OG	3
Samtse - DAMA	IC	3
Samtse - Samtse corVAN	Bothway	60
Wangdue -Tsirang	Bothway	60
Wangdue -Kanglung	Bothway	60
Wangdue -wangdue corVAN	Bothway	61
Total trunk lines (National, International and DAMA)		3,140

Source: Bhutan Telecom, Thimphu.

TABLE 7.11: NUMBER OF TRUNK LINES, CONNECTION CAPACITIES & SETS IN USE, 2002 TO 2006

Details	2002	2003	2004	2005	2006
Trunk lines	691	713	2,699	3,102	3,140
Satellite Communications	106	128	164	162	232
International Lines	28	50	86	96	168
Domestic (DAMA)	78	78	78	66	64
Digital Microwave	480	480	480	480	480
Digital Radio Concentrator System	15	15	15	15	15
DRMASS	60	60	120	120	120
VOIP	30	30	30	56	56
SDH	n.a	n.a	1,890	7,560	11,340
Connection capacity	21,879	34,120	39,036	48,295	59,024
Telephone sets in use	20,168	23,657	30,285	32,709	31,526
Cellular Mobile Subscribers	-	7,736	18,995	37,842	82,078

Source: Bhutan Telecom, Thimphu.

TABLE 7.12: NUMBER OF TELEPHONE TRUNK CALLS BY TYPE, 2002 TO 2006

Type of call	2002	2003	2004	2005	2006
Domestic calls	10,285	13,684,113	17,626,815	22,692,205	25,784,563
International calls	220	273,431	1,860,705	1,877,931	1,949,680
India	1,387	1,710,548	1,578,465	1,613,460	1,686,267
Other	n.a	n.a	282,240	264,471	263,413
All calls	11,893	15,668,092	19,487,520	24,570,136	27,734,243

Source: Bhutan Telecom, Thimphu.

TABLE 7.13: TELECOMMUNICATION TRAFFIC IN MINUTES AND REVENUE EARNINGS, BHUTAN, 2002 TO 2006

Details	2002	2003	2004	2005	2006
Type of calls					
Domestic calls (minutes)	24,704,092	34,210,284	38,394,147	64,676,091	70995238
International calls (minutes)	4,824,491	4,959,950	5,509,120	6,139,579	5,842,238
India	4,099,185	4,276,372	4,605,610	5,163,205	4,913,824
Other countries	725,306	683,578	903,510	976,374	928,414
Total calls (Domestic + International)	29,528,583	39,170,234	43,903,267	70,815,670	76,837,476
Revenue earnings (Nu.in Million)	376	419	594	709	877

Source: Bhutan Telecom, Thimphu.

TABLE 7.14: NUMBER OF COMMUNICATION FACILITIES 2002 TO 2006

Postal infrastructure	2002	2003	2004	2005	2006
General Post Offices	2	2	2	2	2
Post Offices	9	9	10	34	41
Branch Post Offices	n.a	n.a	n.a	n.a	n.a
Agency Post Offices	33	33	33	7	0
Community Mail Offices	66	66	65	54	47
Telegraph or Fax Offices	n.a	n.a	n.a	n.a	35
Wireless Stations(a)	n.a	n.a	n.a	n.a	n.a

Note:

WT.Stations are merged with Telecommunication Division since july 1995 (a) Includes 3 stations installed at New Delhi, Dhaka and Kalimpong.

Source: Bhutan Post, Thimphu

TABLE 7.15: VOLUME OF POSTAL MAIL TRAFFIC BY DESTINATION, 2001 TO 2006

Type of service	2001	2002	2003	2004	2005	2006
Domestic	1,170,697	1,375,963	1,148,292	955,292	852,314	720,830
International	683,789	658,701	590,400	559,769	722,753	768,641
Dispatch	265,886	246,845	204,900	186,716	139,660	170,161
Receipt	417,903	411,856	385,500	373,053	583,093	598,480
Total mail items	1,854,486	2,034,664	1,738,692	1,515,061	1,575,067	1,489,471

Source: Bhutan Post, Thimphu

TABLE 7.16: VOLUME OF MAIL, BY TYPE OF ARTICLE AND DESTINATION, 2006

Type of mail	Actual Volume	International		
	Total Domestic	Total	Inward	Outward
Letter-post items				
Ordinary letter	534,469	713,726	569,755	143,971
Registered items	69,388	34,909	18,191	16,718
Parcels	984	1,973	1,653	320
Express mail service (EMS)	6,147	9,528	5,605	3,923
Post Overnight Courier (POC)	-	8,505	3,276	5,229
Electronic mail:	-		-	-
Local Urgent Mail (LUM)	109,842		-	-
Facsimile message	-	-	-	-
All mail items	720,830	768,641	598,480	170,161

Note:

Letters-post items include letters,postcards,aerogrammes, printed matters,packets, book post.

Mails are of two categories i.e. ordinary or registered.

Our Post does not provide telegraph service and wireless service since 1993.

Volume of mail in above is shown in actual figures and not in million.

Source: Bhutan Post, Thimphu

TABLE 7.17: NUMBER AND VALUE OF MONEY ORDER BY TYPE, BHUTAN, 2002 TO 2006

Type	2002	2003	2004	2005	2006
Total money orders					
Number of orders	27,659	38,780	33381	41,971	43,927
Amount of orders (Nu.)	64,011,289	67,981,300	82,296,406	89,481,947.9	115,114,821
Domestic money order					
Number of orders	12,071	23,000	23,140	28,986	34,387
Amount of orders (Nu.)	30,157,172	36,021,200	49,602,026	62,912,814	91,250,905.9
International money order					
Dispatched					
Number of orders	15,458	15,700	9,916	11,933	9,129
Amount of orders (Nu.)	33,703,539	31,844,200	32,435,814	26,219,504.4	23,739,977
Receipts					
Number of orders	130	80	325	1,052	411
Amount of orders (Nu.)	150,678	115,900	258,566	349,629.6	123,938.1

Source:Bhutan Post, Thimphu

CHAPTER 8
ENERGY

The major source of energy in Bhutan has traditionally been firewood, and still represents the major source of energy consumption. 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. With the commissioning of the first two units of Chhukha Hydro Projects in 1986, and the other two units in 1998 Bhutan substantially increased its electricity generation and became a significant exporter of electricity to India. In 2006, the total electricity generation was 3,357.2 Million Unit.

The Kurichu Hydro power with a capacity of 60W and Bashocu Hydro Power with 24MW generated 365.6Million unit and 331.7 Million Unit respectively in 2006. With the commissioning of mega “Tala Hydro Power Project” this year, there is a substantial improvement in the energy generation of the country.

Domestic consumption of electricity has been marginal but should increase with the ongoing emphasis on Rural Electrification Programs. Other forms of energy as the solar, wind and biomass energy are being explored. Number of villages electrified increased from 1210 in 2004/05 to 1,318 villages as of December 2006. This trend is a positive indication of the prospective reduction of dependence on fuel wood as a source of energy, in the near future.

Studies have reported that Bhutan has one of the highest per capita consumption of firewood. However, this will slowly changed with the government’s policy of duty-free import of wood saving electrical gadgets.

TABLE 8.1: ELECTRICITY GENERATING STATIONS AND THEIR CAPACITIES, BHUTAN, FY 2005/06

Generating stations (Dzongkhag)	Installed capacity (No. x MW)	Generating capacity (MW)	Peak generation (MW)	Energy generated (MU)
Hydro stations (a)				
Chhukha	4 x 84.000	336.000	360.000	1931.907
Chumey (Bumthang)	3 x 0.500	1.080	1.300	3.678
Gidakom (Thimphu)	5 x 0.250	0.816	0.850	5.521
Jushina (Thimphu)	4 x 0.090	0.360	0.260	1.102
Kurichu (Mongar)	4 x 15.000	60.000	60.000	365.623
Basochu..I (W/phodrang)	2 x 12.000	24.000	24.000	117.826
Basochu..II (W/phodrang)	2 x 20.000	40.000	41.400	213.828
Rangjung (Trashigang)	2 x 1.100	2.200	1.200	1.227
Chenari (Trashigang)	3 x 0.250	0.000	0.000	0.000
Khaling (Trashigang)	3 x 0.000	0.000	0.000	0.000
Khalanzi (Mongar)	3 x 0.130	0.260	0.228	0.483
Wangduephodrang	3 x 0.100	0.340	0.118	0.542
Micro hydels				
Lhuntse (Lhuntse)	2 x 0.060	0.120	-	0.148747
Rukubji (W/phodrang)	1 x 0.040	0.040	-	0.058830
Tangsibi (Trongsa)	1 x 0.030	0.030	-	0.033859
Trongsa (Trongsa)	1 x 0.050	0.050	-	0.107543
Bubja (Trongsa)	1 x 0.030	0.030	-	0.109685
Tamshing (Bjakar)	1 x 0.030	0.030	-	0.074164
Ura (Bjakar)	1 x 0.050	0.050	-	0.174810
Yadi (Mongar)	1 x 0.030	0.030	-	0.000000
Kekhar (Zhemgang)	1 x 0.020	0.020	-	-
Surey (Sarpang)	1 x 0.070	0.070	-	0.098050
Damphu (Tsirang)	2 x 0.100	0.200	0.140	0.888692
Tingtibi (Zhemgang)	2 x 0.100	0.200	0.120	0.201340
Dagana (Dagana)	2 x 0.100	0.200	0.150	0.706146
Lingzhi (Thimphu)	1 x 0.008	0.008	-	-
Rongchu (Lhuentse)	2 x 0.100	0.200	0.230	1.124860
Chendebji	1 x 0.070	0.070	0.071	0.374417

Contd.

TABLE 8.1 (contd.): ELECTRICITY GENERATING STATIONS AND THEIR CAPACITIES, BHUTAN, FY 2005/06

Generating stations (Dzongkhag)	Number of machines	Generating capacity (MW)	Peak generation (MW)	Energy generated (MU)
Diesel generation stations				
Thimphu	7	-	-	0.005
Paro	1	-	-	0.000
Phuentsholing	3	0.000	-	0.346
Damphu	3		-	0.075
Trongsa	2	-	-	0.189
Gelephu	2	0.692	-	0.003
Sarpang	2	0.505	-	0.003
Kalikhola	2	0.000	-	0.346
Zhemgang	3	-	-	0.003
Dagana	2	-	-	0.004
Trashigang	4	-	-	0.000
Bjakar	4	0.806	-	0.854
Mongar	1	-	-	0.007
Samdrup Jongkhar	2	-	-	0.010
Trashi Yangtse	1	-	-	0.025
Pema Gatshel	1	-	-	0.003
Samtse	1	-	-	0.000
Other diesel stations				
Penden Cement Authority Ltd.	4	3.600	-	0.000
Bhutan Board Products Ltd.	2	0.458	-	-
Chhukha Hydro Power Corp.	5	1.949	-	-
Bhutan Carbide & Chemical Ltd.	2	0.225	-	0.003
Bhutan Ferro Alloys Ltd.	1	0.288	-	0.146
Kurichu Hydro Power corp.	2	0.563	-	0.028
Basochu Hydro Prower corp.	1	0.090	-	0.000

Note: The given energy generation are annual energy generation during the year 2005/06

Source: Department of Energy, Ministry of Trade & Industry

TABLE 8.2: TOTAL ELECTRICITY GENERATION AND SUPPLY, BHUTAN, 2002/03 TO 2005/06

Details	2002/03	2003/04	2004/05	2005/2006
Installed capacity (MW)	437.82	437.82	477.82	477.26
Chhukha hydro power	336.00	336.00	336.00	336.00
Kurichu hydro power	60.00	60.00	60.00	60.00
Basochu - I hydro power	24.00	24.00	24.00	24.00
Basochu - II hydro power	..	..	40.00	40.00
Other hydro power	8.63	8.63	8.63	8.07
All diesel generators	9.19	9.19	9.19	9.19
Electricity generation (MU)	2,200.17	2528.46	2354.71	2647.72
Chhukha hydro power	1,815.36	2038.39	1764.34	1931.91
Kurichu hydro power	255.77	332.89	340.43	365.62
Basochu - I hydro power	109.28	131.84	116.31	117.83
Basochu - II hydro power	-	-	114.68	213.84
Other hydro power	19.14	23.46	17.39	16.65
All diesel generators	0.61	1.87	1.55	1.87
Exports (MU)	1,560.44	1844.5	1623.66	1943.43
Imports (MU)	24.30	18.72	21.04	34.35
Total energy requirement (MU)	664.33	702.9	752.34	738.30
Total energy sales (MU)	571.27	580.19	622.16	620.89
Energy losses (MU)	93.05	122.72	130.18	117.41
Percentage losses (%)	14.00	17.00	17.00	16.00
Peak system demand (MW)	105.33	112	120.00	128.00
Length of HT lines (33/11 KV)				
Overhead lines (km)	1,712.53	1995.57	1895.54	2084.34
Underground lines (km)	27.23	28.11	40.4	43.03
Length of LT lines				
Overhead lines (km)	1,802.39	1918.57	2134.24	2272.49
Underground lines (km)	63.06	65.79	70.37	229.44

Source: Department of Energy, Ministry of Trade & Industry

TABLE 8.3: MAJOR TRANSMISSION LINES FOR EVACUATING HYDRO POWER FROM CHHUKHA POWER PLANT, 2006

Stations		220 KV line(Km)	132 KV line(Km)	66 KV line (Km)
Chhukha	- Birpara	71.280	-	-
Chhukha	- Singhigoan	33.320	-	-
Chhukha	- Simtokha	54.367	-	-
Indian Border	- Singhigaon	2.500	-	-
Rurichu	- Simtokha	36.430	-	-
Gelephug	- Indian border	-	0.300	-
Gyleposhing	- kilikhar	-	10.214	-
Kilikhar	- Kanglung	-	29.807	-
Kilikhar	- Lhuentse	-	43.100	-
Nangkor	- Deothang	-	23.668	-
Gyleposhing	- Nangkor	-	33.700	-
Nangkor	- Nganglam	-	34.300	-
Nganglam	- Tingtibi	-	83.200	-
Tingtibi	- Gelephug	-	46.000	-
Chhukha	- Gedu	-	-	20.100
Gedu	- Phuntsholing	-	-	17.700
Chhukha	- Confluence	-	-	36.700
Confluence	- Simtokha	-	-	18.300
Confluence	- Haa	-	-	33.522
Simtokha	- Dechenchholing	-	-	11.900
Confluence	- Paro	-	-	24.022
Simtokha	- W/phodrang	-	-	26.023
Lobeysa	- Basochhu	-	-	23.023
Phuntsholing	- Gomtu	-	-	27.002
Phuntsholing	- Singhigoan	-	-	8.380
Phuntsholing	- Birpara	-	-	Redundant
Khasadrapchu	- Jemina	-	-	5.960
Hebisa - Rurichu		-	-	3.080
Tie- Line-Watsa-		-	-	0.500
Total		71.28(d/c): :126.617(s/c)	304.289	256.212

Note: d/c Stands for double circuit s/c for single circuit

Source: Department of Energy, Ministry of Trade & Industry

TABLE 8.4: DETAILS OF DOMESTIC ELECTRICAL ENERGY CONSUMPTION, 2001/02 TO 2005/06

Details	2001/02	2002/03	2003/04	2004/05	2005/2006
Towns electrified (numbers)	40.0	40.0	40	46	68
Villages electrified (numbers)	690.0	819.0	1,064	1,210	1318
Consumers ('000)	38.7	44.7	52.9	57.5	64.3
Sale of energy (million Nu.)	381.1	468.2	539.0	647.7	620.9
Per capita energy consumption (Units)	808.0	927.3	957.2	1,184.8	1141.4

Note : The per capita Energy consumption has increased from 2002/03 partly because of change in format which started including generation of CHPC, BHPC and KHPC. Per capita energy consumption for 2005/06 is based on population of 646851

Source: Department of Energy, Ministry of Trade & Industry

TABLE 8.5: MONTHLY REVENUE FROM SALE OF ENERGY FROM CHHUKHA HYDROPOWER, 2005 TO 2006

Month	2005			2006		
	Export	Internal	Total	Export	Internal	Total
January	43.58	14.65	58.23	53.82	17.33	71.15
February	29.8	13.73	43.52	31.87	15.17	47.03
March	55.36	14.03	69.39	26.09	16.57	42.66
April	93.35	12.76	106.12	97.63	14.56	112.19
May	196.25	13.18	209.43	249.11	15.16	264.27
June	195.95	12.99	208.93	430.02	14.63	444.65
July	502.78	16.31	519.09	513.48	15.99	529.47
August	519.91	14.24	534.15	585.61	3.29	588.90
September	486.68	14.76	501.44	578.57	3.75	582.33
October	480.43	15.8	496.23	479.56	4.65	484.20
November	235.63	16.4	252.03	250.94	6.11	257.05
December	110.5	17.42	127.92	165.99	6.22	172.20
Total	2,950.22	176.26	3,126.48	3,462.67	133.42	3,596.09

Source: Department of Energy, Ministry of Trade & Industry

TABLE 8.6: CONSUMPTION OF ELECTRICITY BY TYPE OF CONSUMER, 2001/02 TO 2005/06

Type of consumer	2001/02	2002/03	2003/04	2004/05	2005/06
Total consumption (MU)	489.26	550.644	560.782	618.545	612.591
Domestic	63.670	72.119	76.717	90.584	97.511
Commercial & Government Offices	32.240	44.965	48.568	52.510	52.889
Industries	343.732	365.761	372.557	415.078	404.151
Bulk supply	49.199	66.848	62.112	59.319	56.795
Public lighting	0.415	0.950	0.828	1.054	1.245
Consumption as percentage	100.000	100.000	100.000	100.000	100.000
Domestic	13.013	13.097	13.680	14.645	15.918
Commercial & Government Offices	6.590	8.66	8.661	8.489	8.634
Industries	70.256	66.424	66.435	67.106	65.974
Bulk supply	10.056	12.140	11.076	9.590	9.271
Public lighting	0.085	0.173	0.148	0.170	0.203

Source: Department of Energy, Ministry of Trade & Industry

CHAPTER 9
TOURISM

The tourism industry has been an important source of hard currency to Bhutan since the country was first opened to tourism in 1974. The potential as far as foreign exchange earnings are concerned are very high, though the Government has followed a strategy regulating the number of tourists coming into Bhutan.

The main statistics of interest in the field of tourism relate to the characteristics of visitors and the details of existing tourist facilities, interest centers and visitor arrivals, where they come from, when they come and the purpose of their visit.

Earning of foreign exchange from the overseas visitors is another important aspect.

There has been a steady rise of tourist arrivals in the country during the 1990s through 2000, while in 2002 there was a comparative decrease in tourist arrivals owing to the terrorism and outbreak of SARS. In 2006, there were 17,342 tourists compared to 13,626 in 2005. The largest numbers of tourist arrivals have been originating from the Europe, United States of America, Asia and Pacific and Africa.

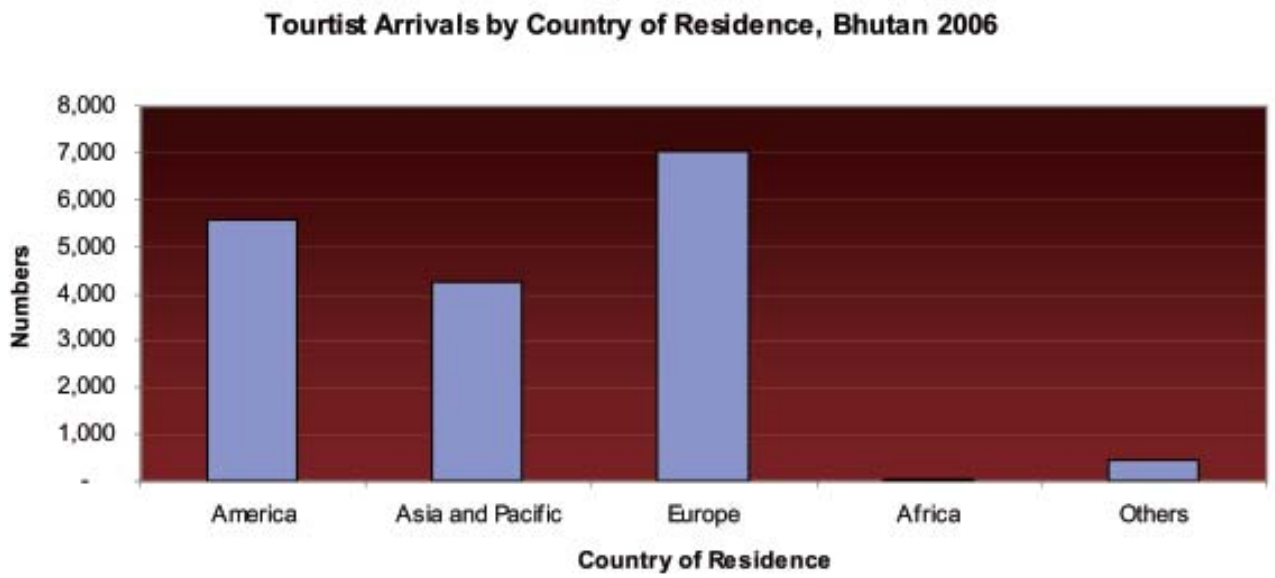

TABLE 9.1: ANNUAL TOURIST ARRIVALS BY REGION/CONTINENT, BHUTAN, 2002 TO 2006

(Number)

Country	2002	2003	2004	2005	2006
Africa	17	14	14	44	47
South Africa	17	14	14	44	47
Asia & Pacific	1,281	1,411	1,685	2,771	4,264
Australia	214	165	315	458	774
China	25	19	78	234	362
Japan	892	952	1,087	1,556	1,815
Korea	44	13	10	61	60
Malaysia	2	28	17	72	49
Nepal	16	13	15	16	25
New Zealand	32	37	50	76	116
Phillipines	8	8	21	21	72
Singapore	8	20	16	149	180
Taiwan	40	90	46	10	35
Thailand	46	66	30	96	776
America	2,142	2,025	3,601	5,117	5,560
Argentina	4	7	7	13	39
Brazil	21	19	60	44	55
Canada	166	121	257	296	375
Mexico	38	72	34	83	73
USA	1,913	1,806	3,243	4,681	5,018
Europe	1,067	2,671	3,819	5,457	7,031
Austria	92	152	223	319	484
Belgium	22	104	124	134	220
Czech	5	11	17	29	49
Denmark	10	55	85	56	85
Finland	14	14	11	21	35
France	192	288	434	532	708
Germany	346	496	671	1,042	1,074
Greece	4	3	18	39	42
Ireland	7	14	24	31	51
Italy	177	331	462	529	648
Luxemburg	1	7	5	9	8
Netherlands	197	179	163	329	389

TABLE 9.1(contd.): ANNUAL TOURIST ARRIVALS BY REGION/CONTINENT,BHUTAN 2002 TO 2006

(Number)

Country	2002	2003	2004	2005	2006
Norway	25	9	10	58	104
Poland	41	11	47	52	133
Portugal	4	25	21	45	64
Russia	25	56	63	87	125
Spain	68	77	198	185	281
Sweden	41	48	61	84	103
Switzerland	164	177	173	363	427
Turkey	61	9	55	49	51
United Kingdom	519	605	954	1,464	1,950
Middle East	98	47	130	98	46
Israel	5	47	37	98	46
Others	93	93	93	139	394
Total arrivals	5,599	6,261	9,249	13,626	17,342
Trekkers	357	438	507	613	766
Cultural	5,242	5,823	8,742	13,013	16,576

Source: Department of Tourism, MTI, Thimphu.

TABLE 9.2: TOURIST ARRIVALS BY COUNTRY OF RESIDENCE AND REVENUE RECEIPTS, BHUTAN, 2002 TO 2006

Region	2002	2003	2004	2005	2006
America	2,142	2025	3,601	5,117	5,560
Asia and Pacific	1,332	1411	1,685	2,771	4,264
Europe	2,015	2671	3,819	5,457	7,031
Africa	17	14	14	44	47
Others	93	140	130	237	440
All regions(persons)	5,599	6261	9,249	13,626	17,342
Tourism revenue receipts					
Ngultrums(million)	387.9	387.55	589	821.00	1,083.60
Or					
US Dollars(million)	7.98	8.32	13	18.54	23.92

Source: Department of Tourism, MTI, Thimphu.

TABLE 9.3: NUMBER OF TOURIST ARRIVALS BY SEASON AND MONTH,BHUTAN, 2002 TO 2006

Season & Month	2001	2002	2003	2004	2005	2006
Winter	874	849	1,343	1,742	2,400	3,350
November	517	643	862	1,198	1,443	2,084
December	172	151	289	455	625	854
January	185	55	192	89	332	412
Spring	2,540	1,814	1,967	2,493	4,261	5,257
February	355	269	98	358	632	532
March	553	862	654	831	2,164	1,381
April	1,632	683	1215	1,304	1,465	3,344
Summer	551	489	685	1,037	1,289	1,875
May	276	296	397	448	700	999
June	146	79	176	313	315	422
July	129	114	112	276	274	454
Autumn	2,428	2,447	2266	3,977	5,676	6,860
August	252	213	198	476	576	896
September	868	760	612	1,248	1,688	2,187
October	1,308	1,474	1456	2,253	3,412	3,777
Total Arrival	6,393	5,599	6261	9,249	13,626	17,342

Source: Department of Tourism, MTI, Thimphu.

TABLE 9.4: NUMBER OF TOURIST ARRIVALS BY PURPOSE OF VISIT, BHUTAN, 2002 TO 2006

Purpose	2002	2003	2004	2005	2006
Tour, holidays & recreation	5,242	5,823	8,742	13,013	16,576
Trekking & mountaineering	357	438	507	613	766
Total tourists	5,599	6,261	9,249	13,626	17,342

Source: Department of Tourism, MTI, Thimphu.

TABLE 9.5: NUMBER OF TOURIST ARRIVALS BY MODE OF TRANSPORT, BHUTAN, 2002 TO 2006

Mode of transport	2002	2003	2004	2005	2006
By Air	4,062	5,134	6,666	11,715	13,968
By Road	1,537	1,127	2,583	1,911	3,374
Total arrivals	5,599	6,261	9,249	13,626	17,342

Source: Department of Tourism, MTI, Thimphu.

CHAPTER 10
FOREIGN TRADE AND BALANCE OF PAYMENT

Bhutan's economy is closely linked with India, though efforts towards diversification of products and markets are actively pursued. While economy links with other countries are limited, significant amount of aid have been received in recent years and this has enabled substantial increases in imports from third countries. Exports to third countries continue to be very low against higher imports, so reliance has to be placed on inflows of aid for the financing of imports.

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. Payments and receipts include imports and exports of merchandise; services and transfers (such as freight and insurance charges); expenditure by travelers; and capital movements (such as loans and investments). The trade balance measures the balance between imports and exports. Including services and transfers to provide a measure of the current account balance obtain a more comprehensive picture of the balance of payments situations.

The balance of payments statements also show how any negative current account balance is financed. In the case of Bhutan this is achieved through foreign aid. Any surplus of foreign aid over and above current account deficits means an increase in the foreign currency reserves of the country. 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.

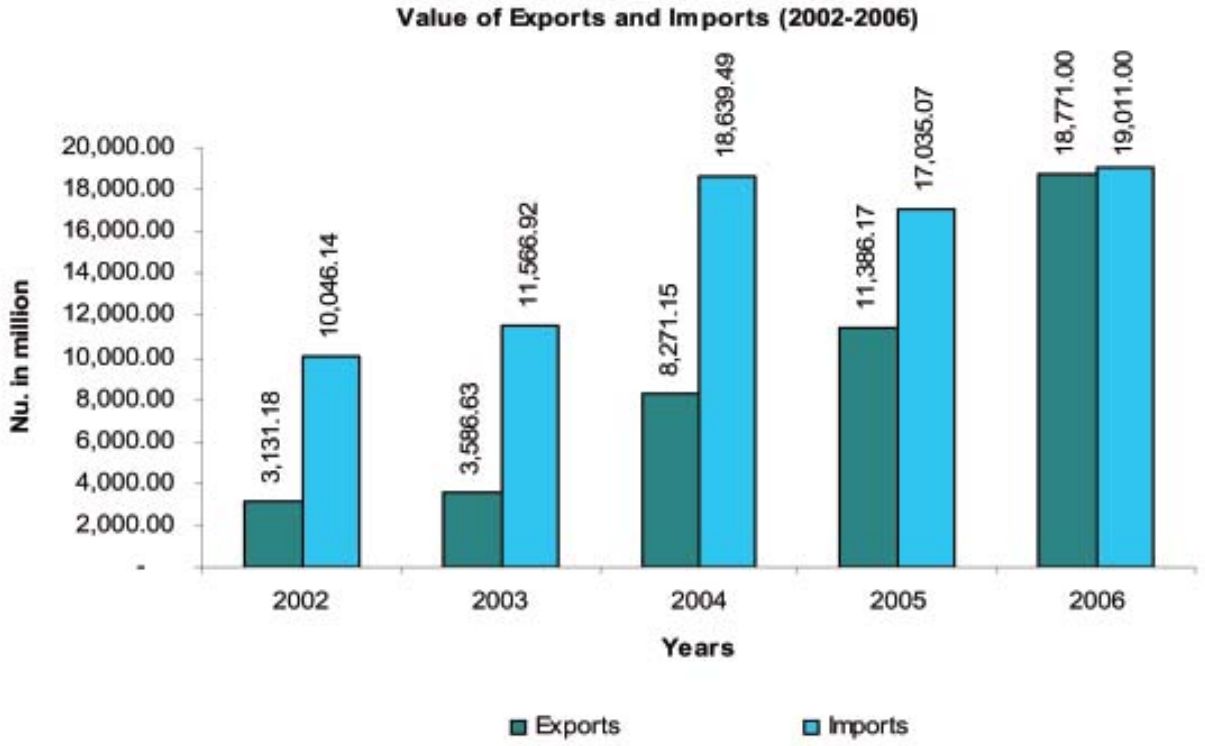

TABLE 10.1: VALUE OF EXPORTS AND IMPORTS, BHUTAN, 2001 TO 2006

(Million Nu)

Trade	2001	2002	2003	2004	2005	2006
Exports	4,994.75	3,131.18	3,586.63	8,271.15	11,386.17	18,771.00
India	4,700.47	2,789.64	3,322.40	7,761.56	9,969.83	14,488.00
Third Countries	294.28	341.54	264.23	509.59	1,416.34	4,283.00
Imports	8,990.20	10,046.14	11,566.92	18,639.49	17,035.07	19,011.00
India	6,988.78	7,573.57	10,228.52	10,193.90	12,795.08	13,053.00
Third Countries	2,001.42	2,472.57	1,338.40	8,445.59	4,239.99	5,958.00
Balance of trade	(3,995.45)	(6,914.96)	(7,980.29)	(10,368.34)	(5,648.90)	(240.00)
India	(2,288.31)	(4,783.93)	(6,906.12)	(2,432.34)	(2,825.25)	1,435.00
Third Countries	(1,707.14)	(2,131.03)	(1,074.17)	(7,936.00)	(2823.65)	(1,675.00)

Note:

Figures within bracket indicate deficit (-).

Source : Department of Revenue & Customs, Ministry of Financ, Thimphu.

TABLE 10.2(a): TOP TEN COMMODITIES OF EXPORTS, BHUTAN, 2006

Commodity	Million Nu. Nu.	Share %	Rank
Electrical energy	4,981.98	35.32	1
Of width not exceeding 4mm	2,474.24	17.54	2
Palm oil	1,380.46	9.79	3
Stranded wires and cables	1,160.72	8.23	4
Portland cement	977.21	6.93	5
Other	809.80	5.74	6
Of refined copper	625.17	4.43	7
Ingots	567.23	4.02	8
Ferro-silicon	564.54	4.00	9
Of calcium	564.46	4.00	10
Total	14,105.81	100.00	

TABLE 10.2(b): TOP TEN COMMODITIES OF IMPORTS, BHUTAN, 2006

Commodity	Million Nu.	Share %	Rank
Other light oils nad preparations (HSD)	1,462.68	23.91	1
Crude oil	1,038.94	16.98	2
Of which maximum cross section dimension exceeds 6 mm	811.32	13.26	3
Motor spirit (gasoline) including avaitation	589.83	9.64	4
Others	563.92	9.22	5
Rice	472.12	7.72	6
Of polysters, partially oriented	349.13	5.71	7
Beer made from malt	297.70	4.87	8
Other	272.13	4.45	9
Ferrous products obtained by direct reduction of iron ore	259.92	4.25	10
Total	6,117.69	100.00	

Source : BACS, Department of Revenue & Customs, Ministry of Finance, Thimphu

TABLE 10.3: VALUE AND ITS PERCENTAGE SHARE OF IMPORTS FROM TOP TEN SELECTED COUNTRIES, BHUTAN, 2006

Country	2006		
	Mill. Nu	Share(%)	Rank
India	13,053.90	73.66	1
Indonesia	1,331.28	7.51	2
Russian Federation	874.81	4.94	3
Singapore	515.13	2.91	4
Korea South	459.35	2.59	5
Japan	395.86	2.23	6
malaysia	351.81	1.99	7
China	281.74	1.59	8
Thailand	257.84	1.45	9
Germany	200.32	1.13	10
Total	17,722.04	100.00	

Source:Department of Revenue & Customs, Ministry of Finance, Thimphu.

TABLE 10.4: VALUE AND ITS PERCENTAGE SHARE OF EXPORTS TO TOP TEN SELECTED COUNTRIES, BHUTAN, 2006

Country	2006		
	Mill. Nu	Share(%)	Rank
India	14,488.06	77.20	1
Hong Kong	2,866.05	15.27	2
Singapore	585.37	3.12	3
Bangladesh	470.13	2.51	4
Thailand	282.41	1.50	5
Nepal	57.36	0.31	6
Japan	8.06	0.04	7
United Kingdom	6.46	0.03	8
United States of America	1.60	0.01	9
Germany	1.57	0.01	10
Total	18,767.07	100.00	

Source:Department of Revenue & Customs, Ministry of Finance, Thimphu.

TABLE 10.5: OVERALL BALANCE OF PAYMENTS ESTIMATES, BHUTAN, FY 2001/02 TO 2005/06

(Million Nu.)

Item	2001/02	2002/03	2003/04	2004/05	2005/06
A.Current Account	(2,327.4)	(3,211.9)	(2518.0)	(9,418.9)	(1344.3)
Exports, fob	4,994.8	5,405.9	7,157.5	8,297.8	13,400.0
Imports, cif	(8,990.2)	(9086.9)	(11123.5)	(19,113.4)	(18503.2)
Trade balance	(3,995.5)	(3681.0)	(3966.0)	(10,815.6)	(5103.2)
Services	(218.0)	(801.5)	(365.4)	(477.3)	(43.9)
Credit	1,416.6	1,194.0	1,421.1	2,070.7	2,723.9
Debit	(1,634.6)	(1995.5)	(1786.5)	(2548.0)	(2,767.8)
Income	(237.1)	(544.8)	(740.3)	(740.7)	(482.1)
Credit	523.1	561.4	436.3	537.2	805.0
Debit	(760.2)	(1106.3)	(1176.6)	(1277.9)	(1,287.1)
Current Transfers	2,123.1	1,815.4	2,553.8	2,614.7	4,284.9
Credit	4,422.4	4,364.9	4,865.6	5,930.8	7,679.0
Of Which Grants	4,126.7	4,059.6	4,287.0	5,474.7	-
Debit	(2,299.3)	(2549.5)	(2311.8)	(3,316.1)	(3,394.0)
B.Capital and Financial Account	4,968.8	10,464.5	8,396.4	9,577.0	6,447.1
Capital Transfers (1)	2,021.3	5,819.0	4,666.8	4,161.6	2,700.0
Foreign Direct Investment	101.2	117.9	157.0	401.4	272.4
Portfolio Investment	..	..	..	0.0	0.0
Foreign Aid (Loans net)	2,846.2	4,527.5	4,666.2	3,467.7	3,474.7
Other loans	..	..	363.3	89.2	0.0
Other Investment	..	..	(1456.9)	1,456.9	0.0
C.Net Errors and Omissions	(1,398.7)	(4639.0)	(5508.3)	(1,076.7)	106.3
D.Overall balance (2)	1,242.7	2,613.6	370.1	(918.6)	5,209.1

Notes:

Figures within bracket indicate deficit (-).

(1) Grants for the Tala project have been reclassified from current to capital transfers as per IMF standards.

(2) Overall Balance is the Change in Reserves.

Source : Royal Monetary Authority of Bhutan, Thimphu

TABLE 10.6: GROSS INTERNATIONAL RESERVES, BHUTAN, 2001/02 TO 2006/07

End of Period

Item	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
	Millions of Rupees					
1.Rupee reserves	3,663.9	3,330.2	4,362.8	3,578.3	3,127.7	769.60
Royal Monetary Authority of Bhutan	635.7	863.6	1,822.4	2,069.7	1,507.4	136.3
Bank of Bhutan Ltd.	1,964.7	1,734.4	1,988.3	1,079.4	938.9	387.4
Bhutan National Bank Ltd.	1,063.6	732.1	552.1	429.1	681.4	245.9
	Millions of US Dollars					
2.Convertible currency reserves	240.5	302.0	287.4	337.7	410.9	581.6
Royal Monetary Authority of Bhutan (a)	202.6	244.4	249.0	306.8	364.8	502.7
Royal Government	..	..	..	..	..	..
Bank of Bhutan Ltd.	18.4	39.6	31.3	21.0	29.6	47.3
Bhutan National Bank Ltd.	19.5	17.7	7.0	9.9	16.5	31.5
	Millions of US Dollars					
3.Total reserves(1+2)	315.4	373.2	383.1	419.8	478.8	599.0
	Months of Imports					
4.Total reserves	20.6	23.0	18.8	12.0	14.3	15.9
Rupee reserves	6.3	4.9	5.3	4.2	2.8	0.7
Convertible currecny reserves	70.6	192.3	117.6	21.6	44.0	55.1

Note:

(a) Includes reserve tranche position in the fund.

From March 2004, the defination of Bhutan's gorss international reserves has been revised to exclude reserves of the RICBL as well as cash in hand of commercial banks. Historical data have also been adjusted.

Months of imports are calculated using gross international reserves and merchandise imports figures (excluding service import

Source : Royal Monetary Authority of Bhutan, Thimphu.

TABLE 10.7: MONTHLY AVERAGE EXCHANGE RATES, NGULTRUMS PER US $, 2001 TO 2006

Month	2001	2002	2003	2004	2005	2006
January	46.54	48.34	47.93	45.46	43.76	44.40
February	46.52	48.69	47.74	45.27	43.68	44.33
March	46.62	48.74	47.65	45.02	43.69	44.48
April	46.79	48.92	47.38	43.93	43.74	44.95
May	46.92	49.00	47.08	45.25	43.49	45.41
June	47.01	48.96	46.72	45.51	43.58	46.06
July	47.14	48.76	46.23	46.04	43.54	46.46
August	47.13	48.59	45.93	46.34	43.63	46.54
September	47.65	48.44	45.85	46.10	43.92	46.12
October	48.02	48.37	45.39	45.78	44.82	45.47
November	48.00	48.38	45.52	45.13	45.73	44.85
December	47.92	48.14	45.59	43.98	45.64	44.54
Calendar year average	47.19	48.61	46.58	45.32	44.1	45.31
	2000/01	2001/02	2002/03	2003/04	2004/05	2005/2006
Fiscal year average	46.39	48.21	47.93	45.41	44.61	44.74

Source: International Financial Statistics, IMF, Royal Monetary Authority, Thimphu.

CHAPTER 11
MONEY, BANKING AND FINANCE

Until recent times most economic transactions in Bhutan were carried out on the basis of barter arrangements. The widespread use of money commenced during the 1960s with the expansion of trade with India and the inflow of development assistance. The Indian Rupee was used till 1974 when the Royal Government issued its first currency notes the Ngultrum. Since then, the monetary section has grown rapidly resulting in the dramatic economic development and improvement in transport and communication, planned urbanization in spite of the fact that barter economy still remains in some part of the country. The monetary sector in Bhutan comprises the Royal Monetary Authority, Bhutan's Central Bank; the Bank of Bhutan and the Bhutan National Bank. The non-bank financial institutions are the Royal Insurance Corporation of Bhutan and the Bhutan Development Finance Corporation, which was established during 1988 to provide long-term loans for development purposes.

The Royal Monetary Authority has developed a comprehensive statistical system for the money, banking and finance sector. Important economic indicators are available in the regular quarterly bulletins "Selected Economic Indicators". 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. Items covered include foreign assets and domestic credit, together with information on the money supply. In addition, financial statements are also available for the two non-bank financial institution.

TABLE 11.1: MONETARY SURVEY, ROYAL MONETARY AUTHORITY, BHUTAN NATIONAL BANK AND BANK OF BHUTAN, 2001 TO 2006

(Nu. in Million)

Item	2001	2002	2003	2004	2005	2006
Assets total	16,271.0	20,252.8	20,165.5	23,045.4	26,772.2	29,849.4
Reserves	14,835.4	17,303.7	16,802.9	17,327.3	21,369.0	24,425.4
Foreign Assets	14,835.4	17,303.7	16,802.9	17,327.3	21,369.0	24,425.4
Rupee	3,405.1	4,567.0	3,575.9	5,446.6	4,779.5	3,786.0
Others	11,430.3	12,736.7	13,227.0	11,880.8	19,349.5	20,639.4
Domestic Credit	1,435.6	2,949.0	3,362.6	5,718.0	5,403.1	5,424.0
Claims on Government. (Net)	(1,309.5)	(455.9)	(2,035.0)	(936.3)	(2,715.0)	(5,183.9)
Claims on Government Corps	315.2	252.0	1,102.6	1,308.8	1,228.0	1,268.8
Claims on Joint Corps.	117.4	117.8	227.1	135.8	109.3	142.8
Claims on private sector	2,308.7	3,031.5	3,711.7	4,963.4	6,462.0	8,658.3
Claims on NMFIs(1)	3.7	3.7	356.2	246.3	319.0	537.9
Liabilities total	16,271.0	20,252.8	20,165.5	23,045.4	26,772.2	29,849.4
Broad money (M2)	10,715.7	13,857.4	13,845.9	16,599.5	18,569.2	20,983.7
Narrow Money (M1)	4,848.1	7,125.1	6,769.9	8,053.8	8,969.7	10,338.2
Nu. Outside Banks	1,609.9	1,648.3	1,802.3	2,070.7	2,404.4	2,762.5
Demand Deposits	3,238.2	5,322.8	4,967.5	5,983.1	6,565.2	7,575.6
NMFI Deposits	0.0	0.0	0.0	0.0	0.0	0.0
Quasi Money (2)	5,867.6	6,732.3	7,076.1	8,545.7	9,599.5	10,645.5
Capital accounts	1,150.5	1,472.1	1,812.0	2,029.4	3,087.6	3,312.5
Other items(net)	5,550.2	6,366.0	6,319.5	6,444.1	8,202.1	8,831.8

Notes:

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.

Broad money (M2)=M=Narrow Money+Quasi Money

Narrow Money (M1)=Nu. Outside banks+Demand deposits+NMFIs Deposits

(1)NFIs stands for Non Monetary Financial Institutions.

(2)Quasi Money stands for time deposits plus foreign currency deposits.

Source : Royal Monetary Authority of Bhutan, Thimphu.

TABLE 11.2: FINANCIAL DETAILS OF ROYAL INSURANCE CORPORATION OF BHUTAN, 2001 TO 2006

(Nu. in Million)

Item	2001	2002	2003	2004	2005	2006
Assets total	1,077.4	1,259.1	1,468.7	1,428.4	1,657.6	1,773.0
Reserves	30.6	44.2	131.7	47.6	47.1	71.0
Foreign Assets	55.4	8.7	4.9	3.6	9.6	10.7
Rupee	50.0	2.7	0.1	0.1	0.1	..
Others	5.4	6.0	4.8	3.5	9.5	10.6
Domestic Credit	991.3	1,156.2	1,254.0	1,369.0	1,592.8	1,633.2
Claims on Government (Net)	..	..	..	..	..	..
Claims on Government Corps.	17.3	18.2	..	..	..	..
Claims on Joint Corps.	..	..	25.2	20.8	14.9	18.2
Claims on private sector	974.0	1,138.0	1,225.8	1,345.2	1,574.9	1,611.9
Claims on NFIs	0.0	0.0	3.0	3.0	3.0	3.0
Claims on DMBs	0.0	0.0	8.1	8.1	8.1	58.1
Liabilities total	1,077.4	1,259.1	1,468.7	1,428.4	1,657.6	1,773.0
General Insurance reserve funds	0.0	0.0	0.0	..	..	..
Life fund	44.1	55.8	71.6	87.2	116.9	153.6
Government employee provident funds	360.2	47.8	65.9	73.8	93.8	117.7
Group Insurance Fund	153.3	168.0	188.6	210.7	233.2	253.9
Credit from DMB	595.0	673.6	186.3	94.5	..	172.4
Unit Trust of Bhutan fund	0.0	0.0	0.0	..	..	..
Capital accounts	156.8	193.6	269.4	306.4	96.0	445.1
Other items (net)	232.0	120.0	236.9	255.7	1,117.6	330.3

Notes:

(1)NFIs stands for Non Monetary Financial Institutions, Including Bhutan National bank.

Domestic credit excluding the claims on DMBs

Source: Royal Monetary Authority of Bhutan, Thimphu.

TABLE 11.3: FINANCIAL DETAILS OF BHUTAN NATIONAL BANK, 2001 TO 2006

(Nu. in Million)

Item	2001	2002	2003	2004	2005	2006
Assets total	3,979.7	4,854.7	5,361.7	6,519.1	7,474.7	9,553.0
Reserves with RMA	195.4	1,917.8	1,441.8	1,221.9	1,857.9	2,210.9
Foreign Assets	2,053.6	1,115.2	966.0	773.9	1,007.6	1,707.6
Rupee	1,088.3	651.0	609.8	540.4	370.1	448.9
Others	965.3	464.3	356.2	233.5	637.5	1,258.7
Domestic Credit	1,345.0	1,821.7	2,953.9	4,523.3	4,609.2	5,634.6
Claims on Government	120.0	120.0	121.9	864.4	120.0	..
Claims on Government Corps	..	..	471.1	590.7	576.1	635.2
Claims on Joint Sector	7.4	7.6	73.8	7.6	7.6	7.6
Claims on private sector	1,213.9	1,690.4	2,179.0	2,966.8	3,819.0	4,988.0
Claims on NBFIs	3.7	3.7	108.2	93.8	86.9	3.7
Liabilities total	3,979.7	4,854.7	5,361.7	6,519.1	7,474.7	9,553.1
Demand Deposits (Current and saving Deposits	683.4	650.4	873.8	1,008.4	1,060.0	1,756.8
Time Deposits	2,220.6	3,057.6	2,510.0	3,730.9	4,162.1	4,781.7
Foreign currency Deposits	30.0	29.6	44.3	81.1	154.2	320.5
Central Govt. Deposits	556.2	640.0	1,026.0	840.7	951.3	1,601.4
Credit from RMA (b)	0.0	0.0	0.0	0.0	..	..
Capital accounts	334.9	328.5	700.0	742.6	836.9	919.1
Other items (net)	154.7	148.6	207.6	115.5	310.1	173.7

Notes:

(a) RICB stands for Royal Insurance Corporation of Bhutan Limited, (b) RMA stands for Royal Monetry Authority.

Source: Royal Monetary Authority and Bank of Bhutan, Thimphu.

TABLE 11.4: MONEY AND BANKING DATAILS OF BHUTAN DEVELOPMENT FINANCE CORPORATION, 2001 TO 2006

(Nu. in Million)

Item	2001	2002	2003	2004	2005	2006
Assets total	789.6	959.9	1,223.9	1,256.0	1,394.1	1,793.0
Reserves	39.3	47.0	93.1	93.2	66.6	131.3
Foreign assets	0.0	0.0	0.0	0.0	0.0	0.0
Rupees	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0	0.0
Domestic Credit*	644.3	909.9	1,115.8	1,152.9	1,327.5	1,581.7
Claims on Government	0.0	0.0	0.0	0.0	0.0	0.0
Claims on Government Corporations	0.9	0.9	0.0	0.0	0.0	0.0
Claims on joint Corporations	0.0	0.0	31.8	18.0	15.5	9.6
Claims on private sector	643.4	909.0	1,084.0	1,134.8	1,312.0	1,572.1
Claims on DMBs(a)	106.0	3.0	15.0	10.0	0.0	80.0
Claims on other NMFIs(b)	0.0	0.0	0.0	0.0	0.0	0.0
Liabilities total	789.6	959.9	1,223.9	1,256.0	1,394.2	1,793.0
Foreign liabilities	267.4	349.2	342.8	320.3	301.4	278.8
Credit from RMA	0.0	0.0	0.0	0.0	0.0	0.0
Credit from DMB(a)	0.0	0.0	100.0	89.9	83.0	374.6
Credit from other NMFIs	0.0	0.0	100.0	90.0	160.0	150.0
Grants	50.0	50.0	50.0	50.0	50.0	50.0
Capital account	346.2	395.8	438.8	507.9	590.3	693.8
Other items net	126.0	164.8	192.3	198.0	209.5	245.7

Notes:

The summary exclude Agriculture Credit Program

(a) represents deposits other than demand deposit (b) represents purchase of unit shares of UTB

*Domestic Credit excluding claims on DMBs and NMFIs

Source: Royal Monetary Authority of Bhutan, Thimphu.

TABLE 11.5: MONEY AND BANKING OF ROYAL MONETARY AUTHORITY OF BHUTAN, 2001 TO 2006

(End of the period) (Nu. in Million)

Item	2001	2002	2003	2004	2005	2006
Assets total	11,023.3	12,339.8	12,260.2	13,933.6	20,664.8	18,510.7
Foreign assets	10,728.2	12,016.6	11,899.0	13,000.5	19,796.1	18,397.7
Indian rupee	1,215.5	913.4	987.3	2,709.6	2,539.7	200.8
Convertible Foreign Currency (Including Gold)	9,512.7	11,103.2	10,911.7	10,290.9	17,256.4	18,197.0
Claims on deposit money banks	293.2	194.3	303.5	895.4	768.3	103.1
Claims on Government	0.0	127.0	56.0	37.0	100.0	0.0
Claims of private sector	1.9	1.9	1.8	0.7	0.5	9.9
Claims on NMFIs	0.0	0.0	0.0	0.0	0.0	0.0
Liabilities total	11,023.3	12,339.8	12,260.2	13,933.6	20,664.8	18,510.7
Reserve money	6,074.3	6,809.8	8,281.0	9,222.6	12,732.9	12,284.8
Currency outside banks	1,609.9	1,648.3	1,802.3	2,070.7	2,404.4	2,762.5
Foreign Liabilities	0.0	0.0	0.0	0.0	0.0	0.0
Rupee	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0	0.0
Government deposits	391.7	216.2	462.0	1,087.6	835.2	1,495.7
RMA Bills Outstanding	410.0	1,100.0	0.0	200.0	100.0	100.0
Capital Account	161.0	277.8	174.3	205.8	1,058.2	1,039.9
Other items (net)	3,486.3	3,936.0	3,342.9	3,217.6	5,938.6	3,590.3

Source: Royal Monetary Authority of Bhutan, Thimphu.

TABLE 11.6: MONEY AND BANKING, BANK OF BHUTAN, 2001 TO 2006

(In Million Nu.)

Item	2001	2002	2003	2004	2005	2006
Assets total	9,137.7	11,300.5	11,602.3	13,013.2	14,404.5	16,930.9
Reserve with RMA	3,083.8	4,555.6	4,900.7	5,386.2	7,565.9	7,647.5
Foreign assets	3,027.0	4,189.8	3,937.9	3,552.9	3,009.8	4,320.0
Rupee	2,074.7	3,002.6	1,978.8	2,196.6	1,869.8	3,136.3
Other	952.3	1,187.2	1,959.1	1,356.4	1,140.0	1,183.7
Claims on Government	250.0	853.8	200.0	1,079.4	200.0	0.0
Claims on Government's corpns.	315.2	252.0	631.5	718.1	652.2	633.5
Claims on joint's Corporations	110.0	110.2	153.3	128.2	101.8	135.3
Claims on private sector	1,093.0	1,339.2	1,530.9	1,996.0	2,642.5	3,660.4
Claims on NMFIs	..	..	248.0	152.5	232.4	534.2
Liabilities total	8,531.5	11,300.5	11,602.3	13,013.2	14,404.5	16,930.9
Demand deposit (a)	2,554.8	4,672.4	4,093.8	4,974.7	5,505.0	5,818.9
Time deposit	3,407.8	3,203.2	3,519.8	4,226.2	4,934.6	5,132.0
Foreign currency deposits	209.3	441.9	1,002.1	507.6	348.6	411.4
Foreign liabilities	973.4	0.0	0.0	..	..	0.0
Rupee	973.4	0.0	0.0	..	..	0.0
Other	0.0	0.0	0.0	..	..	0.0
Government deposits	731.6	775.5	924.9	988.8	1,348.8	2,086.7
Credit from RMA	0.0	0.0	0.0	..	..	0.0
Capital accounts	654.7	865.8	937.7	1,081.1	1,192.5	1,353.6
Other items (net)	606.2	1,341.8	1,124.1	1,234.9	1,075.0	2,128.3

Notes:

In 1997 the Bhutan National Bank included with Bank of Bhutan. (a) Saving deposits included in demand deposits.

Source: Royal Monetary Authority of Bhutan, Thimphu.

TABLE 11.7: INVESTMENTS OF FINANCIAL INSTITUTIONS BY INDUSTRY, AMOUNTS OUTSTANDING, 2001 TO 2006

(In Million Nu.)

Industry	2001	2002	2003	2004	2005	2006
Agriculture	192.1	214.5	220.8	201.8	211.6	242.6
Bank of Bhutan	4.8	6.3	6.7	1.5	0.9	0.9
RICB	0.4	0.3	0.1	1.8	1.9	1.9
BDFC	186.9	208.1	214.0	198.6	208.8	239.8
Bhutan National Bank	0.0	0.0	0.0	0.0	0.0	0.0
Service and Tourism**	536.6	1,140.4	734.3	1,776.0	1,084.6	1,663.7
Bank of Bhutan	308.7	852.0	346.1	1,188.9	429.4	883.3
RICB	0.0	0.0	0.0	144.3	158.1	125.7
BDFC	175.1	214.9	269.1	307.2	324.5	380.2
Bhutan National Bank	52.8	73.6	119.1	135.6	172.7	274.5
Manufacturing	821.1	1,100.5	1,462.1	2,100.7	1,701.4	2,278.3
Bank of Bhutan	239.6	305.4	431.6	462.6	662.1	1,029.9
RICB	221.7	283.7	226.3	118.7	121.8	157.6
BDFC	143.2	186.2	243.9	217.5	235.5	270.5
Bhutan National Bank	216.6	325.2	520.4	1,301.8	682.0	820.3
Building and construction	900.2	1,348.3	1,878.2	2,653.9	3,521.2	4,473.7
Bank of Bhutan	184.3	286.7	350.2	542.5	700.0	998.2
RICB	322.9	360.9	456.9	553.5	704.8	676.7
BDFC	68.1	196.2	336.3	364.5	455.2	500.3
Bhutan National Bank	324.9	504.5	734.8	1,193.4	1,661.2	2,298.5
Trade and commerce	649.7	822.2	1,025.2	1,276.2	1,559.7	1,925.4
Bank of Bhutan	303.4	354.0	393.8	480.3	562.6	672.4
RICB	109.2	165.6	326.8	364.4	400.4	435.5
BDFC	47.1	67.4	36.6	48.6	69.1	114.0
Bhutan National Bank	190.0	235.1	267.9	382.8	527.6	703.5
Transport (Heavy)	449.8	430.2	416.0	392.0	373.6	346.2
Bank of Bhutan	323.7	299.0	289.1	251.6	209.7	161.0
RICB	50.7	47.2	37.5	39.6	44.5	38.8
BDFC	16.6	10.0	10.8	11.7	28.6	47.6
Bhutan National Bank	58.8	74.0	78.6	89.2	90.7	98.8
Transport (Light)	254.5	310.6	378.8	404.0	457.8	506.6
Bank of Bhutan	76.6	117.3	163.1	189.8	230.5	266.2
RICB	104.9	91.9	69.4	41.6	45.2	58.2
BDFC	0.0	0.0	0.0	0.0	0.0	0.0
Bhutan National Bank	73.1	101.4	146.3	172.6	182.1	182.2
Personal loans	472.0	558.4	558.5	733.8	860.1	1,077.9
Bank of Bhutan	53.7	50.6	55.7	141.5	194.6	292.2
RICB	132.3	157.3	52.4	62.4	73.9	96.6
BDFC	5.5	4.0	3.4	3.0	3.0	19.4
Bhutan National Bank	280.5	346.5	446.9	526.9	588.5	669.7

Contd..

TABLE 11.7(contd.): INVESTMENTS OF FINANCIAL INSTITUTIONS BY INDUSTRY, AMOUNTS OUTSTANDING, 2001 TO 2006 (In Million Nu.)

Industry	2001	2002	2003	2004	2005	2006
Staff loan	26.6	39.6	52.2	54.7	67.1	79.5
Bank of Bhutan	14.7	23.7	34.0	37.9	51.2	64.0
RICB	2.3	1.7	1.1	0.6	0.3	0.1
BDFC	0.0	0.0	0.0	0.0	0.0	0.0
Bhutan National Bank	9.7	14.3	17.1	16.3	15.6	15.4
EDP loans	5.3	5.3	5.4	5.6	4.9	5.6
Bank of Bhutan	4.3	4.9	5.1	5.0	3.4	3.5
RICB	1.0	0.4	0.3	0.2	0.2	0.4
BDFC	0.0	0.0	0.0	0.0	0.0	0.0
Bhutan National Bank	0.0	0.0	0.0	0.4	1.3	1.7
Small Business and Artisan Schem	8.2	7.7	7.3	6.0	3.2	2.1
Bank of Bhutan	8.2	7.7	7.3	6.0	3.2	2.1
RICB	0.0	0.0	0.0	0.0	0.0	0.0
BDFC	0.0	0.0	0.0	0.0	0.0	0.0
Bhutan National Bank	0.0	0.0	0.0	0.0	0.0	0.0
Loan Against Shares	13.2	20.3	74.1	52.8	42.3	46.3
Bank of Bhutan	9.4	2.8	1.8	0.7	0.7	7.8
RICB	1.8	3.7	0.9	0.6	0.4	0.4
BDFC	0.0	0.0	0.0	0.0	0.9	8.3
Bhutan National Bank	2.0	13.8	71.5	51.4	40.2	29.8
Others	0.0	0.0	0.0	0.0	0.0	0.0
Bank of Bhutan	0.0	0.0	0.0	0.0	0.0	0.0
RICB	0.0	0.0	0.0	0.0	0.0	0.0
BDFC	0.0	0.0	0.0	0.0	0.0	0.0
Bhutan National Bank	0.0	0.0	0.0	0.0	0.0	0.0
Total	4,329.3	5,998	6,813	9,657.5	9,887.4	12,647.8

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 11.8: INTEREST RATES FOR DEPOSITS IN FINANCIAL INSTITUTIONS, 2003 TO 2006

Type of deposit	2003	2004	2005	2006
Savings	5.0%	4.5%	4.5%	4.5%
Fixed deposit				
a) 3 months to less than 1year	5.5%	4.5%	4.5%	4.5%
b) 1 year to less than 3 years	7.5%	6.0%	6.0%	6.0%
c) 2 years to less than 3 years	7.5%	6.0%	6.0%	
d) More than 3 years	8.5%	7.0%	7.0%	7.0%
For Institutions & Companies				
(46 days < 1 Year	4.0%	3.0%	3.0%	2.0%

Source: Bank of Bhutan,Main Branch, Phuntsholing

TABLE 11.9: INTEREST RATES AND REPAYMENT PERIOD BY SECTOR AND TYPE OF LOAN, FINANCIAL INSTITUTIONS (a), BHUTAN, 2004 TO 2006

Sector	2004		2005		2006	
	Interest Rate (% p.a)	Repayment period (Years)	Interest Rate (% p.a)	Repayment period (Years)	Interest Rate (% p.a)	Repayment period (Years)
Export finance						
(convertible currency areas)	13-15	1	13-14	1	13-14	1
General trade	15	1	14	1	14	1
Buses and trucks	13	5	13-14	5	13	5
Other passanger vehicles	15	5	14	5	14	5
Agriculture and Livestock	13	10	13	5	13	5
Manufacturing Industry						
Term Loan	12	10	12	10	12	10
Working Capital	13	..	13	..	13	..
Service Industries *						
Term Loan	12	10	10	10	10	10
Working Capital	14	..	13	..	13	..
Personal loans	15	5	15	5	15	5
Equity finance	13	10	13	10	13	10
Housing (Construction/Purchase)	10	20	10	20	10	20
Housing (Renovation)	13	20	13	20	13	20

Notes:

(a)Rates applicable since August 22, 1994.

* includes tourism, contract services, and other service activities.

Source: Bank of Bhutan,Main Branch, Phuntsholing.

TABLE 11.10: ROYAL SECURITIES EXCHANGE OF BHUTAN LTD, NUMBER OF SHAREHOLDERS, BHUTAN, 2001 TO 2006

Company	2001	2002	2003	2004	2005	2006
Bhutan Beverages & Company Ltd.	..	4,820	4,443	4,407	4,372	4,372
Bhutan Board Products Ltd.	489	489	489	489	489	489
Bhutan Carbide & Chemical Ltd.	266	267	267	270	269	269
Bhutan Dairy Ltd.	96	96	96	96	96	96
Bhutan Ferro Alloys Ltd.	37	37	40	50	46	46
Bhutan National Bank Ltd.	405	409	5,451	4,656	4,193	4,193
Bhutan Polymers Company Ltd.	78	95	104	102	102	102
Bhutan Tourism Corpn. Ltd	89	83	83	161	161	161
Druk Petroleum Corpn. Ltd.	80	80	79	71	71	71
Druk plaster & Chemicals Ltd.	203	203	203	203	203	203
Druk Satair Corporation Ltd.	1,201	1,200	1,186	1,264	1,150	1,150
Druk Stones & Minerals Export Co. Ltd	64	64	64	69	69	69
Penden Cement Authority Ltd.	1,616	1,620	1,520	1,477	1,477	1,477
Royal Insurance Corpn. of Bhutan	2,056	1,871	1,715	1,670	1,641	1,641
State Trading Corpn. of Bhutan Ltd.	133	127	127	125	125	125
S.D Eastern Bhutan Coal Company Ltd.	..	..	..	..	1,152	1,152
Total	6,813	11,461	15,867	15,110	15,616	15,616

Source: Royal Securities exchange of Bhutan Ltd, Thimphu.

TABLE 11.11: ROYAL SECURITIES EXCHANGE OF BHUTAN LTD, MARKET INFORMATION AT THE END OF DECEMBER 2006

Company	Price per share (Nu)	Paid-up Shares	Market Capitalization (Nu)
Bhutan Beverages Company Ltd.	100	1,150,000	115,000,000
Bhutan Board Products Ltd.	100	1,400,014	140,001,400
Bhutan Carbide Chemicals Ltd.	6,000	100,000	600,000,000
Bhutan Dairy Ltd.	100	140,929	14,092,900
Bhutan Ferro Alloys Ltd.	510	1,500,000	765,000,000
Bhutan National Bank Ltd.	650	1,190,080	773,552,000
Bhutan Polymers Company Ltd.	100	249,334	24,933,400
Bhutan Tourism Corpn. Ltd.	170	209,400	35,598,000
Druk Petroleum Corpn. Ltd.	120	62,370	7,484,400
Druk plaster & Chemicals Ltd.	100	100,000	10,000,000
Druk Satair Corpn. Ltd.	272	456,543	124,179,696
Druk Stones & Minerals Export Co. Ltd.	429	37,702	16,174,158
Penden Cement Authority Ltd.	700	2,266,670	1,586,669,000
Royal Insurance Corpn. of Bhutan Ltd.	350	960,000	336,000,000
State Trading Corpn. of Bhutan Ltd.	190	200,000	38,000,000
S.D Eastern Bhutan Coal Company Ltd.	100	521,000	52,100,000
Total		10,544,042	4,638,784,954

Source: Royal Securities exchange of Bhutan Ltd, Thimphu.

TABLE 11.12: ROYAL SECURITIES EXCHANGE OF BHUTAN LTD. VOLUME TRADED, BHUTAN 2001 TO 2006

Company	2001	2002	2003	2004	2005	2006
Bhutan Beverages Company Ltd.	..	116,0153	27,346	3,912	2,965	1,867
Bhutan Board Products Ltd.	..	230	..	5,000	140	3,030
Bhutan Carbide & Chemicals Ltd.	58	..	6	..	9	61
Bhutan Dairy Ltd.	..	..	..	..	..	..
Bhutan Ferro Alloys Ltd.	24,750	..	..	100	..	..
Bhutan National Bank Ltd.	124,119	2,898	607,369	51,106	20,997	136,383
Bhutan Polymers Company Ltd.	..	57,185	1,100	720	..	50
Bhutan Tourism Corpn. Ltd	..	20	17	1,497	35	1,000
Druk Petroleum Corpn. Ltd.	..	..	..	61,437	..	..
Druk Plaster & Chemicals Ltd.	30,000	..	..	..	33	70,000
Druk Satair Corpn. Ltd.	304,032	..	27	120,941	5,699	154
Druk Stones & Minerals Export Co. Ltd.	4,800	..	..	38,130	..	24,185
Penden Cement Authority Ltd.	1,393	2,974	679	176	957	8,260
Royal Insurance Corpn. of Bhutan Ltd.	2,021	1,583	82,012	6,860	2,350	3,500
State Trading Corpn. of Bhutan Ltd.	10	..	..	370	..	..
S.D Eastern Bhutan Coal Company Ltd.	..	..	..	..	537,013	4,500
Total	491,183	1,225,043	718,556	290,249	570,198	252,990

Source:Royal Securities Exchange of Bhutan Ltd.

TABLE 11.13: ROYAL SECURITIES EXCHANGE OF BHUTAN LTD, TRADED VALUES, BHUTAN, 2001 TO 2006

(Nu.in Million)

Company	Sector	2001	2002	2003	2004	2005	2006
Bhutan Beverages Company Ltd.	Primary	..		..	..	..	..
	Secondary	..	1.020	6.740	1.040	0.520	0.240
Bhutan Board Products Ltd.	Primary	..	..	..	..	..	..
	Secondary	..	0.023	..	0.450	0.130	0.303
Bhutan Carbide & Chemicals Ltd.	Primary	..	..	..	..	..	..
	Secondary	0.286	..	0.030	..	0.570	0.366
Bhutan Dairy Ltd.	Primary	..	..	..	..	..	..
	Secondary	..	..	..	..	..	..
Bhutan Ferro-Alloys Ltd.	Primary	..	..	..	..	..	..
	Secondary	3.470	..	..	0.050	..	..
Bhutan National Bank	Primary	..	..	327.270	..	..	77.742
	Secondary	60.160	3.830	6.930	34.360	13.850	11.307
Bhutan Polymers Company Ltd.	Primary	..	..	..	..	..	..
	Secondary	..	13.280	0.330	0.170	..	0.005
Bhutan Tourism Corpn. Ltd	Primary	..	..	..	..	..	..
	Secondary	..	0.030	0.020	2.490	0.060	0.170
Druk Petroleum Corpn. Ltd.	Primary	..	..	..	..	..	..
	Secondary	..		..	6.310	..	..
Druk plaster & Chemicals Ltd.	Primary	3.000	..	..	..	..	..
	Secondary	..	..	..	..	0.010	7.000
Druk Satair Corpn. Ltd.	Primary	30.400	..	..	..	..	..
	Secondary	..	..	..	47.860	1.510	0.042
Druk Stones & Minerals Export Co. Ltd.	Primary	..	..	..	..	..	..
	Secondary	0.480	..	..	12.680	..	9.289
Penden Cement Authority Ltd.	Primary	..	..	..	..	..	..
	Secondary	5.880	13.650	3.400	0.940	0.970	6.155
Royal Insurance Corpn. of Bhutan Ltd.	Primary	..	..	81.360	..	..	..
	Secondary	8.290	6.620	2.580	2.400	0.860	1.219
State Trading Corpn. of Bhutan Ltd.	Primary	..	..	..	..	..	..
	Secondary	..	..	..	0.060	..	..
S.D Eastern Bhutan Coal Company Ltd.	Primary	..	..	..	..	..	..
	Secomdary	..	..	..	..	54.390	0.450
Total		111.966	38.453	428.660	108.810	72.870	114.288

Source: Royal Securities Exchange of Bhutan Ltd.

CHAPTER 12
PUBLIC FINANCE

The system of modern public finance in Bhutan is of very recent origin. Traditionally taxes were being collected in kind; the levy on agricultural produce being on an average one fourth of the production of each farming family and labour contribution amounting to about two months labour for every adult. By 1960, as the government began to grow, institutionalization of public finance became a necessity.

In 1963, the position of a Finance Secretary was created in the Royal Secretariat and in 1968 the Ministry of Finance; one of the first few Ministries was formed. In 1970, the system of payment of taxes in kind was largely dispensed with so as to be taken up by the system of cash taxes based on the type of land holding.

The Ministry of Finance presented the first budget on modern lines in 1971. It was called the Civil Budget as it covered the needs of the Ministry of Finance, Home affairs and Foreign Affairs. The requirements of development oriented Ministries like Communication and Tourism, Trade and Industry, Forest and Development were provided under a separate development budget administered first by the Development Secretariat and then by its successor, the Planning Commission. With the commencement of the Fifth Five Year Plan the classification of the government budget into Civil and Development was replaced by the concept of Maintenance and Development Expenditures. Maintenance or Current Expenditures reflected mostly the current or consumption expenditures of the government while development expenditures were identified largely with the expenditures of the government on fixed capital formation.

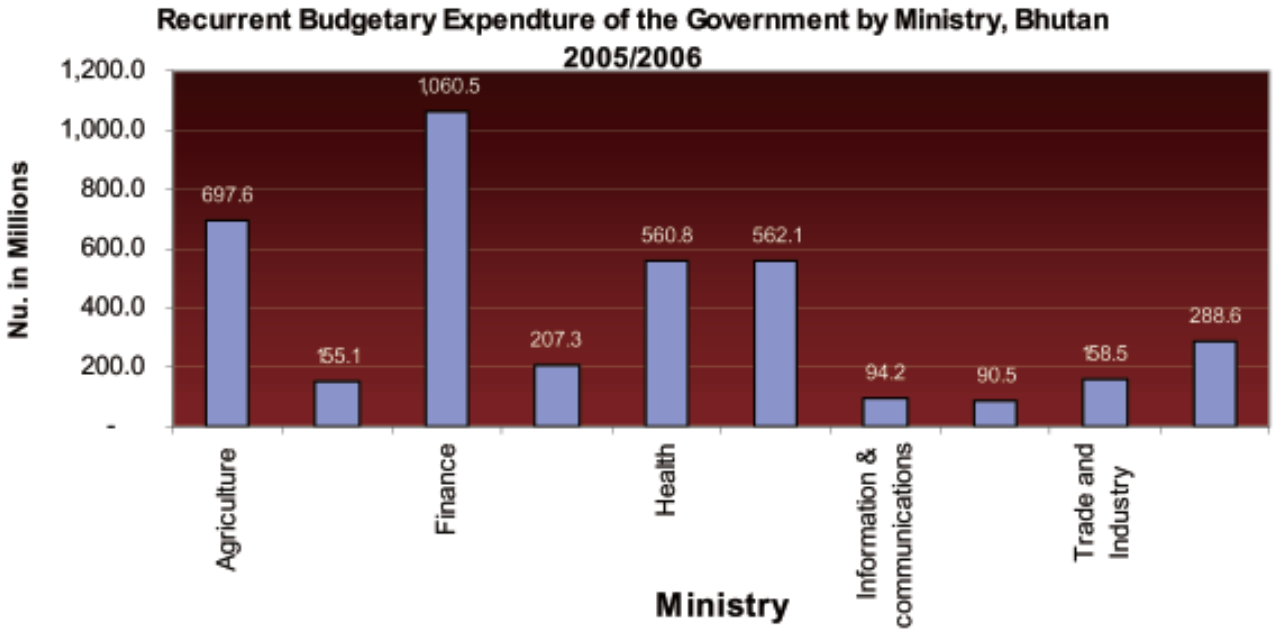

TABLE 12.1: RECURRENT BUDGETARY EXPENDITURE OF THE GOVERNMENT BY MINISTRY/AGENCY BHUTAN, 2000/01 TO 2005/06

(Nu. in Million)

Organization	2000/01 (actual)	2001/02 (actual)	2002/03 (actual)	2003/2004 (actual)	2004/05 (actual)	2005/06 (actual)
Ministry	2,293.8	2,800.7	2,769.5	3,245.0	3,271.8	3,875.2
Agriculture	395.3	420.9	455.3	533.7	607.8	697.6
Education	..	..	..	405.8	419.5	155.1
Finance	207.7	551.9	624.8	802.3	1,049.2	1,060.5
Foreign Affairs	191.2	196.8	215.4	196.9	190.5	207.3
Health	..	..	..	431.8	470.9	560.8
Home Affairs	376.9	399.7	424.3	414.9	23.8	562.1
Information & communications	..	..	..	58.3	70.1	94.2
Labour & Human Resources	..	..	..	82.8	70.3	90.5
Trade and Industry	304.0	363.7	106.3	102.2	123.6	158.5
Works & Human Settlement	..	..	..	216.2	246.1	288.6
Non Ministerial organization	213.9	437.3	461.6	406.6	322.3	675.3
His Majesty's Secretariat	11.4	12.4	12.2	13.3	13.6	15.3
National Assembly	12.2	13.4	19.0	20.5	26.9	29.0
Royal Advisory Council	8.2	9.8	7.9	7.3	8.9	9.4
Cabinet Secretarait	n.a	2.7	5.8	5.4	8.7	9.0
Royal Civil Service Commission	10.5	10.0	13.3	10.5	11.9	20.0
Judiciary	53.0	62.6	60.1	63.3	70.2	81.1
Royal Audit Authority	27.4	29.9	31.1	37.2	38.8	42.7
Bhutan Olympic Committee	20.5	23.2	10.7	7.4	5.9	10.6
Centre for Bhutan Studies	n.a	4.3	4.6	8.4	10.9	8.3
Council for Religious Affairs	n.a	118.8	133.4	150.9	25.6	192.6
Office of legal Affairs	n.a	6.8	8.5	8.5	8.6	16.7
Druk Air Corporation	29.0	n.a	n.a	n.a	n.a	na
Dzongkhag Development Commission	10.2	10.0	7.7	n.a	n.a	na
National Commission for Cultural Affairs	n.a	30.9	32.5	34.5	34.5	na
National Employment Board	n.a	6.4	n.a	n.a	n.a	na
National Environment Commission	n.a	10.0	11.6	12.1	25.5	25.9
National Technical Traning Authority	n.a	51.0	60.8	n.a	n.a	na
National Women's Association	0.4	n.a	n.a	n.a	n.a	na
Planning Commission Secretarait	n.a	12.3	17.5	n.a	n.a.	na
Royal Institute of Management	n.a	23.1	21.3	21.8	25.1	17.8
Royal University of Bhutan	n.a	n.a	n.a	3.4	5.8	181.3
Special Commission	31.4	n.a	n.a	n.a	n.a	n.a
National Statistics Bureau	n.a	n.a	n.a	n.a	n.a	9.3
Anti-Corruption Commission	n.a	n.a	n.a	n.a	n.a	2.0
Office Of The Election Commission	n.a	n.a	3.6	2.1	1.4	4.1
Gewog Administration & Services	n.a	n.a	n.a	n.a	n.a	63.3
Dzongkhags Administration	n.a	1,229.7	1,318.7	1,450.3	1,741.5	2,016.4
Total current expenditure	4,435.6	4,467.9	4,580.9	5,149.2	6,170.6	6,630.2

Source : Department of Budget & Accounts, MoF, Thimphu.

TABLE 12.2: CAPITAL BUDGETARY EXPENDITURE OF THE GOVERNMENT BY MINISTRY/ AGENCY 2000/01 TO 2005/06

(Nu.in Million)

Ministerial/Non-Ministerial Organization	2000/01 (actual)	2001/02 (actual)	2002/03 (actual)	2003/04 (actual)	2004/05 (actual)	2005/06 [actual]
Ministry	n.a	4,350.37	2,885.61	3,870.30	5,538.19	5,372.10
Agriculture	319.33	423.73	658.45	605.27	348.15	588.58
Education	n.a	n.a	n.a	342.23	298.49	476.83
Finance	207.67	472.53	943.30	318.51	2,219.56	510.30
Foreign Affairs	258.50	29.37	141.81	72.35	5.82	19.22
Health	n.a	n.a	n.a	255.80	321.84	687.33
Home Affairs	86.39	71.74	97.30	109.77	118.02	130.40
Information & Communications	n.a	n.a	n.a	33.61	64.36	279.94
Labour & Human Resources	n.a	n.a	n.a	100.28	90.69	125.19
Trade and Industry	3,118.08	1,534.43	1,044.75	827.37	246.50	543.14
Works & Human Settlement	n.a	n.a	n.a	1,205.11	1,824.76	2,011.17
Non ministerial organization	154.38	277.08	326.71	225.62	144.42	318.22
His Majesty's Secretariat	n.a	0.69	0.82	1.03	0.57	0.23
National Assembly	3.13	5.24	1.48	11.43	0.78	6.28
Royal Advisory Council	0.05	1.92	0.64	0.33	0.23	0.71
Cabinet Secretarait	n.a	0.09	0.29	1.65	0.83	0.65
Royal Civil Service Commission	101.33	120.28	141.30	86.45	56.04	50.20
Judiciary	34.47	15.53	17.74	13.21	12.73	31.80
Royal Audit Authority	11.90	9.91	18.63	9.75	11.84	7.62
Bhutan Olympic Committee	2.16	2.97	0.05	0.10	0.73	1.41
Centre for Bhutan Studies	n.a	1.18	0.66	1.03	1.31	2.97
Coucil for Religious Affairs	n.a	14.68	24.51	35.67	21.61	33.61
Office of Legal Affairs	n.a	5.29	2.01	7.10	3.41	3.95
Dzongkha Dev. Commission	14.061	13.91	2.46	na	na	na
Nataional Women's Association	1.34	n.a	n.a	na	n.a	na
National Commission for Cultural Affairs	n.a	19.28	12.48	18.48	n.a	na
National Employment Board	n.a	1.51	n.a	na	n.a	na
National Environment Commission	n.a	14.31	15.25	16.09	18.56	33.70
National Technical Training Authority	n.a	34.45	60.09	na	n.a	na
planning Commission Secretarait	n.a	9.76	16.53	na	n.a	na
Royal Institute of Management	n.a	6.09	11.77	20.34	13.14	24.28
Royal University of Bhutan	n.a	n.a	n.a	2.96	2.64	108.41
National Statistics Bureau	n.a	n.a	n.a	na	n.a	1.76
Anti-corruption Commission	n.a	n.a	n.a	n.a	n.a	7.38
Office of the Election Commission	n.a	n.a	n.a	n.a	n.a	3.28
Gewog Administration & Services	n.a	n.a	n.a	n.a	n.a	254.93
Dzongkhags Administration	n.a	604.09	375.08	434.71	611.50	739.17
Total development expenses		5,312.55	5,309.58	4,653.05	6,615.25	6,684.42

Source : Department of Budget & Accounts, MoF, Thimphu.

TABLE 12.3: BUDGETARY RECEIPTS OF THE GOVERNMENT BY SOURCE, BHUTAN, 2001/02 TO 2005/06

(Nu.in Million)

Source of revenue	2001/02 (actual)	2002/03 (actual)	2003/04 (actual)	2004/05 (actual)	2005/06 (actual)
Tax revenue	2,675.55	2,928.30	2,689.90	3,382.37	4,124.68
Direct tax	1,626.11	1,716.05	1,908.02	2,013.63	2,420.09
Business Income Tax	317.20	350.20	404.02	423.16	356.54
Corporate Income Tax	987.83	922.49	1,015.42	1,022.08	1,363.30
Rural tax	9.59	1.51	1.37	-	-
Health Contribution	23.44	26.85	30.71	36.00	44.06
Motor Vehicle Tax	..	62.60	65.70	72.54	85.25
Business & Prof. Licences	..	18.75	22.43	24.20	25.63
Royalties	214.26	214.74	243.34	332.24	407.40
Tax on payroll/PIT	73.78	100.46	113.52	84.61	113.35
Other Tax Revenue	..	18.44	11.50	18.81	24.56
Indirect tax	1,049.40	1,212.25	781.88	1,368.74	1,704.59
Bhutan Sales Tax	393.50	435.02	495.49	567.90	662.79
Export Tax	12.29	0.76	0.49	0.87	0.34
Excise Duty	444.90	657.83	129.28	565.62	879.54
Import duty	94.52	115.16	153.98	230.77	157.18
Other Indirect Tax	17.15	3.48	2.64	3.58	4.75
Non tax revenue	2,424.47	1,856.96	2,365.30	2,683.73	2,778.23
Fees,Dividends,Profits	2,389.81	1,831.95	2,291.76	2,451.12	2,610.40
Administrative Fees & Charges	90.30	162.75	149.06	187.57	197.13
Dividends	1,426.83	1,288.09	1,753.09	1,550.52	1,542.43
Revenue from Govt. Departments	499.98	34.14	40.63	78.69	102.06
Transfer of Profits	363.75	317.19	198.41	384.48	503.27
Other Non-Tax revenue	8.95	29.78	150.58	249.86	265.51
Capital Revenue	34.66	25.01	73.54	232.61	167.83
Total revenue	5,100.03	4,785.26	5,055.20	6,066.10	6,902.91

Source : Department of Budget & Accounts, MoF, Thimphu.

TABLE 12.4: SUMMARY OF BUDGETARY OPERATIONS, BHUTAN, 2000/01 TO 2005/06

(Nu.in Million)

Item	2000/01 (actual)	2001/02 (actual)	2002/2003 (actual)	2003/04 (actual)	2004/05 (actual)	2005/06 (actual)
Revenue and Grants	8,382.5	8,848.5	7,054.4	10,422.6	10,439.2	13,327.496
Revenue	4,671.5	5,100.0	4,785.3	5,055.2	6,066.1	6,902.91
Tax revenue	2,192.2	2,675.6	2,928.3	2,689.9	3,382.4	4,124.68
Non-tax revenue	2,754.6	2,376.1	1,856.9	2,365.3	2,683.7	2,778.23
Other*	275.3	48.3	..	..	..	..
Grants	3,711.0	3,748.5	2,269.1	5,367.4	4,373.1	6424.59
India	2,551.2	2,531.8	..	3,534.7	2,625.0	3417.22
Other	1,159.8	1,216.7	..	1,832.7	1,748.1	3007.37
Other Receipts(+)/Payments(-)	..	(21.8)	(13.9)	22.4	61.9	124.53
Total Expenditure	10,716.5	9,922.3	10,079.1	10,534.1	13,360.8	14,072.00
Current	4,435.6	4,467.9	4,580.9	5,149.2	6,170.6	6,672.38
Capital	6,280.9	5,312.6	5,309.6	4,653.1	6,615.3	6,684.43
Lending	-50.9	..	99.4	662.5	379.1	590.20
Net Advance	..	141.8	89.2	69.3	195.8	124.99
Lending Minus Recoveries	..	129.8	-48.4	(6.5)	(88.1)	289.09
Repayment	..	..	221.3	467.1	397.9	2651.45
Overall surplus/deficit	-2,490.7	-1,225.4	(2,890.90)	579.80	(2,392.6)	-318.7

Note:

For the year 2001/02, other* includes Interest on Loans.

Source : Department of Budget & Accounts, MoF, Thimphu.

CHAPTER 13
PLAN OUTLAYS

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, the Department of Planning) 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.

Until 1981 to 1982 the responsibility for making plan allocations, rising internal resources, and negotiations, foreign assistance etc. lay with the Planning Commission. In 1981 to 1982, a large part of the financial responsibilities of the Commission was transferred to the responsibilities for formulation of development plans and allocations of investments resources.

A substantial infrastructure for development of the economy had been built up in the first four plans so that by the end of the fourth plan, the planning process had gained a good deal of comprehensiveness and sophistication. These two factors enabled the economy to develop the capacity of absorbing much higher volumes of investment resources for development in the later five-year plans.

The Eighth Five Year Plan (1997 to 2002) laid emphasis towards attaining the objective of economic self-reliance, higher growth and greater distributional equity, the preservation and promotion of traditional values and ideals, and promotion of privatization. The Ninth Five Year Plan began in July 2002 will pursue maximization of Gross National Happiness as Development Goal and an Objective. Recognizing the wide ranges of factors that contribute to human well-being and happiness, four major areas are being identified as the pillars of Gross National Happiness. These are economic growth and development, preservation and promotion of cultural heritage, preservation and sustainable use of the environment, and good governance.

TABLE 13.1: NINTH PLAN BUDGETARY OUTLAY AND ALLOCATION, BHUTAN, 2002/2007

(Nu. in Million)

Organization	Recurrent	Capital	Total	Percent
Autonomous Agencies	4,649.25	4,972.52	9,621.77	13.7
His Majesty's Secretariat	77.17	3.95	81.12	0.1
National Assembly Secretariat	83.06	6.72	89.78	0.1
Royal Advisory Council	52.18	1.30	53.48	0.1
Cabinet Secretariat	16.28	1.30	17.58	0.0
Royal Civil Service Commission	64.08	3,000.00	3,064.08	4.4
Judiciary	193.97	215.83	409.81	0.7
Royal Audit Authority	190.58	24.50	215.08	0.3
Bhutan Broadcasting Service	0.00	348.00	348.00	0.5
Bhutan Olympic Committee	166.48	43.72	210.20	0.3
Centre for Bhutan Studies	5.37	15.24	20.61	0.0
Council for Ecclesiasstical Affairs	719.93	77.66	797.58	1.1
Dzongkha Development Commision	48.46	10.00	58.46	0.1
National commission for Cultural Affairs	193.97	77.66	797.58	0.6
National Environment Commission	29.24	31.73	60.97	0.1
National Technical Traning Authority	335.93	500.00	835.93	1.2
Office of the Legal Affairs	17.71	17.60	35.30	0.1
Planning Commission Secretariat	63.96	45.00	108.96	0.2
Police, Jail & Fire Services	2,064.35	355.01	2,419.36	3.5
Royal Institute of Management	156.35	149.00	305.35	0.4
Ministry of Agriculture	2,548.36	2,000.00	4,548.36	6.5
Secretariat	435.06		435.06	0.6
RNR	2,113.30	2,000.00	4,113.30	5.9
Ministry of Communication	1,710.62	8,672.52	10,383.13	14.8
Secretariat	111.27	38.11	149.38	0.2
Department of Urban Development & Hous	187.38	2,400.00	2,587.38	3.7
Department of Roads	1,136.17	5,524.09	6,660.26	9.5
Department of Civil Aviation	127.21	403.92	531.13	0.8
Standard and Quality Control Division	21.49	45.10	66.59	0.1
Road Safety and Transport Authority	89.67	162.11	251.78	0.4
Bhutan Telecom Authority	17.65	21.05	38.70	0.1
Division of Information Technology	19.80	60.00	79.80	0.1
Construction Development Board		18.13	18.13	0.0

Contd..

TABLE 13.1(contd.): NINTH PLAN BUDGETARY OUTLAY AND ALLOCATION, BHUTAN, 2002/2007

(Nu. in Million)

Organization	Recurrent	Capital	Total	Percent
Ministry of Finance	1,257.25	354.87	1,612.12	2.3
Secretariat	675.89	27.50	703.39	1.0
Department of Budget and Accounts	44.26	17.80	62.06	1.0
Department of National Properties	150.99	25.33	176.32	0.3
Department of Revenue and customs	357.35	257.54	614.88	0.9
Department of Aid and Debt Management	28.76	26.70	55.46	0.1
Department of Aid and Debt Management	28.76	26.70	55.46	0.1
Ministry of Foreign Affairs	1,278.69	176.21	1,454.90	2.1
Ministry of Health and Education	4,581.09	2,893.41	7,474.50	10.7
Secretariat	129.08	0.00	129.08	0.2
Department of Health	2,802.43	1,703.41	4,505.84	6.4
Department of Education	1,598.49	998.48	2,596.96	3.7
Department of Employment & Labour	51.11	191.52	242.63	0.4
Ministry of Home Affairs	486.38	130.57	616.85	0.9
Secretariat	230.47	30.66	261.13	0.4
Department of Survey and Land Records	183.65	22.85	206.49	0.3
Deparment of Registration	72.27	77.06	149.33	0.2
Ministry of Trade and Industry	2,210.43	6,351.08	8,561.52	12.2
Secretariat	112.07	371.32	483.39	0.7
Department of Trade	73.13	384.25	457.38	0.7
Department of Industry	110.28	900.00	1,010.28	1.4
Department of Power	1,717.95	4,500.00	6,217.95	8.9
Department of Geology & Mines	138.85	70.00	208.85	0.3
Department of Tourism	58.16	125.51	183.67	0.3
Others	5,156.92	3,449.05	8,605.97	12.3
Debt Servicing	393.24	3,449.05	3,842.29	5.5
Common Public Expenditure	2,009.80	0.00	2,009.80	2.9
Contingency for Renumeration	2,753.88	0.00	2,753.88	3.9
Total(Central, Autonomous and Others)	23.879.003	29,000.21	52,879.22	75.5
Dzongkhags	7,655.28	7,224.73	14,880.02	21.3
Gewogs	147.18	2,093.59	2,240.77	3.2
Total(Dzongkhags and Gewogs)	7,802.46	9,318.32	17,120.79	24.5
Total outlay	31,681.47	38,318.53	70,000.00	100.0

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

TABLE 13.2: OUTLAYS OF DEVELOPMENT PLANS, PERCENTAGE BY CATEGORY, FIFTH PLAN TO NINTH PLAN

(Nu. In Million)

Organization	Fifth Plan	Sixth Plan	Seventh Plan	Eighth Plan	Ninth Plan
Autonomous Agencies	..	..	..	..	13.7
His Majesty's Secretariat	n.a	n.a	n.a	0.1	0.1
National Assembly	n.a	n.a	n.a	0.1	0.1
Royal Advisory Council	n.a	n.a	n.a	0.1	0.9
Cabinet Secretariat	n.a	n.a	n.a	n.a	13.7
Royal Civil Service Commission	n.a	n.a	n.a	5.1	4.4
Judiciary	n.a	n.a	n.a	0.7	0.7
Royal Audit Authority	n.a	n.a	n.a	0.3	0.3
Bhutan Broadcasting Service	n.a	n.a	n.a	n.a	0.5
Bhutan Olympic Committee	n.a	n.a	n.a	0.2	0.3
Centre for Bhutan Studies	n.a	n.a	n.a	n.a	0.0
Council for Ecclesiastical Affairs	n.a	n.a	n.a	1.0	1.1
Dzongkha Development Commission	n.a	n.a	n.a	0.1	0.1
National Commission for Cultural Affairs	n.a	n.a	n.a	0.8	0.6
National Environment Commission	n.a	n.a	n.a	0.3	0.1
National Technical Training Authority	n.a	n.a	n.a	n.a	1.2
Office of Legal Affairs	n.a	n.a	n.a	n.a	0.1
Planning Commission Secretariat	n.a	n.a	n.a	n.a	0.2
Police, Jail & Fire Services	n.a	n.a	n.a	n.a	3.5
Royal Instt. of Management	n.a	n.a	n.a	0.5	0.4
Ministry of Agriculture	9.0	9.2	4.5	3.06	6.5
Secretariat	..	..	..	..	0.6
Animal Husbandry	3.5	3.5	2.1	1.78	..
Area Dvelopment	n.a	n.a	n.a	4.07	..
Forestry	4.9	4.4	3.1	3.1	..
Renewal Natural Resources	..	..	..	..	5.9
Ministry of Communication					14.8
Secretariat	n.a	n.a	n.a	0.2	0.2
Civil Aviation	0.6	0.5	0.6	0.2	0.8
Construction Development Board	..	..	..	..	0.4
Division of Information Technology	..	..	..	..	0.1
Post Services	1.4	0.7	1.1	0.4	..
Road Services	16.9	9.3	7.8	13.1	9.5
Standard Quality and Control Division	..	..	..	..	0.1

Contd..

TABLE 13.2(contd.): OUTLAYS OF DEVELOPMENT PLANS, PERCENTAGE BY CATEGORY, FIFTH PLAN TO NINTH PLAN

(Nu. in Million)

Organization	Fifth plan	Sixth Plan	Seventh Plan	Eighth Plan	Ninth Plan
Surface Transport	n.a	n.a	n.a	0.2	0.4
Telecommunications	0.7	1.4	7.0	4.1	0.1
Thimphu City Corporation	n.a	n.a	n.a	0.5	..
Work & Housing Services	n.a	n.a	n.a	3.1	3.7
Ministry of Finance	..	..	..	..	2.3
Secretariat	n.a	n.a	n.a	2.85	1.0
Deaprt of Budget and Accounts	n.a	n.a	n.a	n.a	0.1
Department of National Properties	n.a	n.a	n.a	2.85	0.3
Depart of Revenue and customs	n.a	n.a	n.a	2.85	0.9
Department of Aid and Debt management	n.a	n.a	n.a	2.9	0.1
Ministry of Foreign Affairs	n.a	n.a	n.a	2.5	2.1
Ministry of Health & Education	n.a	n.a	n.a	n.a	10.7
Secretariat	n.a	n.a	n.a	0.2	0.2
Department of Employment and Labour	n.a	n.a	n.a	n.a	0.4
Education	11.2	8.1	11.1	9.9	3.7
Health	5.1	4.2	6.6	8.5	6.4
Ministry of Home Affairs					0.9
Secretariat	..	..	..	1.0	0.4
Department of Registration	..	..	..	0.1	0.2
Department of Survey & Land Records	..	..	..	0.4	0.3
Ministry of Trade & Industry					12.2
Secretariat				0.1	0.7
Geological Survey	..	0.4	1.0	0.3	0.3
Power	7.3	13.1	2.5	11.3	8.9
Tourism	0.6	..	..	0.1	0.3
Trade and Industry	7.0	13.3	5.4	0.6	2.1
Debt Servicings	n.a	n.a	n.a	7.2	5.5
Common Public Expenditure	n.a	n.a	n.a	2.1	2.9
Reserve for pay Revision	n.a	n.a	n.a	7.5	..
General Government	24.0	20.6	39.7	n.a	n.a
Dzongkhags	..	2.5	23.0	2.3	21.3
Gewogs	..	2.5	23.0	2.3	3.2
Other	..	..	..	n.a	3.9
Total outlay	100.0	91.2	100.0	103.1	100.0

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

TABLE 13.3: FINANCIAL OUTLAYS DURING NINTH PLAN BY SECTOR, 2002 TO 2007

(Nu. in Million)

Organization	Recurrent	Capital	Total	Percent
Autonomous Agencies	4,649.25	4,972.52	9,621.77	13.70
His Majesty's Secretariat	77.17	3.95	81.12	0.10
National Assembly Secretariat	83.06	6.72	89.78	0.10
Royal Advisory Council	52.18	1.30	53.48	0.10
Cabinet Secretariat	16.23	1.30	17.58	..
Royal Civil Service Commisssion	64.08	3,000.00	3,064.08	4.40
Judiciary	364.16	125.97	490.13	0.70
Royal Audit Authority	190.58	24.50	215.08	0.30
Bhutan Broadcasting Service	..	348.00	348.00	0.50
Bhutan Olympic Committee	166.48	43.72	210.20	0.30
Centre of Bhutan Studies	5.37	15.24	20.61	..
Council of Ecclesiasticl Affairs	719.93	77.66	797.58	1.10
Dzonkhag Development Commission	48.46	10.00	58.46	0.10
National Envirnment Commission	29.24	31.73	60.97	0.10
National Technical Training Authority	335.93	500.00	835.93	1.20
Office of the Legal Affairs	17.71	17.60	35.30	0.10
Planning Commission Secretariat	63.96	45.00	108.96	0.20
Police, Jail & Fire Service	2,064.35	355.01	2,419.36	3.50
Royal Institute of Management	156.35	149.00	305.35	0.40
Special Commission for Cultural Affairs	193.97	215.83	409.81	0.60
Ministry of Agriculture	2,548.36	2,000.00	4,548.36	6.50
Secretariat	435.06	..	4,113.30	0.60
Renewal Natural Resources	2,113.30	2,000.00	4,113.30	5.90
Ministry of Communication	1,710.62	8,672.52	10,383.13	14.80
Secretariat	111.27	38.11	149.38	0.20
Deaprtment of Urban Development	187.38	2,400.00	2,587.38	3.70
Department of Roads	1,136.17	5,524.09	6,660.26	9.50
Department of Civil Aviation	127.21	403.92	531.13	0.80
Standard Quality & Control Division	21.49	45.10	66.59	0.10
Road Safety & Transport Authority	89.67	162.11	251.78	0.40
Bhutan Telecom Authority	17.65	21.05	38.70	0.10
Division of InformationTechnology	19.80	60.00	79.80	0.10
Construction Development Board	..	18.13	18.13	..

Contd…

TABLE 13.3(contd.): FINANCIAL OUTLAYS DURING NINTH PLAN BY SECTOR, 2002 TO 2007

(Nu.in Million)

Organization	Recurrent	Capital	Total	Percent
Ministry of Finance	1,257.25	354.87	1,612.12	2.30
Secretariat	675.89	27.50	703.39	1.00
Department of Budget and Accounts	44.26	17.80	62.06	0.10
Department of National Properties	150.99	25.33	176.32	0.30
Department of revenue and customs	357.35	257.54	614.88	0.90
Department of Aid and Debt management	28.76	26.70	55.46	0.10
Ministry of Foreign Affairs	1,278.69	176.21	1,454.90	2.10
Ministry of Health & Education	4,581.09	2,893.41	7,474.50	10.70
Secretariat	129.08	0.00	129.08	0.20
Department of Health	2,802.43	1,703.41	4,505.84	6.40
Department of Education	1,598.49	998.48	2,596.96	3.70
Department of Employment and Labour	51.11	191.52	242.63	0.30
Ministry of Home affairs	486.38	130.57	616.95	0.90
Secretariat	230.47	30.66	261.13	0.40
Department of Survey and Land records	183.65	22.85	206.94	0.30
Department of Registration	72.27	77.06	149.33	0.20
Ministry of Trade & Industry	2,210.43	6,351.08	8,561.52	12.20
Secretariat	112.07	371.32	483.39	0.70
Department of Trade	73.13	384.25	457.38	0.70
Department of Industry	110.28	900.00	1,010.28	1.40
Department of Power	1,717.95	4,500.00	6,217.95	8.90
Department of Geology and Mines	138.85	70.00	208.85	0.30
Department of Tourism	58.16	125.51	183.67	0.30
Others	5,156.92	3,449.05	8,605.97	12.30
Debt Servicing	393.24	3,449.05	3,842.29	5.50
Common Public Expenditure	2,009.80	0.00	2,009.80	2.90
Contingency for Renumeration	2,753.88	0.00	2,753.88	3.90
Total (Central,Autonomous and Others)	23,879.00	29,000.21	52,879.22	75.50
Dzongkhags	7,655.28	7,224.73	14,880.02	21.30
Gewogs	147.18	2,093.59	2,240.77	3.20
Total (Dzongkhags and Gewogs)	7,802.46	9,318.32	17,120.79	24.50
Total Plan Outlay	31,681.47	38,318.53	70,000.00	100.00

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

TABLE 13.4: DZONGKHAG WISE EIGHTH FIVE YEAR PLAN OUTLAY, BHUTAN, 1997 TO 2002

(Nu.in Million)

Dzongkhags	Current	Capital	Total
Bumthang	251.1	495.2	746.3
Chhukha	391.3	2,148.7	2,540.0
Dagana	115.9	200.6	316.5
Gasa	57.0	169.3	226.3
Ha	99.3	157.1	256.4
Lhuentse	167.0	399.0	566.0
Monggar	369.3	884.1	1,253.4
Paro	306.8	336.5	643.3
Pemagatshel	154.5	275.8	430.3
Punakha	219.7	225.7	445.4
Samdrup Jongkhar	428.8	616.3	1,045.1
Samtse	293.6	274.8	568.4
Sarpang	278.2	381.2	659.4
Thimphu	995.5	1,787.8	2,783.3
Trashi Yangtse	161.6	234.9	396.5
Trashigang	579.6	759.5	1,339.1
Trongsa	141.1	387.2	528.3
Tsirang	130.4	338.5	468.9
Wangdue Phodrang	283.4	529.2	812.6
Zhemgang	232.4	538.0	770.3
Total	5,656.5	11,139.4	16,795.8

Note:

Budget allocation for central programmes have been included under current expenditure in case of Agriculture and Livestock sector.

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

TABLE 13.5: DZONGKHAG WISE NINTH FIVE YEAR PLAN OUTLAY, 2002 TO 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: Planning Commission,, Thimphu.

CHAPTER 14
NATIONAL ACCOUNTS

Human activities can be classified broadly into economic activities and non-economic activities. Economic activities are those, which are devoted to making use of the scarce resources (including time and labor) in the production and distribution of economic goods i.e. goods and services (needed to satisfy human wants), which are scarce in relation to demand and are transferable. Economic goods command a price on the market for their being scarce and transferable.

The end result of all the economic activities that has taken place in an economy during an accounting period is reflected in gross domestic product (GDP). GDP represents the money value of all the goods and services that have been produced within the territorial limits of the country and are available for final uses like consumption, gross capital formation and net exports.

GDP can be measured both at current and constant prices. When expressed at current prices it reflects the money value of the goods and services produced in an accounting year measured in the prices of that year. On the other hand GDP expressed at constant prices reflects the money value of such goods and services for all the years measured in one year's (base year) prices. In this case the base year prices are kept constant for evaluation purposes for all the year under review, for measuring the performance of the economy with regard to the production of the goods and services in real terms over a period constant price estimates of GDP have to be taken into account. Current price estimate of GDP give a view of the levels of production performances of the economy for all the years under review at changing current prices.

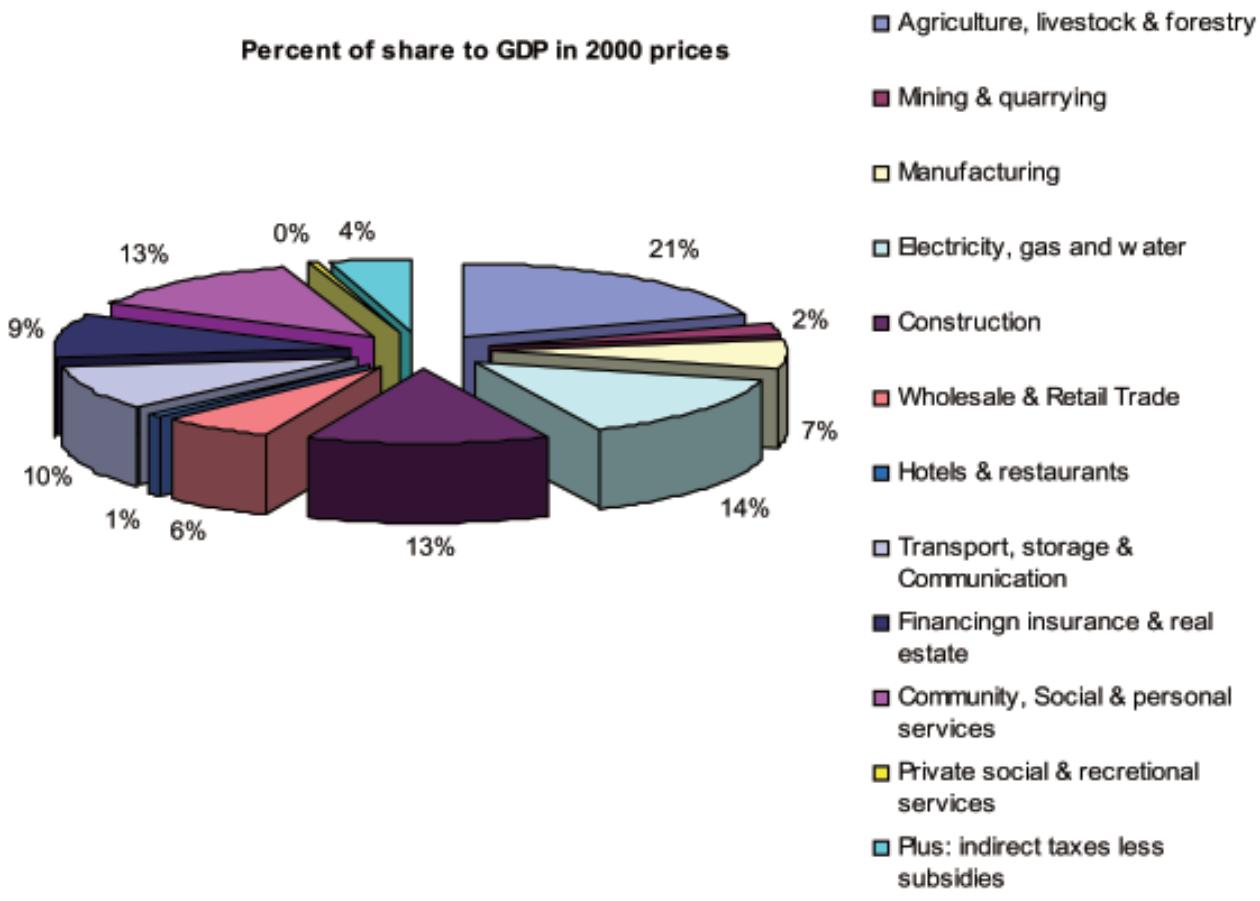

TABLE 14.1: GROSS DOMESTIC PRODUCT BY KIND OF ACTIVITY AT CURRENT PRICES, 2001 TO 2006

(Million Nu.)

Sectors	2001	2002	2003	2004	2005	2006
Agriculture Livestock & forestry	6,037.0	6,884.1	7,292.3	7,864.0	8,255.5	8,858.9
Agriculture proper	2,681.9	3,000.4	3,191.7	3,480.7	3,684.9	3,927.9
Livestock	1,930.0	2,007.0	2,163.0	2,331.2	2,556.7	2,730.4
Forestry & logging	1,425.1	1,876.7	1,937.6	2,052.1	2,013.9	2,200.6
Mining and quarrying	421.6	457.1	580.5	439.5	549.8	960.3
Manufacturing	1,855.1	1,945.1	2,127.3	2,360.7	2,560.0	2,924.3
Electricity and water	2,279.2	2,657.7	3,352.0	3,085.3	3,660.9	5,126.6
Construction	3,818.4	4,711.2	5,021.5	5,741.1	6,219.2	6,019.7
Wholesale & Retail Trade	1,045.2	1,282.9	1,446.6	1,725.7	2,088.9	2,374.2
Hotels & Restaurants	113.2	119.7	135.3	168.7	211.7	301.0
Transport, storage & Communication	2,083.0	2,452.0	2,626.0	3,295.1	3,890.5	4,496.2
Financing, insurance & real estate	1,553.6	1,581.0	1,948.5	2,280.0	2,872.7	3,400.1
Finance and Insurance	908.3	864.7	1,026.6	1,278.7	1,764.2	2,221.9
Real Estate & dwellings	645.3	716.3	921.9	1,001.3	1,108.5	1,178.2
Community, Social services	3,037.3	3,341.9	3,663.6	3,822.8	4,471.7	4,988.6
Public administration	2,262.4	2,556.1	2,778.0	2,866.8	3,462.7	3,751.7
Education and Health	774.9	785.8	885.6	956.0	1,009.0	1,236.9
Private social, personal & recreational Services	100.7	111.4	123.8	144.1	172.2	212.6
Plus: taxes net of subsidies	550.7	878.1	1,067.9	1,392.6	1,628.0	1,781.0
Gross domestic product	22,895.0	26,422.2	29,385.3	32,319.6	36,581.1	41,443.5

Source: National Statistics Bureau

TABLE 14.2: GROSS DOMESTIC PRODUCT BY KIND OF ACTIVITY IN 2000 PRICES, 2001 TO 2006

(Million Nu.)

Sectors	2001	2002	2003	2004	2005	2006
Agriculture, livestock & forestry	5,849.2	6,009.3	6,138.4	6,250.1	6,273.8	6,378.3
Crops	2,616.9	2,689.4	2,765.6	2,808.2	2,860.9	2,900.0
Livestock	1,887.7	1,919.1	1,926.5	1,933.1	1,976.4	1,994.2
Forestry & logging	1,344.6	1,400.8	1,446.3	1,508.8	1,436.5	1,484.1
Mining & quarrying	370.4	406.8	402.2	381.2	446.6	728.0
Manufacturing	1,655.9	1,732.8	1,844.1	1,943.8	2,008.2	2,067.6
Electricity & water	2,184.6	2,560.7	3,030.3	2,980.2	3,284.1	4,442.2
Construction	3,460.9	4,328.7	4,448.7	4,819.8	4,701.2	4,247.5
Wholesale & Retail trade	1,028.7	1,233.8	1,378.0	1,633.1	1,878.1	1,948.2
Hotel & restaurants	111.5	115.1	128.8	157.0	186.0	246.1
Transport, storage & Communication	1,843.7	2,000.3	2,007.4	2,447.9	2,660.6	3,148.8
Financing, insurance & real estate	1,492.8	1,449.7	1,770.7	1,990.8	2,507.5	2,933.1
Finance	895.6	900.8	1,079.9	1,291.4	1,799.8	2,213.4
Real estate	597.2	548.9	690.8	699.4	707.7	719.7
Community, social & personal services	2,847.4	3,050.7	3,287.8	3,307.9	3,743.3	3,982.7
Public administration	2,187.7	2,412.1	2,567.8	2,533.6	2,905.5	2,994.4
Education and health	659.7	638.6	720.0	774.3	837.8	988.3
Private Social & recreational services	98.6	103.3	114.2	126.8	144.3	146.2
Plus: Indirect taxes less subsidies	532.5	828.6	987.1	1,230.7	1,367.0	1,404.0
Gross Domestic Product	21,476.2	23,819.8	25,537.7	27,269.3	29,200.7	31,672.7

Source: National Statistics Bureau

TABLE 14.3: SHARE OF GROSS DOMESTIC PRODUCT IN CURRENT PRICES, 2001 TO 2006

(Percent)

Sectors	2001	2002	2003	2004	2005	2006
Agriculture, livestock & forestry	26.4	26.1	24.8	24.3	22.6	21.4
Agriculture proper	11.7	11.4	10.9	10.8	10.1	9.5
Livestock	8.4	7.6	7.4	7.2	7.0	6.6
Forestry & logging	6.2	7.1	6.6	6.3	5.5	5.3
Mining & quarrying	1.8	1.7	2.0	1.4	1.5	2.3
Manufacturing	8.1	7.4	7.2	7.3	7.0	7.1
Electricity and water	10.0	10.1	11.4	9.5	10.0	12.4
Construction	16.7	17.8	17.1	17.8	17.0	14.5
Wholesale & Retail Trade	4.6	4.9	4.9	5.3	5.7	5.7
Hotels & restaurants	0.5	0.5	0.5	0.5	0.6	0.7
Transport, storage & Communication	9.1	9.3	8.9	10.2	10.6	10.8
Financingn insurance & real estate	6.8	6.0	6.6	7.1	7.9	8.2
Finance & Insurance	4.0	3.3	3.5	4.0	4.8	5.4
Real estate & dewllings	2.8	2.7	3.1	3.1	3.0	2.8
Community, Social services	13.3	12.6	12.5	11.8	12.2	12.1
Public administration	9.9	9.7	9.5	8.9	9.5	9.1
Education & health	3.4	3.0	3.0	3.0	2.8	3.0
Private social, personal & recreational services	0.4	0.4	0.4	0.4	0.5	0.5
Plus: taxes net of subsidies	2.4	3.3	3.6	4.3	4.5	4.3
Gross Domestic Product	100.0	100.0	100.0	100.0	100.0	100.0

Source: National Statistics Bureau

TABLE 14.4: GROSS DOMESTIC PRODUCT GROWTH RATES OVER THE PRECEEDING YEARS IN CURRENT PRICES, 2001 TO 2006

(Percent)

Sectors	2001	2002	2003	2004	2005	2006
Agriculture, livestock & forestry	8.4	14.0	5.9	7.8	5.0	7.3
Agriculture proper	6.6	11.9	6.4	9.1	5.9	6.6
Livestock production	10.4	4.0	7.8	7.8	9.7	6.8
Forestry & logging	9.2	31.7	3.2	5.9	-1.9	9.3
Mining & quarrying	33.9	8.4	27.0	-24.3	25.1	74.7
Manufacturing	14.0	4.9	9.4	11.0	8.4	14.2
Electricity and water	1.1	16.6	26.1	-8.0	18.7	40.0
Construction	38.3	23.4	6.6	14.3	8.3	-3.2
Wholesale & Retail Trade	18.5	22.7	12.8	19.3	21.0	13.7
Hotels & restaurants	28.5	5.7	13.1	24.6	25.5	42.2
Transport, storage & Communication	15.7	17.7	7.1	25.5	18.1	15.6
Financingn insurance & real estate	9.9	1.8	23.2	17.0	26.0	18.4
Finance and Insurance	16.2	-4.8	18.7	24.6	38.0	25.9
Real estate & dwellings	2.3	11.0	28.7	8.6	10.7	6.3
Community, Social services	7.9	10.0	9.6	4.3	17.0	11.6
Public administration	10.4	13.0	8.7	3.2	20.8	8.3
Education & health	1.4	1.4	12.7	8.0	5.5	22.6
Private social, personal & recreational services	4.7	10.6	11.1	16.5	19.5	23.5
Plus: indirect taxes, net subsidies	12.1	59.5	21.6	30.4	16.9	9.4
Gross Domestic Product	13.8	15.4	11.2	10.0	13.2	13.3

Source: National Statistical Bureau

TABLE 14.5: GROSS DOMESTIC PRODUCT GROWTH RATES OVER THE PRECEEDING YEARS IN 2000 PRICES, 2001 TO 2006

(Percent)

Sectors	2001	2002	2003	2004	2005	2006
Agriculture, livestock & forestry	5.0	2.7	2.1	2.1	0.1	1.7
Crops	4.0	2.8	2.8	2.1	1.3	1.4
Livestock	8.0	1.7	0.4	0.3	2.2	0.9
Forestry & logging	3.0	4.2	3.2	4.3	-4.8	3.3
Mining & quarrying	17.6	9.8	-1.1	-5.2	17.1	63.0
Manufacturing	1.8	4.6	6.4	5.4	3.3	3.0
Electricity and water	-3.1	17.2	18.3	-1.7	10.2	35.3
Construction	25.3	25.1	2.8	8.3	-2.5	-9.7
Wholesale & Retail Trade	16.6	19.9	11.7	18.5	15.0	3.7
Hotels & restaurants	26.5	3.2	11.8	21.9	18.5	32.3
Transport, storage & Communication	2.4	8.5	0.4	21.9	8.7	18.3
Financingn insurance & real estate	5.6	-2.9	22.1	12.4	26.0	17.0
Finance	14.5	0.6	19.9	19.6	39.4	23.0
Real estate	-5.4	-8.1	25.9	1.2	1.2	1.7
Community, Social & personal services	1.2	7.1	7.8	0.6	13.2	6.4
Public administration	6.7	10.3	6.5	-1.3	14.7	3.1
Education & health	-13.7	-3.2	12.7	7.5	8.2	18.0
Private social & recreational services	2.5	4.7	10.6	11.1	13.7	1.3
Plus: indirect taxes less subsidies	8.4	55.6	19.1	24.7	11.1	2.7
Gross Domestic Product	6.8	10.9	7.2	6.8	7.0	8.5

Source: National Statistics Bureau

TABLE 14.6: GROSS DOMESTIC PRODUCT BY MAJOR SECTORS IN CURRENT PRICES, 2001 TO 2006

(Million Nu.)

Sector	2001	2002	2003	2004	2005	2006
Primary	6458.5	7341.3	7873.0	8303.7	8805.3	9,819.2
Secondary	7952.6	9314.1	10500.8	11187.2	12440.1	14,070.6
Tertiary	8483.7	9767.0	11011.7	12829.1	15335.7	17,553.6
Gross Domestic Product	22,894.8	26,422.3	29,385.5	32,320.0	36,581.2	41,443.3

Source: National Statistics Bureau

TABLE 14.7: GROSS DOMESTIC PRODUCT BY MAJOR SECTORS IN 2000 PRICES, 2001 TO 2006

(Million Nu.)

Sector	2001	2002	2003	2004	2005	2006
Primary	6219.6	6416.0	6540.8	6647.3	6720.4	7,106.4
Secondary	7301.4	8622.2	9323.1	9743.7	9993.5	10,757.3
Tertiary	7955.4	8781.6	9674.0	10894.3	12486.9	13,809.1
Gross Domestic Product	21,476.4	23,819.8	25,537.9	27,285.3	29,200.8	31,672.8

Source: National Statistics Bureau

TABLE 14.8: SECTORAL SHARE TO GROSS DOMESTIC PRODUCT IN CURRENT PRICES, 2001 TO 2006

(Percent)

Sector	2001	2002	2003	2004	2005	2006
Primary	28.2	27.8	26.8	25.7	24.1	23.7
Secondary	34.7	35.3	35.7	34.6	34.0	34.0
Tertiary	37.1	37.0	37.5	39.7	41.9	42.4
Gross Domestic Product	100.0	100.0	100.0	100.0	100.0	100.0

Source: National Statistics Bureau

TABLE 14.9: GROSS DOMESTIC CAPITAL FORMATION IN CURRENT AND CONSTANT 2OOO PRICES, 2001 TO 2006

(Million Nu.)

In current prices	2001	2002	2003	2004	2005	2006
Machinary and Equipment	3,642.3	3,671.6	3,679.2	5,554.7	5,079.6	5,471.5
Govt.	1,034.7	1,367.9	654.6	813.3	610.7	1,084.0
Private	2,607.6	2,303.7	3,024.5	4,741.5	4,468.9	4,387.5
Construction	9,724.1	12,133.3	13,227.0	14,523.5	13,494.8	13,248.6
Govt.	2,529.7	2,727.8	1,993.3	2,422.7	3,059.0	4,109.0
Private	7,194.4	9,405.5	11,233.7	12,100.8	10,435.7	9,139.6
Gross fixed capital formation	13,366.4	15,804.9	16,906.2	20,078.2	18,574.4	18,720.1
Change in stock	192.8	-166.6	-223.7	-77.8	103.0	107.2
Gross Domestic capital formation	13,559.1	15,638.3	16,682.4	20,000.4	18,677.4	18,827.3
In constant 2000 prices						
Machinary and Equipment	3,568.9	3,529.3	3,503.0	5,037.0	4,333.0	4,441.8
Govt.	1,014.4	1,315.3	623.5	737.6	522.6	883.4
Private	2,554.4	2,213.9	2,879.5	4,299.3	3,810.4	3,558.4
Construction	8,623.3	10,712.9	10,661.3	11,272.3	9,564.9	9,244.2
Govt.	2,243.3	2,408.4	1,606.7	1,880.4	2,168.2	2,867.1
Private	6,380.0	8,304.5	9,054.7	9,391.9	7,396.7	6,377.1
Gross fixed capital formation	12,192.2	14,242.2	14,164.3	16,309.3	13,897.9	13,686.0
Change in stock	186.3	-157.7	-207.7	-65.1	89.6	88.4
Gross Domestic capital formation	12,378.4	14,084.5	13,956.6	16,244.2	13,987.5	13,774.4

Source: National Statistics Bureau

TABLE 14.10: EXPENDITURES ON GROSS DOMESTIC PRODUCT IN CURRENT PRICES, 2001 TO 2006

(Million Nu.)

Expenditures	2001	2002	2003	2004	2005	2006
Final consumption expenditure	15,122.4	16,805.5	18,914.4	20,456.4	22,497.7	24,291.6
Household and NPISH	10,281.3	11,415.1	12,994.9	13,806.7	14,586.2	15,553.7
General Government	4,841.1	5,390.4	5,919.5	6,649.7	7,911.5	8,737.9
Gross domestic capital formation	13,559.1	15,638.3	16,682.4	20,000.4	18,677.4	18,827.3
Construction	9,724.1	12,133.3	13,227.0	14,523.5	13,494.8	13,248.6
Machinery and equipment	3,642.3	3,671.6	3,679.2	5,554.7	5,079.6	5,471.5
Change in inventory	192.8	-166.6	-223.7	-77.8	103.0	107.2
Net export of goods & services	-4116.2	-5147.9	-5206.9	-8353.8	-8556.0	-3347.7
Export of goods & services	6,505.6	6,505.6	7,589.3	10,053.2	14,105.7	21,206.9
Imports of goods & services	10621.9	-11653.6	-12796.2	-18407.0	-22661.7	-24554.6
Total Expenditure on GDP	24,565.3	27,295.8	30,389.9	32,103.0	32,619.0	39,771.2

Source: National Statistics Bureau

TABLE 14.11: EXPENDITURES ON GROSS DOMESTIC PRODUCT AT CONSTANT 2000 PRICES, 2001 TO 2006

(Million Nu.)

Expenditure	2001	2002	2003	2004	2005	2006
Final consumption expenditure	14662.1	15790.9	17323.4	17997.7	18917.1	19411.1
Household and NPISH	9980.6	10704.2	11851.7	12121.0	12278.5	12438.2
General Government	4681.5	5086.7	5471.7	5876.8	6638.6	6973.0
Gross domestic capital formation	12378.4	14084.5	13956.6	16244.2	13987.5	13774.4
Construction	8623.3	10712.9	10661.3	11272.3	9564.9	9244.2
Machinery and equipment	3568.9	3529.3	3503.0	5037.0	4333.0	4441.8
Change in inventory	186.3	-157.7	-207.7	-65.1	89.6	88.4
Net export of goods and services	-3980.5	-4857.9	-4813.0	-7382.8	-7184.2	-2639.1
Export of goods nad services	6291.1	6139.1	7015.1	8884.6	11844.0	16718.2
Imports of goods and services	10271.5	-10997.0	-11828.1	-16267.4	-19028.1	-19357.3
Total expenditure on GDP	23060.1	25017.5	26467.1	26859.1	25720.4	30546.4

Source: National Statistics Bureau

CHAPTER 15
PRICES

The only price statistics currently compiled in Bhutan relate to Consumer Price Indices, often referred to as the CPI. Since 1979, the CPI had been produced by the NSB twice a year till 2003. From 3rd quarter 2003, it has been producing quarterly. In addition, a food price index for Thimphu has been produced each quarter since September 1987.

The purpose of the CPI is to provide a general indicator of the rate of price change for consumer goods and services. The CPI is important monitoring overall price development and assessing changes in the living standard of the population.

The CPI is formed by measuring the change in the cost of purchasing a basket of consumer goods and services where items in the basket are weighted according to their relative importance in the total spending of consumers. The baskets include food items (i.e. rice, other cereals, vegetables, oils and fats, and spices) together with non-food items such as clothing, fuel, furniture and other personal items. Items such as cereals are weighted more heavily than consumer expenditure. A price change in cereals will therefore have greater effect on the CPI than a price change for furniture.

Bhutan's CPI had 1979 as base year. Undoubtedly, substantial changes had taken place since then – economically, socially and technologically. A number of new products had likewise emerged. These factors contributed to the change in households' tastes and preferences thereby causing the fixed market basket of goods and services to become outmoded. To capture such changes for a more meaningful price comparison, it was necessary to re - base the CPI. This entailed the revision of or updating the base year, the weights, the fixed market basket and the sample outlets.

The year 2003 is chosen as the new base year since it was the year when the Bhutan Living Standard Survey was conducted. The Household Income Expenditure Survey or Living Standard Survey is the usual source of weights and the basis for drawing up the market basket.

The CPI is presented as Index Numbers, where the indices are measured in relative to the base of 3rd quarter 2003 = 100.00; price change is estimated by measuring change in the Index numbers.

TABLE 15.1: CONSUMER PRICE INDEXES FOR FOOD AND NON-FOOD COMPONENT, JAN 2005 TO DEC 2006

3rd Qtr. 2003=100

Item	Weight	2005				2006			
	(%)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Index									
Food	31.67	108.02	107.37	108.69	109.40	110.32	114.63	115.03	115.12
Non-Food	68.33	110.03	110.11	111.03	112.10	113.97	116.61	116.80	118.07
Total	100	109.39	109.24	110.29	111.24	112.81	115.98	116.24	117.14
PERCENTAGE CHANGE YEAR ON YEAR									
Food	31.67	6.05	6.23	5.68	5.02	2.13	6.76	5.83	5.23
Non-Food	68.33	5.06	5.13	5.40	4.89	3.58	5.90	5.20	5.33
Total	100	5.37	5.46	5.49	4.93	3.13	6.17	5.39	5.30
PERCENTAGE CHANGE PERIOD TO PERIOD									
Food	31.67	3.70	-0.60	1.23	0.65	0.84	3.91	0.35	0.08
Non-Food	68.33	2.96	0.07	0.84	0.96	1.67	2.32	0.16	1.09
Total	100	3.19	-0.14	0.96	0.86	1.41	2.81	0.22	0.77
PURCHASING POWER OF NGULTRUM (PPN)									
	1.00	0.91	0.92	0.91	0.90	0.89	0.86	0.86	0.85

Source: National Statistics Bureau, Thimphu

TABLE 15.2: CONSUMER PRICE INDEXES FOR MAJOR COMPONENTS, BHUTAN JAN 2005 TO DEC 2006

3rd Qtr.2003=100

Item	Weight	2005				2006			
	(%)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Food and Non-Alcoholic Beverages	29.44	107.66	106.99	108.41	108.88	109.81	114.13	114.46	114.49
Alcoholic Beverages, Tobacco & Narcotics	2.23	112.78	112.38	112.43	116.27	116.97	121.18	122.48	123.46
Clothing And Footwear	10.49	106.05	109.29	110.3	112.52	113.03	116.93	117.09	118.47
Housing,water,electricity,gas & other fuels	25.68	117.38	117.35	117.68	117.91	120.76	123.09	123.60	124.32
Furnishing, household equipment & routine household maintenance	5.68	107.36	106.43	107.18	107.24	109.81	112.57	111.68	115.17
Health	2.94	106.74	106.03	106.40	106.40	108.9	109.59	110.18	113.44
Transport	7.06	108.78	111.87	115.62	117.31	118.43	120.97	121.16	121.14
Communication	4.10	98.78	89.76	87.59	87.59	89.81	93.33	92.68	96.48
Recreation and Culture	2.62	103.93	99.65	104.65	104.65	105.57	111.71	112.02	114.76
Education	4.04	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Restaurants and Hotels	3.01	107.12	108.85	111.13	115.17	116.00	116.29	116.98	117.84
Miscellaneous Goods & Services	2.72	109.41	109.62	109.91	117.01	119.08	123.77	123.82	123.52
Total	100.00	109.39	109.24	110.29	111.24	112.81	115.98	116.24	117.14

Source: National Statistics Bureau, Thimphu

TABLE 15.3: CONSUMER PRICE INDEXES - MAJOR COMPONENTS, BHUTAN JAN 2005TO DEC 2006

YEAR ON YEAR GROWTH RATE (%) 3rd Qtr. 2003=100

Item	Weight (%)	2005				2006			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Food and Non-Alcoholic Beverages	29.44	5.60	5.79	5.34	4.54	2.00	6.67	5.58	5.15
Alcoholic Beverages, Tobacco & Narcotics	2.23	12.09	12.13	10.20	11.33	3.72	7.83	8.94	6.18
Clothing And Footwear	10.49	1.44	5.61	4.82	4.52	6.58	6.99	6.16	5.29
Housing,water,electricity,gas & other fuels	25.68	9.30	9.23	9.68	9.42	2.88	4.89	5.03	5.44
Furnishing, household equipment & routine household maintenance	5.68	3.08	2.74	3.50	1.18	2.28	5.77	4.20	7.39
Health	2.94	4.34	5.76	4.90	0.03	2.02	3.36	3.55	6.62
Transport	7.06	1.50	4.87	4.41	6.97	8.87	8.13	4.79	3.26
Communication	4.10	-2.02	-10.33	-10.85	-12.41	-9.08	3.98	5.81	10.15
Recreation and Culture	2.62	4.38	-3.37	0.65	-0.53	1.58	12.10	7.04	9.66
Education	4.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Restaurants and Hotels	3.01	7.83	7.68	4.25	0.36	8.29	6.84	5.26	2.32
Miscellaneous Goods & Services	2.72	7.59	3.41	10.05	12.43	8.84	12.91	12.66	5.56
Total	100.00	5.37	5.46	5.49	4.93	3.13	6.17	5.39	5.30

Source: National Statistics Bureau, Thimphu

TABLE 15.4: CONSUMER PRICE INDEXES - MAJOR COMPONENTS, BHUTAN, JAN 2005 TO DEC 2006

PERIOD TO PERIOD GROWTH RATE (%) 3rd Qtr. 2003=100

Item	Weight (%)	2005				2006			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Food and Non-Alcoholic Beverages	29.44	3.37	-0.62	1.33	0.43	0.85	3.93	0.29	0.03
Alcoholic Beverages, Tobacco & Narcotics	2.23	7.99	-0.35	0.04	3.42	0.06	3.60	1.07	0.80
Clothing And Footwear	10.49	-1.49	3.06	0.92	2.01	0.45	3.45	0.14	1.18
Housing,water,electricity,gas & other fuels	25.68	8.93	-0.03	0.28	0.20	2.42	1.93	0.41	0.58
Furnishing, household equipment & routine household maintenance	5.68	1.29	-0.87	0.70	0.06	2.40	2.51	-0.79	3.13
Health	2.94	0.35	-0.67	0.35	0.00	2.35	0.63	0.54	2.96
Transport	7.06	-0.81	2.84	3.35	1.46	0.95	2.14	0.16	-0.02
Communication	4.10	-1.22	-9.13	-2.42	0.00	2.53	3.92	-0.70	4.10
Recreation and Culture	2.62	-1.22	-4.12	5.02	0.00	0.88	5.82	0.28	2.45
Education	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Restaurants and Hotels	3.01	-6.66	1.62	2.09	3.64	0.72	0.25	0.59	0.74
Miscellaneous Goods & Services	2.72	5.13	0.19	0.26	6.46	1.77	3.94	0.04	-0.24
Total	100.00	3.19	-0.14	0.96	0.86	1.41	2.81	0.22	0.77

Source: National Statistics Bureau, Thimphu

TABLE 15.5: CONSUMER PRICE INDEXES FOR FOOD ITEMS, SUB - COMPONENTS, BHUTAN JAN 2004 TO DEC 2005

PERIOD TO PERIOD GROWTH RATE 3rd Qtr 2003=100

Item	Weight	2004				2005			
	(%)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Food	27.69	107.84	107.00	108.50	108.96	109.90	114.43	114.74	114.73
Bread and Cereals (ND)	7.93	106.29	105.89	106.01	106.16	107.26	108.17	110.21	110.42
Meat	3.27	101.50	100.41	104.70	105.34	107.00	107.54	108.14	108.54
Fish	1.03	105.25	101.37	102.21	104.69	105.94	106.33	107.07	107.69
Milk,cheese & Eggs	5.16	105.51	107.05	107.16	107.36	108.07	115.28	116.31	119.02
Oils and Fats	3.41	102.77	101.18	103.53	104.39	105.43	105.78	106.07	106.30
Fruits	1.35	137.46	121.75	109.13	109.32	128.05	131.63	117.39	117.84
Vegetables	4.12	112.42	113.28	121.26	121.17	115.42	131.14	131.16	126.17
Sugar, Jam & Etc	0.56	108.63	112.76	113.09	113.44	113.81	123.49	125.84	126.10
Food Products n.e.c (ND)	0.87	114.45	114.81	115.82	119.31	120.97	124.19	125.50	126.80
Non - Alcoholic Beverages	1.74	104.73	106.80	106.93	107.54	108.46	109.39	109.96	110.73
Alcoholic Beverages	1.22	107.45	107.28	107.29	107.47	108.32	111.72	113.79	114.83
Tobacco	0.33	150.46	151.79	151.79	171.39	172.34	173.58	174.61	175.17
Narcotics (ND)	0.69	112.78	102.78	102.93	105.80	106.13	113.17	113.23	114.30
Clothing	7.87	106.21	109.29	109.68	112.37	112.75	117.72	117.83	118.66
Actual Rentals for Housing	18.77	119.63	119.63	120.00	120.18	122.88	125.75	126.51	127.35
Electricity,gas&other fuels	6.04	111.10	111.44	111.45	111.86	115.07	115.97	116.23	116.54
Fules & Lubricants	3.20	103.37	107.55	108.92	109.29	110.69	116.27	116.51	116.25
Education	4.04	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Personal Care	2.72	109.41	109.62	109.91	117.01	119.08	123.77	123.82	123.52
Total	100.00	109.39	109.24	110.29	111.24	112.81	115.98	116.24	117.14

Source: National Statistics Bureau, Thimphu

TABLE 15.6: CONSUMER PRICE INDEXES FOR FOOD ITEMS, SUB-COMPONENTS, BHUTAN JAN 2005 TO DEC 2006

PERIOD TO PERIOD GROWTH RATE — 3rd Qtr. 2003=100

Item	Weight (%)	2005				2006			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Food	27.69	3.45	-0.78	1.40	0.42	0.86	4.12	0.27	-0.01
Bread and Cereals (ND)	7.93	2.93	-0.38	0.11	0.14	1.04	0.85	1.89	0.19
Meat	3.27	-2.33	-1.07	4.27	0.61	1.58	0.50	0.56	0.37
Fish	1.03	3.17	-3.69	0.83	2.43	1.19	0.37	0.70	0.58
Milk,cheese & Eggs	5.16	2.11	1.46	0.08	0.19	0.66	6.67	0.89	2.33
Oils and Fats	3.41	-1.26	-1.55	2.32	0.83	1.00	0.33	0.27	0.22
Fruits	1.35	26.87	-11.43	-10.37	0.17	17.13	2.80	-10.82	0.38
Vegetables	4.12	5.92	0.76	7.04	-0.07	-4.75	13.62	0.02	-3.80
Sugar, Jam & Etc	0.56	6.78	3.8	0.29	0.31	0.33	8.51	1.90	0.21
Food Products n.e.c (ND)	0.87	4.73	0.31	0.97	2.92	1.39	2.66	1.05	1.04
Non - Alcoholic Beverages	1.74	1.88	1.98	0.12	0.57	0.86	0.86	0.52	0.70
Alcoholic Beverages	1.22	4.34	-0.16	0.01	0.17	0.79	3.14	1.85	0.91
Tobacco	0.33	35.17	0.88	0.00	12.91	0.55	0.72	0.59	0.32
Narcotics (ND)	0.69	8.68	-8.87	0.13	2.81	0.31	6.63	0.05	0.94
Clothing	7.87	-1.73	2.90	0.36	2.45	0.34	4.41	0.09	0.70
Actual Rentals for Housing	18.77	9.05	0.00	0.31	0.15	2.25	2.34	0.60	0.66
Electricity,gas&other fuels	6.04	8.41	0.31	0.01	0.37	2.87	0.78	0.22	0.27
Fules & Lubricants	3.20	0.99	4.04	1.27	0.34	1.28	5.04	0.21	-0.22
Education	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personal Care	2.72	5.13	0.19	0.26	6.46	1.77	3.94	0.04	-0.24
Total	100.00	3.19	-0.14	0.96	0.86	1.41	2.81	0.22	0.77

Source: National Statistics Bureau, Thimphu

TABLE 15.7: CONSUMER PRICE INDEXES, SUB-COMPONENTS, BHUTAN, JAN 2005 TO DEC 2006

YEAR ON YEAR GROWTH RATE 3rd Qtr. 2003=100

Item	Weight	2005				2006			
	(%)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Food	27.69	5.79	5.73	5.27	4.53	1.91	6.94	5.75	5.30
Bread and Cereals (ND)	7.39	4.88	4.69	3.54	2.81	0.91	2.15	3.96	4.01
Meat	3.27	0.45	-0.61	1.72	1.37	5.42	7.10	3.29	3.04
Fish	1.03	3.74	-0.74	1.82	2.62	0.66	4.89	4.75	2.87
Milk,cheese & Eggs	5.16	5.07	6.43	6.10	3.90	2.43	7.69	8.54	10.86
Oils and Fats	3.41	1.05	-0.44	0.47	0.30	2.59	4.55	2.45	1.83
Fruits	1.35	23.18	21.01	6.11	0.90	-6.85	8.11	7.57	7.79
Vegetables	4.12	9.07	13.34	12.50	14.16	2.67	15.77	8.16	4.13
Sugar, Jam & Etc	0.56	8.06	13.57	11.58	11.51	4.77	9.52	11.27	11.16
Food Products n.e.c (ND)	0.87	12.39	3.27	11.11	9.18	5.70	8.17	8.26	6.28
Non - Alcoholic Beverages	1.74	2.50	6.77	6.50	4.61	3.56	2.43	2.83	2.97
Alcoholic Beverages	1.22	7.68	8.69	4.40	4.36	0.81	4.14	6.06	6.85
Tobacco	0.33	48.65	47.17	49.86	53.98	14.54	14.36	15.03	2.21
Narcotics (ND)	0.69	10.76	1.21	1.86	1.96	1.64	10.11	10.03	8.03
Clothing	7.87	1.50	5.67	4.45	3.97	6.16	8.06	7.43	5.60
Actual Rentals for Housing	18.77	8.64	9.08	9.54	9.55	2.72	5.12	5.43	5.97
Electricity,gas&other fuels	6.04	11.28	9.79	10.27	9.15	3.57	4.06	4.29	4.18
Fules & Lubricants	3.20	1.86	6.70	7.70	6.77	7.08	8.11	6.97	6.37
Education	4.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personal Care	2.72	7.59	3.41	10.05	12.43	8.84	12.91	12.66	5.56
Total	100.00	5.37	5.46	5.49	4.93	3.13	6.17	5.39	5.30

Source: National Statistics Bureau, Thimphu

CHAPTER 16
CRIMES

This Chapter presents statistics on cases known to police and those cases registered with the Royal Bhutan Police. The statistics presented here are those compiled by the Police Headquarters.

This chapter presents the details of crime statistics by nature of crime categorized by the Police, namely the crime against human body, sexual offences, crime against property, motor vehicle, antiques, forest offences and fire incidents, motor vehicle accidents etc. The nature and type of crime reported here reflects on peace and security of the community. The content and coverage of this chapter will be improved in our subsequent issues.

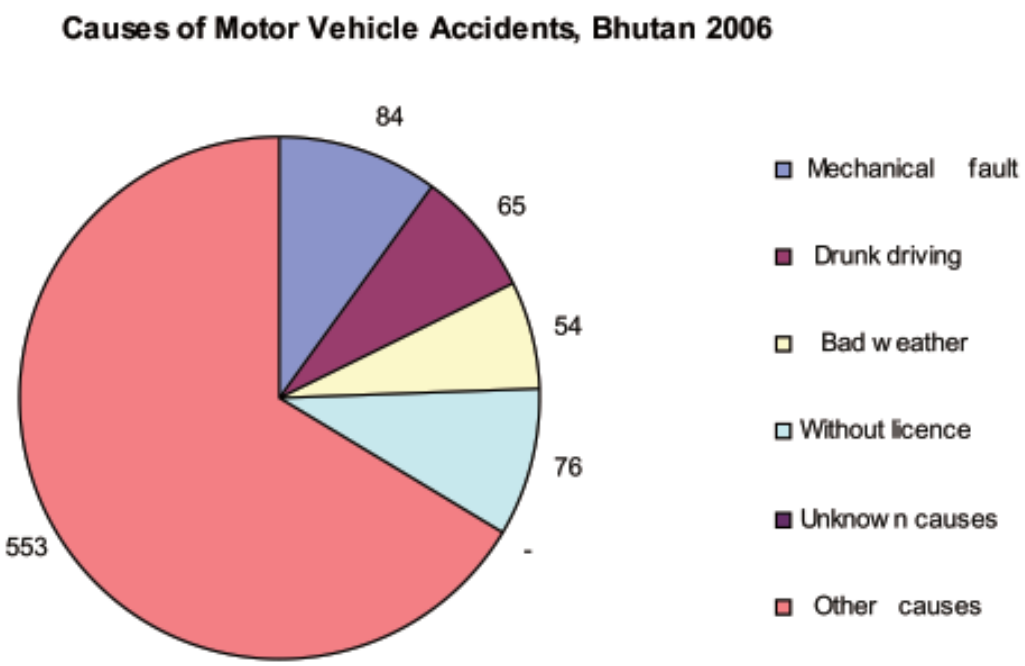

TABLE 16.1: CRIME REPORTS BY NATURE OF CRIME, BHUTAN, 2001 TO 2006

(Incident)

Nature of crime	2001	2002	2003	2004	2005	2006
Crime against human body	646	570	663	731	858	717
Sexual offence	84	52	51	53	65	72
Crime against property	623	569	640	863	844	827
Motor vehicle accident	298	344	318	818	1,038	832
Antiques	104	68	95	108	159	145
Fire incidents	36	34	42	49	37	27
Others	67	60	40	118	68	74
All crimes	1,868	1,709	1,853	2,740	3,070	2,694

Source:Ministry of Home & Cultural Affairs, Thimphu.

TABLE 16.2: DETAILS OF CRIME AGAINST HUMAN BODY, BHUTAN, 2001 TO 2006

(Incident)

Details	2001	2002	2003	2004	2005	2006
Murder	19	19	5	15	11	9
Attempted murder	5	5	7	10	4	11
Unnatural death	69	73	57	78	31	24
Accidental death	..	..	..	..	41	49
Drowning	20	15	25	26	23	15
Suicide	58	49	41	49	42	34
Attempted suicide	8	13	12	14	3	8
Assault/Battery	418	369	478	477	615	521
Kidnapping	..	..	2	2	1	1
Drug abuse	23	18	25	36	60	24
Accidental injury	9	3	4	8	6	4
Defamation	6	2	3	3	..	2
Involuntary Manslaughter	..	..	..	..	3	4
Negligent Homicide	..	..	..	..	4	4
Sale of Helth Harzard Sunstances	..	..	..	..	..	2
Criminal Abortion	..	..	..	..	..	1
Dacoity with Murder	..	..	..	..	..	1
Reckless Endangerment	..	..	..	..	..	1
Endangerment of Mentally Dislabe	..	..	..	..	..	1
Abandonment of an Infant	..	..	..	..	..	1
Total	635	566	659	718	844	717

Source:Ministry of Home & Cultural Affairs, Thimphu.

TABLE 16.3: DETAILS OF SEXUAL OFFENCES, BHUTAN, 2001 TO 2006

(Incident)

Details	2001	2002	2003	2004	2005	2006
Rape	16	13	15	18	14	33
Attempted rape	8	12	10	13	13	11
Molestation	5	1	2	4	3	5
Elopment	23	14	15	7	17	9
Sexual harassment	..	..	..	..	5	3
Un..natural offence	3	..	..	3	1	1
Prostitution	2	2	2	3	2	2
Rape of Married person	..	..	..	..	1	3
Statutory Rape	..	..	..	..	1	4
Bestiality	..	..	..	..	..	1
Total	57	42	44	48	57	72

Source:Ministry of Home & Cultural Affairs, Thimphu.

TABLE 16.4: DETAILS OF CRIME AGAINST PROPERTY, BHUTAN, 2001 TO 2006

(Incident)

Details	2001	2002	2003	2004	2005	2006
Theft/Larceny	306	267	326	462	480	380
Burglary	129	140	134	186	148	227
Robbery	16	9	7	10	10	11
Pick pocketing	5	6	6	8	4	5
Loss of Property	13	4	6	11	2	4
Forgery	9	4	10	6	7	10
Criminal breach of trust	15	4	9	6	7	19
Embezzlement	5	8	3	3	7	3
Counterfeit of coin/notes	3	2	7	4	1	2
Misappropriation	..	2	4	5	5	1
Cattle Lifting	20	19	13	37	30	11
Mischief	39	36	49	54	72	54
Criminal Attempt (Larceny	8	7	17	18	2	8
Armed Robbery	11	8	5	6	8	8
Deceptive Practice	30	34	30	30	29	15
Tresspass	..	1	..	1	4	8
Auto Stripping	..	..	..	..	12	37
Smuggling	4	5	2	3	10	11
Obstruction of lawful auth	..	..	..	..	..	6
Controlled substances	..	..	..	..	..	3
Possession of stollen prope	..	..	..	..	..	1
Un-authorized use of prop	..	..	..	..	..	2
Larceny of property mislai	..	..	..	..	..	1
Total	613	556	628	850	838	827

Source:Ministry of Home & Cultural Affairs, Thimphu.

TABLE 16.5: DETAILS OF CRIME AGAINST MOTOR VEHICLE, ANTIQUES, FOREST OFFENCES AND FIRE INCIDENCE, BHUTAN, 2001 TO 2006 (Incident)

Details	2001	2002	2003	2004	2005	2006
Motor Vehicles Offence	298	344	318	818	1038	832
Traffic voilation	..	1	2	3	134	19
Hit and run	11	10	17	44	77	88
Motor vehicle accident	270	319	284	740	805	696
Motor vehicle accident (fatal)	17	13	15	30	22	20
Cycle accidents	..	1	..	1	..	1
Pedestrain Accident	..	..	..	..	..	8
Forest Offence	10	12	4	..	1	
Illegal sale of bear bile	..	1	..	..	..	
Poaching	3	4	1	..	..	
Illegal fishing	7	3	1	..	1	
Theft of forest product	..	4	2	..	..	
Antiques	104	68	95	108	159	145
Theft of antique	12	6	3	9	21	12
Chorten vandalism	78	59	90	94	119	125
Smuggling of antique	8	1	1	2	5	5
Theft from Lhakhang	6	2	1	3	14	3
Fire Incidents	36	34	42	49	37	27
Fire accident	27	31	35	46	32	22
Arson	9	3	7	3	5	5
Others	55	40	20	32	45	74
Illegal sale of tobacco	..	..	..	..	8	3
Explosive	2	..	1	2	2	3
Criminal nuisance	9	2	..	2	3	1
Missing of person	31	14	9	19	16	27
Impersonation	5	5	2	3	7	8
Prowling	..	..	..	..	..	1
Fire arms	4	10	1	1	2	9
Theft of Services	..	..	..	..	1	2
Public intoxication	..	..	..	..	3	1
Hindering Procecution	..	..	..	..	1	1
Aiding and Abetting	..	..	..	..	2	2
Disorderly Conduct	..	..	..	..	..	7
Indecent Exposure	..	..	..	..	..	1
Promotion of Civil Unrest	..	..	..	..	..	1
False Information	..	..	..	..	..	2
Drawing of an Illegal Documen	..	..	..	..	..	1
Illegal Immigrant	..	..	..	..	..	3
Threat & intimadation	4	9	7	5	..	1

Source:Ministry of Home & Cultural Affairs, Thimphu.

TABLE 16.6: MONTHLY MOTOR VEHICLE ACCIDENTS BY TRAFFIC DIVISION, BHUTAN, 2006

(Incident)

Traffic Division	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Thimphu Divison	38	31	36	40	34	33	48	53	31	44	63	48	499
Div-I Paro	1		1			1	1	5		5	1	2	17
Div-II Punakha	3	3	3	3	5	1	2	6	5	3	3		37
Div-III Phuentsholing	10	12	10	13	14	28	15	21	26	15	17	11	192
Div-IV Samtse			1			1		1				1	4
Div-V Gelephu	1	1	1	2	2			1	2				10
Div-VI Tsirang			1	2	1	1	1	1			1		8
Div-VII Trongsa	1	1	1	1	3	2		4	5	2	1	1	22
Div-VIII S/Jongkhar		1			2	1		2	1				7
Div-IX Trashigang	2	5	1	2	4	3	3	1	1			3	25
Div-X Mongar				4		2	1		1		2	1	11
Total	56	54	55	67	65	73	71	95	72	69	88	67	832

Source:Ministry of Home & Cultural Affairs, Thimphu.

TABLE 16.7: CAUSES OF MOTOR VEHICLE ACCIDENTS BY TRAFFIC DIVISION, BHUTAN, 2006

(Incident)

Traffic division/ Type of Vehicle	Mechanical fault	Drunk driving	Bad weather	Without licence	Unknown causes	Other causes	All causes
Gelephu							
Trucks	0	0	0	0	0	3	3
Buses	0	0	0	0	0	0	0
Light Vehicle	2	1	0	0	0	4	7
Two Wheeler	0	0	0	0	0	0	0
Mongar							
Trucks	1	1	0	1	0	3	6
Buses	0	0	0	0	0	0	0
Light Vehicle	0'	0	2	1	0	2	5
Two Wheeler	0'	0	0	0	0	0	0
paro							
Trucks	1	0	0	0	0	5	6
Buses	0	0	0	0	0	0	0
Light Vehicle	0	0	0	1	0	8	11
Two Wheeler	0	0	0	0	0	0	0
Phuntsholing							
Trucks	9	5	8	5	0	46	73
Buses	0	0	2	0	0	7	9
Light Vehicle	18	8	7	11	0	43	87
Two Wheeler	2	1	3	5	0	12	23
Punakha							
Trucks	4	0	1	2	0	11	18
Buses	0	0	0	0	0	1	1
Light Vehicle	1	1	0	2	0	13	17
Two Wheeler	0	0	0	0	0	1	1
Thimphu							
Trucks	12	6	7	9	0	107	141
Buses	3	7	2	5	0	16	33
Light Vehicle	16	25	13	20	0	205	279
Two Wheeler	5	5	3	8	0	25	46
Samdrup Jongkhar							
Trucks	0	1	0	2	0	2	5
Buses	0	0	0	0	0	0	0
Light Vehicle	1	0	0	0	0	1	2
Two Wheeler	0	0	0	0	0	0	0

contd..

TABLE 16.7(contd.): CAUSES OF MOTOR VEHICLE ACCIDENTS BY TRAFFIC DIVISION, BHUTAN, 2006

(Incident)

Traffic division/ Type of Vehicle	Mechanical fault	Drunk driving	Bad weather	Without licence	Unknown causes	Other causes	All causes
Samtse							
Trucks	0	0	0	0	0	1	1
Buses	0	0	0	0	0	1	1
Light Vehicle	0	0	0	0	0	2	2
Two Wheeler	0	0	0	0	0	0	0
Trongsa							
Trucks	2	1	2	0	0	5	10
Buses	0	0	0	0	0	1	1
Light Vehicle	1	1	4	0	0	3	11
Two Wheeler	0	0	0	0	0	0	0
Trashigang							
Trucks	1	1	0	1	0	12	15
Buses	0	0	0	0	0	0	0
Light Vehicle	2	0	0	1	0	7	10
Two Wheeler	0	0	0	0	0	0	0
Tsirang							
Trucks	1	0	0	0	0	2	3
Buses	0	0	0	0	0	0	0
Light Vehicle	0	1	0	0	0	3	4
Two Wheeler	0	0	0	0	0	1	1
Bhutan	84	65	54	76	0	553	832

Source:Ministry of Home & Cultural Affairs, Thimphu.

National Statistics Bureau Publications

Regular Publications

- Statistical Yearbook of Bhutan
- National Accounts Statistics Report
- Bhutan at a Glance
- Price Statistics
- Socio-Economic Indicatiors

Other Publications (recent)

- Results of Population and Housing of Bhutan 2005
- PHCB 2005 Fact Sheet
- Selected Indicators on Population and Housing Census of Bhutan 2005
- Dzongkhag level PHCB Indicator Maps of Bhutan 2005
- Population Projections 2005-2030
- Household Income and Expenditure Survey Report 2000
- Bhutan Living Standard Survey Report 2007
- Poverty Analysis Report 2007