

**STATISTICAL HANDBOOK OF
BHUTAN
(1986)**



**Central Statistical Office
Planning Commission
Royal Government of Bhutan
Thimphu, Bhutan**

PREFACE

This publication is the fifth in a series of annual compilations of basic statistics of Bhutan. It is hoped that this Handbook will serve as an appropriate medium for disseminating, in a compact form, important basic facts relating to the country. We also hope that this publication would be a useful source of reference.

We would like to express our thanks to those who have extended their co-operation in the compilation of this booklet. We hope to provide this publication on an annual basis with gradually increasing coverage, in order to make it more useful to planners, researchers, administrators, and the general public.

Suggestions for improvements are welcome.

**Central Statistical Office
Planning Commission
Royal Government of Bhutan**

Thimphu :

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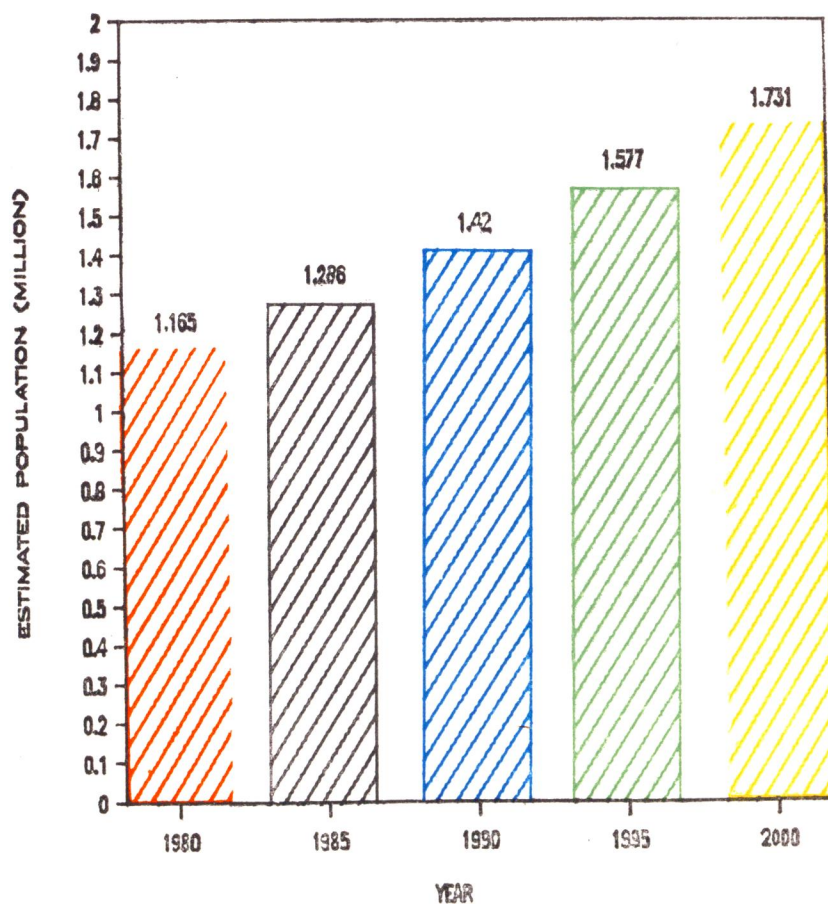
SECTION 1-POPULATION

1.1 Population Projection for various Dzongkhags (1980-2000)

Sl. No.	Dzongkhag	1980	1985	1990	1995	2000
1.	Bumthang	21,594	23,842	26,323	29,063	32,087
2.	Chirang	98,548	108,807	120,130	132,630	146,432
3.	Dagana	25,679	28,352	31,303	34,561	38,156
4.	Gasa	15,313	16,907	18,667	20,610	22,754
5.	Gaylegphug	100,791	111,283	122,864	135,655	149,765
6.	Haa	15,139	16,715	18,454	20,376	22,495
7.	Lhuntshi	35,898	39,635	43,760	48,315	53,341
8.	Mongar	66,334	73,239	80,861	89,279	98,566
9.	Paro	42,220	45,615	51,466	56,824	62,735
10.	Punakha	15,699	16,700	18,438	20,357	22,476
11.	Pemagatshel	33,639	37,141	41,006	45,275	49,984
12.	Samchi	155,882	172,109	190,020	209,802	231,625
13.	S/Jongkhar	66,157	73,044	80,645	89,041	98,303
14.	Shemgang	40,319	44,516	49,149	54,265	59,910
15.	Tashigang	160,962	177,718	196,213	216,693	239,173
16.	Thimphu	52,556	58,660	64,765	71,507	78,944
17.	Tongsa	23,564	26,017	28,725	31,715	35,014
18.	Wangdiphodrang	42,706	47,152	52,059	57,478	63,457
19.	Urban Population	152,000	167,823	185,288	204,577	225,857
Total		1,165,000	1,286,276	1,420,135	1,576,974	1,731,074

Source : Registration Department , Ministry of Home Affairs.

1.1(a) POPULATION PROJECTIONS 1980-2000

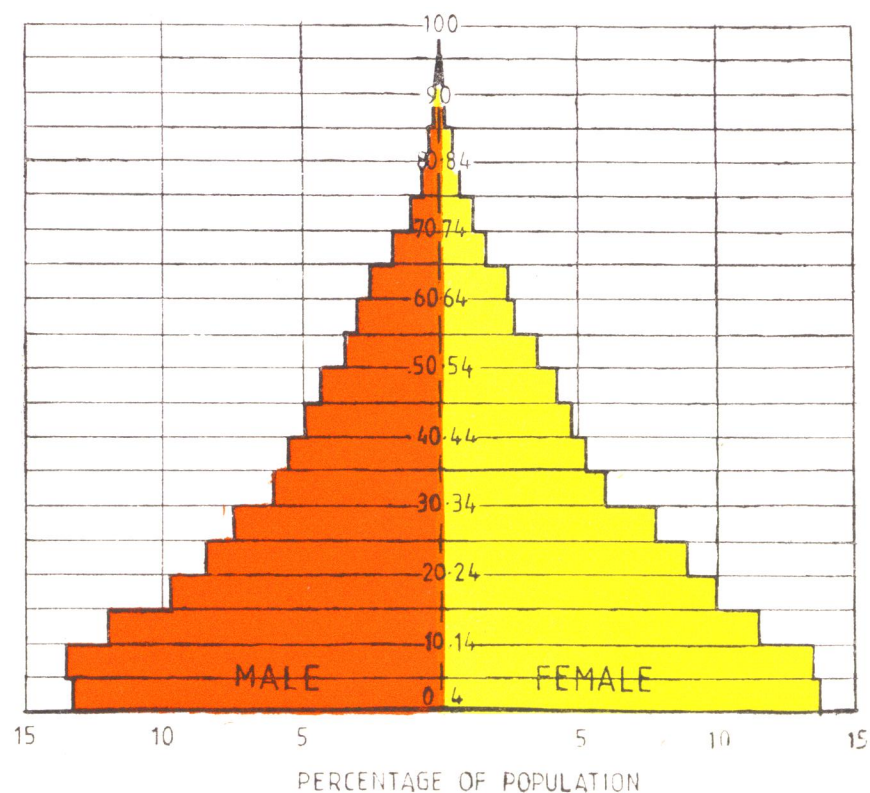


1.2 population distribution by age and sex - 1985

Age Group	Total	Percent	Male	Percent	Female	Percent
0 - 4	152,222	13.61	76,292	13.36	75,925	13.87
5 - 9	153,228	13.70	77,606	13.50	75,651	13.82
10 - 14	133,208	11.91	78,640	12.02	64,594	11.80
15 - 19	111,398	9.96	55,849	9.78	55,507	10.14
20 - 24	98,871	8.84	49,916	8.74	48,938	8.94
25 - 29	86,456	7.7	343,571	7.63	42,916	7.24
30 - 34	67,443	6.03	35,063	6.1	432,351	5.91
35 - 39	60,844	5.44	31,636	5.45	29,177	5.33
40 - 44	54,245	4.85	28,495	4.99	25,728	4.70
45 - 49	49,659	4.44	26,097	4.57	23,538	3.30
50 - 54	41,607	3.72	21,700	3.80	19,871	3.63
55 - 59	13,764	2.84	16,903	2.96	14,835	2.71
60 - 64	28,073	2.51	14,333	2.51	13,640	2.51
65 - 69	19,349	1.73	9,765	1.71	9,580	1.75
70 - 74	13,421	1.20	6,738	1.18	6,733	1.23
75 - 79	7,270	0.65	3,541	0.62	3,722	0.68
80 - 84	4,133	0.37	2,056	0.36	2,299	0.42
85 - 89	1,566	0.14	742	0.13	766	0.14
90 +	671	0.06	286	0.05	328	0.06
ANS	3,031	0.27	1,827	0.32	1,204	0.22
All Ages	1,118,463	100.00	571,050	100.00	547,403	100.00

Exclusive of urban population.

1.2 (a) AGE-SEX PYRAMID



1.3 Demographic Indicators (1983 & 1984)

Indicators	1983	1984 (DSSB)
Total Fertility Rate (TFR)	6.16	5.86
General Fertility Rate (GFR)	187.70	169.63
Gross Reproduction Rate (GRR)	3.00	2.86
Net Reproduction Rate (NRR)	1.89	—
Infant Mortality Rate (IMR)/1000	117.00	107.82
Maternal Mortality Rate (MMR)/100,000	—	773.43
Child Mortality Rate (CMR)/1000	—	21.09
Child Women Rate (CWR)/1000	649.00	595.50
Women Ages (15-49) %	47.00	41.72
Sex Ratio	104.32	97.50
Dependency Ratio	77.00	80.00
% of population ages (0-4)	41.00	13.74
% of population ages (5-14)	26.00	26.08
% of population ages (15-64)	56.00	55.54
% of population ages (65)	4.00	4.64
Density/Sq. Km.	25.00	—

1.4 Demographic Vital Rates

Year	Birth rate	Death rate	Natural Increase	Growth rate	Life Expectancy
1950-55	49.6	30.6	19.0	1.96	27.8
1955-60	46.5	30.5	16.0	1.60	33.8
1960-65	45.2	26.4	18.8	1.88	37.3
1965-70	44.7	23.9	20.8	2.10	39.8
1970-75	43.2	22.3	20.9	2.09	41.3
1975-80	41.0	20.6	20.4	2.04	43.3
1980-85	39.0	19.0	20.0	2.00	45.6

Source : Demographic Sample Survey of Bhutan, CSO.

1.5 Percentage distribution of Economic Status of population by age and sex - 1984.

Age Group	Agriculture		Service		Business		Others		No Occupation	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
< 15	7.03	9.15	—	—	—	—	1.01	0.16	91.96	90.69
15-19	54.66	87.84	2.04	0.55	0.04	0.21	3.54	0.42	39.72	10.98
20-24	70.86	95.65	11.05	1.01	1.54	1.06	4.08	0.21	12.47	2.07
25-29	76.73	98.02	13.82	0.58	1.95	0.41	4.37	0.29	3.13	0.70
30-34	82.03	98.38	11.08	0.41	1.70	0.61	4.34	0.13	0.85	0.47
35-39	84.40	99.05	7.67	0.09	2.45	0.26	4.72	0.17	0.76	0.43
40-44	87.68	99.12	5.91	0.16	2.28	0.48	3.63	0.24	0.50	—
45-54	90.48	98.38	3.31	0.05	1.59	0.33	3.64	0.05	0.98	1.19
55-64	88.12	91.05	1.04	0.12	0.91	0.31	3.96	0.06	5.97	8.46
65+	71.08	73.20	1.46	0.54	0.55	0.18	0.91	—	26.00	26.08
Total:	52.52	61.53	3.94	0.25	0.88	0.27	2.76	0.18	39.90	37.77

N.B. (a) Based on ILO classification.
(b) Demographic sample survey - 1984.

SECTION 2-HEALTH STATISTICS

Activities	1982	1983	1984	1985
Hospitals	19	22	28	28
Beds	560	831	857	857
Basic Health Units	50	60	65	65
Dispensaries	37	44	44	44
Doctors	55	65	70	70
Paramedical Workers	477	526	524	540
Ratio of Doctors to Population	21181	19019	18015	18375
Ratio of Beds to Population	2080	1489	1471	1501
Ratio of Paramedical Workers	2442	2350	2335	2382
Morbidity Statistics				
Patients treated by Hospitals	—	485577	330026	—
Patients treated by Basic Health Units	—	317824	337576	—
Patients treated by Dispensaries	—	—	—	—
Maternal Child Health Coverage	—	44608	45583	—
Malaria Activities				
Total population covered	—	105257	130477	—
Blood slide collected and examined	—	42633	68667	—
Blood slide positive	—	5677	8078	—
Positive cases treated	—	5213	18368	—
Registered Family Planning cases				
Minilap	—	381	218	—
IUD	—	170	80	—

Activities	1982	1983	1984	1985
PILLS	—	1599	2677	—
Condom	—	197	652	—
Vasectomy	—	577	267	—
Immunization Programmes				
BCG	—	—	83054	20321
Measles	—	—	16615	12738
DPT	—	—	16615	7462
Polimyelities	—	—	16615	7223

2.2 No. of Hospitals and beds, Doctors and Paramedical Workers - 1985.

Name of Hospitals	Beds	Doctors	Paramedicals
Government Hospitals			
Thimphu	200	22	86
Tashigang	45	4	24
Gaylegphug	20	8	35
Samchi	59	3	21
Chirang	20	3	10
Phuntsholing	20	4	22
Sarbhang	20	2	12
Samdrup Jongkhar	20	2	20
Paro	10	2	6
Tongsa	10	1	6
Bumthang	10	2	4
Sibsoo	10	1	6
Pema Gatshel	10	1	4
Indigenous	—	5	10
Leprosy Mission Hospitals			
Mongar	45	1	25
Lhuntshi	16	1	10
Gidagom	45	1	18
Riserboo	45	—	2
Yebilepcha	10	—	—
RBA Hospitals			
Lungtenphug	49	—	—
Wangdi	40	2	3
Yongphula	10	—	—

2.3 No. of other Hospitals -1985

Name of Hospitals	Beds	Doctors	Paramedicals
Project Hospitals			
Chhukha	29	—	—
Gomtu	10	—	—
Other Hospitals			
Haa	40	—	—
I.B.F., Thimphu	4	—	—
Tongsa	10	—	—
Deothang	50	—	—
Community Level Hospitals			
Basic Health Unit	—	1	62
Dispensaries	—	—	42
UN Volunteer	—	4	12
Total	857	70	540

2.4 Yearly Report on Morbidity Pattern for BHUs and Dispensaries for the year 1984.

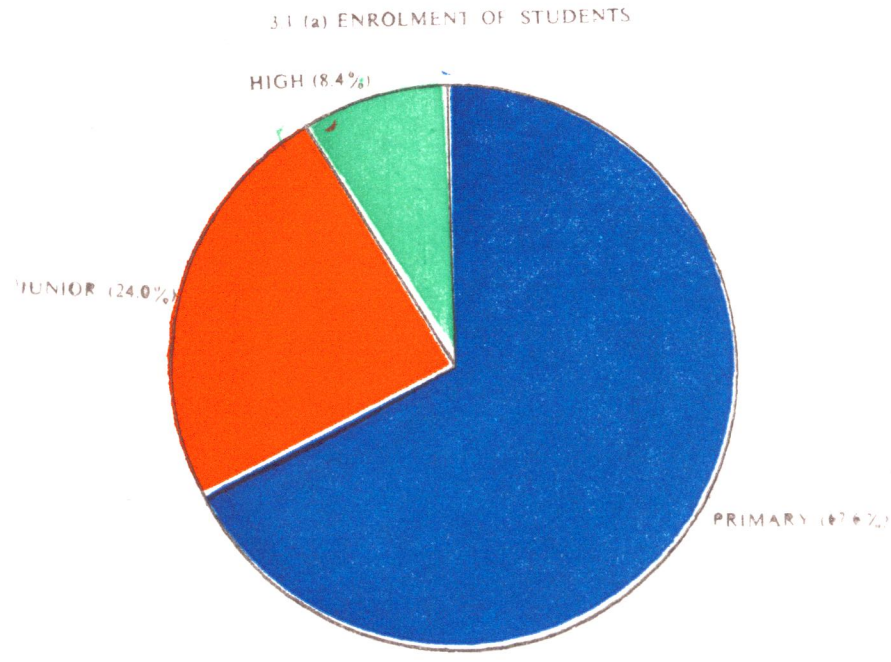
Name of Disease	Child	Adult	Total	Per-centage
Respiratory Tract Infection	101992	37454	139446	30.9
Diarrhoea/Dysentery	40222	30899	71121	15.8
Helminthic Infection	15520	14111	29631	6.6
Skin Infection	16512	14666	31178	6.9
Malaria/PUO	11081	12775	23856	5.3
Peptic Ulcer Syndrome	2590	9619	12209	2.7
Nutritional Deficiency	3858	6487	10345	2.3
Infection of Ear (Otitic Media)	5776	4775	10551	2.3
Conjunctivitis	4644	3553	8197	1.8
Genito Urinary Tract Infection	1766	4339	6105	1.3
Anaemia	1233	3582	4815	1.1
Disease of Teeth and Gum	1061	3514	4575	1.0
Infectious Disease of Childhood	2653	1047	3700	0.8
Sexually Transmitted Diseases	253	2733	2986	0.7
Arthritis/Fracture	478	1707	2185	0.5
Infectious Hepatitis	296	534	830	0.2
Worms	3766	3443	7209	1.6
Gastric	781	2433	3214	0.7
Eye Infection	1080	1359	2439	0.5
Leprosy	461	527	988	0.2
Measles	629	191	820	0.2
T.B.	22	184	206	0.1
Chicken Pox	74	38	112	0.1
Others	10773	63262	74035	16.4
Total	227521	223232	450753	100.00

Based on WHO concepts.

SECTION 3-EDUCATION STATISTICS

3.1 Number of Institutions in various Dzongkhag and student enrolment by type of Institution - 1985.

Name of Dzongkhag	No. of Institutions			Primary School			Junior High School			High School		
	Primary School	Junior School	High School	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Bumthang	3	1	—	239	375	614	395	191	586	—	—	—
Chirang	14	3	—	2358	1129	3487	1458	897	2355	—	—	—
Dagana	4	1	—	569	165	734	114	34	148	—	—	—
Gaylegphug	15	2	1	3231	1554	4785	788	575	1363	644	382	1026
Gasa	1	—	—	55	12	67	—	—	—	—	—	—
Haa	5	1	—	325	231	556	249	134	383	—	—	—
Lhuntshi	4	1	—	321	117	443	170	67	237	—	—	—
Mongar	6	1	—	775	179	954	443	231	674	—	—	—
Paro	9	1	1	1031	596	1627	201	113	314	246	70	316
Pema Gatshel	3	1	—	832	60	442	379	122	501	—	—	—
Punakha	3	—	1	317	191	508	—	—	—	321	131	452
Samchi	24	4	1	4509	2520	7029	1322	791	2113	253	81	334
Shemgang	7	—	1	955	216	1171	—	—	—	379	176	573
Samdrup Jongkhar	11	—	—	2330	881	3211	—	—	—	—	—	—
Thimphu	12	2	2	2236	1448	3923	721	616	1337	651	424	1075
Tongsa	3	1	—	229	174	403	305	163	468	—	—	—
Tashigang	14	2	1	1997	664	2661	707	281	988	274	97	371
Wangdiphodrang	7	1	—	576	266	842	206	137	343	—	—	—
Total	145	22	8	22440	10778	33218	7458	4352	11810	2786	1361	4147



3.2 Class-wise enrolment of students by type of institution - 1985.

Classes	Primary School			Junior High School			High School			Total		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
LKG	5504	3080	8584	1255	806	2061	161	90	251	6920	3976	10896
UKG	4829	2413	7242	1060	776	1836	131	99	230	6020	3288	9308
I	4061	1976	6037	1068	719	1787	198	157	368	5327	2852	8179
II	3001	1304	4305	814	479	1293	170	91	261	3985	1874	5859
III	2335	930	3265	786	422	1208	154	107	261	3275	1459	4734
IV	1616	616	2232	656	414	1070	139	106	245	2411	1136	3547
V	1094	459	1553	601	409	1010	183	126	309	1878	994	2872
VI	—	—	—	465	148	613	356	160	516	821	308	1129
VII	—	—	—	424	100	524	424	144	568	848	244	1092
VIII	—	—	—	329	79	408	321	139	460	650	218	868
IX	—	—	—	—	—	—	321	72	393	321	72	393
X	—	—	—	—	—	—	228	70	298	228	70	298
Total	22440	10778	33218	7458	4352	11810	2786	1361	4147	32684	16491	49175

3.3 Year-wise comparison of Institution, School enrolment and teachers - 1985

Year	No. of Institutions	No. of Students			Teachers	Ratio of teacher to the Student
		Male	Female	Total		
Primary School						
1982	128	17450	7110	24560	773	1 : 32
1983	136	19582	8257	27839	962	1 : 29
1984	141	21251	9453	30704	1057	1 : 29
1985	145	22440	10778	33218	1045	1 : 32
Junior High School						
1982	24	8124	4385	12509	377	1 : 33
1983	23	7867	4405	12272	398	1 : 31
1984	22	7209	4151	11360	396	1 : 29
1985	22	7458	4352	11810	423	1 : 28
High School						
1982	6	1980	1015	2995	113	1 : 27
1983	7	2409	1262	3671	160	1 : 23
1984	8	2791	1443	4234	184	1 : 23
1985	8	2786	1361	4147	200	1 : 21
Junior College						
1982	1	186	40	226	16	1 : 14
1983	1	186	46	232	17	1 : 14

Junior College

1984	1	189	44	223	26	1 : 9
1985	1	181	42	223	24	1 : 9

Degree College

1982	—	—	—	—	—	—
1983	1	46	—	46	17	—
1984	1	90	10	100	26	—
1985	1	87	9	96	24	—

N.B. Taught by the same lecturers in Junior College and Degree College.

3.4 Professional Qualification of Teachers by type of School - 1985.

Category of teaching Staff	Type of School		
	Primary School	Junior High School	High School
Post graduate (Art)	20	5	9
Post graduate (Science)	—	1	9
Graduate (Art)	29	26	11
Graduate (Science)	—	—	—
Graduate (Commerce)	4	1	—
TTI	306	54	15
Matriculate	66	9	—
Untrained			
Post graduate (Art)	5	19	19
Post graduate (Science)	—	5	8
Post graduate (Commerce)	1	—	1
Graduate (Art)	100	54	11
Graduate (Science)	56	52	10
Graduate (Commerce)	13	3	1
Matriculate	196	63	28
Non-Matric	51	16	5
Language Teacher			
Bhutanese Language Teacher	186	70	30
Others			
Physical teacher	—	1	2
Deputationist	—	11	5
UNV	—	3	8
VSO	—	10	7
VSA	—	—	3
WVSC	—	1	2
Total	1045	423	200

3.5 Technical, Vocational, Religious Institution and enrolments - 1985.

Type of Institutions	No. of Institutions			No. of Students		
	1983	1984	1985	1983	1984	1985
Royal Bhutan Polytechnic (Deothang)	1	1	1	144	148	109
Technical School (Kharbandi)	1	1	1	265	267	280
National Institute of Education (Samchi)	1	1	1	78	74	68
Teacher's Training Centre (Paro)	1	1	1	41	37	27
Royal Commercial Institute (Thimphu)	1	1	1	42	40	67
Blind School, Khaling	1	1	1	23	26	27
Sculpture School	1	1	1	30	36	30
Painting School	1	1	1	106	110	80
Monastic School	14	16	17	682	1093	1362
Sanskrit Pathsalas	5	5	5	264	285	291

Source : Education Department.

SECTION 4-AGRICULTURE STATISTICS

4.1 Land under Agriculture use - 1984.

Regional/ Dzongkhag	Wet Land (acres)	Dry Land (acres)	Tsheri & Pangshing (acres)	Kitchen Garden (acres)	Orchards & Planta- tions (acres)	Total (acres)
Western Region						
Paro	5,052	6,237	477	121	585	12,472
Thimphu	4,367	2,910	831	153	2,723	10,984
Punakha	3,606	519	9	79	163	4,376
Wangdiphodrang	4,501	2,252	204	83	168	7,208
Gasa	228	637	—	11	2	878
Haa	285	3,673	672	41	741	5,412
Total Western Region :	18,039	16,228	2,193	488	4,382	41,330
Central Region						
Bumthang	—	6,505	1,518	62	353	8,438
Tongsa	1,773	2,854	919	58	373	5,977
Shemgang	2,336	3,424	1,892	89	1,058	8,799
Total Central Region :	4,109	12,783	4,329	209	1,784	23,214

South-Central Region

Dagana	1,729	6,360	389	55	349	8,882
Chirang	7,392	19,202	336	231	9,289	36,450

Total South- Central Region :	9,121	25,562	725	286	9,638	45,332
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Southern Region

Samchi	15,159	33,581	4,591	621	13,589	67,541
Gaylegphug	10,107	23,224	1,659	292	13,315	48,597
Samdrup Jongkhar	4,543	10,479	6,834	361	1,268	23,485

Total Southern Region :	29,809	67,284	13,084	1,274	28,172	139,623
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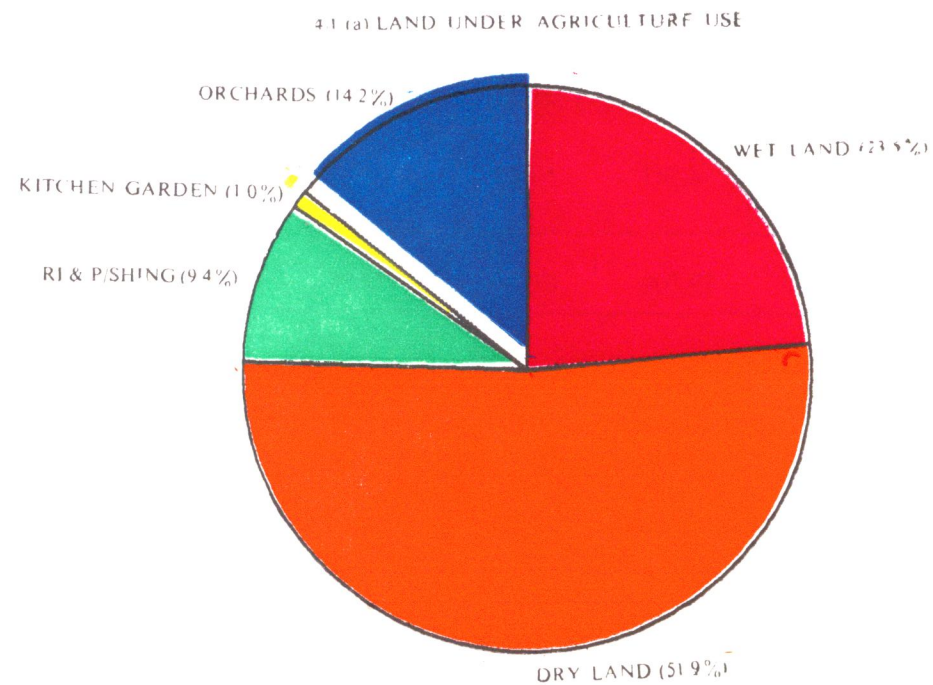
Eastern Region

Tashigang	8,013	24,857	3,010	464	347	36,691
Pemagatshel	156	4,507	1,840	128	108	6,739
Mongar	1,284	7,065	2,323	179	56	10,907
Lhuntshi	2,879	3,839	1,717	135	10	8,580

Total Eastern Region :	12,332	40,268	8,890	906	521	62,917
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Total for Bhutan	73,410	162,125	29,221	3,163	44,493	312,416
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(Percent)	(23.50%)	(51.90%)	(9.35%)	(1.01%)	(14.24%)	(100.00%)
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4.2 Agricultural Production (1981-1987)

Major crops	1981		1984		Estimated during end of Vth Plan (1987)	
	Crop Area ('000 Hec-tares)	Pro-duction ('000 MT)	Crop Area ('000 Hec-tares)	Pro-duction ('000 MT)	Crop Area ('000 Hec-tares)	Pro-duction ('000 MT)
Cereals						
Paddy	28.00	57.4	30.6	65.0	37.0	84.5
Wheat/Barley	12.00	13.3	14.4	16.02	16.6	22.5
Maize	56.8	80.7	58.5	78.31	52.4	85.1
Buck Wheat/Millet	15.5	12.3	20.6	16.8	15.0	12.7
Total	112.6	163.7	124.1	176.13	121.0	204.8
Pulses	4.0	2.4	3.02	2.6	5.3	3.8
Mustard	2.9	1.9	5.0	3.45	5.5	3.9
Potato	3.7	24.9	4.2	32.6	5.1	50.0
Chillies/Vegetables	3.1	12.2	1.7	5.3	2.8	11.2
Oranges	6.2	25.6	7.8	38.7	8.0	53.0
Apples	1.5	3.3	1.6	3.5	1.9	8.8
Cardamom	5.9	2.8	8.8	3.0	6.6	4.1

4.3 Marketing of crop production - 1984

Crop Marketed	Area planted (Acres)	Gross Production (Tonnes)	Quantity Marketed (Tonnes)	Value of Quantity Marketed (Nu. in Million)
Oranges	19395 (56%bearing)	38672	36956	43.41
Cardamom	21699 (42%bearing)	3013	3013	42.98
Potatoes	10215	32622	22168	26.57
Ginger	1147	4469	2569	7.66
Apples	3864	3480	3031	5.56
Chilly	2408	3627	556	2.57
Mustard	12263	3446	537	1.81
Soyabeans	10710	2751	926	1.76
Sugarcane	948	10684	10337	1.28
Other Beans & Pulses	7453	2552	437	1.11
Arecanut	180 (84%bearing)	563	503	0.28
Cereals	—	—	3604	7.98
Miscellaneous crop	—	—	595	1.07

4.4 Dzongkhag-wise Irrigation Schemes completed ending March 1985

Dzongkhag	New Construction				Renovation				Bank Protection		Feeder Road	
	No. of Schemes (Nos)	Command Area Existing (Acres)	Expansion (Acres)	Length of Channel (Kms)	No. of Schemes (Nos)	Command Area Existing (Acres)	Expansion (Acres)	Length of Channel (Kms)	No. of Schemes (Nos)	Length of Channel (Kms)	No. of Schemes (Nos)	Length of Road (Kms)
Bumthang	3	—	120.00	4.36	—	—	—	—	4	1.50	1	15.00
Chirang	6	737.00	705.00	29.3	5	283	227	13.4	2	1.00	5	12.5
Dagana	2	450.00	320.00	7.21	2	400.00	25.00	12.64	—	—	—	—
Gasa	2	125.00	—	2.23	3	108.00	—	3.23	—	—	—	—
Gaylegphug	9	2860.00	947.00	31.45	8	2150.00	—	20.47	12	12.25	5	14.00
Haa	5	55.00	55.00	3.79	4	89.00	—	5.75	3	0.50	—	—
Lhuntshi	8	546.00	405.00	39.49	12	1467.00	—	42.52	—	—	2	11.00
Mongar	3	495.00	1252.00	15.14	3	171.00	5	5.6	—	—	7	18.00
Paro*	2	120.00	80.00	3.5	13	1751.00	—	19.88	27	3.60	2	7.00
Pema Gatshel	3	62.00	212.48	4.44	—	—	—	—	—	—	1	5.00
Punakha*	1	260.00	—	5.00	15	1764.5	—	30.4	2	20.3	—	27.5
Samchi	8	1335.00	470.00	22.10	13	3327.00	—	40.12	12	5.63	3	12.00
S/Jongkhar	8	2995.00	—	20.11	4	1200.00	—	—	3	5.27	2	7.00
Shemgang	*1	—	225.00	3.35	3	105.00	82.00	12.77	1	1.00	1	2.50
Tashigang	11	3078.00	—	27.57	9	3858.00	—	36.42	3	2.00	2	10.00
Thimphu*	6	378.00	787.00	9.49	7	480.00	—	14.10	2	2.00	—	—
Tongsa	9	340.00	820.00	24.39	135	325.00	8.02	—	—	—	3	10.06
Wangdiphodrang	—	—	—	—	4	1227.00	—	19.5	—	—	3	12.70
Total :	87	13836.00	6398.48	252.92	240	18705.50	347.02	276.80	71	55.03	37	164.26

SECTION 5 - FOOD CORPORATION OF BHUTAN - 1985

5.1 Food Depots under various Dzongkhags.

Name of Dzongkhag	Number of Depots	Location of Depots
Bumthang	2	Bumthang, Ura
Chirang	3	Damphu, Lamidara, Dagapela
Dagana	1	Dagana
Gasa	1	Gasa
Gaylegphug	3	Gaylegphug, Sarbhang, Kalikhola
Haa	1	Haa
Lhuntshi	1	Lhuntshi
Mongar	1	Mongar
Pemagatshel	1	Pemagatshel
Paro	2	Paro, Bitekha
Punakha	1	Punakha
Samchi	6	Samchi, Phuntsholing, Sibsoo, Ghumauney, Gomtu, Dorokha
Samdrup Jongkhar	2	Samdrup Jongkhar, Nanglam
Shemgang	1	Shemgang
Tashigang	2	Tashigang, Wamrong
Thimphu	6	Thimphu, Chukha, Chimakothi, Chimalakha, Khasadrapchu, Fair Price shop
Tongsa	1	Tongsa
Wangdiphodrang	2	Wangdiphodrang, Phobjikha
Total	37	

5.2 Dzongkhag-wise Cash Crops Purchase Centre - 1985.

Dzongkhag	Potato	Apple	Orange	Ginger	Carda- mom	Soya- bean
Bumthang	2	-	-	-	-	-
Chirang	-	-	-	-	2	-
Gaylegphug	-	-	-	-	3	-
Haa	1	-	-	-	-	-
Lhuntshi	-	-	-	-	-	1
Mongar	1	-	-	-	-	1
Paro	4	1	-	-	-	-
Pemagatshel	1	-	-	-	-	-
Samchi	-	-	3	3	3	-
Samdrup Jongkhar	1	-	1	-	-	-
Shemgang	-	-	1	-	-	-
Tongsa	1	-	-	-	-	-
Thimphu	3	2	-	-	-	-
Tashigang	2	1	-	-	-	1
Wangdiphodrang	3	1	-	-	-	-
Total	19	5	5	3	8	3

5.3 Distribution of food grains by FCB - 1985

Commodity	Imports (MT)
Rice	18000
Wheat and Wheat products	12000
Sugar	3600
Salt	6000
Palm and Rapsed oil	480

SECTION 6-ANIMAL HUSBANDRY DEPARTMENT

6.1 Livestock farms, dispensaries and Veterinary Institution - 1985-86.

Veterinary Institution

Veterinary hospitals	18
Veterinary Centres	87
Bulls Centres	102
Artificial Insemination Centres	3

Livestock Farms

Jersey Breeding Farm	1
Poultry Farm	3
Piggery Farm	3
Poultry Production Project	1
Cattle Breeding Farm	2
Mithun Breeding Farm	1
Trout Breeding Farm	1
Carp Seed Production Centre	1
Brown Swiss Cattle Project	1

Peasant Rearing Farm

Pig Breeding station cum Pork Processing Plant	1
Sheep and Wool Development Project	1
Horse Breeding Farm	1

Other Institution

Veterinary Diagnostic Lab	1
Royal Veterinary Institute	1

Fodder Research station	2
Dairy Development Coordination Office	1
Milk Collection cum sale centres	2
Quarantine check post	4

Breeding animals maintained at the Centres

Pure and cross Jersey/Brown Swiss bull	102
Halfinger stallion	9
Pasture land Developed	861 Acres
Fodder tree seedling distributed	89590 Nos.

6.1 Livestock farms, dispensaries and Veterinary Institutions - 1985-86.

No. of carp fingerlings produced	43210 Nos.
No. of natural services provided through bulls	4036 Nos.
Progeny born (a) Bulls	2174 Nos.
(b) Stallions	233 Nos.
Artificial insemination performed	687 Nos.
Eggs produced at the farm and sold	4210000 Nos.
Milk produced at the Government farms and sold	284189 Litres
Pork produced and sold at Government farms	88 MT
Chicken produced and sold at Government farms	32000 Nos.

6.2 National Cattle Population under various Dzongkhag

Dzongkhag	1981	1982	1983	1984	1985	%
Chirang	21227	22500	23867	25281	26798	7.71
Dagana	9398	9962	10567	11193	11865	3.42
Gasa	880	933	990	1049	1112	.32
Gaylegphug	27620	29277	31055	32895	34869	10.04
Haa	6389	6773	7184	7610	8066	2.32
Jakar	6170	6540	6937	7348	7789	2.24
Lhuntshi	12938	13714	14547	15409	16334	4.70
Mongar	21987	23306	24722	26187	27758	7.99
Paro	16553	17546	18612	19715	20898	6.02
Pemagatshel	6339	6719	7127	7549	8002	2.30
Punakha	5150	5458	5790	6133	6501	1.87
Samchi	37763	40029	42460	44976	47675	13.72
S/Jongkhar	16469	17457	18517	19614	20791	5.99
Shemgang	11387	12070	12803	13562	14375	4.14
Tashigang	38221	40514	42975	45522	48253	13.89
Thimphu	11520	12211	12953	13721	14544	4.19
Tongsa	9740	10324	10951	11600	12296	3.54
Wangdi	15408	16332	17324	18351	19452	5.60
Total	275157	291666	309381	327716	347379	100.00

Source : Based on Livestock Census - 1983

6.3 National Yak Population of Bhutan

Dzongkhag	1981	1982	1983	1984	1985	%
Chirang	—	—	—	—	—	—
Dagana	—	—	—	—	—	—
Gasa	2508	2567	2609	2661	2714	8.68
Gaylegphug	—	—	—	—	—	—
Haa	4106	4202	4272	4357	4445	14.21
Jakar	2189	2240	2277	2323	2369	7.58
Lhuntshi	—	—	—	—	—	—
Mongar	—	—	—	—	—	—
Paro	2794	2860	2907	2965	3025	9.67
Pemagatshel	—	—	—	—	—	—
Punakha	—	—	—	—	—	—
Samchi	—	—	—	—	—	—
S/Jongkhar	38	39	40	41	42	.13
Shemgang	—	—	—	—	—	—
Tashigang	6388	6537	6646	6778	6914	22.11
Thimphu	8543	8744	8888	9066	9247	29.57
Tongsa	256	262	266	271	277	.89
Wangdi	2069	2117	2152	2195	2239	7.16
Total	28890	29568	30057	30658	31271	100.00

6.4 National Sheep/Goat Population of Bhutan

Dzongkhag	1981	1982	1983	1984	1985	%
Chirang	1855	2189	2583	3048	3597	6.88
Dagana	528	623	735	867	1023	1.96
Gasa	3	3	4	5	6	.01
Gaylegphug	1439	1698	2004	2365	2790	5.34
Haa	34	40	47	55	65	.13
Jakar	3239	3822	4510	5322	6280	12.01
Lhuntshi	8	9	11	13	15	.03
Mongar	41	48	57	67	79	.15
Paro	193	228	269	317	375	.72
Pemagatshel	0	0	0	0	0	.00
Punakha	5	6	7	8	10	.02
Samchi	2896	3418	4033	4759	5616	10.74
S/Jongkhar	257	303	358	422	498	.95
Shemgang	0	0	0	0	0	.00
Tashigang	5671	6691	7896	9317	10995	21.03
Thimphu	1102	1300	1534	1810	2136	4.09
Tongsa	3436	4054	4784	5645	6661	12.74
Wangdi	6260	7386	8716	10285	12136	23.21
Total	26966	31820	37548	44307	52283	100.00

N.B. : Some Ommission

6.5 National Poultry Population of Bhutan

Dzongkhag	1981	1982	1983	1984	1985	%
Chirang	14334	14930	15552	16200	16875	9.40
Dagana	10761	11209	11676	12163	12669	7.06
Gasa	360	375	391	407	424	.24
Gaylegphug	22781	23729	24718	25748	26820	14.94
Haa	2044	2129	2218	2310	2407	1.34
Jakar	1536	1600	1667	1736	1809	1.01
Lhuntshi	5537	5768	6008	6258	6519	3.63
Mongar	10556	10995	11453	11930	12427	6.92
Paro	6074	6326	6590	6865	7150	3.98
Pemagatshel	3792	3949	4114	4285	4464	2.49
Punakha	2489	2593	2701	2814	2931	1.63
Samchi	21988	22903	23857	24851	25886	14.42
S/Jongkhar	9406	9797	10205	10630	11073	6.17
Shemgang	3923	4086	4256	4433	4618	2.57
Tashigang	22333	23262	24231	25241	26292	14.65
Thimphu	6637	6913	7201	7501	7813	4.35
Tongsa	3039	3165	3297	3434	3577	1.99
Wangdi	4899	5102	5315	5536	5767	3.21
Total	152488	158832	165450	172344	179521	100.00

6.6 National Pigs Population of Bhutan

Dzongkhag	1981	1982	1983	1984	1985	%
Chirang	1864	1901	1939	1978	2017	3.36
Dagana	1948	1987	2027	2068	2109	3.51
Gasa	153	156	159	162	165	.28
Gaylegphug	2977	3036	3097	3159	3222	5.36
Haa	1777	1813	1849	1886	1924	3.20
Jakar	37	38	39	40	41	.07
Lhuntshi	1835	1872	1909	1947	1986	3.31
Mongar	3751	3826	3903	3981	4061	6.76
Paro	5942	6061	6182	6306	6432	10.71
Pemagatshel	1834	1871	1908	1946	1985	3.30
Punakha	1879	1917	1955	1994	2034	3.39
Samchi	2345	2392	2440	2489	2539	4.23
S/Jongkhar	2942	3001	3061	3122	3185	5.30
Shemgang	1094	1116	1138	1161	1184	1.97
Tashigang	15427	15735	16050	16372	16700	27.80
Thimphu	4165	4248	4333	4420	4508	7.50
Tongsa	547	558	569	580	592	.99
Wangdi	4983	5082	5184	5288	5394	8.98
Total	55500	56610	57742	58900	60079	100.00

6.7 Annual Estimate of the Livestock Production 1984

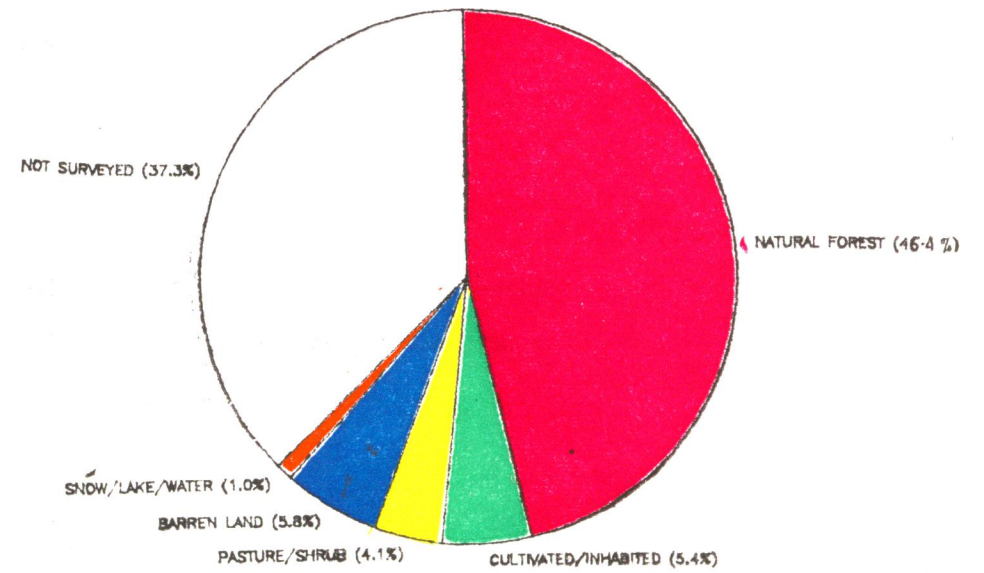
Dzongkhag	Milk Production (Kg)	Butter (Kg)	Cheese (Kg)	Pork (Kg)	Eggs (Nos)	Beef (Kg)
Chirang	2272855.0	114026.0	133784.7	28981.0	289810.0	108003.5
Dagana	1026599.0	63291.0	74070.7	32996.0	270100.0	
Gasa	1038571.0	68401.0	82441.3	4015.0	20075.0	
Gaylegphug	2338372.5	105266.0	125754.7	52998.0	620135.0	3010191.5
Haa	655686.0	37923.5	34164.0	30003.0	100010.0	
Jakar	634990.5	40259.5	50078.0		40150.0	6351.0
Lhuntshi	996778.5	63692.5	76747.3	28981.0	100010.0	
Mongar	1291078.0	82782.0	100642.7	52012.5	509905.0	
Paro	2248655.5	131728.5	155976.7	110996.5	409895.0	
Pemagatshel	483880.5	27192.5	226981.3	72014.5	200020.0	
Punakha	236483.5	15439.5	30076.0	30003.0	59860.0	
Samchi	5629212.5	241885.5	475376.0	42011.5	309885.0	115741.5
S/Jongkhar	1604321.0	95557.0	32412.0	52012.5	329960.0	
Shemgang	1121973.5	71138.5	84242.0	15987.0	209875.0	
Tashigang	4583560.5	297621.0	379356.7	279006.0	950095.0	1310058.0
Thimphu	2259970.5	128808.5	171306.7	68985.0	200020.0	68839.0
Tongsa	489903.0	32010.5	98014.7	5000.5	200020.0	96798.0
Wangdi	1310167.5	87490.5	104536.0	83001.0	170090.0	
TOTAL :-	30223058.5	1704513.5	2435961.3	989004.0	4989915.0	4715982.5

7.1 : Area Statistics on land use -1983.

Type of land use	Area in Sq. Km.	%
Natural Forest	21593	46.44
Cultivated or Inhabited	2492	5.36
Alpine pasture or shrub	1924	4.14
Barren land	2702	5.81
Area under Snow, Lake & Water	465	1.00
Area not yet surveyed	17324	37.26
Total	46500	100.00

Source : Pre Investment Survey of Forest 1974-1979.

7.1(a) AREA STATISTICS ON LAND USE



7.1 Area Statistics on Land use and Natural vegetation - 1983.

Land and vegetation types.	Percentage
(a) Non forested.	
Perpetual snow/glaciers	10.0
Barren exposed and rocky area (above 3500 m)	8.6
Barren land, grassland and scrubs (below 3500 m)	0.7
Water spreads	1.3
Agriculture land including settlement and orchard.	
- Valley cultivation	1.6
- Terraced cultivation	4.4
- Old shifting cultivation (Tsheri)	2.8
Sub Total:	29.4
(b) Forested	
- Alpine pasture/meadows	1.9
- Alpine scrub (Rhododendron, Juniper scrubs)	4.7
Sub Total:	6.6
(c) With Tree Coverage.	
- Fir	7.3
- Mixed conifer	12.1
- Blue pine	1.9
- Chir pine	3.2
- Hardwood mixed with conifers	5.5
- Upland hardwood (Temperate)	21.7
- Lowland hardwood (Tropical & sub tropical)	8.7
- Degraded forest	3.5
- Plantations	0.1
Sub Total:	64.0
Grand Total:	100.0

7.2 Dzongkhag-wise percentage distribution of Geographical areas.

Dzongkhag	Area in Percentage
Bumthang	7.45
Chirang	2.21
Dagana	2.31
Gasa	12.47
Gaylegphug	4.70
Haa	4.30
Lhuntshi	7.20
Mongar	4.77
Paro	5.29
Pemagatshel	1.22
Samchi	4.85
Samdrup Jongkhar	5.34
Shemgang	6.01
Tashigang	10.11
Tongsa	4.35
Wangdiphodrang	10.56
Thimphu } Punakha }	6.86
Total	100.00

SECTION 8.1 NUMBER OF LARGE, MEDIUM AND COTTAGE INDUSTRIES - 1985.

Type of Industry	Distance in Km.			Total
	Large	Medium	Small/ Cottage	
Distilleries	3	-	-	3
Cement Plants	1	-	-	1
Gunny Bags	-	-	1	1
Deki Polythene Pipe	-	1	-	1
Bhutan Brick Corporation	-	3	-	3
Mining	-	3	8	11
Sugar Factory and Crushing Unit	-	1	1	2
Food Processing Unit	-	-	13	13
Oil Mills	-	-	11	11
Roofing tiles	-	-	1	1
Printing Press	-	-	2	2
Iodisation Salt Plant	-	1	-	1
Steel Furniture Factory	-	2	-	2
Matha Allied Products	-	-	3	3
Tarpauline Factory	-	2	-	2
Knitting Unit, warm Winter Industry and Matha Factory	-	-	4	4
Gedu Wood Manufacturing Unit	1	1	1	2
Leather Goods Manufacture	-	-	2	2
Barbed wire unit	-	-	2	2
Incense Stick Making Unit	-	-	2	2
Coal Briqueting and Rosin turpentine	1	-	1	2
Pottery Manufacturing	-	-	1	1
Auto-Mobile Workshop and Related Activities	-	-	10	10
Forest-based Industries	1	-	36	37
Soap and candle Factory	-	-	2	2
Total	7	14	101	122

SECTION 9.1 ROAD TRANSPORT AND COMMUNICATIONS-1985.

Location of Road	Distance in Km.		
	Black Topped	Non-Black Topped	Total
Phuntsholing-Thimphu	179	-	179
Chuzom-Paro	27	-	27
Chuzom-Haa	79	-	79
Simtokha-Wangdiphodrang	65	-	65
Haa-Damthang	14	-	14
Paro-Drugyal Dzong	14	-	14
Thimphu-Dechencholing	8	-	8
Gaylegphug-Sarbhang	31	-	31
Gaylegphug-Shemgang	133	-	133
Shemgang-Tongsa	122	-	122
Samdrup Jongkhar-Tsahigang	180	-	180
Wangdi-Tongsa	-	180	180
Tongsa-Bumthang	-	81	81
Bumthang-Mongar	-	150	150
Mongar-Tashigang	95	-	95
Tashigang-Ridu	-	4	4
Sarbhang-Chirang	64	-	64
Duksum-Tashiyangtshi	-	29	29
Mongar-Lhuntshi	-	60	60
Tshelingkhore-Pemagatshel	-	24	24
Chazam-Duksum	-	15	15
Lamidara-Dhupi	11	-	11
Damphu-Lapsibotey	11	-	11
Riju-Rangang	13	-	13

SECTION 9.1 ROAD TRANSPORT AND COMMUNICATIONS-1985.

Location of Road	Distance in Km.		
	Black topped	Non-Black topped	Total
Chisopani-Jungkhurung	—	15	15
Shali-Changkherla	—	8.5	8.5
Gidakom-Leprosy Hospital	3	—	3
Main road-Bonde farm, Paro	1.5	—	1.5
Okhaldunga-Bhangtar	5	—	5
Border-Kalikhola	2.5	—	2.5
Putlibhir-Tala	—	7	7
Jakar-Kurjey	—	7	7
Main road-Tatopani, Gaylegphug	—	10	10
Gathiya T.E.-Ghumauney	—	3	3
Jitti T.E.-Chargharey	—	3	3
Caroon T.E.-Nainatal	—	2	2
Border-Chengmari	—	2.5	2.5
Jitti T.E.-Sibsoo	—	12	12
Missina-Punakha	12.4	—	12.4
Wochu-Chilaila	—	40	40
Nobding-Gontegompa	—	20	20
Begana road at Thimphu	—	11.7	11.7

9.2 Road Building Net Works and Suspension Bridges.

- (a) 1981-2050 Km
- (b) 1987 - 2602 Km
- (c) 1991 - 3352 Km
- (d) Suspension bridges (IVth and Vth Plan) - 202 Nos.

SECTION 10.1 NUMBER OF REGISTERED VEHICLES (1982-85)

Year	Cars		Four wheel Drive		Trucks		Buses		Scooter		Total
	Govt.	Private	Govt.	Private	Govt.	Private	Govt.	Private	Govt.	Private	
1982	420	247	597	287	196	397	113	—	118	503	2878
1983	353	224	580	299	213	414	87	—	122	677	2969
1984	487	340	717	395	247	330	87	—	130	938	3671
1985	422	294	582	289	247	506	111	25	147	1010	3633

10.2 Number of Licensed Drivers.

Year	Light Vehicle		Heavy Vehicle		Accidents
	Male	Female	Male	Total	
1970	147	—	60	207	—
1971	165	—	83	248	—
1972	265	1	175	441	—
1973	199	1	83	283	—
1974	256	5	88	349	—
1975	323	2	83	408	—
1976	353	6	69	428	—
1977	292	1	59	352	—
1978	197	8	37	242	—
1979	202	3	33	238	87
1980	196	9	34	239	140
1981	133	11	22	166	140
1982	117	12	28	157	130
1983	220	18	47	285	161
1984	335	26	35	396	131
1985	335	32	33	420	188

SECTION 11.1 NUMBER OF TELEPHONES IN BHUTAN

Place	1980	1981	1982	1983	1984	1985
Thimphu	460	600	700	900	900	900
Phuntsholing	200	400	400	400	400	400
Gaylegphug	100	100	100	100	100	100
Chimakothi	50	50	50	50	50	50
Haa	20	20	20	20	20	20
Punakha	50	50	50	50	50	50
Samchi	50	50	50	50	50	50
Samdrup Jongkhar	50	50	50	50	50	50
Sarbhang	50	50	50	50	50	50
Tashigang	35	35	35	35	35	35
Tongsa	25	25	25	25	25	25
Wangdiphodrang	50	50	50	50	50	50
Paro	—	—	—	—	100	100
Total	1140	1480	1580	1780	1880	1880

11.2 Number of Trunk Lines - 1985.

Place		Distance in Km.
From	To	
Thimphu	Phuntsholing	130
Thimphu	Wangdiphodrang	45
Thimphu	Punakha	60
Thimphu	Paro	54
Wangdiphodrang	Punakha	15
Paro	Phuntsholing	124
Paro	Haa	18
Thimphu	Chimakothi	65
Samdrup Jongkhar	Tashigang	130
Gaylegphug	Tongsa	200
Gaylegphug	Sarbhang	23
Phuntsholing	Chimakothi	65
Samchi	Banarhat	14

11.3 Domestic and International Telephones and Telegrams Services -1985.

Type of Calls	Sent out	Received
International calls	27000	24000
Domestic calls	120000	108000
International Telegrams	36000	34800
Domestic Telegrams	9600	7200

11.4 Number of Wireless and Hydromet station with locations - 1985.

Wireless stations		Hydromet stations
Thimphu	Gongkhola	Chukha
Lingshi	Bardho	Wangdiphodrang
Phuntsholing	Panbang	Dorokha Bridge
Samchi	Samdrupjongkhar	Dubani
Gedu	Bhangtar	Jakar
Gomtu	Daifam	Mangdichu
Dorokha village	Nanglam	Tashigang
Sibsoo	Shumar	Kurizampa
Gaylegphug	Gasa	
Kalikhola	Lunana	
Sarbhang	Tashigang	
Lodrai	Merasakten	
Manas	Tashiyangtshi	
Tongsa	Mongar	
Damphu	Lhuntshi	
Daga Dzong	Paro	
Dagapela	New Delhi (India)	
Shemgang	Dhaka (Bangladesh)	
Total	36	8

11.5 Rainfall Data

Region/Place	Rainfall in Milimeter				
	1981	1982	1983	1984	1985
Western Bhutan					
Chukha	539.9	1392.5	1364.0	1318.7	1632.1
Dagana	—	1094.0	72.8	60.9	1268.2
Paro	—	408.7	260.4	423.1	400.9
Thimphu	138.0	494.5	123.6	19.7	914.2
Wangdiphodrang	217.3	487.4	72.9	605.2	749.9
Central Bhutan					
Mangdechu	—	1132.0	1244.2	1491.9	1390.8
Shemgang	485.5	1514.2	1540.0	2450.4	1929.3
Tongsa	316.3	657.7	715.1	1144.6	1224.4
Eastern Bhutan					
Samdrup Jongkhar	—	2903.7	1348.5	3306.5	2768.5
Tashigang	282.3	771.6	612.2	695.5	719.0
Kurizampa	221.1	183.6	—	—	283.9
Southern Bhutan					
Dagapela	—	1050.3	75.2	1685.1	1611.5
Damphu	1295.7	1869.2	1779.5	2495.3	2816.6
Dubani	—	1140.9	1140.0	1419.9	1489.8
Dorokha Village	—	2203.6	2047.5	3007.3	2256.3
Dorokha Bridge	—	2333.5	2606.9	3075.7	1569.0
Gomtu	1396.6	3314.7	3664.5	4469.8	4554.2
Phuntsholing	1630.1	3530.5	4318.1	2006.1	4497.9
Sarbhang	2805.4	4173.4	2707.2	2504.1	3533.5
Sibsoo	1016.7	3205.3	2904.7	611.6	2465.9

12.2 Mail Statistics for all Post Offices.

ed and paid by Post Offices -

Mail	Domestic ('000)		Key (000)	Foreign Money Order (Nu. in '000)	
	1984	1985		Booked	Paid
Ordinary letters	9632.2	5954.6			
Registered letters	341.9	302.2	75.286	21.989	0.500
Parcels	36.3	26.0	316.452	103.984	5.630
Aerogrammes	—	—	19.584	3.093	0.418
Post Cards	96.1	130.4	342.083	466.750	12.803
Printed matter	77.7	101.1	21.931	17.961	—
			42.594	3.876	0.200
			79.093	28.443	1.850
			97.204	65.225	2.215
			32.844	56.070	1.720
			47.315	116.459	2.710
			60.910	49.250	0.075
			102.750	349.502	70.962
			396.624	28.434	1.070
			205.642	108.147	14.824
			429.503	146.781	5.340
			75.221	12.932	0.810
			463.509	2949.272	56.363
			208.848	34.519	0.033
			7829.393	4562.687	177.523

11.5 Rainfall Data

Region/Place	Rainfall in Milimeter				
	1981	1982	1983	1984	1985
Western Bhutan					
Chukha	539.9	1392.5	1364.0	1318.7	1632.1
Dagana	—	1094.0	72.8	60.9	1268.2
Paro	—	408.7	260.4	423.1	400.9
Thimphu	138.0	494.5	123.6	19.7	914.2
Wangdiphodrang	217.3	487.4	72.9	605.2	749.9
Central Bhutan					
Mangdechu	—	1132.0	1244.2	1491.9	1390.8
Shemgang	485.5	1514.2	1540.0	2450.4	1929.3
Tongsa	316.3	657.7	715.1	1144.6	1224.4
Eastern Bhutan					
Samdrup Jongkhar	—	2903.7	1348.5	3306.5	2768.5
Tashigang	282.3	771.6	612.2	695.5	719.0
Kurizampa	221.1	183.6	—	—	283.9
Southern Bhutan					
Dagapela	—	1050.3	75.2	1685.1	1611.5
Damphu	1295.7	1869.2	1779.5	2495.3	2816.6
Dubani	—	1140.9	1140.0	1419.9	1489.8
Dorokha Village	—	2203.6	2047.5	3007.3	2256.3
Dorokha Bridge	—	2333.5	2606.9	3075.7	1569.0
Gomtu	1396.6	3314.7	3664.5	4469.8	4554.2
Phuntsholing	1630.1	3530.5	4318.1	2006.1	4497.9
Sarbhong	2805.4	4173.4	2707.2	2504.1	3533.5
Sibsoo	1016.7	3205.3	2904.7	611.6	2465.9

SECTION 12-POSTS AND TELEGRAPHS

12.1 Posts and Telegraphs - 1985.

Dzongkhag	Post Offices	Branch Post Offices	Telegraph Offices
Bumthang	1	3	—
Chirang	4	1	—
Dagana	2	—	—
Gasa	1	—	—
Gayleghug	4	2	—
Haa	1	—	—
Lhuntshi	1	1	—
Mongar	1	3	—
Punakha	1	—	1
Paro	2	—	1
Pema Gatshel	1	1	—
Samchi	12	1	2
Samdrup Jongkhar	7	3	1
Shemgang	1	3	—
Tashigang	8	4	1
Tongsa	1	—	—
Thimphu	6	2	2
Wangdiphodrang	1	5	1
Total	55	29	9

12.2 Mail Statistics for all Post Offices.

Mail	Domestic ('000)		Neighbouring ('000)		Other International ('000)		Total ('000)	
	1984	1985	1984	1985	1984	1985	1984	1985
	Ordinary letters	9632.2	5954.6	6121.4	3754.6	1724.2	457.1	17477.8	10166.3
Registered letters	341.9	302.2	195.0	256.2	26.4	78.4	563.3	636.8
Parcels	36.3	26.0	11.0	14.0	3.4	5.5	50.7	45.5
Aerogrammes	—	—	—	—	124.1	125.9	124.1	125.9
Post Cards	96.1	130.4	135.9	121.3	50.2	53.8	282.2	305.5
Printed matter	77.7	101.1	103.0	64.4	21.7	37.0	202.4	202.5

12.3 Inland and Foreign Money Orders booked and paid by Post Offices - 1985.

Dzongkhag	Inland Money Order (Nu. in '000)		Foreign Money Order (Nu. in '000)	
	Booked	Paid	Booked	Paid
	Bumthang	48.542	75.286	21.989	0.500
Chirang	1033.886	316.452	103.984	5.630
Dagana	201.702	19.584	3.093	0.418
Gaylegphug	401.276	342.083	466.750	12.803
Gasa	51.073	21.931	17.961	—
Haa	123.845	42.594	3.876	0.200
Lhuntshi	298.687	79.093	28.443	1.850
Mongar	102.592	97.204	65.225	2.215
Punakha	35.832	32.844	56.070	1.720
Paro	85.208	47.315	116.459	2.710
Pema Gatshel	262.632	60.910	49.250	0.075
Samchi	1837.613	5102.750	349.502	70.962
Shemgang	476.192	396.624	28.434	1.070
Samdrup Jongkhar	670.091	205.642	108.147	14.824
Tashigang	353.388	429.503	146.781	5.340
Tongsa	17.594	75.221	12.932	0.810
Thimphu	2595.598	463.509	2949.272	56.363
Wangdiphodrang	125.541	208.848	34.519	0.033
Total	8721.272	7829.393	4562.687	177.523

Source : Posts, Telegraphs and Civil Wireless.

SECTION 13 - ENERGY STATISTICS-1982-85.

Particulars	Year			
	1982	1983	1984	1985
No. of Hydel Station (Hydro)	6	6	6	6
No. of Diesel Generating Station	7	8	8	8
Installed Capacity (MW)				
(a) Hydro	3.45	3.45	3.45	3.45
(b) Diesel	3.05	4.44	4.44	4.44
Consumption of Fuel (Million litre)				
(a) Diesel Oil	—	—	279479	1259583
(b) Auxiliary Oil	—	—	0.01	0.19
Purchase of energy (GWH)				
(a) From WBSEB	2.65	3.02	3.02	2.89
(b) From ASEB	1.86	1.88	1.88	2.11
System Demand (MW)	—	—	5.34	6.47
Auxiliaries consumption (GWH)	0.32	0.35	0.35	0.28
Energy requirement (GWH)	14.06	14.81	14.81	15.95
Sale of Energy (GWH)	9.39	10.75	10.74	10.78
Loss of Energy (GWH)	4.67	4.06	4.06	3.79
Loss in % of requirement	34.50	27.40	27.40	23.73
Load factor	35.20	32.00	32.00	25.00
Total consumers	8695	9262	9262	9750
Heavy Transmission line	313.72	315.60	315.60	315.60
High Transmission line	318.03	342.68	342.68	386.68
Generation of energy per KW of installed capacity (KWH)	1518.00	1301.60	1301.60	974.80
Per capita consumption (KW)	7.62	8.74	8.74	8.76
No. of Dzongkhag electrified	10	11	11	11
No. of village electrified	92	93	93	95
No. of Town electrified	22	23	23	23

13.2 Energy generation and fuel consumption by type of station.

Particulars Unit	Hydro			Diesel		
	1983	1984	1985	1983	1984	1985
Peak Load (KW)	2143	2143	2149	2315556	2316	3553
Energy Generated (KWH)	7946302	7946302	7366193	23264254	23265254	3309037
Auxiliaries (KWH)	228278	228278	189947	1220833	122083	90898
Fuel consumption (Liter)				845636	845636	1259583
Fuel per KWH (Liter)				1132	1132	199

13.3 Details of sale of energy to different consumers in 1983-85.

Category of Consumer	Energy Sold in '000 KWH		
	1983	1984	1985
Domestic	4152.34	4152.34	3149.92
Commercial Govt.	3267.07	3267.07	3888.53
Industrial	1307.61	1307.61	1589.73
Bulk supply	1954.54	1954.54	2055.44
Public Lighting	56.28	56.28	94.75
Total Sale	10737.8	10737.8	10778.4

SECTION 14 - TOURISM STATISTICS

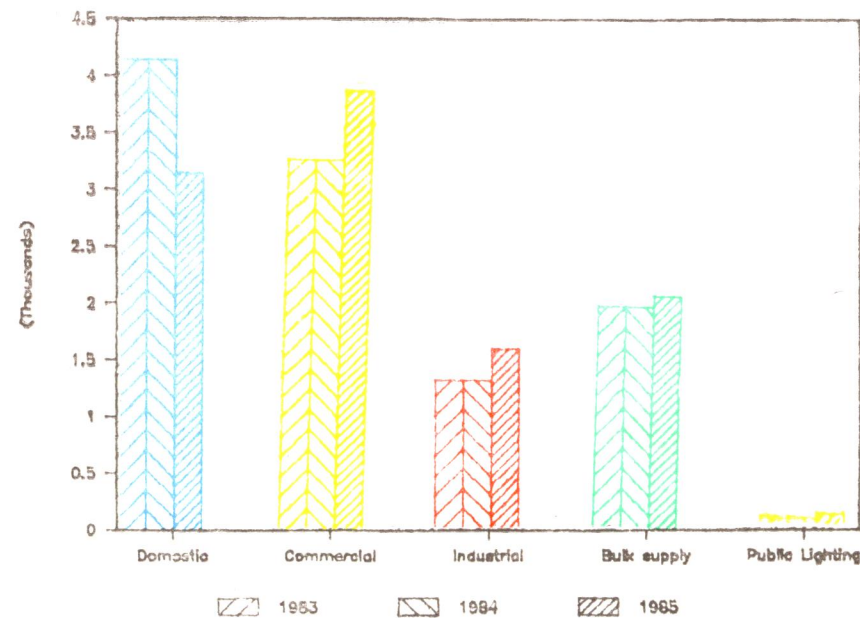
14.1 Hotels with number of rooms and beds.

Name of Hotels	Rooms	Beds
Olathang	56	112
Kharbandi	25	50
Bhutan Hotel	22	44
Motithang	35	70
Tongsa lodge	15	30
Bumthang lodge	12	24
Manas lodge	10	20
Druk Hotel	15	35
Jomolhari	27	54
Tak Tshang	15	30
Total :-	232	469

14.2 Yearwise Tourist arrival and revenue earned.

Year	Tourist arrived	Revenue earning Nu. in million
1979/80	1621	12.073
1980/81	1406	9.284
1981/82	1325	12.604
1982/83	2009	18.930
1983/	1469	17.800
1984	1900	19.824
1985	1896	20.925

13.3(a) Sales of Energy to Different Consumers.



SECTION 15 - PLAN EXPENDITURES

15.1 Outlays for Five Year Plans

(Nu. in Millions)

Sectors	First plan 1961-66 Outlay	%	Second plan 1966-71 Outlay	%
Agriculture	1.9	1.8	21.6	10.7
Animal Husbandry	1.5	1.4	5.8	2.9
Forestry	3.2	3.0	6.9	3.4
Power	1.5	1.4	9.1	4.5
Industries and Mines	1.1	1.0	1.0	.5
Public Works Department	62.9	58.7	70.5	34.9
Road Transport/Aviation	7.5	7.0	12.0	5.9
Post and Telegraphs	.5	.5	5.9	2.9
Communications				
Tourism				
Education	9.4	8.8	35.7	17.7
Health	3.1	2.9	16.7	8.2
Information & Publications			1.4	.7
Headquarters	3.5	3.3	8.8	4.4
Miscellaneous	10.9	10.1	6.8	3.4
Total :-	107.2	100.0	202.2	100.0

SECTION 15 - PLAN EXPENDITURES

15.1 Outlays for Five Year Plans

(Nu. in Millions)

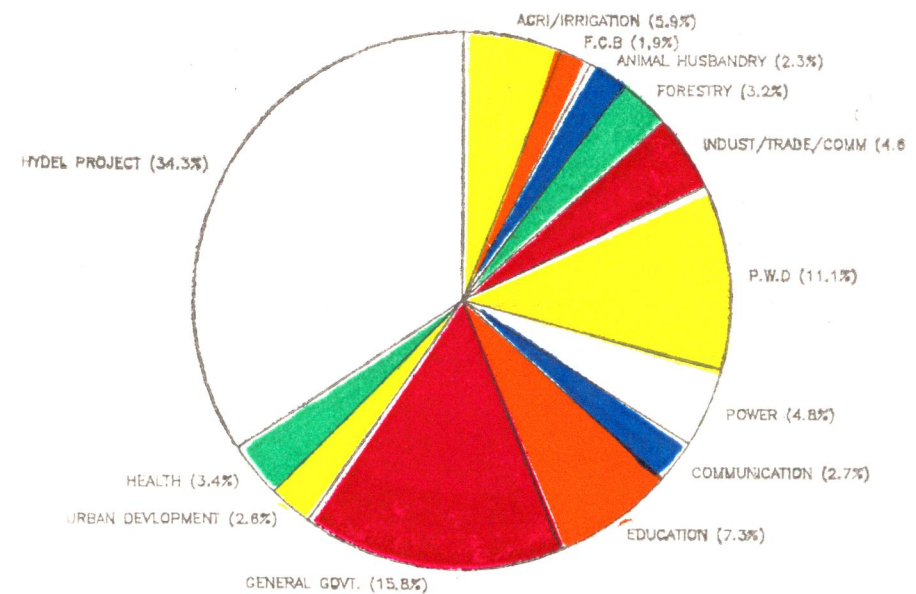
Sectors	Third plan 1971-76 Outlay	%	Fourth plan 1976-81 Outlay	%
Agriculture	58.3	12.3	259.0	23.4
Animal Husbandry	24.2	5.1	61.5	5.6
Forestry	28.4	6.0	110.3	10.0
Power	30.1	6.3	50.5	4.6
Industries and Mines	25.2	5.3	175.0	15.8
Public Works Department	84.6	17.8	128.3	11.6
Road Transport/Aviation	9.5	2.0		
Post and Telegraphs	11.4	2.4	16.9	1.5
Communications	14.8	3.1	37.3	3.4
Tourism	14.1	3.0	12.5	1.1
Education	90.0	18.9	134.6	12.2
Health	38.1	8.0	54.6	4.9
Information & Publications	4.0	.9	11.0	1.0
Headquarters	16.3	3.4	34.3	3.1
Miscellaneous	26.1	5.5	20.3	1.8
Total	475.2	100.0	1106.2	100.0

15.2 Outlays for Five Year Plans

(Nu. in Millions)

Sectors	Fifth Plan Outlay	%
Agriculture & Irrigation	419.42	5.93
F.C.B.	135.50	1.91
Animal Husbandry	162.40	2.29
Forestry	229.90	3.25
Industry, Trade & Commerce	323.30	4.57
Public Works Department	787.50	11.13
Power	340.50	4.81
B.G.T.S.	16.50	.23
Tourism	29.10	.41
Civil Aviation	9.80	.14
Telephones	33.70	.48
Post, Telegraphs & Wireless	65.80	.93
Information & Broadcasting (DSCD)	36.10	.51
Education	519.10	7.33
Health	237.50	3.36
Urban Development	187.30	2.65
General Govt.	1114.90	15.75
Chukha Hydel Project	2430.00	34.33
Total	7078.32	100.00

15.2(a) OUTLAYS FOR FIFTH PLAN



15.3 : Fifth Plan, Financial Resources

(Millions)

	Nu.	Per cent
Internal Revenue	1443.00	20
Government of India including CHP	4324.12	61
Other (Bilateral, UN System, Multi and NGOS)	1311.20	19
Total	7078.32	100

* Plan Expenditures

(a) Maintenance	1421.80	31
(b) Development	3226.50	69

Total	4648.30	100
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* Excluding CHP

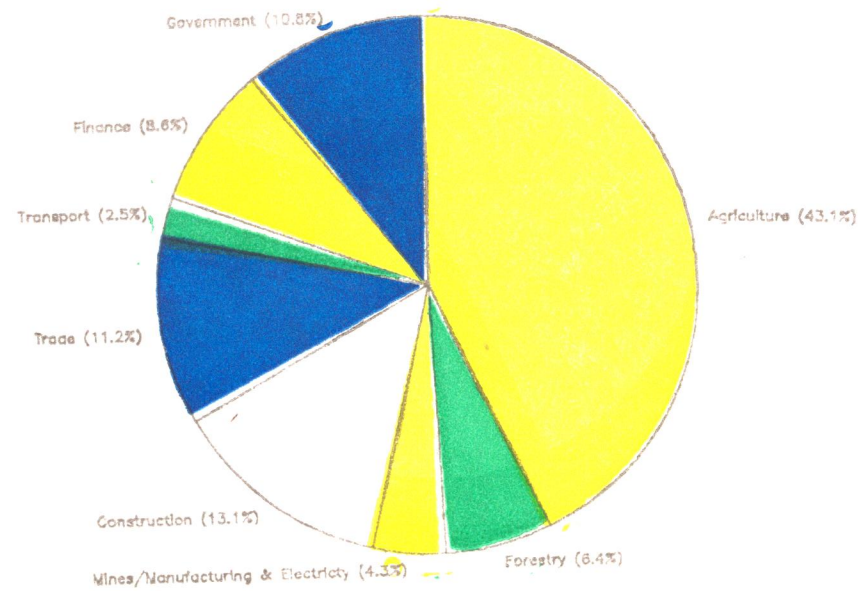
SECTION 16 : NATIONAL ACCOUNTS STATISTICS

16.1 : Gross Domestic Product by kind of activity at current Prices.

(Nu. in Millions)

Activity	1981	1982	1983	1984
Agriculture	555.4	647.5	769.6	884.3
Forestry	68.6	116.8	127.9	131.9
Mining	4.0	6.2	4.7	6.7
Manufacturing	48.1	52.2	69.2	79.1
Electricity	1.1	3.0	3.1	3.2
Construction	168.8	229.3	261.4	268.5
Whole sale & Retail trade Hotels & Restaurants	151.2	174.7	200.7	230.7
Transport	32.2	36.8	44.1	50.3
Financing, Insurance and Real Estate	136.7	145.3	156.7	175.5
Government Services	151.4	177.4	196.9	221.1
Less : Imputed Bank Services charges	-26.9	-29.9	-30.2	-38.5
Total Gross Domestic Product	1290.6	1559.3	1804.1	2012.8
Per Capita G D P.	1075.0	1299.0	1503.0	1677.0

16.1(a) GDP at Current Prices

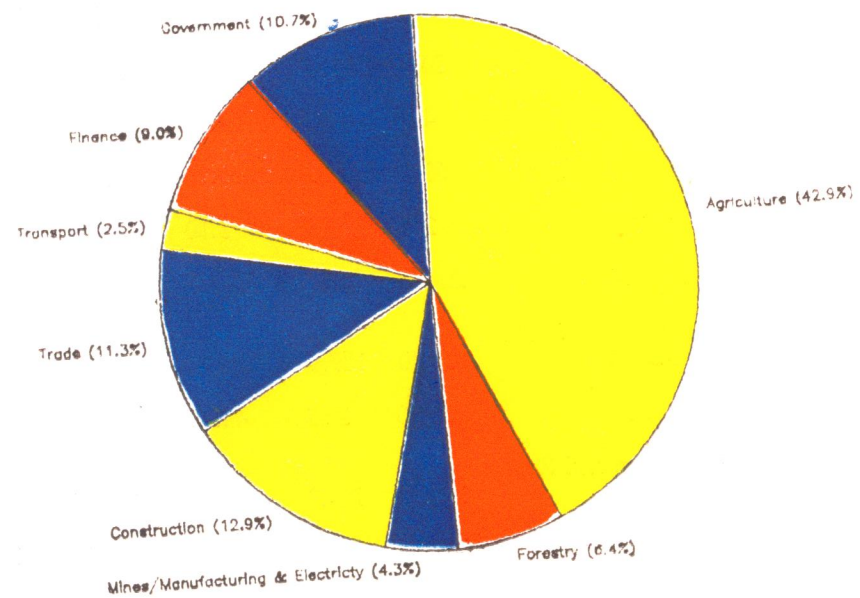


16.2 Gross Domestic Product by kind of activity in constant Prices.

(Nu. in Millions)

Activity	1981	1982	1983	1984	Annual Growth Rate
Agriculture	670.00	709.5	769.60	808.20	6.5
Forestry	80.70	127.3	127.90	121.10	14.5
Mining	4.20	6.5	4.70	6.30	14.5
Manufacturing	60.50	59.6	69.20	72.50	6.2
Electricity	2.50	2.7	3.10	3.10	7.4
Construction	204.30	252.3	261.40	244.00	6.1
Whole sale & Retail trade Hotels & Restaurants	177.90	189.6	200.70	212.70	6.1
Transport	37.90	39.9	44.10	46.30	6.9
Financing, Insurance and Real Estate	147.10	151.3	156.70	170.00	4.9
Government Services	183.20	195.1	196.90	201.00	3.1
Less : Imputed Bank Services charges	-32.90	-32.9	-30.20	-35.00	
Total Gross Domestic Product	1535.40	1700.9	1804.10	1850.20	6.4

16.2(c) GDP at Constant Prices

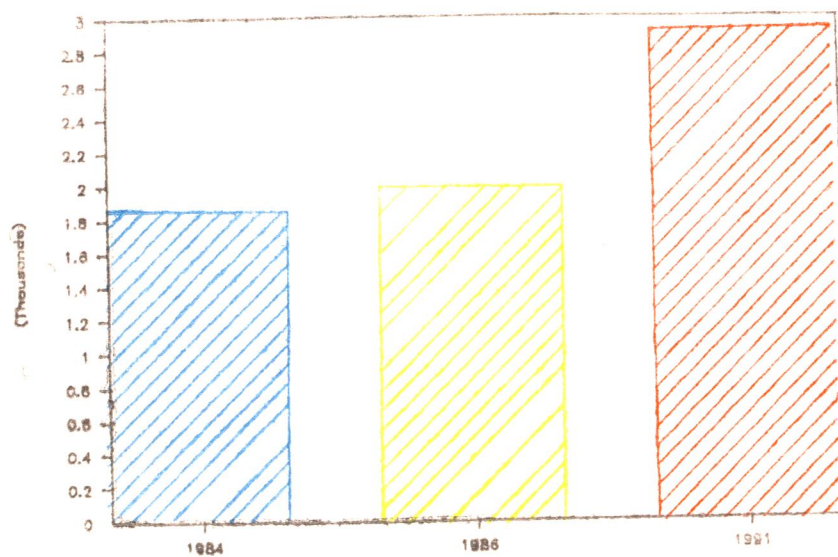


16.3 : Gross Domestic Product forecast at constant (1984-1991)

(Nu. in Millions)

Activity	1984	1986	1991	Growth Rate %
Agriculture	808.20	882.6	1099.90	4.5
Forestry	121.10	131.0	159.40	4.0
Mining & Manufacturing	78.80	86.9	203.90	14.5
Electricity	3.10	80.0	323.0	94.2
Construction	244.00	170.0	255.00	.6
Trade etc.	212.70	241.3	330.60	6.5
Transport	46.30	52.5	72.00	6.5
Finance, Real Estate etc.	170.00	192.8	264.20	6.5
Government Services	201.00	221.6	282.80	5.0
Less : Imputed Bank Charges	-35.00	-38.6	-49.30	
Total Gross Domestic Product	1850.20	2020.1	2941.50	6.8

16.3 (a) GDP Forecast at Constant Prices 1984-1991



16.4 Estimation of Export and Import Statistics 1980/81 to 1984/85

(Nu. in Million)

	1980/81	1981/82	1982/83	1983/84	1984/85
India					
Exports (fob)	130.0	166.2	157.0	157.2	173.0
Import (cif)	-359.9	-520.6	-546.5	-693.9	-725.0
Trade Balance	-229.9	-354.4	-389.5	-536.7	-552.0
Other countries					
Export (fob)	1.5	5.5	2.4	3.5	6.4
Import (cif)	-34.6	-65.3	-100.0	-129.4	-100.2
Trade Balance	-33.1	-59.8	-97.6	-125.9	-93.8
Total Trade					
Export (fob)	131.5	171.7	159.4	160.7	180.4
Import (cif)	-394.5	-585.9	-646.5	-823.3	-825.2
Total Balance	-263.0	-414.2	-487.1	-662.6	-644.8

Note : Trade figures include Chukha Hydel Project.

16.5 Estimation of balance of payments with India and other countries 1980/81 to 1984/85

(Nu. in Million)

	1980/81	1981/82	1982/83	1983/84	1984/85
India					
Current Account Balance	-402.1	-579.7	-702.7	-881.0	-871.4
External Grants and Loans	420.0	538.3	736.6	801.2	797.7
Other Loans	10.2	59.2	19.7	146.9	143.0
Overall Balance	28.1	17.8	53.6	67.1	69.3
Others					
Current Account Balance	-48.0	-95.6	-138.0	-155.8	-108.5
External Grants and Loans	56.1	107.8	141.2	125.7	118.0
Errors and Omission	9.8	5.7	-5.0	55.7	68.8
Overall Balance	17.9	17.9	-1.8	25.6	78.3

Source : Royal Monetary Authority.

SECTION 17 - CONSUMER INDEX

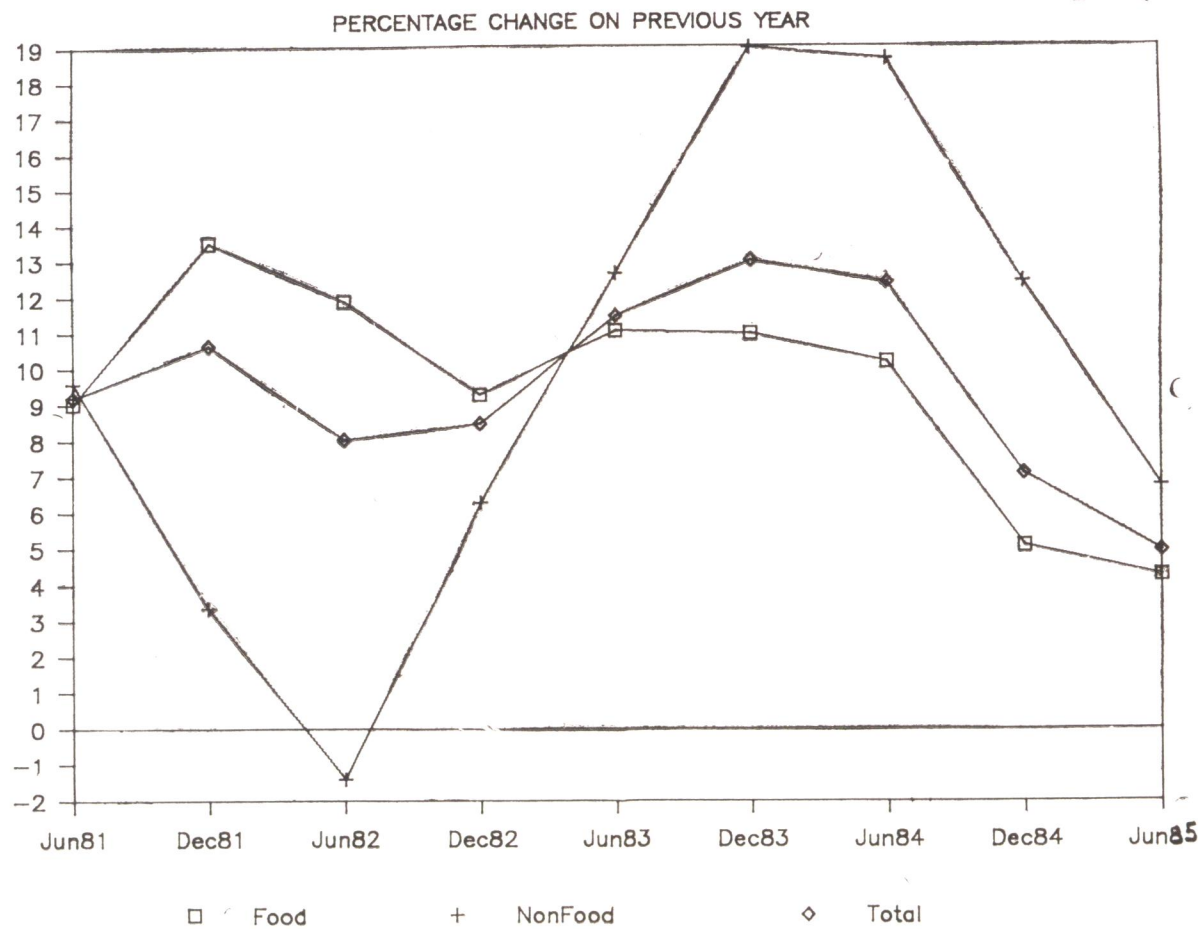
17.1 : Summary of the Price Index for major sub-group - Food & Non-food.
(December 1979=100)

I T E M	Weight in %	P E R I O D												Average Growth Rate in % (***)	
		1980		1981		1982		1983		1984		1985			
		June	Dec	June	Dec	June	Dec	June	Dec	June	Dec	June	Dec	June 80-85	Dec 79-85
INDEX															
Food	72.31	101.67	103.11	112.47	116.71	131.05	124.01	138.66	150.30	148.09	156.82	154.32	163.36		
Non-food	27.69	94.47	125.08	110.01	115.12	115.48	114.68	131.87	142.50	156.30	162.80	165.13	164.83		
Total (**)	100.00	99.67	109.19	111.79	116.27	126.73	121.43	136.78	148.14	150.36	158.48	157.31	163.77		
Percentage change on the previous year															
Food	72.31	—	3.11	10.63	13.19	16.51	6.25	5.81	21.20	6.80	4.34	4.21	4.17	8.70	8.52
Non-food	27.69	—	25.08	16.45	-7.97	4.97	-0.38	14.20	24.26	18.52	14.25	5.65	1.25	11.82	8.69
Total (**)	100.00	—	9.19	12.16	6.48	13.37	4.44	7.93	22.00	9.93	6.98	4.62	3.34	9.56	8.57
Percentage change on the previous period															
Food	72.31	1.67	1.42	9.08	3.77	12.28	-5.37	11.81	8.40	-1.48	5.90	-1.60	5.86	—	4.17
Non-food	27.69	-5.53	32.41	-12.05	4.64	0.31	-0.69	14.99	8.06	9.68	4.16	1.43	-0.18	—	4.25
Total (**)	100.00	-0.33	9.55	2.38	4.00	9.00	-4.19	12.64	8.31	1.50	5.40	-0.74	4.10	—	4.20

(*) 1979 Expenditure Survey. (**) Weighted Arithmetic Average. (***) Geometric Average.

Source : CSO, Planning Commission, Thimphu.

Percentage change on previous year (three-period moving average)



- Cereals
- Pulses
- Vegetables
- Fruits
- Edible oils
- Spices
- Milk & milk products
- Other food
- Fuel & electricity
- Clothing
- Stationary goods
- personnel
- Misc. goods
- Furniture
- Totals (**)

(*) 1979

17.2 : Weighted Consumer Price Index of different commodities
(December 1979=100)

I T E M	Weight in % (*)	P E R I O D											
		1980		1981		1982		1983		1984		1985	
		June	Dec	June	Dec	June	Dec	June	Dec	June	Dec	June	Dec
Cereals	37.77	98.17	98.28	106.29	105.38	126.77	123.63	142.05	155.84	146.68	157.95	144.62	151.95
Pulses	0.67	112.27	138.26	120.88	130.22	149.31	137.61	126.89	134.52	148.98	141.75	170.84	175.47
Vegetables	2.43	99.92	105.62	99.62	102.51	155.85	148.98	134.13	142.90	140.74	162.83	147.11	177.22
Fruits	0.04	98.01	99.73	112.37	132.18	128.06	131.12	168.48	130.05	170.21	141.62	170.74	234.04
Edible oil & fats	2.87	106.65	106.57	115.68	129.58	130.25	122.80	137.27	138.35	138.85	147.41	140.35	140.81
Spices	5.10	93.63	97.48	102.91	112.10	122.47	106.00	121.23	123.53	139.64	132.62	158.02	194.72
Milk & its products	7.07	101.06	91.12	114.14	138.04	112.29	109.95	152.49	155.21	163.75	160.99	174.98	173.13
Other food & intoxicants	16.36	111.47	118.77	130.01	134.35	147.40	132.51	131.62	147.65	149.81	161.37	169.43	176.93
Fuel & lighting	3.65	82.68	187.91	86.28	105.32	90.65	91.17	79.07	104.80	94.77	117.24	110.46	119.55
Clothing & footwear	21.20	96.53	114.56	110.56	110.75	112.67	110.13	134.04	142.97	161.41	163.48	168.96	163.55
Stationary goods & personal effects	0.62	109.60	103.08	123.08	108.97	180.43	148.46	142.81	141.58	141.15	147.08	139.45	154.23
Misc. goods & services	1.57	90.61	126.02	158.43	178.95	180.00	206.49	198.43	196.34	214.20	231.56	229.30	246.64
Furniture & utensils	0.65	88.43	134.06	95.69	164.39	128.55	141.37	186.44	210.07	209.78	245.68	216.52	273.52
Totals (**)	100.00	99.67	109.19	111.79	116.27	126.73	121.43	136.78	148.14	150.36	158.48	157.31	163.76

(*) 1979 expenditure survey. (**) Weighted arithmetic average.

SECTION 19-EMPLOYMENT IN CIVIL SERVICE

19.1 Staff Strength under various Ministries/Departments 1985

Sl.No.	Ministry/Departments	Male	Female	Total
1.	Ministry of Home Affairs (Secretariat)	49	5	54
2.	Survey and Land Record	175	5	180
3.	Immigration and Census	79	10	89
4.	National Library	18	3	21
5.	National Museum	10	1	11
6.	Antiques Preservation	13	—	13
7.	Dzongkhag Administration	2836	434	3270
Sub Total		3180	458	3638
1.	Ministry of Finance (Secretariat)	52	14	66
2.	Budget Bureau	14	2	16
3.	Customs Department	116	9	125
4.	National Property Bureau	37	—	37
5.	Revenue and Excise	111	4	115
Sub Total		330	29	359
1.	Ministry of Communication & Tourism (Secretariat)	16	3	19
2.	Post, Telegraph & Civil Wireless	535	29	564
3.	Telephones	344	45	389
4.	Bhutan Tourism Corporation	281	23	304
5.	Information & Broadcasting	69	15	84

6. Druk Air Corporation	44	2	46
7. B G T S	166	2	168
8. Government Press	40	5	45
Sub Total	1495	124	1619

1. Ministry of Social Services (Secretariat)	23	4	27
2. Health Services	801	264	1065
3. Education	1103	343	1446
4. P W D	761	50	811
Sub Total	2688	661	3349

1. Ministry of Agriculture & Forestry (Secretariat)	16	3	19
2. Animal Husbandry	490	15	505
3. Forest	904	14	918
4. F C B	246	14	260
5. Agriculture & Irrigation	304	26	330
Sub Total	1960	72	2032

1. Ministry of Foreign Affairs	135	29	164
Sub Total	135	29	164

1. Ministry of Trade, Industry & Power (Secretariat)	24	3	27
2. Industries and Mines	43	3	46
3. Geological Survey of Bhutan	77	2	79

4. Trade and Commerce	24	4	28
5. S T C B and Export	89	2	91
6. Power	442	19	461
Sub Total	699	33	732

Non-Ministrial Organisations.

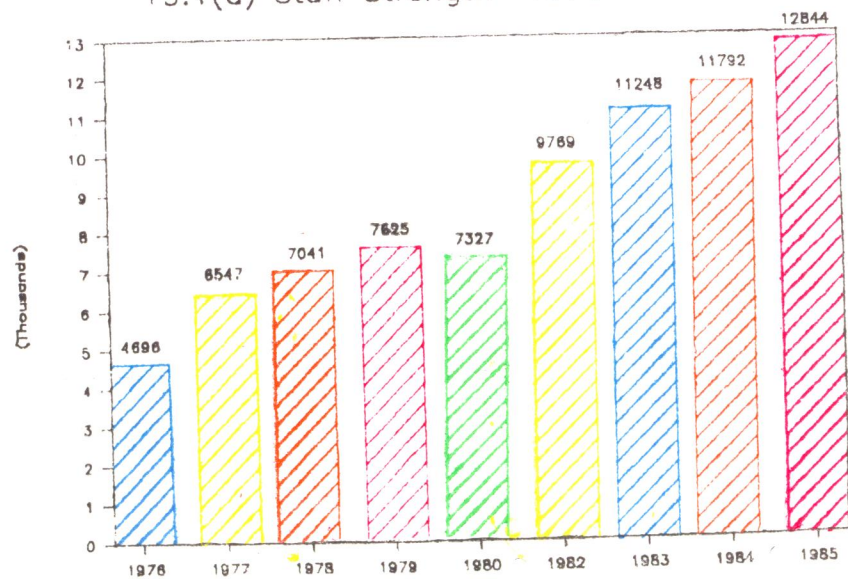
1. * Planning Commission	59	18	77
2. Royal Secretariat	78	2	80
3. R C S C	20	8	28
4. Royal Audit Authority	53	11	64
5. Royal Advisory Council	29	—	29
6. National Assembly	10	—	10
7. N U D C	48	6	54
8. City Corporation	40	9	49
9. Central Monk Body	9	—	9
10. N W A B	4	2	6
11. Judiciary	170	7	177
Sub Total	520	63	583

Financial Institutions

1. Bank of Bhutan	152	21	173
2. Royal Monetary Authority	28	5	33
3. R I C B	141	21	162
Sub Total	321	47	368
Grand Total	11328	1516	12844

* Science and Technology, included in Planning Commission

19.1(a) Staff Strength 1976 - 1985



20.1 Number of Banks under various Dzongkhag-1985

Dzongkhag	Location	Number
Thimphu	Thimphu	1
	Chimakothi	1
	Dzong Area	1
Samchi	Phuntsholing (HQ)	1
	Town Area, Phuntsholing	1
	Samchi	1
	Gomtu	1
	Gedu	1
Gaylegphug	Gaylegphug	1
Samdrupjongkhar	Samdrupjongkhar	1
Chirang	Damphu	1
Tashigang	Tashigang	1
Mongar	Mongar	1
Lhuntshi	Lhuntshi	1
Wangdiphodrang	Wangdiphodrang	1
Paro	Paro	1
Punakha	Punakha	1
Bumthang	Bumthang	1
Tongsa	Tongsa	1
Haa	Haa	1
Shemgang	Shemgang	1
Total :		21

SECTION-21 INFORMATION AND BROADCASTING

1. Weekly paper - KUENSEL in three languages.
 1. Dzongkha
 2. Nepali
 3. English
2. Quarterly paper - DRUK LOSEL in three languages.
 1. Dzongkha
 2. Nepali
 3. English

3. Government Press 2 (Thimphu and Gaylegphug)
- Private Press 2 (Thimphu and Phuntsholing)

SUBSCRIPTION RATE

- | | |
|------------------------------------|---|
| 4. Kuensel | Rate |
| within Bhutan | Nu. 25 - annually |
| Dzongkha and Nepali | Free distribution |
| outside Bhutan | US\$ 18 - annually |
| 5. DRUK LOSEL | Rate |
| English - Inside Bhutan and India | Nu. 14 - annually |
| English - Outside Bhutan | US\$ 18 - annually |
| Dzongkha and Nepali-Bhutan & India | Nu. 8 - annually |
| 6. Radio station - 1 NYAB | Media - Daily |
| | <ol style="list-style-type: none"> 1. Dzongkha 2. Sharchop 3. Nepali 4. English |

SECTION-22 ADMINISTRATIVE UNITS OF DZONGKHAG.

WESTERN REGION

Thimphu Dzongkhag

- | | | |
|--------------|------------|------------|
| 1. Babesa | 2. Kawang | 3. Chang |
| 4. Toebesa | 5. Teowang | 6. Bjimena |
| 7. Mewang | 8. Kabesa | 9. Gyeni |
| 10. Dagalla. | | |

Lingshi Drungkhag

- | | | |
|------------|---------|---------|
| 1. Lingshi | 2. Naro | 3. Soey |
|------------|---------|---------|

Chapcha Dzongkhag.

- | | | |
|------------|-----------|------------|
| 1. Chapcha | 2. Getena | 3. Bongo |
| 4. Dung | 5. Metab | 6. Geyling |

Phuntsholing Drungkhag

- | | | |
|-----------------|---------------|---------|
| 1. Phuntsholing | 2. Japcho | 3. Tala |
| 4. Lockchina | 5. Bhalujhora | |

Punakha Dzongkhag

- | | | |
|-------------|-------------|----------|
| 1. Guma | 2. Zomi | 3. Chubu |
| 4. Shengana | 5. Limbukha | 6. Talo |

Paro Dzongkhag

- | | | |
|------------|--------------|----------|
| 1. Tshento | 2. Lango | 3. Dotey |
| 4. Shari | 5. Wangchang | 6. Horey |
| 7. Luni | 8. Shaba | 9. Dogar |
| 10. Naja | | |

Haa Dzongkhag

- | | | |
|---------|--------------|--------|
| 1. Bjei | 2. Katsha | 3. Isu |
| 4. Sama | 5. Sombeykha | |

Wangdiphodrang Dzongkhag

- | | | |
|------------|-------------|-------------|
| 1. Tshephu | 2. Phobjec | 3. Gangtey |
| 4. Dangchu | 5. Kashi | 6. Bjena |
| 7. Nisho | 8. Phangyel | 9. Thesho |
| 10. Nahi | 11. Tshogom | 12. Tshowom |
| 13. Rubesa | 14. Adha | 15. Daga |

Gasa Dzongkhag

- | | | |
|-----------|-----------|---------|
| 1. Khamey | 2. Khatey | 3. Laya |
| 4. Lunana | | |

Dagana Dzongkhag

- | | | |
|-------------|-------------|------------|
| 1. Changkha | 2. Dujegang | 3. Khibisa |
| 4. Kali | 5. Chizha | 6. Lajab |

SOUTHERN REGION**Samchi Dzongkhag**

- | | | |
|-----------|----------|-----------|
| 1. Tading | 2. Pagli | 3. Samchi |
|-----------|----------|-----------|

Sibsoo Drungkhag

- | | | |
|-----------|-------------|----------|
| 1. Bara | 2. Tendu | 3. Biroo |
| 4. Sibsoo | 5. Laharani | |

Dorokha Drungkhag

- | | | |
|------------|--------------|------------|
| 1. Dungtey | 2. Denehukna | 3. Dorokha |
| 4. Myona | | |

Changmari Drungkhag

- | | | |
|--------------|---------------|--------------|
| 1. Changmari | 2. Chargharey | 3. Ghumauney |
| 4. Nainital | | |

Phuntsholing Drungkhag

- | | | |
|-----------------|----------|--------------|
| 1. Lockchina | 2. Gengu | 3. Bhalujora |
| 4. Phuntsholing | | |

Chirang Dzongkhag

- | | | |
|---------------|----------------|---------------|
| 1. Pataley | 2. Chirangdara | 3. Phumtenchu |
| 4. Semjongkha | 5. Goseling | 6. Tshokhana |
| 7. Gopini | 8. Kikhorthang | |

Lamidara Drungkhag

- | | | |
|--------------|--------------|------------|
| 1. Lamidara | 2. Gairigoan | 3. Betiney |
| 4. Chanautey | | |

Dagapela Drungkhag

- | | | |
|--------------|-------------|----------|
| 1. Tashiding | 2. Suntaley | 3. Goshi |
| 4. Emirey | 5. Dorona | |

Gaylegphug Dzongkhag

- | | | |
|---------------|------------|--------------|
| 1. Gaylegphug | 2. Leopani | 3. Bhur |
| 4. Dovan | 5. Lalai | 6. Shershong |
| 7. Surey | 8. Taklai | 9. Danabari |

Sarbhong Drungkhag

- | | | |
|----------------|-----------|------------|
| 1. Sarbhongtar | 2. Hilley | 3. Singhey |
|----------------|-----------|------------|

Kalikhola Drungkhag

- | | | |
|------------|------------|--------------|
| 1. Nichula | 2. Deorali | 3. Kalikhola |
|------------|------------|--------------|

CENTRAL REGION**Bumthang Dzongkhag**

- | | | |
|------------|----------|---------|
| 1. Chekhor | 2. Chumi | 3. Tang |
| 4. Ura | | |

Tongsa Dzongkhag

- | | | |
|------------|-----------------|-------------|
| 1. Bibi | 2. Tangsibi | 3. Drackten |
| 4. Namther | 5. Nobji-Korphu | |

Shemgang Dzongkhag

- | | | |
|--------------|-------------|-----------|
| 1. Tong | 2. Nangkhor | 3. Bardoh |
| 4. Shenkhar | 5. Ngala | 6. Dogar |
| 7. Phangkhar | | |

EASTERN REGION**Tashigang Dzongkhag**

- | | | |
|--------------|----------------|-------------|
| 1. Phongmey | 2. Radhi | 3. Shongphu |
| 4. Samkhar | 5. Kanglung | 6. Uzorong |
| 7. Yangnceer | 8. Tomi Jangsa | |

Tashiyangtshi Drungkhag

- | | |
|------------------|------------|
| 1. Tashiyangtshi | 2. Jangphu |
|------------------|------------|

Bidung Drungkhag

- | | | |
|-----------------|-------------|-----------|
| 1. Yallang | 2. Bartsham | 3. Bidung |
| 4. Merak Sakten | | |

Wamrong Drungkhag

- | | | |
|---------------|-------------|------------|
| 1. Khaling | 2. Lumang | 3. Wamrong |
| 4. Thrimshing | 5. Kangpara | 6. Gomdar |

Samdrup Jongkhar Dzongkhag

- Orong

Dechenling Drungkhag

- | | |
|---------------|--------------|
| 1. Dechenling | 2. Norbugang |
|---------------|--------------|

Bangtar Drungkhag

- | | | |
|--------------|----------|------------|
| 1. Bakuli | 2. Dalim | 3. Samrang |
| 4. Martshala | | |

Daifam Drungkhag

- | | | |
|---------------|-------------------|-----------|
| 1. Hastinapur | 2. Shingkar-Lowri | 3. Serthi |
|---------------|-------------------|-----------|

Pema Gatshel Dzongkhag

- | | | |
|---------------------|------------|-----------|
| 1. Khar | 2. Dungmin | 3. Zobel |
| 4. Shumar | 5. Khangma | 6. Yurung |
| 7. Chongsing Borang | | |

Mongar Dzongkhag

- | | | |
|--------------|--------------|--------------|
| 1. Mongar | 2. Chakaling | 3. Silambi |
| 4. Demchi | 5. Chaskar | 6. Thangrong |
| 7. Gongdu | 8. Gantshang | 9. Tsamang |
| 10. Kengkhar | 11. Saling | |

Lhuntshi Dzongkhag

- | | | |
|--------------|-----------|------------|
| 1. Thungkhar | 2. Ganzor | 3. Jarrey |
| 4. Tshenkhar | 5. Obee | 6. Tamachu |
| 7. Khoma | 8. Minji | |

WEIGHTS AND MEASURES

Annex I

Apothecaries' weight

- | | |
|------------|----------------|
| 20 grains |1 scruple |
| 3 scruples |1 dram |
| 8 drams |1 ounce |
| 12 ounces |1 pound |
- Ounce and pound are the same as in Troy Weight.

Avoirdupois weight

- | | |
|----------------|------------------|
| 27 1/32 grains |1 dram |
| 16 drams |1 ounce |
| 16 ounces |1 pound |
| 25 pounds |1 quarter |
| 4 quarters |1 cwt. |
| 2,000 pounds |1 short ton |
| 2,240 pounds |1 long ton |

Troy Weight

- | | |
|-----------|--------------|
| 24 grains |1 pwt. |
| 20 pwt. |1 ounce |
| 12 ounces |1 pound |
- Used for weighing gold, silver and jewels.

Cloth Measure

- | | |
|-------------|----------------|
| 2.25 inches |1 nail |
| 4 nails |1 quarter |
| 4 quarters |1 yard |

Mariners' Measure

- | | |
|-------------------|----------------------|
| 6 feet |1 fathom |
| 120 fathoms |1 cable length |
| 7.5 cable lengths |1 mile |
| 5,280 feet |1 statute mile |
| 6,080.2 feet |1 nautical mile |

Square Measure

- | | |
|-----------------|-----------------|
| 144 sq. inches |1 sq. ft. |
| 9 sq. ft. |1 sq. yard |
| 30.25 sq. yards |1 sq. rod |
| 40 sq. rods |1 rood |
| 4 roods |1 acre |
| 640 acres |1 sq. mile |

Surveyors' Measure

- | | |
|------------------|-----------------|
| 7.92 inches |1 link |
| 25 links |1 rod |
| 4 rods |1 chain |
| 10 sq. chains or | |
| 160 sq. rods |1 acre |
| 640 acres |1 sq. mile |
| 36 sq. miles | |
| (6 miles sq.) |1 township |

Time Measure

- | | |
|-----------------------|----------------------------------|
| 60 seconds |1 minute |
| 60 minutes |1 hour |
| 24 hours |1 day |
| 7 days |1 week |
| 28, 29, 30 or 31 days |1 cal. month |
| 30 days |1 month...in comp. interest |
| 365 days |1 year ..366 days 1 lp. yr. |

Annex II

Cubic Measure

1,728 cubic inches	.....	1 cubic foot
27 cubic feet	.....	1 cubic yard
128 cubic feet	.....	1 cord (wood)
40 cubic feet	.....	1 ton (shipping)
2,150.42 cubic inches	.....	1 standard bu.
231 cubic inches	.....	1 U.S. standard gal.
1 cubic foot	.....	about 4/5 of a bushel

Dry Measure

2 pints	.....	1 quart
8 quarts	.....	1 peck
4 pecks	.....	1 bushel
36 bushels	.....	1 chaldron

Liquid Measure

4 gills	.....	1 pint
2 pints	.....	1 quart
4 quarts	.....	1 gallon
31.5 gallons	.....	1 barrel
2 barrels	.....	1 hogshead

Square Measure

1 square centimeter	.....	0.1550 sq. inches
1 square inch	.....	6.452 square centimeters
1 square decimeter	.....	0.1076 square foot
1 square foot	.....	9.2903 square dec.
1 square meter	.....	1.196 square yds.
1 square yd.	.....	0.8361 square meter
1 acre	.....	160 square rods
1 square rod	.....	0.00625 acre
1 hectare	.....	2.47 acres
1 acre	.....	0.4047 hectare
1 square kilometer	.....	0.386 sq. mile
1 square mile	.....	2.59 sq. kilometers

Miscellaneous

3 inches	.....	1 palm
4 inches	.....	1 hand
6 inches	.....	1 span
18 inches	.....	1 cubit
21.8 inches	.....	1 Bible cubit
2.5 feet	.....	1 Military pace

Metric Equivalents Linear Measure

1 centimeter	.....	0.3937 inches
1 inch	.....	2.54 centimeters
1 decimeter	.....	3.937 in
	.....	0.328 foot
1 foot	.....	3.048 decimeters
1 meter	.....	39.37 inches
	.....	1.09.36 yds.
1 yard	.....	0.9144 meter
1 dekameter	.....	1.9884 rods
1 rod	.....	0.5029 dekameter
1 kilometer	.....	0.621.37 mile
1 mile	.....	1.609.3 kilometer

Annex III

Temperatures

Milk	.....	Freezes 30° above Zero
Water	.....	Freezes 32° above Zero
Olive Oil	.....	Freezes 36° above Zero
Wines	.....	Freezes 20° above Zero
Vinegar	.....	Freezes 28° above Zero
Alcohol	.....	Boils at 173° above Zero
Water	.....	Boils at 212° above Zero
Petrol (av.)	.....	Boils at 360° above Zero
Blood Heat	.....	98.4° above Zero
Eggs Hatch	.....	104° above Zero

Measure of Volume

1 cubic centimeter	.....	0.061 cu. inch
1 cubic inch	.....	16.39 cubic cent.
1 cubic decimeter	.....	0.0353 cubic foot
1 cubic foot	.....	28.317 cubic dec.
1 cubic meter	.....	1.308 cubic yards
1 cubic yard	.....	0.7646 cubic meter
1 stere	.....	0.2759 cord
1 cord	.....	3.624 steres
1 liter	.....	0.908 qt. dry.... 1.0567 qts. liq.
1 quart dry	.....	1.101 liters
1 quart liquid	.....	0.9463 liter
1 dekaliter	.....	2.6417 gals..... 1.135 pecks
1 gallon	.....	0.3785 dekaliter
1 peck	.....	0.881 dekaliter
1 hektoliter	.....	2.8375 bushels
1 bushel	.....	0.3524 hektoliter

Weights

1 gram	.....	0.03527 ounce
1 ounce	.....	28.35 grams
1 kilogram	.....	2.2046 pounds
1 pound	.....	0.4536 kilogram
1 metric ton	.....	0.98421 English ton
1 English ton	.....	1.016 metric ton

