



2025



AGRICULTURE AND LIVESTOCK STATISTICS



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FOREWORD

I on behalf of the Ministry of Agriculture and Livestock is pleased to bring out the Bhutan Agriculture and Livestock Statistics (BALS) 2023 (formerly Bhutan RNR Statistics). It is a comprehensive and systematic compendium of the relevant statistics in the domain of Agriculture and Livestock

The BALS 2023 is expected to serve as the major source of information for planners, policymakers, researchers, and academicians. The statistics presented are compiled based on the information gathered through the statistical surveys and censuses as well as from the administrative data maintained by different agencies and departments under the Ministry of Agriculture and Livestock (MoAL).

The statistics are carefully harmonized and diligently validated by the Policy and Planning Division. The additional features of this year's BALS 2023 include the expenditure and analysis.

This change is aimed at facilitating the readers' insights into medium-term thinking on production, trades, prices, etc. As statistics are compiled from various sources, each statistical table mentions the original source so that the data contributors are duly acknowledged and secondary users may contact the source for any further information.

I would like to sincerely thank the Agriculture Statistics Division of the NSB and all departments/agencies including the dzongkhag RNR sectors for their contributions and support, which made it possible for successful publication. We encourage comments and suggestions from the users of this publication to improve the quality of the statistical information.

This publication will be the official source of information on the Agrifood sector., which we will update annually.



Karma Tshering
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ACRONYMS

AED	Agriculture Engineering Division
ASD	Agriculture Statistics Division
AEZ	Agro-Ecological Zones
AFS	Annual Financial Statement
AFO	Annual Forestry Statistics
BAFRA	Bhutan Agriculture and Food Regulatory Authority
BAIL	Bhutan Agro Industries Limited
BTS	Bhutan Trade Statistics
CAN	Calcium Ammonium Nitrate
CF	Community Forests
CFM	Centenary Farmers Market
CFMG	Community Forest Management Groups
COTI	Countries Other Than India
DAMC	Department of Agricultural Marketing and Cooperatives
DAP	Diammonium Phosphate
DoA	Department of Agriculture
DoC	Day-old Chick
DoFPS	Department of Forests and Park Services
DoL	Department of Livestock
DPA	Department of Public Accounts
DRC	Department of Revenue and Customs
FCBL	Food Corporation of Bhutan Limited
FMCL	Farm Machinery Corporation Limited
FMU	Forest Management Unit
GDP	Gross Domestic Product
LUPP	Land Use Planning Project
LCMP	Land Cover Mapping Project 2010
LULC	Land Use and Land Cover 2016
LFS	Labour Force Survey

MoAF	Ministry of Agriculture and Forests
MoAL	Ministry of Agriculture and Livestock
MoF	Ministry of Finance
MoLHR	Ministry of Labour and Human Resources
MoDa	Mobile Operational Data Acquisition
NCHM	National Centre for Hydrology and Meteorology
NLCS	National Land Commission Secretariat
NPPC	National Plant Protection Centre
NPRC	National Poultry Research Centre
NRDCL	Natural Resources Development Corporation Limited
NSB	National Statistics Bureau
NSC	National Seed Centre
NWFP	Non-Wood Forest Products
PHCB	Population Housing and Census of Bhutan 2017
PPC	Plant Protection Chemical
PPD	Policy and Planning Division
RNR	Renewable Natural Resources
SYB	Statistical Yearbook of Bhutan
WBI	Wood-Based Industry

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CHAPTER 1: PRODUCTION

This chapter presents summary statistics on the harvested area of primary crops, production of crops & dairy products along with the livestock population at the national level. The crop and livestock statistics are based on the agriculture and livestock statistics 2023 conducted by the Agriculture Statistics Division (ASD) under National Statistics Bureau (NSB).

Agriculture farming had remained one of the mainstays of the Bhutanese population depending on agriculture for livelihood. Bhutanese Agriculture Sector has come a long way since the introduction of modern agriculture techniques in the first Five Year Plan, gradually transitioning to commercial production from that of subsistence systems.

With an average farm size of 2.22 acres (PHCB, 2017), most farmers practice subsistence to semi-subsistence integrated farming systems. Despite its small average size, Bhutan's agroecology is diverse with large variations in altitude and micro climatic conditions across the country.

The livestock-keeping households are enumerated on a complete basis, the statistics given are actual totals and not based on estimates. Another important difference from the crop statistics is that the livestock statistical figures include live animal numbers and production from the government farms as well and hence reflect a complete picture of livestock population and production within the country.

Table 1.1.1 Harvested Area Under Cereals (2015-2024) (Value in Acre)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Barley	2,520	2,451	3,421	1,715	1,957	1,764	1,605	1,305	1,143	1,194
Buckwheat	5,147	6,897	5,817	4,647	5,116	4,949	3,782	2,595	2,343	2,444
Maize	56,805	56,609	66,042	36,836	32,485	27,945	20,289	18,429	17,141	18,610
Millet	3,360	3,245	3,623	2,760	2,686	2,690	2,273	1,298	1,160	1,285
Paddy(Irrigated and upland)	49,325	53,055	52,368	37,268	30,298	31,328	24,055	22,683	23,290	22,276
Quinoa	-	-	73	114	308	223	89	36	24	88
Wheat	4,845	3,717	5,259	2,819	2,481	2,457	2,286	1,769	1,805	1,843

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

Table 1.1.2 Cereal Crop Production (2015-2024) (Value in MT)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Barley	1,800	1,702	2,005	929	1,026	1,123	857	615	518	527
Buckwheat	3,234	3,705	3,480	1,991	2,350	2,701	1,855	1,133	966	1,019
Maize	83,714	82,035	94,052	55,259	46,235	40,965	30,939	25,981	25,118	27,636
Millet	1,811	1,714	1,739	1,071	1,241	1,613	1,122	602	530	579
Paddy(irrigated and upland)	80,261	83,332	86,385	63,890	49,930	54,088	40,508	41,049	40,804	41,537
Quinoa	-	-	9	21	83	102	37	18	13	40
Wheat	3,730	2,521	3,883	1,445	1,319	1,623	1,169	770	837	839

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

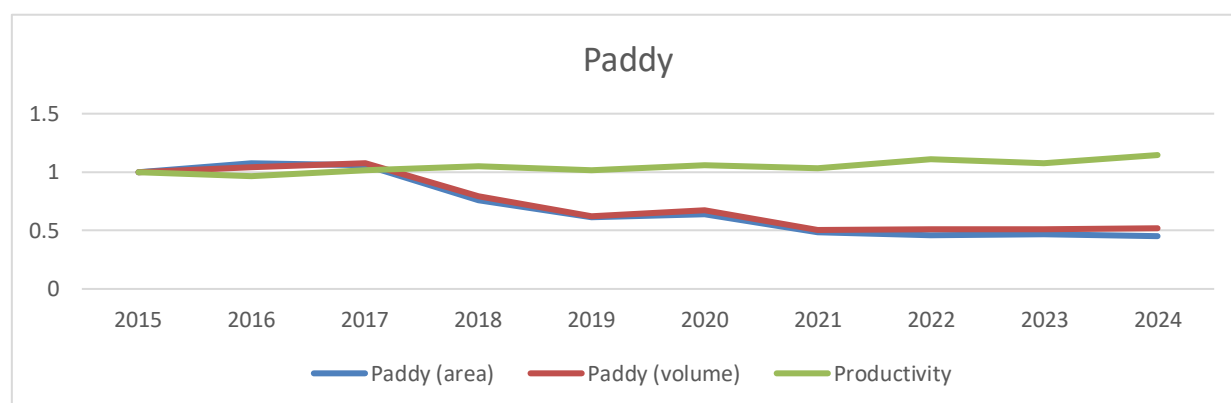


Figure 1: Trends in paddy harvested area, production volume, and productivity, relative to 2013 figures (2015-2024)

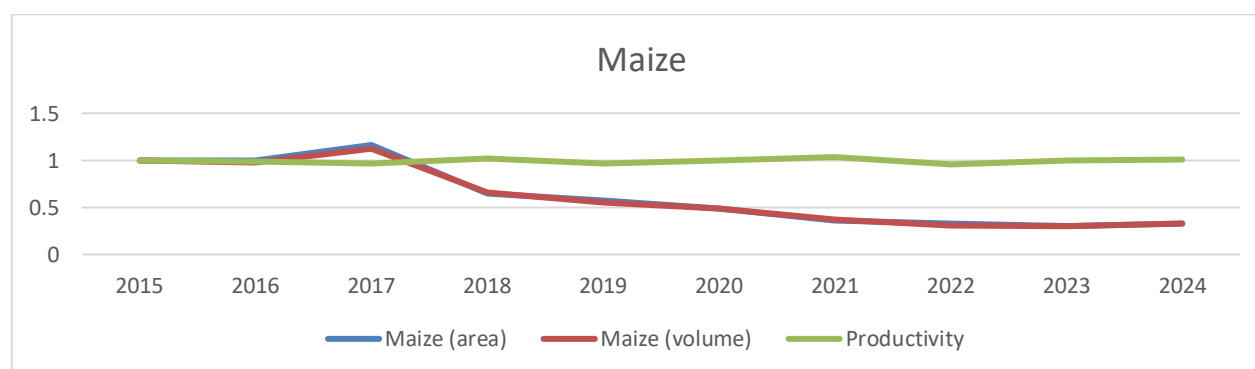


Figure 2: Trends in maize harvested area, production volume, and productivity, relative to 2015 figures (2015-2024)

The major cereal crops grown in the country are paddy and maize. Other cereals include wheat, barley, buckwheat, millet, Amaranthus, and quinoa. The domestic paddy harvested area decrease by 4.35% and production decreased by 1.80% in 2024 as compared to that of 2023. The Maize harvested area decreased by 8.57% and production decreased by 10.02% in 2024. Likewise, there is a slight fluctuation in all other crops like vegetables, roots & tuber and fruits, etc. Viewing the ten-year trends in the production area and volume, the trends in both paddy and maize productions show similar trends – both show a slight increase till 2017 followed by a sharp decrease from 2018.

In general, the main reasons for crop reduction are:

1. Due to natural calamities (heavy rainfall during the harvest seasons, hailstorms, frost & wind)
2. Direct and indirect crop damaged by pests (insects, birds & rodents)
3. Due to heavy pruning and die back of the fruit tree
4. New variety less yield
5. Lack of fertilizers and irrigation, and,
6. Farmers leaving farming.

As seen in the figure on “Economically Active Population Employed in Agriculture (2015-2024)” on page 37, the population employed in agriculture decreased by 22% during the decade. In more detail, as seen in the figure “Trends in Labour Force Employed in Agriculture Farming by Age Group (2013-2022)” on page 40, the age group that showed the largest reduction was the 20-29 age group with the reduction rate of 66% compared with a decade ago.

Table 1.2.1 Harvested Area Under Oilseeds (2015-2024) (Value in Acre)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Groundnut	177	208	436	267	378	274	157	172	197	223
Mustard	2,422	2,395	2,697	1,103	1,664	1,746	1,159	863	902	819
Perilla	68	41	249	-	-	177	113	61	49	77
Soybean	527	544	867	377	621	540	266	159	225	228
Sunflower	11	15	23	8	32	11	7	3	7	6

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

Table 1.2.2 Oilseed Production (2015-2024) (Value in MT)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Groundnut	126	149	246	197	230	313	48	113	121	131
Mustard	925	887	969	244	394	538	331	224	256	230
Perilla	18	12	108	-	-	61	26	14	12	20
Soybean	220	254	204	107	171	234	90	58	66	80
Sunflower	3	7	3	2	8	8	3	2	3	1

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

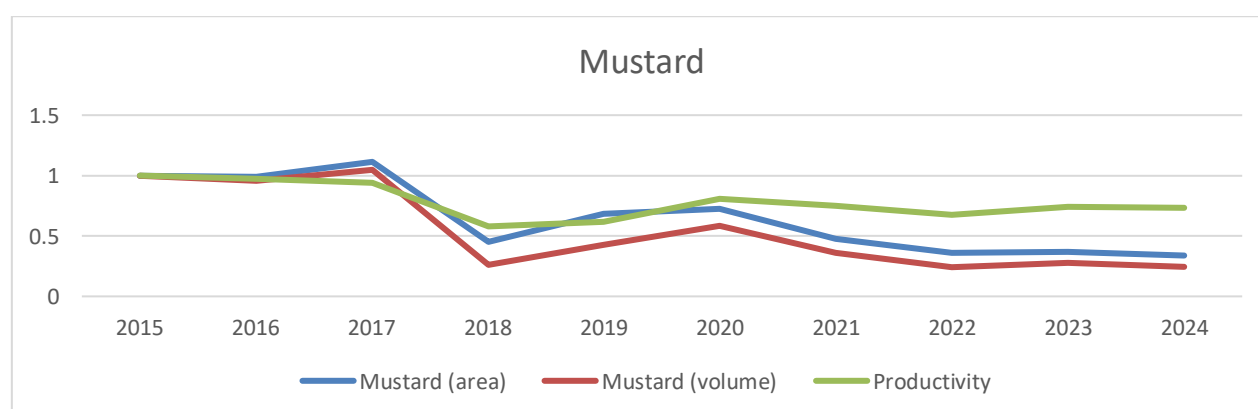


Figure 3: Trends in mustard harvested area, production volume, and productivity, relative to 2015 figures (2015-2024)

Table 1.3.1 Harvested Area Under Roots and Tubers (2015-2024) (Value in Acre)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Colocacia/Taro	104	-	-	140	127	164	-	58	80	-
Ground apple	-	-	-	-	61	121	73	42	27	-
Potato	12,008	14,638	12,824	11,131	10,342	9,964	8,244	7,820	8,016	7,595
Sweet potato	70	31	203	63	62	66	52	37	42	56
Tapioca/Cassava	293	278	320	389	329	319	213	168	228	204

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

Table 1.3.2 Roots and Tuber Production (2015-2024) (Value in MT)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Colocacia/Taro	112	-	-	91	210	244	147	75	129	-
Ground apple	-	-	-	-	211	236	146	74	49	-
Potato	49,359	58,820	57,223	44,278	43,560	45,500	38,573	31,146	37,749	37,778
Sweet potato	49	29	80	32	48	67	53	28	33	44
Tapioca/Cassava	437	415	306	448	484	608	389	236	367	360

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

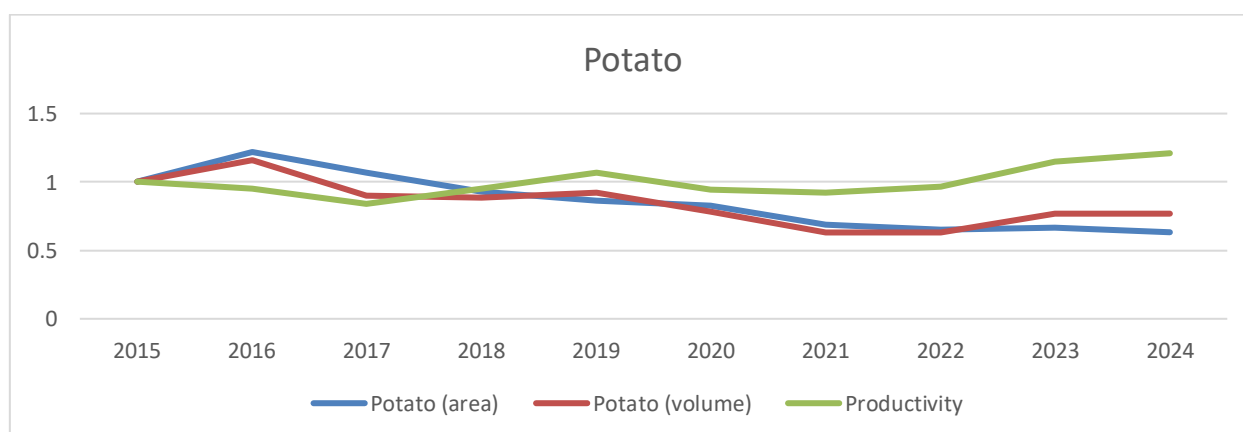


Figure 4: Trends in potato harvested area, production volume, and productivity, relative to 2013 figures (2014-2023)

Table 1.4.1 Harvested Area Under Pulses (2015-2024) (Value in Acre)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beans dry	-	-	-	-	929	875	723	-	-	-
Chick pea	-	-	-	-	31	-	-	-	-	-
Cow pea	-	-	-	-	66	-	-	-	-	-
Lentil	353	-	-	617	297	342	39	7	17	7
Mung bean	921	952	922	-	1,307	1,084	1,032	726	929	784
Rajma bean	1,357	1,565	2,236	-	1,590	1,594	681	1,050	1,089	1,119

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

Table 1.4.2 Pulses Production (2015-2024) (Value in MT)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beans dry	-	-	-	-	407	485	320	-	-	-
Chick pea	-	-	-	-	22	-	-	-	-	-
Cow pea	-	-	-	-	64	-	-	-	-	-
Lentil	82	-	-	138	55	91	15	2	4	2
Mung bean	466	482	298	-	464	382	381	220	258	210
Rajma bean	847	994	932	-	666	850	363	364	353	372

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

Table 1.5.1 Harvested Area Under Spices (2015-2024) (Value in Acre)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cardamom	10,610	11,086	13,880	21,395	15,615	13,696	11,599	9,461	8,447	6,294
Garlic	1,263	1,409	1,411	874	770	570	255	305	362	394
Ginger	3,674	4,773	3,809	2,156	2,386	3,721	3,080	1,975	1,613	1,760
Turmeric	-	-	-	-	70	156	177	139	140	93

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

Table 1.5.2 Spices Production (2015-2024) (Value in MT)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cardamom	2,091	2,736	2,245	1,542	1,413	2,175	1,609	1,693	1,104	1,122
Garlic	899	1,176	708	550	761	691	240	297	366	434
Ginger	7,434	10,871	7,859	4,260	6,209	8,890	7,154	3,711	3,076	3,386
Turmeric	-	-	-	-	92	187	203	145	135	98

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

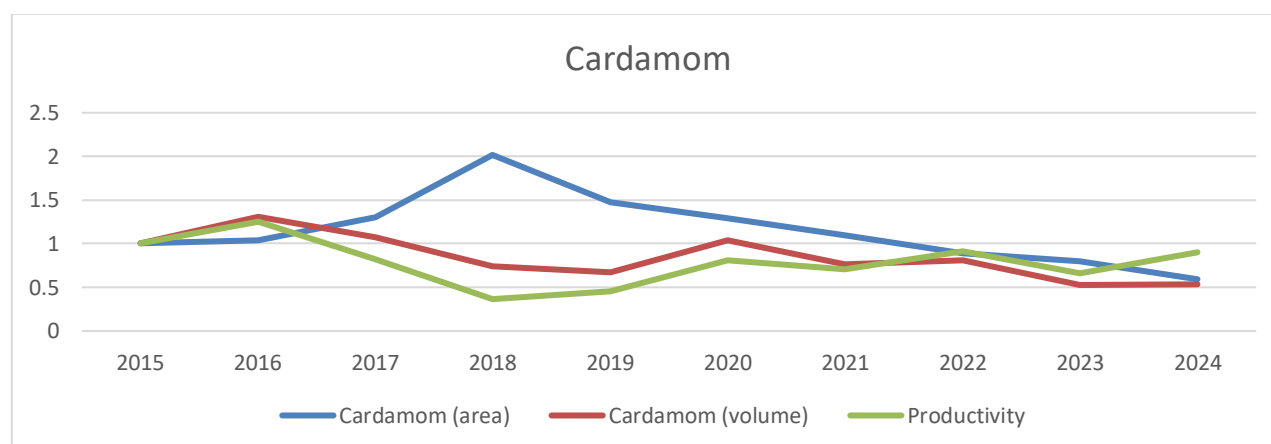


Figure 5: Trends in cardamom harvested area, production volume, and productivity, relative to 2015 figures (2015-2024)

Table 1.6.1 Harvested Area Under Vegetables (2015-2024) (Value in Acre)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asparagus	420	417	201	154	264	206	181	149	122	102
Beans	3,011	3,385	3,739	3,423	2,058	2,544	1,611	1,595	1,532	1,699
Broccoli	623	725	1,056	781	751	1,107	871	896	639	725
Bunching onion	-	-	-	-	243	307	247	277	195	161
Cabbage	2,256	2,738	3,551	1,792	1,737	2,072	1,320	1,536	1,378	1,178
Carrot	559	607	530	415	540	677	438	381	470	452
Cauliflower	1,029	1,512	1,604	1,001	851	1,198	947	915	755	691
Chilli	4,183	5,538	7,571	4,031	3,524	3,765	3,439	3,415	2,889	3,023
Coriander	-	-	-	-	255	295	171	147	136	134
Cucumber	-	-	-	-	247	499	540	412	355	419
Cultivated Mushroom	-	-	-	-	-	-	-	-	-	-
Dally chilli	-	-	-	-	194	-	-	-	-	279
Egg-plant	459	725	751	242	197	301	219	171	141	150
Green leaves	2,577	1,458	3,429	1,780	1,262	-	-	-	-	-
Lady Finger	63	43	45	79	15	-	-	-	-	-
Onion bulb	542	442	594	394	141	203	415	288	191	187
Peas	982	795	1,003	642	451	603	386	309	336	280
Pumpkin/ squash/gourd	-	-	-	-	569	-	-	-	-	-
Radish	2,812	2,871	3,533	1,644	1,238	2,406	1,244	1,146	1,103	1,128
Tomato	441	347	320	329	148	246	229	172	149	120
Tree tomato	-	-	-	-	-	-	-	-	-	-
Turnip	1,841	1,603	1,804	1,433	1,465	1,584	1,244	815	1,105	937

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

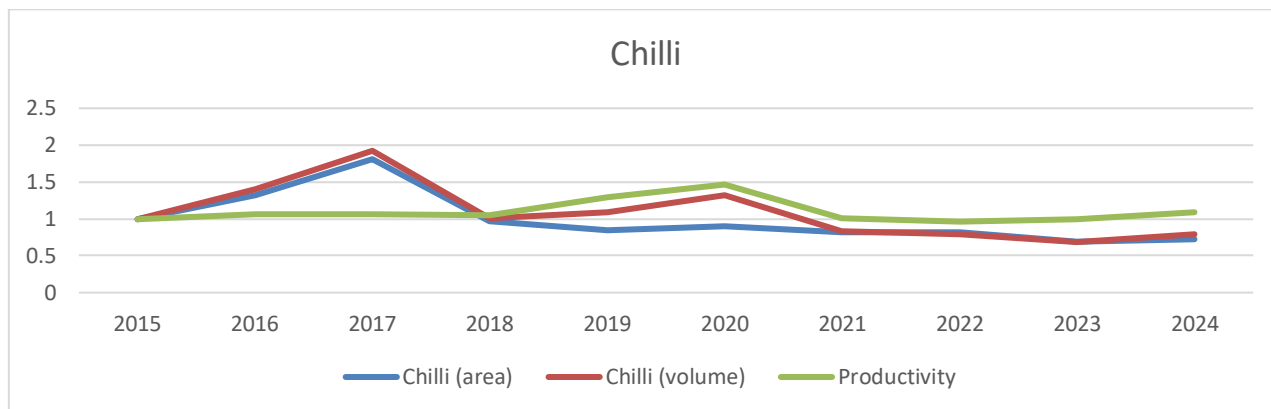


Figure 6: Trends in chili harvested area, production volume, and productivity, relative to 2015 figures (2015-2024)

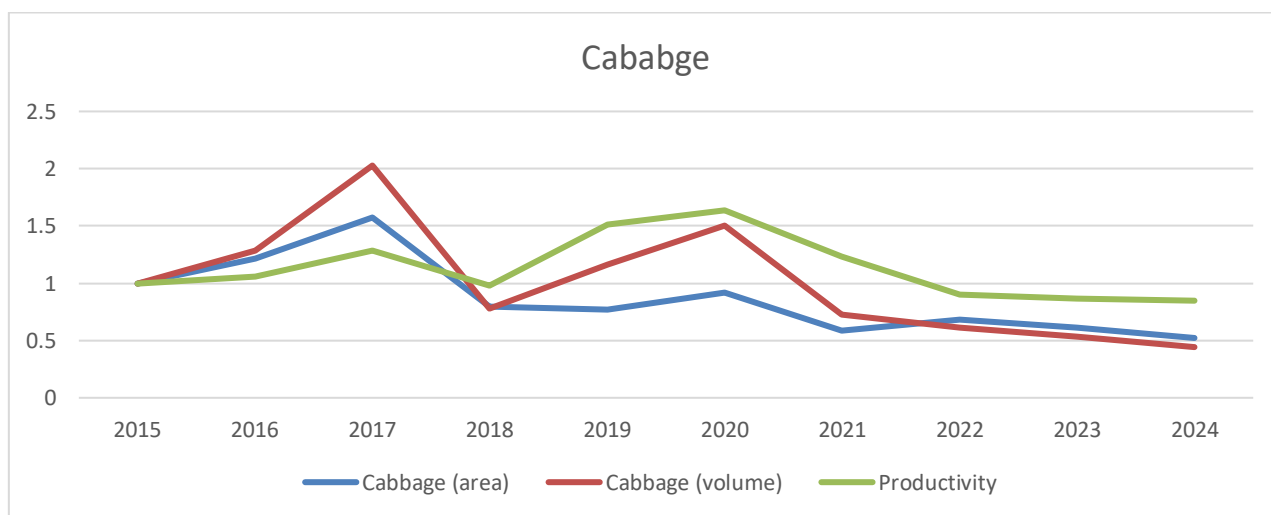


Figure 7: Trends in cabbage harvested area, production volume, and productivity, relative to 2014 figures (2015-2024)

Table 1.6.2 Vegetable Production (2015-2024) (Value in MT)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asparagus	200	239	79	160	79	127	178	116	97	83
Beans	3,612	4,409	5,273	2,274	2,923	3,169	2,096	1,533	1533	1785
Broccoli	831	1,004	1,371	846	864	1,727	1,156	917	682	807
Bunching onion	-	-	-	-	179	268	227	258	176	157
Cabbage	5,209	6,685	10,562	4,036	6,069	7,830	3,763	3,206	2763	2305
Carrot	1,094	1,276	787	782	1,374	1,787	874	1,300	1562	1829
Cauliflower	1,586	2,082	3,575	1,191	1,446	2,448	1,648	1,196	1063	1096
Chilli	7,073	9,907	13,606	7,133	7,673	9,333	5,864	5,557	4848	5596
Coriander	-	-	-	-	120	301	136	114	108	92
Cucumber	1,697	1,194	1,948	1,541	2,691	1,970	1,194	1,126	1,037	1,365
Cultivated Mushroom	19	82	122	34	44	-	-	-	351	-
Dally chilli	-	-	-	-	169	-	-	-	-	366
Egg-plant	694	585	643	245	300	429	303	197	164	187
Green leaves	2,871	1,937	4,153	2,049	2,040	3,531	1,779	1,505	2041	1905
Lady Finger	53	42	26	9	23	-	-	-	-	-
Onion bulb	608	414	489	305	155	216	419	265	184	196
Peas	1,218	1,014	859	567	685	749	482	317	333	276
Pumpkin/ squash/gourd	3,746	3,671	3,171	3,870	6,043	7,918	5,695	4,528	4,931	4,682
Radish	5,840	6,490	6,307	3,649	4,721	5,234	3,162	1,943	2034	2194
Tomato	627	455	383	261	233	359	289	206	206	183
Tree tomato	341	275	404	-	359	441	484	216	209	-
Turnip	10,423	10,499	13,051	9,097	9,293	10,385	3,162	2,349	3083	3135

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

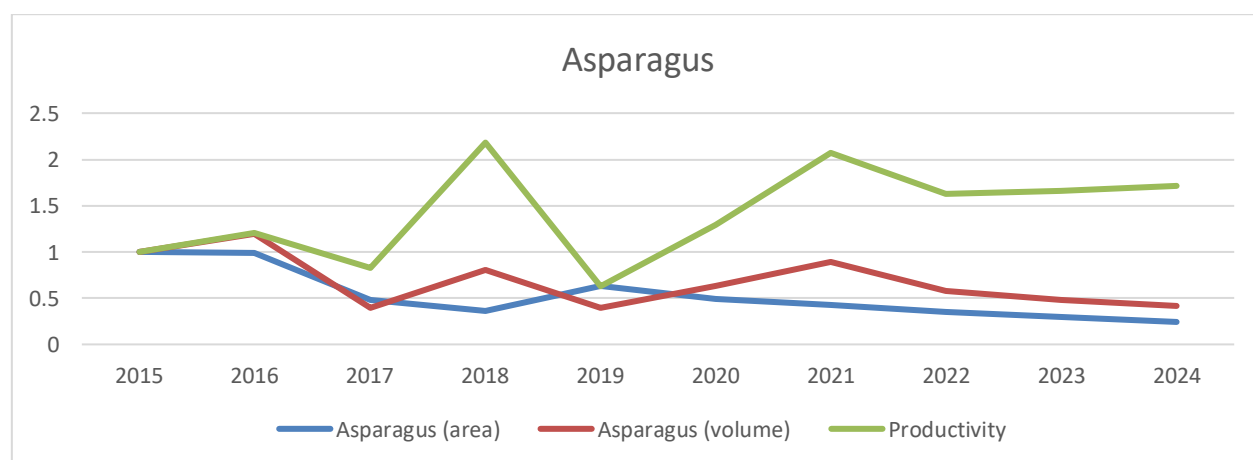


Figure 8: Trends in asparagus harvested area, production volume, and productivity, relative to 2014 figures (2015-2024)

Table 1.7 Fruit Crops Production (2015-2024) (Value in MT)

Fruit	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Apple	5,308	6,587	8,039	3,684	4,321	4,056	2,324	2,223	2,317	2,102
Apricot	-	-	-	-	15	36	41	35	24	31
Areca nut	9,406	9,467	9,342	11,681	16,107	17,446	21,377	11,106	11,409	14,405
Avacado	-	-	-	-	61	112	73	136	192	247
Banana	2,636	3,076	3,113	2,762	3,754	3,150	3,174	2,139	2,349	2,050
Coffee	-	-	-	-	8	-	-	-	-	-
Date plum	-	-	-	-	19	-	-	-	-	-
Dragon fruits	-	-	-	-	0.23	0.36	1.00	3.75	4.49	9.54
Guava	588	665	1,084	895	1,369	1,062	824	515	583	526
Hazelnut	-	-	-	-	3	6	14	13	14	33
Jackfruit	1,227	775	528	566	469	285	366	248	336	300
Kiwi	-	-	-	-	20	28	51	26	34	36
Lemon & Lime	-	-	-	-	126	115	139	73	139	139
Litchi	160	134	313	303	385	329	391	249	350	416
Mandarin	15,977	42,700	28,017	26,527	27,529	25,661	15,966	18,467	21,170	20,830
Mango	651	644	530	850	666	819	531	482	543	704
Papaya	214	282	278	161	216	206	164	122	132	147
Passion fruit	66	120	94	-	-	74	51	45	53	59
Peach	783	972	1,124	1,135	1,246	1,061	633	515	486	460
Pear	867	852	1,510	1,372	1,584	1,107	859	760	670	672
Persimmon	137	49	152	207	235	207	97	95	84	94
Pine apple	64	67	72	279	149	162	128	98	139	127
Plum	385	376	482	532	585	439	257	312	275	273
Pomegranate	63	83	74	59	79	80	63	37	55	42
Sugarcane	508	345	-	101	396	-	-	-	-	-
Walnut	211	152	239	223	256	219	179	129	129	135
Watermelon	-	-	-	-	66	53	156	94	45	52

Source: Annual Agriculture Statistics for 2013-2020 except 2018, and RNR Census 2019 for 2018, by MoAF; Agriculture Statistics by NSB from 2021 on.

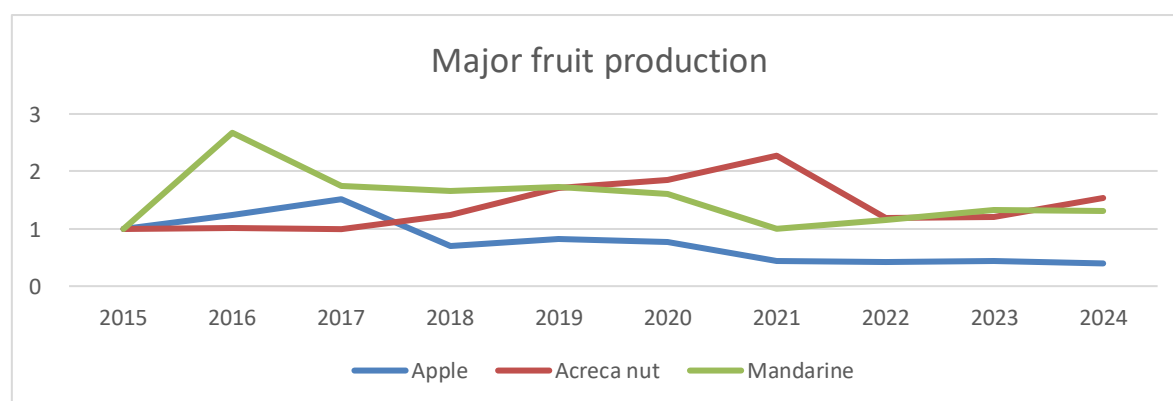


Figure 9: Trends in major fruits production, relative to 2015 figures (2015-2024)

Table 1.8 Live Animal Population (2015-2024) (Value in Headcount)

Animal Type	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Buffalo	586	532	550	531	477	398	385	331	422	412
Cattle	302,744	303,297	303,250	298,916	302,589	281,015	295,444	254,897	222,597	218,438
Equine	20,253	18,890	18,211	16,820	16,792	14,649	12,418	11,665	11,148	10,499
Goat	41,983	39,513	42,689	43,839	47,735	44,119	59,577	56,004	60,798	55,803
Mithun	742	577	502	418	453	390	347	300	263	199
Pig	15,727	15,324	18,815	21,200	20,070	17,577	22,954	33,082	29,625	34,059
Poultry	638,501	1,038,553	1,118,178	1,099,493	1,299,810	1,383,714	1,384,449	975,152	819,335	924,488
Sheep	11,410	11,277	10,444	10,786	11,466	10,793	10,694	10,024	9,411	9,176
Yak	38,222	40,438	41,528	41,463	41,918	40,897	38,642	30,328	29,699	29,432
Zo-zom	8,269	9,179	8,806	9,581	9,904	10,680	11,161	7,435	7,584	8,560

Source: Annual Livestock Statistics by DoL/MoAF for 2013-2020; Livestock Statistics by NSB from 2021 on.

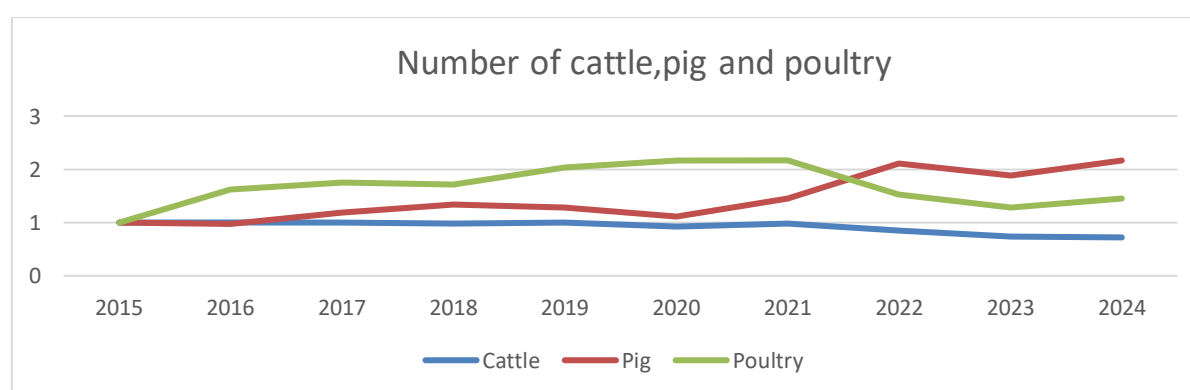


Figure 10: Trends in major live animal population, relative to 2015 figures (2015-2024)

Table 1.9 Milking Animal Population (2015-2024) (Value in Headcount)

Breed Type	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Jersey Pure breed	1,167	1,269	1,491	1,377	1,562	1,606	1,944	27,335	26,251	23,930
Jersey Cross breed	23,819	25,894	28,877	31,744	34,525	34,383	29,884			
Brown Swiss pure breed	90	37	36	2	5	39	105	1,754	2,140	1,557
Brown Swiss cross breed	1,048	1,257	1,230	1,030	1,240	1,183	1,334			
Holsten-Friesian breed	127	214	273	392	456	380	330	236	339	251
Mithun	108	23	38	8	17	18	48	32	23	24
Jatsha-Jatsam	9,491	9,430	10,020	10,058	9,729	8,053	6,317	5,982	5,408	5,425
Yangku-Yangkum	6,683	6,517	6,922	6,911	6,960	6,099	4,183	3,085	3,910	4,025
Doeb-Doebum	2,077	2,110	2,176	2,235	1,781	1,776	1,207	842	1,000	1,290
Doethra-Doethram	2,116	2,316	2,582	2,624	2,508	2,434	1,978	1,672	1,951	2,049
Nublang-Thrabum	21,618	20,397	20,002	19,314	19,338	16,776	14,543	16,130	13,822	14,380
Jaba	426	343	327	380	446	544	650	2,072	1,049	1,060
Buffallo	127	124	135	111	126	103	107	75	90	102
Yak	9,541	10,158	10,521	10,401	11,000	10,285	8,621	7,639	7,372	7,367
Zo-zoms	3,034	3,338	3,386	3,818	3,658	3,680	3,265	3,275	2,954	3,813

Source: Annual Livestock Statistics by DoL/MoAF for 2013-2020; Livestock Statistics by NSB from 2021 on.

Table 1.10 Production of Milk and Dairy Product (2015-2024) (Value in MT)

Breed Type	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Butter	1,629	1,711	2,053	1,948	2,126	2,097	1,930	1,508	1,727	1,695
Cheese	3,471	3,667	4,298	3,953	4,091	4,219	3,154	2,382	2,326	2,584
Chugo	206	121	148	175	182	179	198	130	132	193
Milk	39,844	47,270	50,251	52,816	57,547	58,197	54,654	42,255	43,829	44,038

Source: Annual Livestock Statistics by DoL/MoAF for 2013-2020; Livestock Statistics by NSB from 2021 on.

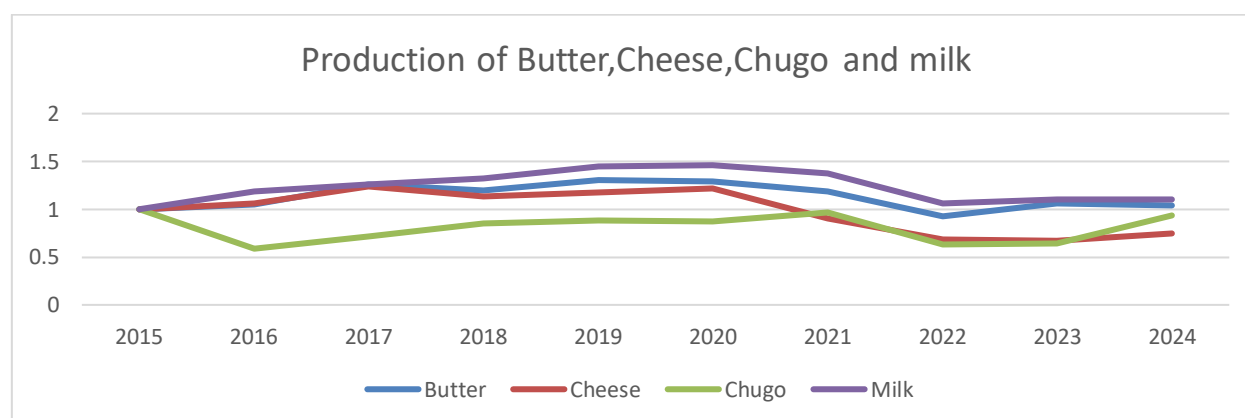


Figure 11: Trends in dairy product production, relative to 2015 figures (2015-2024)

Table 1.11 Meat Production (2015-2024) (Value in MT)

Product	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Beef	637	537	501	410	488	697	1,016	1,822	1475	1271
Chevon	166	192	195	257	281	296	162	174	231	210
Chicken	1,063	1,209	1,349	1,687	1,926	1,835	1,866	994	1165	1208
Fish	149	188	223	200	209	182	193	37	43	58
Pork	462	740	928	972	1,113	879	700	1,232	1590	1555
Yak Meat	87	83	134	191	119	107	161	187	142	141

Source: Annual Livestock Statistics by DoL/MoAF for 2013-2020; Livestock Statistics by NSB from 2021 on.

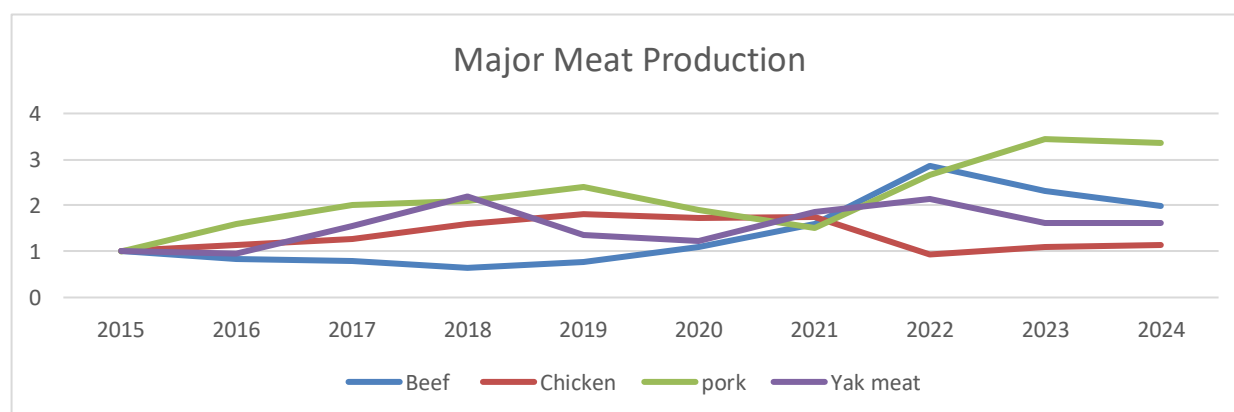


Figure 12: Trends in major meat production, relative to 2015 figures (2015-2024)

Table 1.12 Egg, honey, wool production, and layer population (2015-2024) (Value in '000 nos., MT, and '000 heads)

Product	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Egg ('000 nos.)	68,695	105,346	116,707	125,180	135,678	172,482	133,302	101,045	85,700	98,173
Honey (MT)	33.10	41.90	48.27	62.00	65.89	44.18	43.19	37.26	42	55
Layer ('000 heads)	499.00	660.00	524.77	739.00	672.91	734.45	793.73	535.16	415.33	-
Wool(sheep and Yak) (MT)	42.40	12.40	7.80	8.60	25.29	5.65	5.77	21.19	8.71	10.78

Source: Annual Livestock Statistics by DoL/MoAL for 2014-2023; Livestock Statistics by NSB from 2021 on.

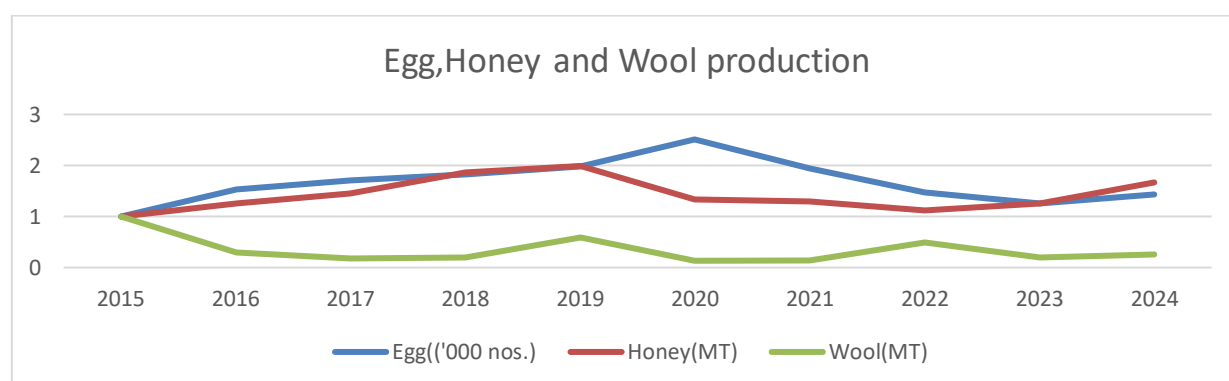


Figure 13: Trends in egg, honey, and wool production, relative to 2015 figures (2015-2024)

Table 1.13 GDP at Current Prices by Major Sectors and its Share (2015-2024) (GDP in Million Nu. and Shares in %)

Sector	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
GDP in Million Nu.										
Primary	16,835.40	19,013.35	21,819.45	23,940.81	24,916.97	28,596.47	32,326.30	33,422.58	37,312.31	39,618.48
<i>crops</i>	7,715.00	8,700.41	10,106.78	10,784.59	11,778.44	13,629.83	15,723.07	15,521.92	16,382.87	18,399.40
<i>livestock</i>	5,675.45	6,305.66	7,680.70	8,118.19	8,591.24	10,043.74	11,273.14	12,025.59	14,743.30	14,768.84
<i>forestry & logging</i>	3,444.95	4,007.28	4,031.97	5,038.03	4,547.29	4,922.89	5,330.08	5,875.06	6,186.14	6,450.24
Secondary	53990.99	60908.31	65,879.40	62,304.09	63,754.67	57,893.73	64,721.58	72,501.36	73,701.97	88,682.47
Tertiary	69526.25	78491.61	81,054.45	90,428.05	103,976.13	95,617.23	107,616.53	121,889.78	138,373.90	151,706.00
Total	140352.64	158413.27	168,753.30	176,672.95	192,647.77	182,107.42	204,664.41	227,813.72	249,388.19	280,007.94
Share in %										
Primary	12.00	12.00	12.93	13.55	12.93	15.70	15.79	14.67	14.96	14.15
<i>crops</i>	5.50	5.49	5.99	6.10	6.11	7.48	7.68	6.81	6.57	6.57
<i>livestock</i>	4.04	3.98	4.55	4.59	4.46	5.51	5.51	5.28	5.91	5.27
<i>forestry & logging</i>	2.45	2.53	2.39	2.85	2.36	2.70	2.60	2.58	2.48	2.30
Secondary	38.47	38.45	39.04	35.27	33.09	31.79	31.62	31.82	29.55	31.67
Tertiary	49.54	49.55	48.03	51.18	53.97	52.51	52.58	53.50	55.49	54.18
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Source: National Accounts Statistics 2023, NSB. (As the prices used to calculate the GDP are revised in NAS 2023, figures can't be directly comparable with those in NAS reports till 2022.)

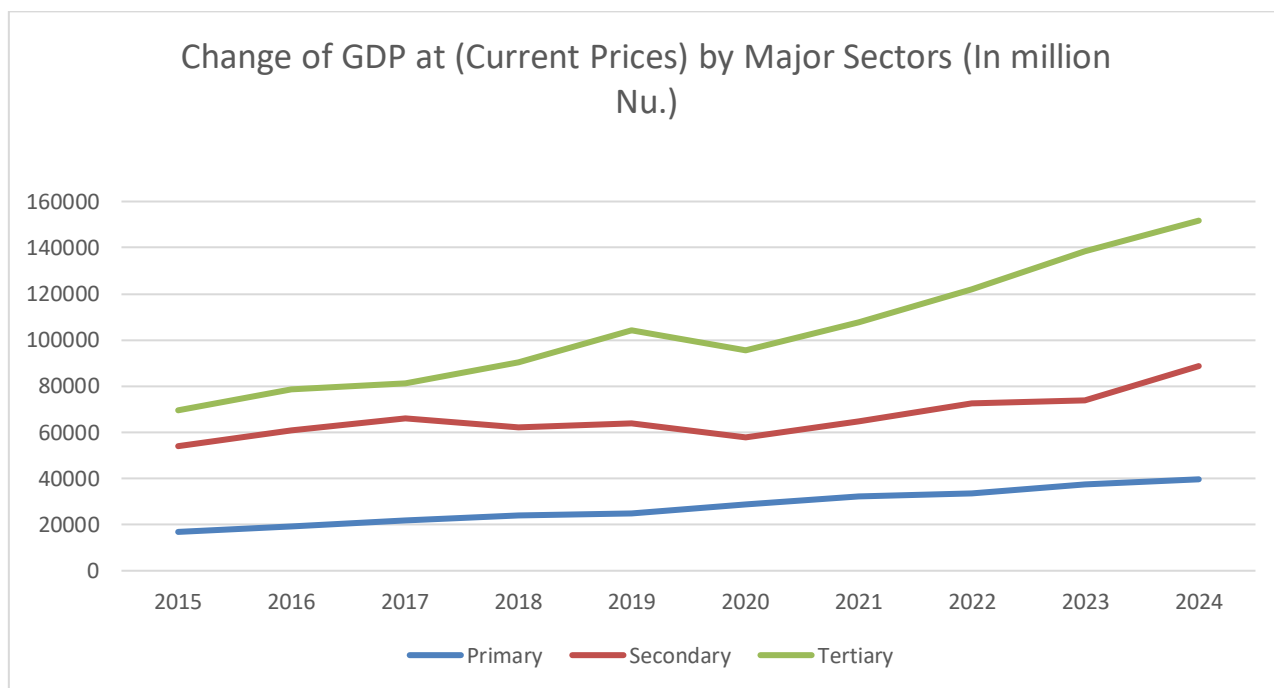


Figure 14: Changes of GDP at Current Prices by Major Sectors (2015-2024).

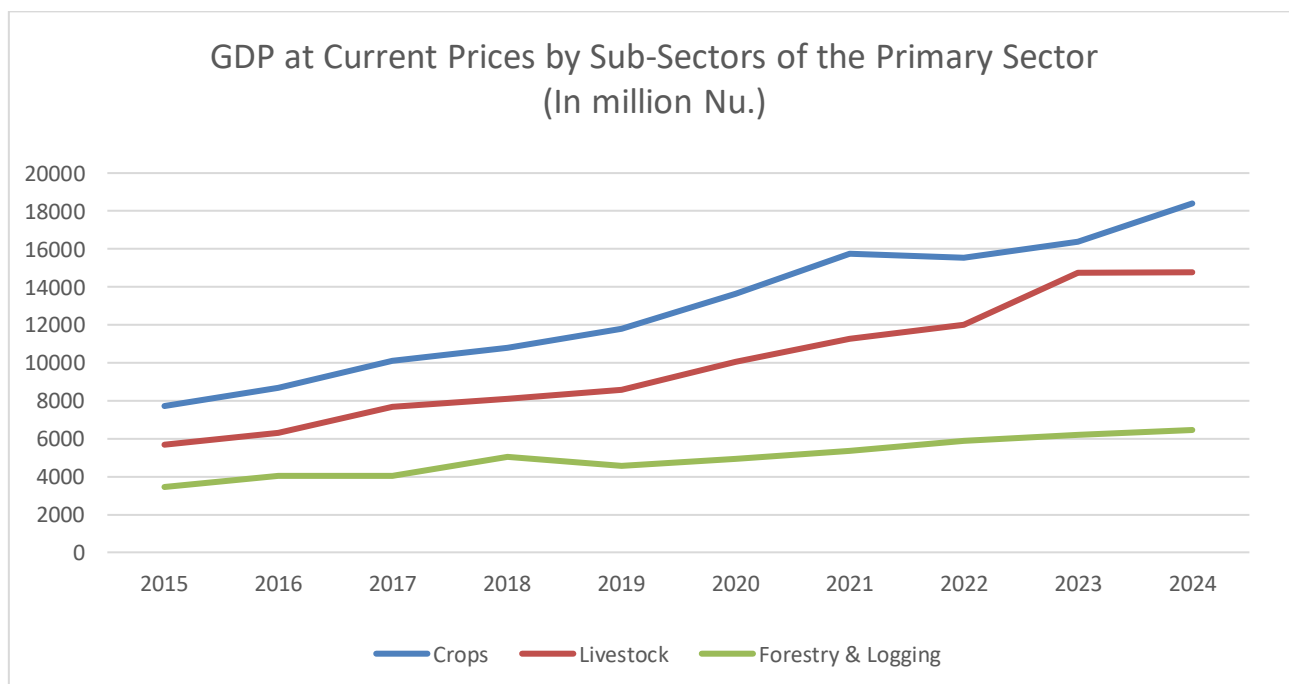


Figure 15: Changes of GDP at Current Prices by Sub-sectors of the Primary Sector (2015-2024).

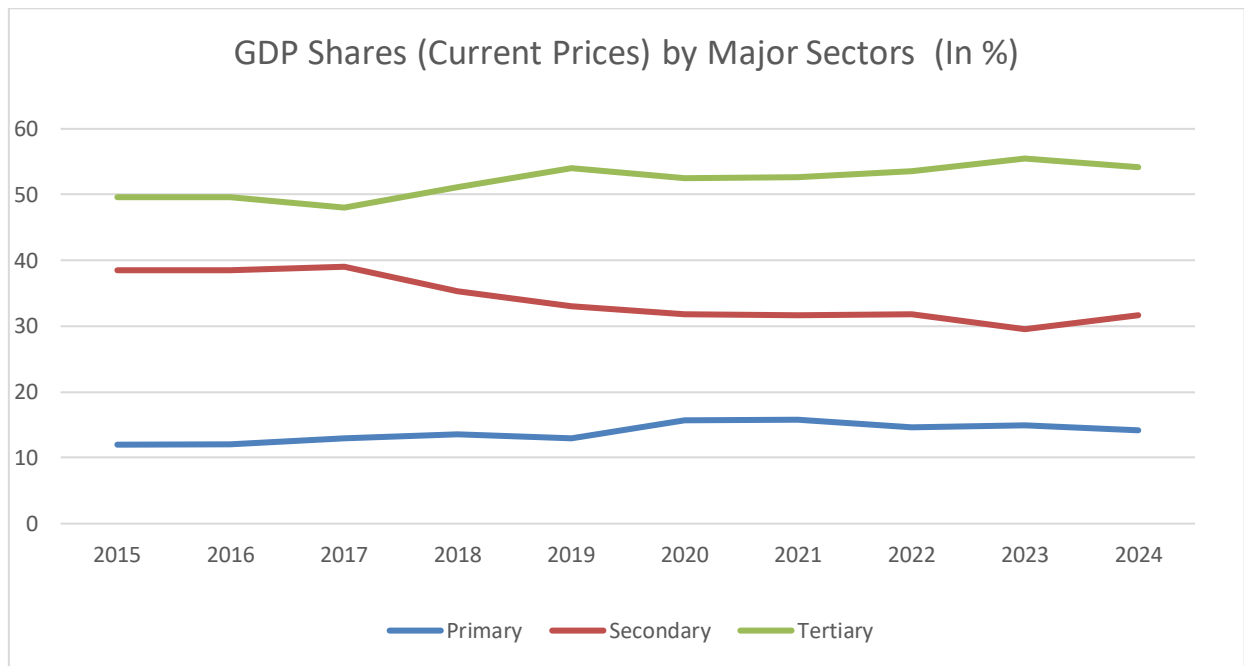


Figure 16: Change of GDP Share (Current Prices) by Major Sectors (2015-2024).

CHAPTER 2: TRADE

This chapter presents the statistical tables on year-wise import and export of RNR commodities from 2015 to 2024, as per the Bhutan Trade Statistics compiled by the Department of Revenue and Customs (DRC), Ministry of Finance. The import of selected types of farm machinery, fertilizers, and plant protection chemicals are presented separately.

The data on trade is useful for calculating trade balance, food balance sheet, food security, and many other indicators. It can also yield useful information with regard to trends in people's consumption patterns, the country's production capacity, and pointers for policymakers in relation to investment in agriculture and related industries.



Table 2.1.1 Export of major food items to India and COTI (2015-2024) (Volume in MT unless specified)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Rice in the husk	1006.10.00	0.01	0.05	-	2.40	0.80	-	-	0.00	0.60	0.50
Red Rice	1006.20.20	0.50	0.74	3.40	-	5.18	-	0.11	0.30	1.29	0.16
Semi-milled rice	1006.30.00	0.00	0.00	-	-	20.56	-	-	0.00	3.34	1.75
Wheat & Meslin flour	1101.00.00	4,323.80	0.00	510.72	858.48	1,519.06	228.98	-	0.00	0.00	0.00
Soya bean seed	1201.10.00/1201.00.00	4.80	1.75	40.84	7.40	9.00	6.40	-	0.00	0.00	2.35
Mustard seed	1207.50.00	10.10	2.00	3.07	3.00	3.20	-	5.25	0.08	1.51	0.12
Oranges	0805.10.00	17,819.80	15,545.65	16,141.16	11,086.85	15,110.58	8,168.52	12,533.28	9,043.83	13382.79	15771.08
Apples	0808.10.00	3,487.84	3,789.89	2,659.21	1,293.04	2,922.10	262.69	837.46	507.44	1622.38	1292.26
Cauliflower & broccoli	0704.10.00	1,012.82	1,381.93	34.05	2.15	8.37	1.61	1.19	17.92	9.87	2.00
Cabbage lettuce	0705.11.00	1,193.73	1,545.29	2,096.07	1,247.36	2,608.39	1,834.29	990.03	92.42	28.37	0.75
Carrots and turnips	0706.10.00	551.17	696.10	695.99	386.44	957.19	984.73	1,080.06	1,726.83	1449.18	1240.81
Potato	0701.90.00	19,907.68	24,443.18	24,045.32	24,983.40	26,074.35	20,137.15	27,104.93	23,789.54	22785.31	25001.68
Peas	0708.10.00	114.93	69.43	93.75	46.69	55.21	68.73	34.04	30.69	10.53	2.49
Beans	0708.20.00	6.70	20.40	15.04	17.37	40.34	65.27	64.46	101.34	37.31	46.19
Asparagus	0709.20.00	0.28	0.00	-	-	-	0.01	-	0.00	0.00	0.58
Chillies	0709.60.20	15.85	17.05	18.39	20.52	10.96	3.18	14.59	42.48	17.37	9.00
Lentils	0713.40.00	118.28	81.94	94.79	112.11	133.50	54.30	90.80	38.62	90.73	28.10
Betel nuts, in shell	0802.90.10/0802.80.10	1,457.75	7,719.92	5,714.40	6,510.54	5,194.28	6,239.60	6,038.61	7,114.96	1148.67	1387.89
Betel nuts, shelled	0802.90.20/0802.80.20	63.92	30.95	77.46	45.39	9.90	125.44	152.80	271.89	8.25	208.29
Betel leaves	1211.90.10	0.00	0.00	-	3.35	3.75	5.80	2.00	0.00	0.00	0.00
Cardamom	0908.30.00/0908.31.00	845.74	1,289.01	2,031.31	1,698.03	2,451.08	1,970.68	3,428.63	2,145.68	2055.94	1356.19
Ginger	0910.10.00/0910.11.00	-	-	3,947.95	3,368.59	2,317.75	3,033.36	4,716.35	4,017.76	2336.95	1327.50
Chirata	NA	1.63	0.00	0.06	0.03	2.26	0.00	0.00	0.00	0.00	0.00
Cordyceps	1211.90.50/0712.39.10	0.89	0.90	0.41	0.48	0.32	0.18	0.44	0.73	121.66	176.04
Poe	3307.41.10	13.70	21.14	11.17	111.78	30.41	18.46	77.66	16.88	22.06	15.31
Matsutake	0709.59.10/0709.55.00	3.05	4.11	4.01	5.32	5.26	2.65	5.12	3.43	6.34	9.98
Rubia (Tsoe)	3203.00.30	48.18	76.57	135.91	88.98	96.01	-	90.62	40.28	7.55	27.61

Source: Bhutan Trade Statistics, DRC

Table 2.1.2 Export of major food items to India and COTI (2015-2024) (Value in Million Nu.)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Rice in the husk	1006.10.00	1.20	4.28	-	0.04	0.02	-	-	0.00	0.01	0.00
Red Rice	1006.20.20	0.08	0.07	0.43	-	0.75	-	0.01	0.02	1.60	0.10
Semi-milled rice	1006.30.00	0.00	0.00	-	-	0.70	-	-	0.00	0.19	0.07
Wheat & Meslin flour	1101.00.00	80.56	0.00	10.25	19.51	35.86	5.63	-	0.00	0.00	0.00
Soya bean seed	1201.10.00/1201.00.00	0.22	0.10	1.23	0.31	0.28	0.13	-	0.00	0.00	0.11
Mustard seed	1207.50.00	0.23	0.04	0.10	0.09	0.09	-	0.26	0.07	0.04	0.01
Oranges	0805.10.00	467.62	439.08	478.37	354.84	530.04	295.52	448.82	337.24	500.86	624.78
Apples	0808.10.00	101.86	128.11	69.18	33.83	81.81	6.80	21.01	21.05	51.65	30.55
Cauliflower & broccoli	0704.10.00	22.10	12.12	0.76	0.16	0.25	0.04	3.00	0.40	0.35	0.07
Cabbage lettuce	0705.11.00	23.98	26.11	34.54	22.74	41.81	40.48	10.64	1.53	0.38	0.01
Carrots and turnips	0706.10.00	17.47	22.94	18.85	11.24	28.34	27.49	17.54	45.71	40.56	46.47
Potato	0701.90.00	370.97	542.50	458.70	511.06	521.05	534.36	500.69	383.50	311.58	539.40
Peas	0708.10.00	3.08	2.31	2.64	1.80	1.69	2.97	1.02	0.93	0.56	0.06
Beans	0708.20.00	0.23	0.67	0.41	0.53	1.36	2.67	2.02	3.99	1.75	2.53
Asparagus	0709.20.00	0.01	0.00	-	-	-	0.00	-	0.00	0.00	0.36
Chillies	0709.60.20	0.70	0.63	0.55	0.66	2.78	0.19	0.48	1.48	0.60	0.31
Lentils	0713.40.00	8.12	6.15	6.29	6.81	7.65	3.42	5.71	1.74	4.75	0.99
Betel nuts, in shell	0802.90.10/0902.80.10	84.80	82.88	105.89	120.86	115.42	134.74	176.50	206.25	31.70	36.72
Betel nuts, shelled	0802.90.20/0802.80.20	1.13	0.54	1.48	1.35	0.26	3.38	5.77	7.57	0.27	11.18
Betel leaves	1211.90.10	0.00	0.00	-	0.19	0.11	0.13	0.04	0.00	0.00	0.00
Cardamom	0908.30.00/0908.31.00	940.86	1,342.38	1,330.22	929.41	1,227.62	1,011.56	1,712.25	1,320.40	1,226.57	1234.69
Ginger	0910.10.00/0910.11.00	-	-	70.41	75.10	92.13	95.76	91.71	73.04	52.82	46.56
Chirata	NA	0.09	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
Cordyceps	1211.90.50/0712.39.10	194.42	141.89	183.94	210.57	172.67	94.89	108.90	214.84	46.84	99.99
Poe	3307.41.10	3.98	6.15	6.78	6.07	6.92	4.86	10.43	5.21	6.81	3.52
Matsutake	0709.59.10/0709.55.00	12.33	18.66	18.59	27.54	27.87	14.76	18.87	21.07	35.47	50.69
Rubia (Tsoe)	3203.00.30	0.97	1.55	3.37	1.78	2.42	-	5.59	3.55	0.44	1.75

Source: Bhutan Trade Statistics, DRC

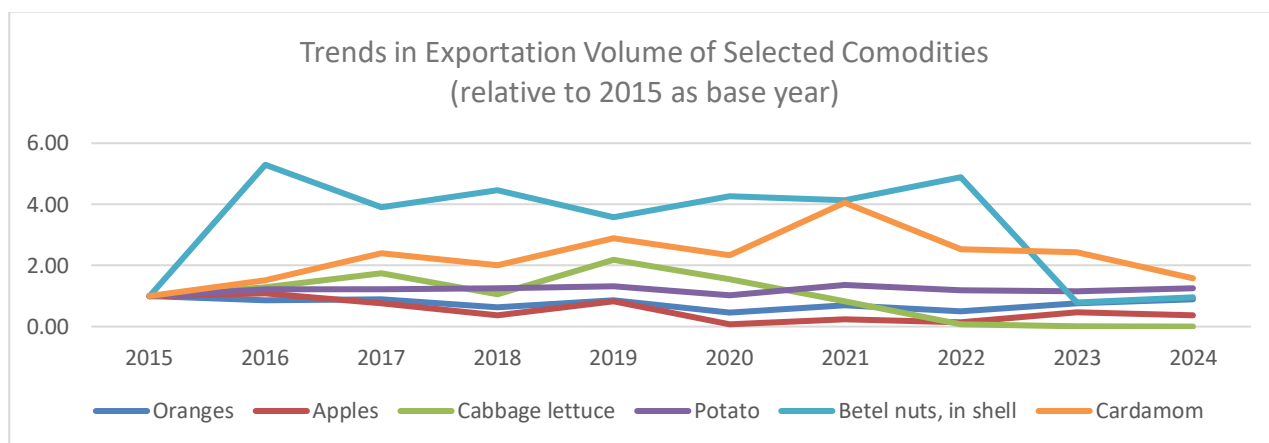


Figure 17: Trends in export value of selected food items to India and COTI, relative to 2015 figures (2015-2024)

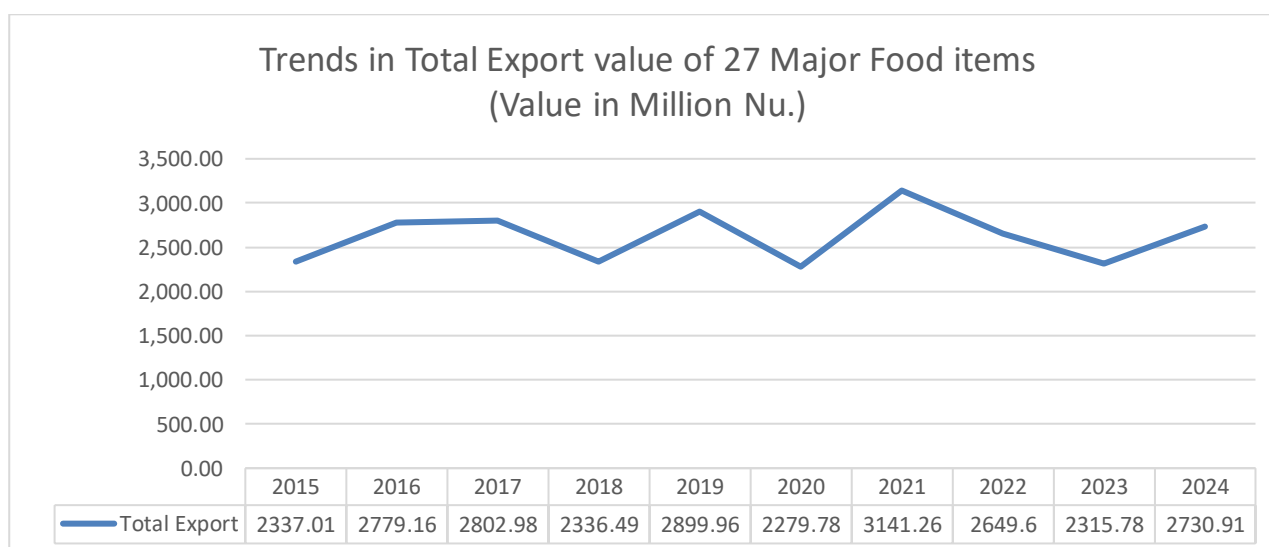


Figure 18: Trends in total export value of 27 major food items listed in Table 2.1.2 (2015-2024)

Table 2.2.1 Import of major food items from India and COTI (2015-2024) (Volume in MT unless specified)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Meat											
Bovine meat	02.01/ 02.02	4,111.79	3,470.47	3,120.31	3,194.07	3,788.15	1,729.93	1,728.27	1,972.34	1961.36	1247.33
Swine meat	2.03	2,242.34	1,879.97	1,869.84	1,755.00	1,684.01	756.24	2,001.46	1,224.37	1.14	219.03
Chevon	2.04	27.81	30.15	34.17	30.93	29.82	2.47	0.58	0.87	2.77	2.41
Chicken	2.07	1,369.36	1,474.51	1,584.46	1,575.11	1,631.95	1,647.72	2,275.18	2,825.54	2583.16	2454.76
Offal of bovine/swine/chevon	2.06	-	-	89.91	88.73	115.15	21.07	1	16.75	46.08	48.47
Fish											
Fish fresh or frozen	03.02/ 03.03	1,327.24	1,262.27	1,316.15	827.82	710.67	1,092.96	1,389.11	1,554.29	1777.02	1767.75
Fish fillets, fresh, chilled	3.04	-	-	9.95	3.93	2.31	15.56	28.26	56.89	27.701	44.40
Dry fish	3.05	1,129.17	811	189.62	336.25	383.57	766.58	937.39	875.58	916.77	897.55
Seafood											
Crustaceans	3.06	-	-	18.09	1.03	4.18	28.23	21.02	13.39	19.88	21.57
Mollusks	3.07	-	-	0.26	0.23	0.23	0.02	-	14.35	0.42	0.88
Dairy product											
Fresh milk	0401.20.10	140.9	131.02	127.49	62.37	16.35	44.37	13.89	16.82	78.94	41.44
Tetra pack	0401.20.20	625.03	1,796.50	1,523.41	1,226.81	3,042.24	3,005.78	3,903.17	3,821.76	7015.76	8405.65
Condensed milk	0401.30.00/0401.40.00	317.2	30.05	16.23	7.4	1.36	56.83	615.21	958.04	433.89	621.11
Milk powder	0402.10.00	2,009.84	2,221.89	1,574.74	783.79	696.88	743.45	829	785.52	937.58	581.42
Yogurt	0403.10.00/ 0403.20.00	-	-	5.59	20.08	11.55	4.05	4.35	16.39	30.92	97.40
Butter, fresh	0405.10.10	1.19	0.96	0.79	0.25	2.12	3.81	0.03	0.03	3.35	0.40
Butter, processed	0405.10.20	213.8	200.51	206.5	661.57	170.14	161.68	211.48	215.59	292.17	268.18
Cheese, fresh	0406.10.00	8.8	9.17	4.87	1.6	0.47	12.87	11.41	11.71	2.02	12.75
Cheese, processed	0406.30.00	1,006.54	1,266.33	1,298.80	1,159.19	1,139.28	1,111.69	1,128.65	1,254.20	1,093.90	1117.36

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Continued from the previous page (Table 2.2.1 Import of major food items from India and COTI) (volume)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Natural honey	0409.00.00	34.54	42.79	39.04	64.72	42.29	41.93	52.18	64.91	69.03	41.64
Fresh vegetables											
Potatoes seed	0701.10.00	15.61	0.89	44.23	7.38	17.44	17.82	-	-	0.11	4.80
Potatoes others	0701.90.00	5,994.07	5,468.22	5,237.70	4,690.27	4,892.58	4,550.96	6,831.46	4,199.56	5010.3	4598.18
Tomatoes	0702.00.00	2,538.71	2,831.98	2,978.46	2,636.85	2,590.79	3,017.68	4,296.63	4,769.96	4334.18	4189.96
Onion & shallots	0703.10.00	3,380.64	3,478.04	3,748.34	3,558.75	3,308.13	4,087.42	6,069.67	6,329.70	5297.1	4496.39
Garlic	0703.20.00	36.92	37.25	61.36	49.06	47.88	104.86	368.55	317.72	330.41	250.38
Leeks & others	0703.90.00	13.75	6.37	3.42	4.4	3.19	0.9	2.91	14.3	1.22	1.65
Cauliflower & broccoli	0704.10.00	1,219.23	767.54	13.54	19.26	36.58	55.87	38.25	183.5	153.95	173.35
Cabbage lettuce	0705.11.00	1,517.93	1,381.94	1,662.90	1,328.81	1,367.93	1,206.11	229.29	566.45	226.17	157.04
Carrots and turnips	0706.10.00	166.33	171.56	266.42	255.89	313.42	286.76	81.52	374.78	410.53	365.56
Cucumber & gherkins	0707.00.00	391.46	435.47	492.05	385.7	409.97	311.31	642.69	667.62	767.57	692.28
Peas	0708.10.00	77.81	107.19	139.39	86.64	120.42	171.33	377.97	304.4	289.82	238.01
Beans	0708.20.00	331.07	335.84	0.68	1.3	-	0.21	0.77	0.06	0.29	0.06
Other leguminous vegetable	0708.90.00	2,007.65	1,729.26	1,595.25	1,091.15	1,341.45	560.85	1,245.77	537.3	213.84	2.01
Egg-plants)	0709.30.00	571	572	713.19	491.43	586.88	467.53	712.87	723.42	698.86	674.44
Mushroom	0709.51.00	11.1	26.47	129	178.93	79.69	72.04	548.68	647.87	710.68	763.81
Capsicum	0709.60.10	0.58	2.16	0.08	0.12	0.12	-	0.02	0.92	4.21	6.68
Chilli	0709.60.20	2,290.76	1,846.06	333.9	28.94	7.57	-	0.74	1,262.18	2081.86	2529.23
Spinach	0709.70.00	1.39	7.29	4.76	1.68	2.52	0.79	1.67	7.65	14.72	5.70
Pumpkin/squash/gourd	0709.93.00	124.03	111.72	147.04	213.2	217.26	261.81	366.19	829.82	901.42	636.92
Others	0709.99.00	1,033.10	1,682.69	1,838.52	2,035.46	749.97	912.28	845.06	1,302.78	1226.32	1175.54
Dried vegetable											
Onion	0712.20.00	31.44	24.18	28.47	29.24	46.11	2.36	65.55	85.42	92.82	13.43

(Continued)

Continued from the previous page (Table 2.2.1 Import of major food items from India and COTI) (volume)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Dry mushroom	0712.31.00	8.71	12.06	12.24	10.92	21.22	14.29	53.9	32.57	19.45	18.88
Mixture of vegetable	0712.90.00	0.79	0.16	1.1	0.79	2.82	6.72	2.57	4.72	3.29	1.15
Pea	0713.10.00	176.62	292.42	208.37	51.81	38.78	51.06	102.3	50.79	58.86	62.65
Chickpea	0713.20.00	137.24	180.52	186.01	234.12	170.06	279.37	481.17	363.97	358.33	469.79
Beans	0713.31.00	0.21	2.72	0.22	0.08	0.25	0.28	1.26	1.52	0.19	2.70
Cow pea	0713.35.00	0	0.02	0.81	0.19	-	-	-	0.02	0.23	0.00
Lentils	0713.40.00	2,647.75	2,103.20	2,141.28	2,116.82	2,141.29	2,383.63	3,008.42	2,656.78	2346.53	2127.83
Fresh fruits											
Plantains	0803.10.00	187.93	32.29	123.78	70.58	182.79	74.58	121.48	60.88	71.18	130.11
Bananas	0803.00.00/ 0803.90.00	494.14	504.84	472.46	578.42	673.24	588.7	986.78	1,753.07	1913.82	1860.36
Dates	0804.10.00	0.38	0.64	0.57	6.43	6.92	18.58	4.33	6.1	4.97	5.86
Pineapple	0804.30.00	706.13	959.63	519.11	276.9	276.87	106.67	164.29	210.88	304.07	303.11
Avacado	0804.40.00	0	0.11	1.13	0.1	0.08	0.15	9.24	26.96	13.95	18.67
Guavas	0804.50.10	2.1	1.59	2.26	2.17	2.27	13.19	19.88	14.74	42.1	17.07
Mangoes	0804.50.20	734.46	582.67	619.19	434.81	442.3	806.23	1,116.83	1,227.38	1294.06	1011.49
Orange	0805.10.00	93.61	100.58	86.84	86.06	112.07	103.67	103.82	199.69	322.55	375.33
Lemon	0805.50.00	77.62	42.09	89.21	114.5	156.89	114.4	420.91	387.89	392.53	371.18
Grapes	0806.10.00	18.37	16	26.91	13.53	20.07	44	278.96	281.22	337.76	346.72
Watermelons	0807.11.00	776.17	756.55	813.92	742.33	706.03	628.03	2,338.18	2,370.82	2360.51	2367.75
Papayas	0807.20.00	85.67	73.51	79.68	78.27	84.17	42.67	82.17	121.9	119.7	188.70
Apples	0808.10.00	73.25	123.13	185.58	73.58	165.73	265.12	629.69	646.94	742.69	690.10
Pears	0808.20.00/0808.30.00	17.95	23.58	41.14	5.86	9.43	13.77	122.86	168.04	201.08	220.62
Apricot	0809.10.00	1.17	0.02	0.03	0.07	8.83	0.09	0	0.06	0.92	0.00
Kiwi	0810.50.00	7.51	2.51	1.1	0.01	0.07	0.29	15.9	20.66	16.73	13.72

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Continued from the previous page (Table 2.2.1 Import of major food items from India and COTI) (volume)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Others	0810.90.00	78.47	419.2	525.04	485.23	159.78	117.57	677.81	344.22	296.01	287.30
Dried fruits											
Grapes	0806.20.00	0.64	0.73	1	0.94	4	6.31	6.23	9.72	10.86	13.71
Apricot	0813.10.00	0.18	0.01	0.01	0.17	0.15	0.11	0.41	0.6	0.28	0.30
Prunes	0813.20.00	0.12	0.1	0.01	0.32	-	0.09	0.05	0.38	3.75	0.34
Apples	0813.30.00	0.14	0.01	0.04	-	1.27	-	0.1	0.18	0.07	0.14
Other fruits	0813.40.00	20.58	8.36	17.66	11.18	33.48	8.63	23.12	32.68	19.23	4.33
Mix nuts & fruits	0813.50.00	107.26	19.34	19.17	15.23	14.58	8.06	7.86	6.04	13.48	26.24
Green tea											
Green tea (not fermented)	0902.10.00	6.25	5.9	3.07	10.02	15.48	39.5	88.11	120.92	99.08	157.56
Other green tea	0902.20.00	111.93	23.16	40.26	44.32	50.56	65.92	31.38	40.45	12.72	9.31
Black tea(fermented)	0902.30.00	292.59	333.51	346	347.08	296.06	430.39	425.47	341.47	256.43	204.34
Other	0902.40.90	59.05	6.88	26.68	11.54	25.69	21.4	42.76	37.23	107.15	129.30
Spices											
Chilli dry	0904.21.90/0904.20.20	358.71	365.15	542.99	323.36	250.43	663.37	858.12	477.62	291.95	344.27
Chilli crush	0904.22.90/0904.20.30	40.46	41.73	33.47	49.19	0.04	53.54	45.81	54.07	30.16	24.08
Cinnamon	0906.11.00	0.65	0.62	0.82	0.11	0.25	0.67	1.04	0.99	0.95	1.15
Clove not crush or ground	0907.00.00/ 0907.10.00	0.17	0.45	1.57	0.25	0.25	1.08	1.36	3.37	4.23	3.83
Clove crush	0907.20.00	0	0.04	0.01	0.82	1.7	1.79	1.71	1.54	0.49	0.02
Cardamoms	0908.30.00/0908.31.00	3.4	0	0.49	0.49	0.42	1.38	6.74	47.06	3.84	5.40
Turmeric	0910.30.00	32.02	14.43	16.28	11.83	11.16	23.11	33.36	45.28	39.87	47.84
Ginger	0910.10.00/0910.11.00	0	0	1.14	0.97	3.16	3.38	1.96	1.87	1.95	0.68
Mixtures	0910.91.00	1.74	1.19	1.08	8.01	2.95	30.08	32.77	34.36	20.15	32.34
Other spices	0910.99.00	166.75	136.2	112.14	74.28	79.08	148.97	127.38	191.97	97.31	73.76

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Continued from the previous page (Table 2.2.1 Import of major food items from India and COTI) (volume)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cereals seed											
Wheat seed	1001.11.00	0	0	-	-	24.98	55.05	72.02	35.74	4.23	9.05
Wheat other	1001.10.00/1001.19.00	11,074.72	5,024.99	3,365.70	3,042.16	4,808.54	2,569.01	896.2	800.57	342.91	593.47
Meslin seed	1001.91.00	0.2	20	18.52	4	4.14	-	12.45	44.34	1.13	1.17
Meslin other	1001.90.00/1001.99.00	273.02	34.13	45.39	24.43	55.51	660.43	1,045.78	1,867.58	733.16	846.94
Rye	1002.90.00	4.81	10.66	1.77	2.47	4.31	5.86	0.07	0	0.05	0.23
Barley	1003.00.00/1003.10.00	61.39	1.5	0.02	0.01	0.06	-	1.05	0.74	0	0.00
Oats seed	1004.10.00	0	0.11	0.04	0.05	-	0.06	-	0	0	0.00
Oats other	1004.00.00/1004.90.00	0.47	0.93	0.6	0.13	0.13	0.96	0.58	2.79	0.49	0.12
Maize (corn) seed	1005.10.00	16.27	57.15	14.45	45.17	74.98	185.54	129.74	85.38	52.42	84.12
Maize others	1005.90.00	9,217.93	19,063.17	24,076.30	21,718.78	15,855.68	18,617.94	26,315.19	25,531.63	39756	51444.92
Buckwheat	1008.10.00	34.01	2.25	10.4	1.17	12.1	24.38	7.94	5.36	3.59	3.56
Buckwheat seed	1008.21.00	5.75	1.2	0.76	6.96	2.03	3.15	4.32	9.4	1.5	35.20
Buckwheat other	1008.29.00	360.05	307.55	114.94	112.43	107.96	95.25	120.76	100.18	99.08	141.24
Other cereals	1008.90.00	50.63	3.92	3.92	39.57	17.11	32.59	73.35	52.86	13.16	2.07
Rice											
Rice in the husk	1006.10.00	199.02	77.52	538.96	76.75	115.04	93.24	8	7.75	161.67	149.10
Husked (brown) rice	1006.20.10	11,787.90	12.63	34.84	13.74	1.02	3.34	0.04	7.47	2.27	0.07
Red rice (yeechum)	1006.20.20	0	0.33	2.25	8.28	0.3	-	-	0.54	0	0.00
Semi-milled rice	1006.30.00	52,851.77	64,309.28	62,069.45	60,267.80	61,030.58	77,564.68	68,371.48	79,327.45	93294.52	60825.01
Broken Rice	1006.40.00	18,807.38	23,271.47	15,804.08	11,144.33	23,443.06	12,820.82	25,353.17	10,347.69	1142.89	124.26
Flour											
Wheat & Meslin flour	1101.00.00	6,633.23	6,903.12	7,420.14	7,139.72	7,019.57	9,062.42	8,944.11	8,699.77	8129.46	10650.06
Maize(corn)flour	1102.20.00	117.39	366.7	642.81	343.9	127.62	295.56	420.12	377.86	486.76	213.26

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Continued from the previous page (Table 2.2.1 Import of major food items from India and COTI) (volume)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Maize (other)	1102.90.00	277.62	322.44	125.73	158.72	226.43	95.67	172.83	214.31	516.5	330.07
Oil Seeds											
Soya bean seed	1201.10.00/1201.00.00	0	0.75	0.72	-	0.01	0.83	0.62	0.06	0	0.05
Soya bean other	1201.90.00	1.59	1.02	0	0.37	0.33	1.39	3.72	0.65	0.44	0.26
Ground nut seed	1202.30.00	0	0.25	0.56	0.28	0.24	15.54	14.64	23.14	7.03	14.73
Ground nut, in shell	1202.10.00/1202.41.00	20.9	11.19	9.06	6.57	4.41	1.82	7.74	5.2	11.85	11.45
Ground nut,shelled	1202.20.00/1202.42.00	14.51	15.38	17.97	19.75	18.23	17.84	22.05	22.87	29.87	37.64
Linseed	1204.00.00	0	0.01	0	0.02	0.01	0.24	0.68	3.64	1.13	0.26
Sunflower seed	1206.00.00	1.08	0.24	0.32	0.06	0.42	0.17	0.58	0.37	0.96	1.24
Sesamum seed	1207.40.00	0.02	0.01	0.02	0.13	0.08	2.94	3.75	3.92	1.05	3.14
Mustard seed	1207.50.00	9.88	19.88	8.73	2.06	12.75	6.62	11.09	16.82	10.36	10.04
Betel Nuts and leaves											
Betel leaves(total)	1211.90.10	861.38	670.98	667.21	615.16	675.47	671.12	1,783.56	1,194.95	914.15	806.79
Betel nuts,in shell	0802.90.10/0802.80.10	32.32	31.77	12.48	14.45	2.15	79.97	250.23	-	30.187	12.31
Betel nuts, shelled	0802.90.20/0802.80.20	134.97	187.15	15.24	191.85	186.55	205.16	749.81	-	494.017	587.57
Oil											
Soya bean oil	1507.90.00	12,648.09	10,291.98	10,684.52	9,778.27	10,078.76	10,534.84	11,640.68	11,047.82	11223.72	11323.08
Ground nut oil	1508.90.00	0.03	0.56	-	1.49	4.14	0.12	1.66	0.03	-	0.21
Olive oil	1509.90.00	22.56	27.22	12.24	35.89	26.58	37.78	36.86	24.02	25.57	54.04
Sunflower oil	1512.19.00	231.61	255.92	146.36	168.98	85.9	0.02	206.12	115.74	46.24	53.51
Palm oil	1511.10.90	73.04	109.35	0.38	56.49	1.43	-	2.55	2.03	0	0.15
Refined bleached deodorised palm oil	1511.90.10	8.52	3.53	-	3.23	6.78	6	31.63	0.36	27.96	52.33
Refined bleached deodorised palmolein	1511.90.20	1.93	0.08	1.12	2,900.12	2,084.84	69.08	48.62	357.79	376.76	491.72

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Continued from the previous page (Table 2.2.1 Import of major food items from India and COTI) (volume)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other palm oil	1511.90.90	19.09	3.47	1.55	1.48	28.57	28.26	7.81	3.28	49.38	4.63
Colza/mustard oil	1514.99.00	147.16	41.88	50.37	68.41	47.89	-	193.69	167.27	179.96	214.50
Safflower/cotton-seed oil	1512.29.00	0	3.49	1.46	0.18	0.22	0.12	5.17	3.04	0	0.05
Coconut oil	1513.19.00	0.1	0.48	1.63	2.72	2.23	5.14	9.77	5.07	4.06	6.02
Babassu oil	1513.29.00	0	0.97	0.01	0.31	0.95	0.17	0.71	0.07	0.29	0.04
Rape oil	1514.19.00	1,098.92	841.16	0.72	636.27	631.26	459.96	274.77	274.3	258.97	165.42
Oil Crude											
Olive (crude)	1509.10.00	0.12	0.24	1.35	3.08	5.34	15.05	5.42	-	-	0.00
Sunflower (Crude)	1512.11.00	4.41	0	-	-	0.59	0.04	4.96	-	-	0.00
Soya bean (crude)	1507.10.00	11.55	0.03	1.46	2.57	0.84	1.84	4.06	44.02	63.59	13.64
Rape crude	1514.11.00	0.48	0.02	1.28	0.38	-	0.01	0.26	1.25	6.82	0.00
Colza/mustard crude	1514.91.00	1.66	0	4.3	33.82	17.93	6.83	28.06	44.74	52.81	24.61
Palm (crude)	1511.10.10	0	0	-	-	2,134.94	0.11	0.27	0.35	0	0.00
Sugar											
Beet sugar	1701.12.00	94.05	28.07	1.5	67.57	101.77	100.53	14.22	12.73	0.89	0.36
Other sugar cane	1701.11.00/1701.14.00	9,356.11	9,524.34	10,832.92	9,841.37	9,738.92	8,959.45	9,713.09	9,300.11	7227.8	9350.66
Salt											
Common salt (iodised)	2501.00.10	6,825.04	4,688.63	5,621.68	6,979.19	6,945.27	6,830.22	7,222.81	7,641.98	7093.41	6829.04
Common salt (non-iodised)	2501.00.20	505.35	2,195.37	905.38	191.98	73.48	296.27	246.09	231.41	250.04	405.15

Source: Bhutan Trade Statistics, DRC

Table 2.2.2 Import of major food items from India and COTI (2015-2024) (Value in Million Nu.)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Meat											
Bovine meat	02.01/ 02.02	569.71	497.39	447.56	488.56	627.25	317.45	369.7	428.75	407.99	351.42
Swine meat	2.03	327.96	292.5	276.75	274.64	285.95	136.3	451.62	295.14	0.4	66.60
Chevon	2.04	10.37	10.35	10.98	13.68	12.8	1.36	0.67	2.04	4.88	7.19
Chicken	2.07	173.68	185.2	205.09	200.11	211.26	222.27	342.57	491.49	430.81	421.50
Offal of bovine/swine/chevon	2.06	-	-	9.32	9.45	13.53	2.6	0.11	2.73	7.32	10.65
Fish											
Fish fresh or frozen	03.02/ 03.03	177.43	170.97	180.31	119.02	106.94	171.34	218.51	255.61	298.41	297.34
Fish fillets, fresh, chilled	3.04	0	0	1.03	2.13	1.78	3.12	4.21	9.55	9.29	10.24
Dry fish	3.05	132.84	103.91	25.68	55.02	61.76	127.67	226.03	225.97	220.48	207.52
Seafood											
Crustaceans	3.06	-	-	2.7	1.47	3.42	7.65	5.87	9.02	13.02	17.11
Mollusks	3.07	-	-	0.29	0.4	0.32	0.02	-	0.18	0.75	2.61
Dairy product											
Fresh milk	0401.20.10	5.49	5.1	4.18	3.05	1.07	2.31	0.77	0.93	6.91	2.78
Tetra pack	0401.20.20	30.89	100.91	85.3	69.57	157.18	164.95	215.46	214.92	416.36	494.76
Condensed milk	0401.40.00/0401.30.00	15.26	1.53	0.83	0.56	0.13	3.06	33.19	49.81	25.62	35.47
Milk powder	0402.10.00	579	598.25	445.44	176.15	167.64	258.01	247.6	255.85	351.06	226.44
Yogurt	0403.10.00/ 0403.20.00	-	-	0.39	1.23	0.84	0.19	0.45	0.58	2.91	9.20
Butter, fresh	0405.10.10	0.4	0.37	0.28	0.1	0.84	1.53	0.1	0.26	1.54	0.22
Butter, processed	0405.10.20	61.67	62.95	67.88	61.91	58.41	58.98	78.29	87.69	122.78	125.81
Cheese, fresh	0406.10.00	1.58	1.82	1.03	0.28	0.18	1.92	1.88	2.91	0.54	4.83
Cheese, processed	0406.30.00	356.84	449.17	510.1	477.79	449.42	476.91	518.98	557.41	564.06	563.39

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Continued from the previous page (Table 2.2.2 Import of major food items from India and COTI) (value)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Natural honey	0409.00.00	7.02	8.36	8.07	11.3	9.72	10.31	12.62	16.42	13.22	10.70
Fresh vegetables											
Potatoes seed	0701.10.00	0.15	0.01	0.43	0.57	0.21	0.78	-	-	4.56	0.13
Potatoes others	0701.90.00	60.32	81.45	50.69	62.76	59.56	97.71	132.57	82.15	88.75	112.23
Tomatoes	0702.00.00	58.32	56.23	70.14	46.73	62.28	99.99	150.19	183.07	152.81	149.45
Onion & shallots	0703.10.00	99.09	60.93	83.78	74.2	83.14	137.12	226.59	184.72	156.22	199.13
Garlic	0703.20.00	3.73	3.93	4.29	2.57	3.32	12.32	53.01	41.49	50.48	51.86
Leeks & others	0703.90.00	0.27	0.4	0.06	0.09	0.08	0.05	0.16	0.57	0.04	0.07
Cauliflower & broccoli	0704.10.00	17.02	11.48	0.23	0.32	0.68	0.9	1.34	5.2	3.52	5.14
Cabbage lettuce	0705.11.00	11.84	13.6	15.07	10.78	13.11	11.72	4.65	12.68	3.74	2.56
Carrots and turnips	0706.10.00	1.97	2.79	3.84	3.07	4.69	5.45	2.79	11.28	11.55	9.97
Cucumber & gherkins	0707.00.00	5.95	8.21	8.26	6.47	8.36	5.09	17.69	19.64	19.79	20.11
Peas	0708.10.00	2.33	3.51	4.9	25.81	4.07	7.25	20	16.28	14.82	13.25
Beans	0708.20.00	9.39	9.59	0.02	0.02	-	0	0.05	0	0.06	0.02
Other leguminous vegetable	0708.90.00	43.75	43.56	37.46	24.56	30.92	13.55	59.56	19.56	6.86	0.05
Egg-plants)	0709.30.00	9.63	10.21	11.75	8.89	11.93	11.48	19.68	24.02	20.61	20.29
Mushroom	0709.51.00	0.1	1.84	8.8	12.71	6.11	6.03	75.82	75.36	78.51	90.98
Capsicum	0709.60.10	0.1	0.12	0.03	0.04	0.01	-	0.01	0.06	0.22	0.30
Chilli	0709.60.20	70.87	59	9.28	0.64	0.19	-	0.13	80.77	115.67	145.45
Spinach	0709.70.00	0.02	0.14	0.11	0.04	0.04	0.02	0.09	0.35	0.42	0.16
Pumpkin/squash/gourd	0709.93.00	1.37	1.43	1.62	3.17	3.52	4.73	12.72	25	24.43	15.44
Others	0709.90.00/0709.99.00	21.94	38.74	35.91	36.96	16.6	26.28	38.71	58.26	48.17	42.12
Dried vegetable											
Onion	0712.20.00	0.92	0.39	0.73	0.53	1.18	0.08	2.22	3.03	2.35	0.49

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Continued from the previous page (Table 2.2.2 Import of major food items from India and COTI) (value)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Dry mushroom	0712.31.00	1.45	2.24	1.47	1.68	2.45	2.16	6.56	3.63	5.06	6.98
Mixture of vegetable	0712.90.00	0.06	0.05	118.49	0.09	1.43	0.84	0.33	0.54	0.27	0.27
Pea	0713.10.00	7.39	10.85	10.64	2.41	1.87	3.48	6.22	3.65	3.85	3.53
Chickpea	0713.20.00	6.77	12.59	14.27	10.41	9.38	18.9	30.46	25.95	25.4	38.63
Beans	0713.31.00	0.02	0.2	0.08	0.03	0.04	0.04	0.1	0.15	0.03	0.28
Cow pea	0713.35.00	0	0.02	0.02	0	-	-	-	0	0.02	0.00
Lentils	0713.40.00	175.56	146.22	119.68	113.66	127.97	161.58	234.72	224.57	177.41	172.55
Fresh fruits											
Plantains	0803.10.00	3.36	0.77	2.56	1.56	4.1	1.98	5.06	2.15	2.16	3.42
Bananas	0803.00.00/ 0803.90.00	9.12	9.93	10.15	12.11	12.57	14.07	42.8	68.13	69.66	65.26
Dates	0804.10.00	0.06	0.12	0.13	0.32	0.42	1.34	0.9	1.73	1.21	1.94
Pineapple	0804.30.00	7.44	10.9	7.2	4.98	5.18	3.18	6.38	8.07	10.84	10.25
Avacado	0804.40.00	0	0.13	0.32	0.2	0.13	0.08	1.85	4.92	2.83	5.11
Guavas	0804.50.10	0.08	0.05	0.08	0.14	0.08	0.3	2	1.27	2.4	1.45
Mangoes	0804.50.20	25.58	25.09	24.68	15.13	20.06	49.88	93	108.77	80.54	84.67
Orange	0805.10.00	5.43	6.43	5.34	5.26	6.37	7.83	12.53	24.06	37.92	45.15
Lemon	0805.50.00	2.53	2.35	3.78	15.15	5.4	6.96	27.73	27.81	24.66	25.17
Grapes	0806.10.00	1.96	1.79	2.21	1.2	1.42	3.86	39.02	36.58	45.15	42.64
Watermelons	0807.11.00	16.13	16.59	17.9	15.71	15.17	14.17	72.16	79.15	71.19	72.17
Papayas	0807.20.00	2.27	2.16	2.3	2.4	2.64	1.71	4.52	6.03	5.71	8.95
Apples	0808.10.00	7.94	12.76	19.28	7.02	14.12	33.71	104.42	100.17	112.12	114.23
Pears	0808.20.10/ 0808.30.00	1.7	2.25	3.26	0.45	0.77	1.51	20.08	27.73	35.12	42.13
Apricot	0809.10.00	0.01	0.01	0	0.02	0.46	0.02	0	0.01	0.15	0.00
Kiwi	0810.50.00	0.58	0.15	0.04	0	0.01	0.04	3.03	3.96	3.55	3.20

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Continued from the previous page (Table 2.2.2 Import of major food items from India and COTI) (value)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Others	0810.90.00	6.95	19.68	21.6	21.35	9.13	8.34	71.68	42.66	39.43	38.68
Dried fruits											
Grapes	0806.20.00	0.15	0.15	0.17	0.18	0.32	1.48	1.52	2.78	2.73	3.61
Apricot	0813.10.00	0.06	0.01	0.01	0.16	0.03	0.09	0.12	0.38	0.22	0.27
Prunes	0813.20.00	0.01	0.01	0.01	0.05	-	0.04	0.03	0.21	0.22	0.29
Apples	0813.30.00	0.01	0.01	0.01	-	0.08	-	0.02	0.05	0.01	0.05
Other fruits	0813.40.00	3.04	2.07	0.65	1.44	2.3	1.07	5.09	7.06	4.14	1.34
Mix nuts & fruits	0813.50.00	6.81	5.33	4.42	2.38	2.18	1.92	2.9	2.19	3.68	3.88
Green tea											
Green tea (not fermented)	0902.10.00	1.57	1.69	1.94	2.55	4.42	13.5	29.47	40.43	27.99	47.30
Other green tea	0902.20.00	2.71	4.84	10.86	9.87	10.84	13.78	8.81	9.68	5.79	3.45
Black tea(fermented)	0902.30.00	70.88	79.23	76.81	78.4	61.47	101.72	118.08	100.97	76.51	63.58
Other	0902.40.90	11.16	1.84	29.5	5.67	1.53	3.03	4.94	8.47	26.91	33.17
Spices											
Chilli dry	0904.21.90/0904.20.20	37.88	43.92	38.25	29.62	27.22	100.32	135.62	101.7	67.85	67.72
Chilli crush	0904.22.90/0904.20.30	6.3	7.48	5.19	6.22	0.01	11.4	12.39	16.81	11.47	8.67
Cinnamon	0906.11.00	0.09	0.11	0.08	0.05	0.08	0.21	0.59	0.24	0.24	0.36
Clove not crush or ground	0907.00.00/ 0907.10.00	0.13	0.26	1.02	0.05	0.16	0.5	0.87	2.22	2.8	3.20
Clove crush	0907.20.00	0	0.02	0.01	0.59	0.89	1.02	1.23	1.23	0.41	0.00
Cardamoms	0908.30.00/0908.31.00	2.07	0	0.39	0.38	0.62	2.57	3.29	4.53	5.22	10.56
Turmeric	0910.30.00	4.69	2.35	2.94	1.88	1.94	4.02	7.25	10.89	9.72	15.25
Ginger	0910.10.00/0910.11.00	0	0	3.34	0.42	0.18	0.29	0.14	0.22	0.32	0.13
Mixtures	0910.91.00	0.43	0.15	0.3	1.07	2.39	3.72	8.47	10.91	8.73	12.82
Other spices	0910.99.00	34.27	29.19	23.4	14.83	13.79	22.42	30.36	41.6	33.71	29.40

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Continued from the previous page (Table 2.2.2 Import of major food items from India and COTI) (value)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cereals seed											
Wheat seed	1001.11.00	0	0	-	-	0.54	1.1	1.34	0.91	0.13	0.61
Wheat other	1001.10.00/1001.19.00	186.69	95.52	62.99	56.69	99.59	57.09	19.77	20.63	12.47	19.36
Meslin seed	1001.91.00	0	0.9	0.33	0.08	84	-	0.27	1.08	0.04	0.04
Meslin other	1001.90.00/1001.99.00	4.41	2.02	2.86	0.48	1.55	14.23	22.8	54.88	25.58	30.25
Rye	1002.90.00	0.2	0.37	0.06	0.13	0.2	0.26	0	0	0	0.02
Barley	1003.00.00/ 1003.10.00	0.98	0.11	0	0	0.01	-	0.03	0.03	0	0.00
Oats seed	1004.10.00	0	0.01	0	0	-	0.01	-	0	0	0.00
Oats other	1004.00.00/ 1004.90.00	0.06	0.11	0.06	0.03	0.01	0.11	0.02	0.11	0.09	0.01
Maize (corn) seed	1005.10.00	0.27	4.61	0.45	2.74	4.74	12.1	5.08	2.6	1.44	2.35
Maize others	1005.90.00	129.19	301.9	343.9	302.84	327.11	279.24	472.58	617.45	905.24	1302.77
Buckwheat	1008.10.00	0.58	0.06	0.25	0.04	0.29	0.4	0.16	0.15	0.13	0.16
Buckwheat seed	1008.21.00	0.11	0.03	0.01	0.1	0.04	0.08	0.12	0.29	0.05	0.64
Buckwheat other	1008.29.00	5.75	5.6	2.84	2.32	2.41	2.41	2.68	2.66	3.15	5.15
Other cereals	1008.90.00	0.99	3.92	3.92	0.77	0.43	0.99	1.52	1.56	0.65	0.13
Rice											
Rice in the husk	1006.10.00	2.79	0.97	8.84	0.95	1	1.85	0.34	0.24	6.5	5.88
Husked (brown) rice	1006.20.10	249.97	0.29	0.78	0.4	0.05	0.03	0.01	0.23	0.07	0.01
Red rice (yeechum)	1006.20.20	0	0.01	0.03	0.3	0.01	-	-	0.04	0	0.00
Semi-milled rice	1006.30.00	1,126.42	1,536.83	1,677.41	1,689.09	1,664.61	2,382.46	2,181.19	2,608.47	3,060.88	2900.41
Broken Rice	1006.40.00	288.96	385.29	292.69	193.26	490.63	254.93	436.56	215.4	31.9	3.98
Flour											
Wheat & Meslin flour	1101.00.00	152.09	171.57	185.7	187.12	202.77	281.88	276.97	301.53	334.11	410.93
Maize(corn)flour	1102.20.00	3.22	7.05	10.31	5.33	3.33	6.46	9.75	11.8	12.78	6.84

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Continued from the previous page (Table 2.2.2 Import of major food items from India and COTI) (value)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Maize (other)	1102.90.00	5.28	6.92	3.97	4.1	6.45	3.65	5.95	10.16	21.82	13.18
Oil Seeds											
Soya bean seed	1201.00.00/ 1201.10.00	0	0.04	0.08	-	0	0.05	0.08	0.01	0	0.00
Soya bean other	1201.90.00	0.1	0.08	0	0.09	0.05	0.11	0.43	0.05	0.04	0.02
Ground nut seed	1202.30.00	0	0.03	0.09	0.05	0.04	1.66	1.68	3.12	0.9	1.42
Ground nut, in shell	1202.10.00/ 1202.41.00	2.5	1.47	1.08	0.69	0.55	0.23	0.95	0.8	1.6	1.24
Ground nut, shelled	1202.20.00/ 1202.42.00	1.78	1.62	2.1	2.51	2.48	2.27	3.04	2.84	4.22	4.25
Linseed	1204.00.00	0	0	0	0.01	0.01	0.02	0.08	0.87	0.31	0.05
Sunflower seed	1206.00.00	0.06	0.02	0.05	0.06	0.06	0.03	0.09	0.09	0.13	0.22
Sesamum seed	1207.40.00	0.01	0	0.02	0.02	0.02	0.53	0.65	0.67	0.19	0.58
Mustard seed	1207.50.00	0.64	1.27	0.6	0.13	0.91	0.37	0.91	1.58	0.66	0.78
Betel Nuts and leaves											
Betel leaves(total)	1211.90.10	61.77	56.01	58.76	48.36	49.98	101.59	491.11	423.07	235.6	205.84
Betel nuts, in shell	0802.90.10/0802.80.10	0.84	0.73	0.64	1.47	0.22	9.78	33.55	4.37	8.09	2.89
Betel nuts, shelled	0802.90.20/0802.80.20	8.06	10.18	2.28	18.38	14.29	34.21	171.54	339.56	114.79	102.98
Oil											
Soya bean oil	1507.90.00	660.32	729.48	778.01	811.82	852.86	968.05	1,629.74	1,597.38	1,296.66	1297.75
Ground nut oil	1508.90.00	0.03	0.05	-	0.16	0.07	0.02	0.2	0.01	0	0.07
Olive oil	1509.90.00	2.33	5.1	2.68	5.93	4.34	5.85	6.21	6.97	7.2	10.90
Sunflower oil	1512.19.00	17.89	20.83	12.97	12.43	8.6	0	29.95	20.04	6.7	8.18
Palm oil	1511.10.90	11.91	7.2	0.04	4.12	0.1	-	0.35	0.34	0	0.01
Refined bleached deodorised palm oil	1511.90.10	0.5	0.25	-	0.26	0.53	0.53	3.16	0.05	3.37	6.32
Refined bleached deodorised palmolein	1511.90.20	0.33	0.15	0.23	144.17	94.19	6.05	5.77	45.61	42.95	56.44

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Continued from the previous page (Table 2.2.2 Import of major food items from India and COTI) (value)

Commodity	BTC code	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other palm oil	1511.90.90	0.98	0.24	0.11	0.14	1.6	2.17	1	0.58	7.18	0.79
Colza/mustard oil	1514.99.00	13.07	3.69	3.8	6.89	4.75	-	30.14	25.67	24.29	32.08
Safflower/cotton-seed oil	1512.29.00	0	0.25	73.79	0.01	0.12	0	0.96	0.65	0.01	0.02
Coconut oil	1513.19.00	0.01	0.05	0.29	0.52	0.37	1	2.48	1.48	0.86	1.30
Babassu oil	1513.29.00	0	0.1	0	0.15	0.17	0.03	0.19	0.01	0.01	0.01
Rape oil	1514.19.00	93.87	73.03	60.72	55.72	57.14	45.42	38.39	43.28	28.51	23.28
Oil Crude											
Olive (crude)	1509.10.00	0.04	0.06	0.98	0.55	1.64	1.09	1.5	0	0	0.00
Sunflower (Crude)	1512.11.00	0.76	0	-	-	0.13	0	0.74	0	0	0.00
Soya bean (crude)	1507.10.00	0.82	0	0.12	0.17	0.07	0.12	1.94	7.25	6.28	1.40
Rape crude	1514.11.00	0.04	0	0.1	0.04	-	0	0.04	0.21	0.33	0.00
Colza/mustard crude	1514.91.00	0.18	0	0.37	3.37	1.73	0.86	4.51	6.6	6.47	4.15
Palm (crude)	1511.10.10	0	0	-	-	100.93	0.01	0.04	0.07	0	0.00
Sugar											
Beet sugar	1701.12.00	0.29	1.06	0.06	2.3	3.45	3.81	1.11	0.61	0.06	0.03
Other sugar cane	1701.11.00/1701.14.00	278.07	373.95	449.13	353.37	363.72	340.11	367.13	373.73	339.45	484.57
Salt											
Common salt (iodised)	2501.00.10	38.67	28.35	32.49	39.99	42.03	49.45	57.07	63.18	64.42	56.83
Common salt (non-iodised)	2501.00.20	2.36	9.2	3.91	1.18	0.37	1.92	2.49	2.02	2.78	3.28

Source: Bhutan Trade Statistics, DRC

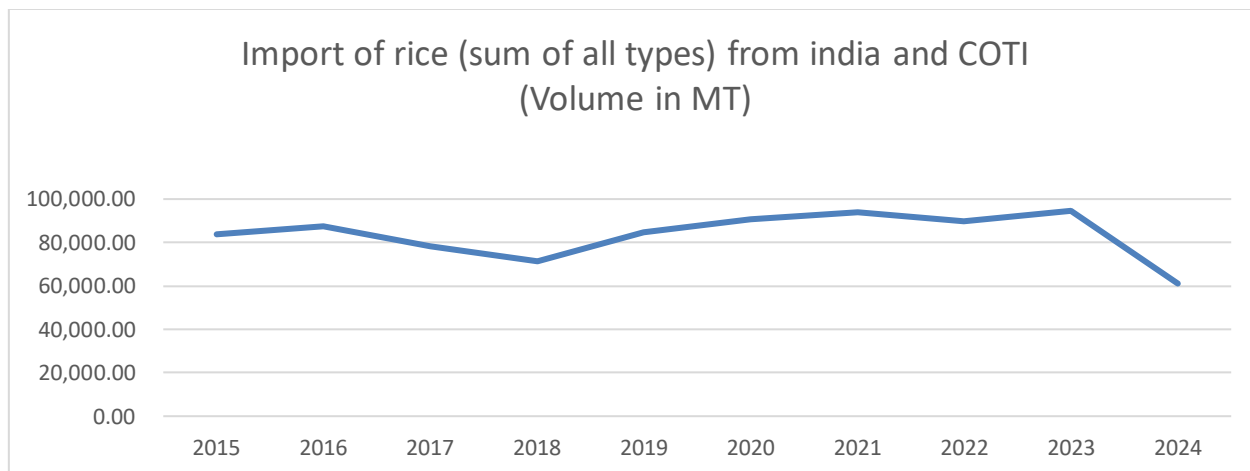


Figure 19: Trends in import value of rice (sum of all types) from India and COTI (2015-2024) (volume)

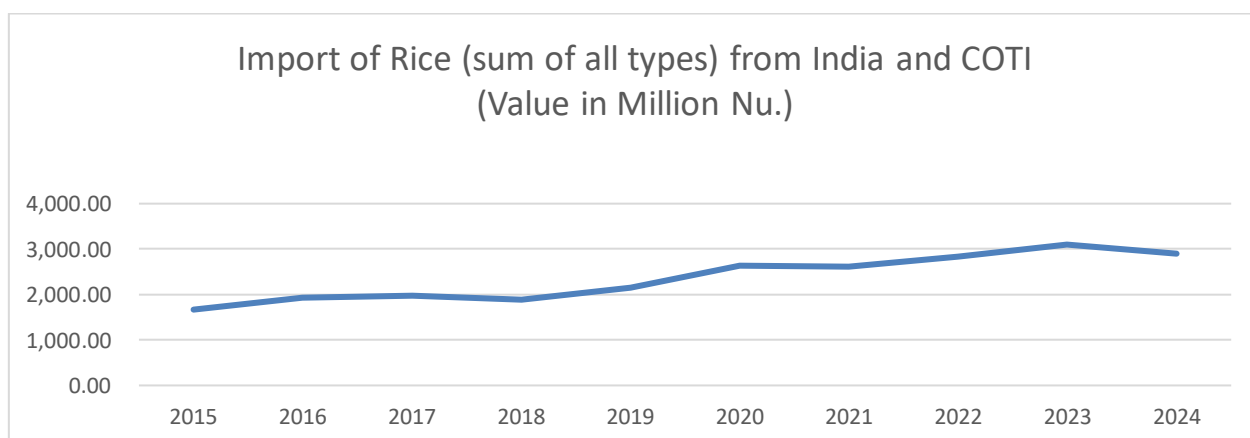


Figure 20: Trends in import value of rice (sum of all types) from India and COTI (2015-2024) (value)

Table 2.3 (1) Agriculture commodities auctioned through FCBL (2015-2024) (Volume in MT)

Commodity	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Potato	22,597.24	25,810.62	25,687.38	31,537.30	30,277.08	2,788.09	5,668.55	11,736.00	18,820.51	11093.23
Apple	28.84	13.90	28.26	12.38	32.03	-	-	-	25.00	9.77
Vegetables	3,841.41	3,603.58	4,104.04	3,463.10	5,091.66	3,205.48	930.93	1,422.03	2,396.00	2975.85
Pulses	16.93	13.31	7.67	8.54	5.67	46.14	0.80	0.00	0.00	0.00
Spices	348.12	502.28	587.41	250.29	167.85	279.68	3,180.45	3,636.09	180.17	184.81
Citrus	1,870.88	791.29	667.38	391.28	201.45	62.26	107.07	246.46	165.51	161.87
Areca Nut	437.95	378.86	485.13	131.06	483.46	581.90	1,046.26	137.96	225.98	1302.05
Pear	0.50	0.09	0.59	-	-	-	-	-	0.00	0.22
Plum	1.21	0.63	0.61	0.95	0.63	-	-	-	0.05	0.04
Peach	2.09	1.24	1.35	0.31	0.65	-	-	-	0.04	0.32
Apricot	0.00	0.02	0.00	-	-	-	-	-	-	0.00
Fruits other than citrus (2020-2022)	-	-	-	-	-	0.09	0.87	5.65	-	0.04
Total	29,145.18	31,115.81	31,569.82	35,795.21	36,260.48	6,963.64	10,934.92	17,184.19	21,813.25	15,728.20

Source: Food Corporation of Bhutan Limited, Phuentsholing

Table 2.3 (2) Agriculture commodities auctioned through FCBL (2015-2024) (Value in Million Nu.)

Commodity	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Potato	373.99	584.51	356.54	649.30	709.81	77.04	110.32	193.99	277.46	308.24
Apple	0.68	0.39	0.66	2.80	8.62	-	-	-	0.92	0.32
Vegetables	96.66	87.72	115.86	93.76	162.87	60.50	16.76	40.07	75.26	114.97
Pulses	0.77	0.54	0.44	0.44	0.30	3.20	0.02	0.00	-	0.00
Spices	11.58	11.03	9.35	8.10	9.86	6.89	57.58	143.35	7.32	6.56
Citrus	38.07	14.30	15.28	7.28	6.25	1.50	3.69	6.80	5.02	4.31
Areca Nut	5.66	6.37	9.96	2.47	9.17	13.26	36.46	6.22	6.04	33.47
Pear	0.01	0.01	0.01	-	-	-	-	-	-	0.01
Plum	0.03	0.01	0.02	0.02	0.02	-	-	-	0.00	0.00
Peach	0.04	0.03	0.03	0.01	0.01	-	-	-	0.00	0.01
Apricot	0.00	0.01	0.00	-	-	-	-	-	-	0.00
Fruits other than citrus (2020-2022)	-	-	-	-	-	0.00	9.57	0.23	-	0.00
Total	527.49	704.89	508.14	764.18	906.91	162.40	234.39	391.00	372.02	467.91

Source: Food Corporation of Bhutan Limited, Phuentsholing

CHAPTER 3: LABOUR POPULATION IN AGRICULTURE AND LAND USE

The primary source of data on agriculture farm labour is the Labour Force Survey, which is conducted by the National Statistics Bureau (NSB) annually, and captures the total farm labour on both the male and female in agriculture sector.



Land is one of the most important elements in agriculture and hence the statistics on land and its use is of special interest to the users. Although the figures may be outdated by now, nonetheless owing to lack of any recent land cover mapping efforts, we present in this chapter the figures from LCMP 2010, National Forest Inventory (NFI) 2016, and RNR Census 2019. Additional statistics on government land leasing and private individuals' land conversion, mainly from wetland to dryland category, are also presented. Therefore, in this chapter it includes the statistics on agricultural land area and farming labour involved by the both genders.

One note-worthy trend observed is the decrease of the economically active population employed in agriculture. As seen in Table 3.2, it showed a 37% decrease over the Ten years from 200,102 in 2015 to 154,512 in 2024. A major contributing factor to this trend is a significant decrease of the population in their twenties employed in agriculture (Figure 20). The group ranked second out of six age-groups in 2013 but has been ranking fifth since 2018.

It is also observed that while in 2016 agriculture employed by far the largest share of population out of the three sectors (57.2% in agriculture followed by 34.2% in service sector and 8.7% in industry sector), in 2024 agriculture and service sectors' shares are largely the same: 41.7% in agriculture and 42.0% in service sector, followed by 16.3% in industry sector (Figure 22).

Table 3.1 Population of Bhutan (2015-2024)

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Total population	764,667	774,367	728,441	734,374	741,672	748,931	756,129	763,249	770,276	777,224
Male	367,419	376,342	354,891	383,909	387,402	390,877	394,323	397,731	401,092	404,411
Female	397,248	398,025	373,550	350,465	354,270	358,054	361,806	365,518	369,184	372,813

Source: LFS/MoLHR for 2013-2017; for other years, Population Projections Bhutan 2017-2047, NSB.

Table 3.2 Labour force employed in agriculture (2015-2024)

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Working Age Population	558,959	570,231	538,435	496,550	481,821	488,336	489,732	484,965	581,321	600,364
Economically Active Population	352,953	354,652	353,863	310,856	319,758	331,222	338,376	305,983	377,759	383,345
Economically Inactive Population	206,006	215,579	184,572	185,694	162,063	157,114	151,356	178,983	203,562	216,519
Economically Active Male Population	188,047	194,667	185,673	169,328	169,152	169,586	174,264	170,433	220,452	23,192,373
Economically Active Female Population	164,906	159,985	168,190	141,528	150,606	161,636	164,112	135,550	157,308	15,180,462
Economically Active Population Employed in Agriculture	199,640	198,429	175,237	162,239	159,032	157,015	158,511	125,160	158,707	154,512
Economically active male population employed in agriculture	94,689	93,296	79,091	76,502	67,680	67,710	69,354	59,106	80,076	78,336
Economically active female population employed in agriculture	104,951	105,394	96,147	85,737	87,808	89,305	89,157	66,055	78,631	76,176

Source: LFS/MoLHR for 2013-2017; LFS/NSB for 2018-2022.

Note: While the preceding RNR Statistics Reports used the PHCB 2017 Report as the data source for 2017 figures, it has been changed to LFS to better maintain consistency.

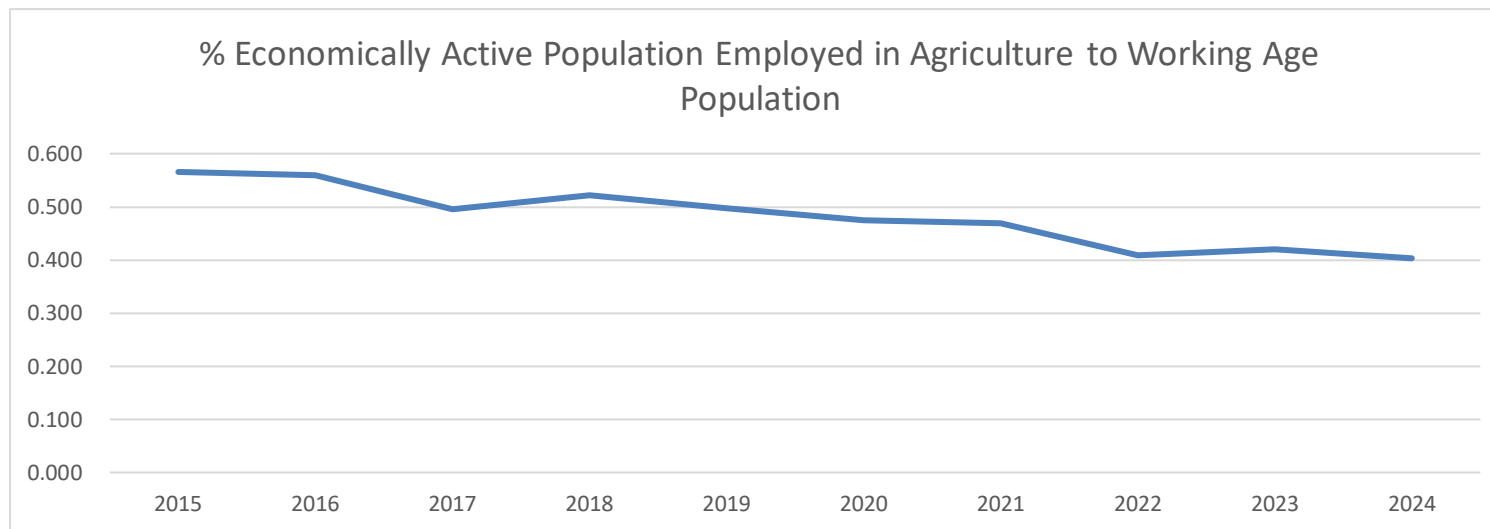


Figure 21: Trends in economically active population employed in agriculture (2015-2024)

Table 3.2.2 Population of employed persons by sector (2015-2024)

Sector	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Agriculture	200,102	198,429	175,859	162,239	159,032	157,015	158,511	125,160	158,707	154,512
Industry	-	30,137	40,960	34,542	43,550	42,438	45,560	39,414	49,724	60,484
Service	-	118,564	125,952	103,660	108,478	115,109	118,052	123,210	156,294	155,483
All Sectors	344,294	347,130	342,771	300,442	311,059	314,562	322,122	287,785	364,725	370,479

Source: LFS/MoLHR for 2013-2017; LFS/NSB for 2018-2022.

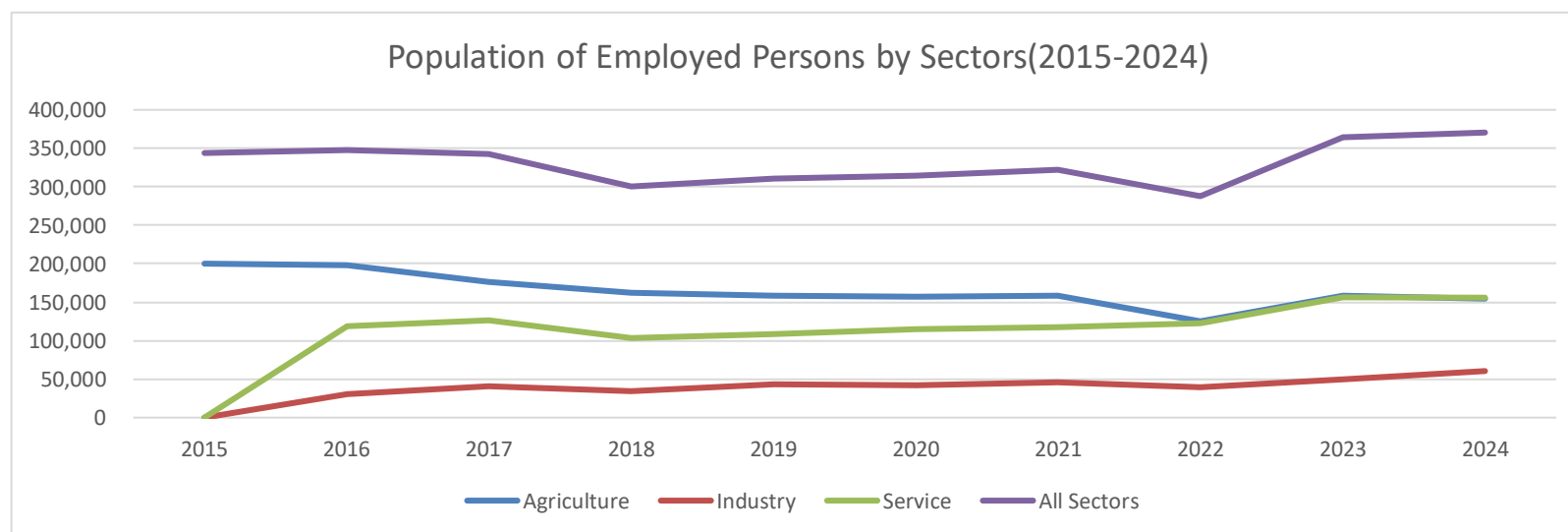


Figure 22: Trends in population of employed persons by sector (2015-2024)

Table 3.3 Labour force employed in agriculture farming by age group (2015-2024)

Year	2015		2016		2017		2018		2019		2020		2021		2022		2023		2024	
Age group	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
15-19	2,678	3,282	794	1,528	1,487	1,491	1,337	1,011	1,345	1,443	844	760	775	751	724	779	1,406	1,352	1,174	998
20-24	8,483	9,330	5,797	10,189	7,556	8,448	4,835	5,147	3,567	5,206	3,101	4,271	3,653	4,491	2,472	2,572	4,862	4,599	4,683	4,019
25-29	9,191	11,037	9,907	10,544	8,527	11,541	7,476	8,549	5,919	8,577	5,462	7,655	5,665	6,904	4,071	4,507	7,578	4,956	7,104	5,904
30-34	7,958	12,371	9,793	13,447	7,987	11,620	7,385	9,384	6,132	10,438	6,655	9,737	5,964	10,157	5,200	7,071	10,237	11,260	9,530	9,330
35-39	9,173	12,286	10,980	15,676	9,133	13,223	7,341	10,823	7,169	11,263	6,008	10,993	6,479	10,005	6,319	9,207	10,972	11,095	8,663	9,716
40-44	9,354	12,763	9,339	13,341	8,238	11,321	7,286	9,784	6,886	9,888	6,716	10,349	6,319	10,797	5,985	8,536	7,572	10,517	8,362	9,752
45-49	10,003	13,533	11,554	12,685	8,666	11,568	7,733	10,097	6,585	10,210	6,806	10,912	6,909	11,757	5,977	7,829	8,376	9,771	6,994	9,212
50-54	10,220	13,127	9,867	11,820	7,578	9,185	7,588	9,770	6,646	10,066	7,404	10,961	7,012	9,705	5,771	7,636	7,647	7,073	7,292	8,276
55-59	9,242	7,097	8,542	7,188	7,532	7,438	7,798	7,612	7,370	8,816	6,757	8,279	6,665	8,090	6,577	6,470	5,963	6,875	6,993	6,740
60-64	8,443	4,839	8,917	5,858	5,702	5,885	7,648	7,262	7,427	6,971	6,736	7,026	7,428	7,425	5,853	5,260	6,428	4,779	7,134	5,428
65+	9,945	5,285	7,805	3,118	6,682	4,426	9,778	6,297	9,192	6,877	10,138	7,938	11,253	8,670	8,932	5,669	9,036	6,356	9,099	6,542
Total	94,690	104,950	93,295	105,394	79,088	96,146	76,205	85,736	68,237	89,754	66,627	88,880	68,122	88,753	57,881	65,536	80,076	78,631	77,029	75,918

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Age group	Male+female	Male+female	Male+female	Male+female	Male+female	Male+female	Male+female	Male+female	Male+female	Male+female
15-19	5,960	2,322	2,978	2,349	2,788	1,604	1,526	1,504	2,758	2,172
20-24	17,813	15,986	16,004	9,981	8,773	7,372	8,144	5,044	9,461	8,702
25-29	20,228	20,451	20,068	16,025	14,496	13,117	12,569	8,578	12,534	13,008
30-34	20,329	23,240	19,607	16,768	16,570	16,392	16,121	12,271	21,497	18,860
35-39	21,459	26,656	22,356	18,164	18,432	17,000	16,484	15,526	22,067	18,379
40-44	22,117	22,680	19,559	17,069	16,773	17,065	17,116	14,521	18,088	18,114
45-49	23,536	24,239	20,234	17,830	16,795	17,719	18,666	13,807	18,147	16,206
50-54	23,347	21,687	16,763	17,358	16,712	18,365	16,717	13,407	14,720	15,568
55-59	16,339	15,730	14,970	15,410	16,186	15,036	14,755	13,047	12,838	13,733
60-64	13,282	14,775	11,587	14,910	14,398	13,763	14,853	11,113	11,206	12,562
65+	15,230	10,923	11,108	16,075	16,068	18,076	19,923	14,601	15,392	15,641
Total	199,640	198,689	175,234	161,941	157,991	155,507	156,875	123,417	158,707	152,947

Source: LFS/MoLHR for 2013-2017; LFS/NSB for 2018-2022.

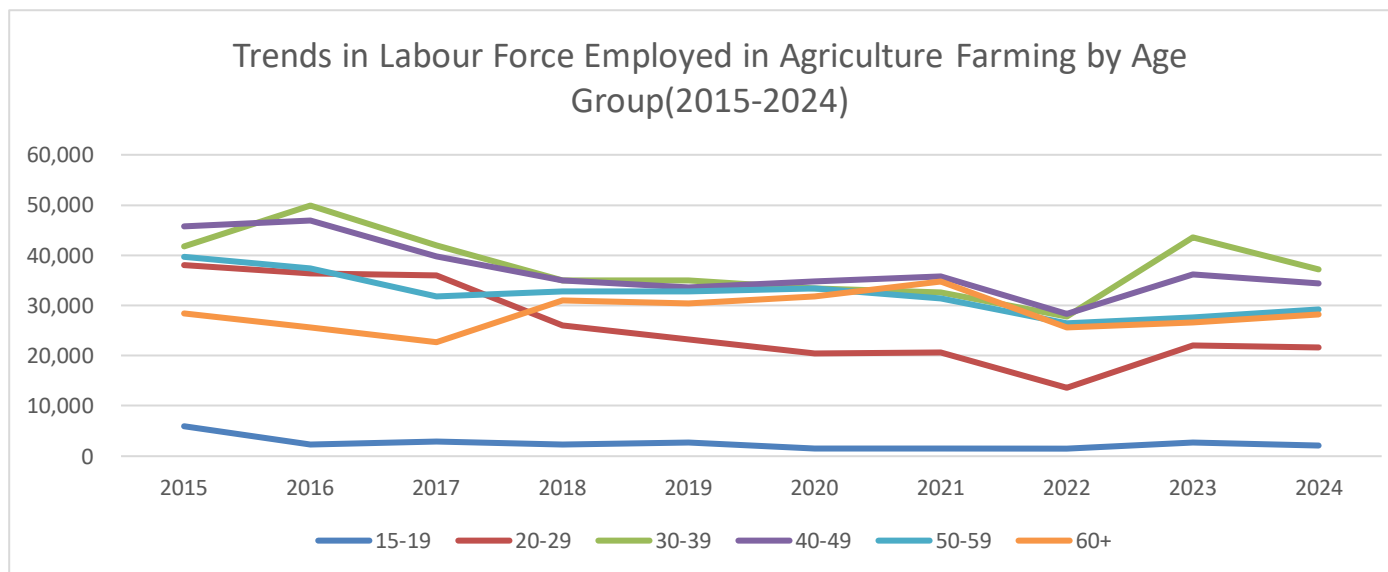


Figure 23: Trends in labour force employed in agriculture farming by age group (2015-2024)

Table 3.4 Land cover by major categories in 2010 and 2016

Land Cover class	Sub-Class	LCMP 2010			LULC 2016		
		Area (Ha)	(%)	Total Area (%)	Area (Ha)	(%)	Total Area (%)
Forests	Fir Forest	183,208.26	4.77	70.46	230,983.99	6.02	70.77
	Mixed Conifer Forest	613,963.92	15.99		519,585.68	13.53	
	Blue Pine Forest	80,023.99	2.08		101,155.06	2.64	
	Chir Pine Forest	107,666.51	2.8		101,537.45	2.64	
	Broadleaf Forest	1,688,956.50	43.99		1,763,899.50	45.94	
	Broadleaf & Conifer Forest	31,472.06	0.82		-	-	
Alpine Scrub	Alpine Scrubs	-	-	-	130,097.72	3.39	3.39
Shrubs	Shrubs	400,526.40	10.43	10.43	374,032.56	9.74	9.74
Meadows	Meadows	157,568.51	4.1	4.1	96,273.61	2.51	2.51
Cultivated Agricultural	Chhuzhing	31,361.23	0.82	2.93	31,891.87	0.83	2.76
	Kamzhing	69,670.79	1.81		68,260.64	1.78	
	Apple Orchard	2,041.47	0.05		5,529.92	0.14	
	Citrus Orchard	5,086.42	0.13				
	Areca nut Plantation	984.92	0.03				
	Cardamom Plantation	3,397.95	0.09				
	Others	13.43	-		-	-	
Built up areas	Built up Areas	6,150.87	0.16	0.16	7,457.03	0.19	0.19
Non-Built-up areas	Non-Built-up Areas	330.1	0.01	0.01	595.89	0.02	0.02
Snow Cover	Snow Cover	285,479.22	7.44	7.44	205,343.63	5.35	5.35
Bare Areas	Rock Outcrops	99,659.29	2.6	3.2	119,754.16	3.12	3.12
	Scree	23,287.71	0.61		39,701.39	1.03	1.03
	Bare Soils	26.87	-		-	-	-
Water Bodies	Lakes	4,753.42	0.12	0.72	6,252.58	0.16	0.65
	Reservoirs	130.7	-		-	-	
	Rivers	22,684.66	0.59		18,923.20	0.49	
Marshy Areas	Marshy Areas	319.47	0.01	0.01	-	-	-
Degraded Areas	Landslides	7,032.54	0.18	-	3,730.22	0.1	0.1
	Gullies	6.66	-	0.54	-	-	-
	Ravines	-	-	-	-	-	-
	Moraines	13,596.24	0.35	-	14,393.94	0.37	0.37
Total		3,839,400.00	100	100	3,839,400.00	100	100

Source: LCMP & LULC, MoAF

Table 3.5 Dzongkhag-wise geographical area by landcover type (Value in Hectare)

Dzongkhag	Land Cover Types										
	Forests	Cultivated Agriculture	Shrubs	Meadows	Built up	Non Built-up	Moraines	Rocky Outcrops	Land-slides	Snow & Glacier	Water Bodies
Bumthang	139,411	3,399	58,927	10,096	481	-	2,033	23,779	4	29,118	1,844
Chhukha	166,099	7,892	6,414	2,625	894	45	-	462	343	-	1,375
Dagana	152,086	7,397	6,038	2,252	108	7	-	850	291	-	1,581
Gasa	60,842	458	94,883	10,985	44	-	9,402	62,701	64	68,734	2,284
Haa	125,768	1,718	34,424	9,481	275	3	-	15,883	19	391	673
Lhuentse	183,360	3,769	37,947	3,246	170	9	966	4,935	104	47,426	1,161
Monggar	175,879	6,530	7,810	736	316	8	-	2	364	-	893
Paro	66,238	5,462	34,347	12,704	655	37	-	5,599	-	1,897	523
Pema Gatshel	91,925	3,665	4,221	8	210	48	-	219	275	-	647
Punakha	91,887	4,704	9,250	483	298	4	-	250	6	2,189	809
Samdrup Jongkhar	168,645	5,497	8,798	479	191	35	-	174	363	-	1,698
Samtse	105,150	14,803	5,619	245	300	160	-	201	615	3	2,121
Sarpang	146,852	8,030	5,094	15	456	10	-	63	441	-	2,967
Thimphu	71,212	1,693	53,153	18,329	1,390	86	755	20,988	-	9,767	469
Trashigang	172,795	9,812	26,720	7,087	600	-	-	77	235	199	729
Trashigang Yangtse	100,379	3,492	20,883	823	103	-	-	464	32	16,460	860
Trongsa	153,780	2,556	16,300	4,463	399	8	-	556	118	1,002	426
Tsirang	55,265	5,705	1,390	60	70	2	-	216	24	-	432
Wandue Phodrang	264,060	5,826	64,131	12,066	512	133	1,239	21,756	53	27,876	1,988
Zhemgang	225,429	3,449	7,639	78	127	1	-	294	357	273	1,660
Total	2,717,061	105,855	503,987	96,262	7,598	595	14,394	159,467	3,705	205,336	25,140

Source: LULC (2016), DoFPS

Table 3.6 Dzongkhag-wise land area under different agricultural land-use in 2010, 2016, and 2019 (Value in Hectare/Acrea)

Dzongkhag	LCMP 2010 (in Hectare)			LULC 2016 (in Hectare)			RNR Census 2019 (in Acre)		
	Chuzhing	Kamzhing	Orchard	Chuzhing	Kamzhing	Orchards	Chuzhing	Kamzhing	Orchards
Bumthang	24.7	2,883.9	11.5	68.6	3,330.7	-	3.3	9,612.0	3.0
Chhukha	1,586.7	5,735.8	1,918.0	1,882.9	5,682.2	327.1	1,934.9	14,985.0	734.2
Dagana	1,493.7	4,588.3	1,455.3	2,028.4	4,798.9	569.2	3,745.8	11,641.0	627.4
Gasa	143.6	386.3	-	148.4	309.9	-	197.7	646.0	-
Haa	88.5	2,068.5	624.6	181.4	1,486.8	49.6	171.7	4,362.0	280.1
Lhuentse	1,575.6	4,328.5	1.0	1,733.5	2,032.7	2.3	1,781.4	4,688.0	31.0
Monggar	436.4	5,300.0	3.3	687.4	5,832.1	10.0	1,330.6	17,525.0	27.0
Paro	1,763.7	3,555.8	1,023.7	1,888.4	2,886.6	686.8	2,911.9	5,426.0	296.5
Pema Gatshel	82.6	4,837.1	335.1	18.3	2,787.2	859.9	348.2	16,409.0	1,086.7
Punakha	5,073.0	261.9	16.7	4,304.0	390.9	8.9	6,488.4	1,653.0	28.0
Samdrup Jongkhar	1,147.6	6,731.3	249.1	1,121.0	4,212.4	163.2	1,779.5	16,023.0	430.9
Samtse	5,680.5	8,149.7	3,533.4	4,312.3	10,079.8	410.5	6,666.9	20,726.0	2,193.3
Sarpang	1,942.7	3,351.6	923.6	3,062.3	3,906.4	1,061.1	4,512.9	10,398.0	2,156.9
Thimphu	458.2	913.8	902.1	484.9	466.4	741.7	421.2	1,692.0	102.3
Trashigang	1,439.5	4,982.3	-	1,658.6	8,149.2	4.1	2,217.1	15,372.0	36.0
Trashy Yangtse	946.6	2,112.4	-	1,049.6	2,442.6	-	1,500.6	4,948.0	32.4
Trongsa	1,082.0	1,205.0	-	1,231.8	1,321.7	2.2	1,718.0	4,849.0	64.0
Tsirang	1,527.2	2,867.5	314.4	2,080.7	3,320.4	303.5	3,851.6	8,029.0	805.1
Wandue Phodrang	4,013.7	1,930.0	0.1	3,113.1	2,713.2	-	4,218.3	4,564.0	13.0
Zhemgang	639.6	3,251.0	211.3	789.2	2,300.2	359.3	1,595.5	11,985.0	144.2
Total	31,146.1	69,440.6	11,523.4	31,844.9	68,450.5	5,559.6	47,395.6	185,533.0	9,091.8

Source: Land Cover Map Project (LCMP), Land Use and Land Cover (LULC), and RNR Statistics Division, MoAF

Table 3.7 Dzongkhag-wise cases under land-leased program (2020-2024)

Dzongkhag	2020-2021		2021-2022		2022-2023		2023-2024		2024-2025	
	No. of case	Area (acre)	No. of case	Area (acre)	No. of case	Area (acre)	No. of case	Area (acre)	No. of case	Area (acre)
Bumthang	4	0.92	6	32.77	3	6.7	5	4.95		
Chhukha	12	33.20	23	121.40	58	420.56	97	3361.45	4	10.49
Dagana	0	0.00	22	7.74	22	118.38	24	43.879	2	180
Gasa	3	5.34	9	6.63	1	0	1	0.05		
Haa	5	2.76	3	0.70	11	40.964	5	83.16		
Lhuentse	2	0.20	8	1.64	13	28.74	3	0.505	8	17.796
Monggar	7	65.05	12	1.62	31	19.81	14	13.52		
Paro	4	3.67	9	0.65	12	22.07	17	32.02	1	2.93
Pema Gatshel	9	1.98	5	54.25	18	42.052	38	22.08		
Punakha	1	3.75	10	3.89	15	9.869	13	3.99	7	3.476
Samdrup Jongkhar	31	43.09	5	0.98	27	33.29	23	57.73		
Samtse	21	71.36	10	1.50	35	218.614	105	2428.427	2	3.106
Sarpang	30	55.85	6	28.90	21	68.868	48	49.1		
Thimphu	6	16.73	25	283.46	27	32.82	29	18.03	1	60
Trashigang	0	0.00	24	132.74	7	1.04	12	32.83		
Trashy Yangtse	7	1.42	26	99.62	4	15.21	4	6.2		
Trongsa	0	0.00	14	122.12	7	25.32	15	91.561		
Tsirang	12	39.36	27	145.64	10	5.605	11	2.83	1	1
Wandue Phodrang	12	87.22	0	0.00	18	153.063	40	41.296	8	18.896
Zhemgang	2	0.44	4	30.95	24	126.323	12	7.667	1	5
Total	168	432.33	248	1,077.20	364	1389.298	516	6301.275	35	302.694

Source: National Land Commission (NLC)

Table 3.8 (1) Dzongkhag-wise number of case and area recommended by DoA to NLCS for land conversion (2015-2024) (No. of case)

Dzongkhag	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bumthang	-	-	-	-	-	-	-	-	-	-
Chhukha	2	3		1	2	2	-	-	22	8
Dagana	3	23	12		7		6		27	1
Gasa	1	-	-	-	-	-	-	-	-	-
Haa	-	-	-	-	-	-	-	-	-	-
Lhuentse	-	-	-	-	1	-	-	-	-	-
Monggar	-	-	1	1	-	-	-	6	9	-
Paro	-	37	2	26	51	18	36	-	-	-
Pema Gatshel	-	-	2	6	-	-	-	-	38	-
Punakha	26	1	9	26	15		27	6	-	-
Samdrup Jongkhar	-	-	-	16	-	-	-	-	5	6
Samtse	12	1		3	13	10			82	14
Sarpang	-	-	-	6	10	-	-	-	41	20
Thimphu		3	2	29	16	9	20	-	-	-
Trashigang			3					5	-	-
Trashy Yangtse	-	-	5	12	23	-	-	6	-	-
Trongsa	6	-	1	-	5	-	2	-	-	6
Tsirang	1	-	1	-	-	-	3	-	4	5
Wandue Phodrang	11	-	4	3	9	-	10	-	-	-
Zhemgang	-	-	-	-	56	-	-	-	-	6
Total	62	68	42	129	208	39	104	23	228	66

Source: DoA, MoAL

Table 3.8 (2) Dzongkhag-wise number of case and area recommended by DoA to NLCS for land conversion (2015-2024) (Area in acre)

Dzongkhag	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bumthang	-	-	-	-	-	-	-	-	-	-
Chhukha	0.710	1.907	-	1.364	0.630	0.925	-	-	11.260	8.487
Dagana	1.324	23.973	7.644	-	3.912	-	3.427	-	24.495	0.452
Gasa	0.100	-	-	-	-	-	-	-	-	-
Haa	-	-	-	-	-	-	-	-	-	-
Lhuentse	-	-	-	-	0.401	-	-	-	-	-
Monggar	-	-	0.130	0.288	-	-	-	7.441	1.080	-
Paro	-	12.087	0.480	6.791	17.094	3.941	10.434	-	-	-
Pema Gatshel	-	-	2.340	5.963	-	-	-	-	12.875	-
Punakha	27.051	3.480	4.416	35.820	8.414	-	12.893	3.008	-	-
Samdrup Jongkhar	-	-	-	15.212	-	-	-	-	0.842	8.630
Samtse	12.770	0.800	-	5.591	12.225	7.784	-	-	54.633	11.017
Sarpang	-	-	-	4.430	4.979	-	-	-	41.090	7.823
Thimphu	-	0.770	0.350	20.224	5.257	3.233	4.395	-	-	-
Trashigang	-	-	1.691	-	-	-	-	0.801	-	-
Trashy Yangtse	-	-	3.388	16.034	5.219	-	-	3.675	-	-
Trongsa	3.130	-	0.500	-	1.765	-	1.102	-	-	2.920
Tsirang	0.500	-	1.040	-	-	-	1.725	-	4.976	3.493
Wandue Phodrang	6.989	-	1.095	4.859	6.775	-	4.801	-	-	-
Zhemgang	-	-	-	-	16.809	-	-	-	-	4.938
Total	52.574	43.017	23.074	116.576	83.480	15.883	38.777	14.925	151.251	47.760

Source: DoA, MoAL

Table 3.9 (1) Dzongkhag-wise number of case and area not recommended by DoA to NLCS for land conversion (2015-2024) (No. of case)

Dzongkhag	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bumthang	-	-	-	-	-	-	-	-	-	-
Chhukha	-	-	-	-	4	-	-	-	7	2
Dagana	-	42	23	-	10	-	16	-	-	-
Gasa	-	-	-	-	-	-	-	-	-	-
Haa	-	-	-	-	-	-	-	-	-	-
Lhuentse	-	-	-	-	-	-	-	-	-	-
Monggar	-	-	-	-	-	-	-	2	-	-
Paro	-	14	1	28	23	16	10	-	-	-
Pema Gatshel	-	-	-	-	-	-	-	-	-	-
Punakha	23	-	10	18	20	-	23	4	-	-
Samdrup Jongkhar	-	-	-	-	-	-	-	-	4	4
Samtse	-	-	-	1	5	4	-	-	36	43
Sarpang	-	-	-	-	11	-	-	-	27	60
Thimphu	-	1	-	6	12	3	10	-	-	-
Trashigang	-	-	-	-	-	-	-	-	-	-
Trashi Yangtse	-	-	-	-	-	-	-	1	-	-
Trongsa	-	-	1	-	-	-	-	-	-	-
Tsirang	-	-	8	-	-	-	-	-	-	5
Wandue Phodrang	3	-	21	3	15	-	4	-	-	-
Zhemgang	-	-	-	-	-	-	-	-	-	-
Total	26	57	64	56	100	23	63	7	74	114

Source: DoA, MoAL

Table 3.9 (2) Dzongkhag-wise number of case and area not recommended by DoA to NLCS for land conversion (2015-2024) (Area in acre)

Dzongkhag	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bumthang	-	-	-	-	-	-	-	-	-	-
Chhukha	-	-	-	-	4.920	-	-	-	5.402	0.617
Dagana	-	37.990	29.162	-	8.836	-	20.712	-	-	-
Gasa	-	-	-	-	-	-	-	-	-	-
Haa	-	-	-	-	-	-	-	-	-	-
Lhuentse	-	-	-	-	-	-	-	-	-	-
Monggar	-	-	-	-	-	-	-	0.613	-	-
Paro	-	3.224	0.296	7.272	8.948	3.796	2.578	-	-	-
Pema Gatshel	-	-	-	-	-	-	-	-	-	-
Punakha	12.048	-	7.902	12.650	14.157	-	19.476	1.477	-	-
Samdrup Jongkhar	-	-	-	-	-	-	-	-	3.117	3.463
Samtse	-	-	-	2.415	7.405	6.730	-	-	39.206	64.304
Sarpang	-	-	-	-	18.855	-	-	-	35.407	41.101
Thimphu	-	0.560	-	1.994	3.715	1.850	1.761	-	-	-
Trashigang	-	-	-	-	-	-	-	-	-	-
Trashigang Yangtse	-	-	-	-	-	-	-	1.674	-	-
Trongsa	-	-	0.638	-	-	-	-	-	-	-
Tsirang	-	-	8.750	-	-	-	-	-	-	3.626
Wandue Phodrang	1.040	-	25.668	2.199	8.156	-	0.885	-	-	-
Zhemgang	-	-	-	-	-	-	-	-	-	-
Total	13.088	41.774	72.416	26.530	74.992	12.376	45.412	3.764	83.132	113.111

Source: DoA, MoAL

CHAPTER 4: MACHINERY

Mechanization of Bhutanese farming has been given importance since the 1980s and continues to this day. With the trend of young and able-bodied people seemingly leaving the rural farms in search of jobs in towns, the farms in the countryside face labor shortages, and wages have steadily increased, driving the whole production prices up. Farm mechanization is therefore seen as one area that requires major focus.

The major importer of farm machinery was the Agriculture Machinery Centre (AMC) under the MoAL. However, in recent years, a number of private bodies have also entered the scene and play an important role in mechanizing Bhutanese farms. Further, the government in a drive to speed up the farm mechanization process created Farm Machinery Corporation Limited (FMCL), a state-owned enterprise. The job of importing, distributing, hiring, and providing maintenance services which until recently was carried out by AMC is now looked after by FMCL.

This Chapter presents the statistics on the number of different types of farm machinery imported, owned by government agencies, and also owned by private individuals for farming purposes in households.



Table 4.1 Import of farm machinery from India (2018-2024) (Volume in No. and Value in Million Nu.)

Type of machinery	BTC code	2018		2019		2020		2021		2022		2023		2024	
		Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value
Ploughs	8432.10.0	215	3.77	1,024	3.13	3,571	6.19	5,708	7.82	7,413	8.97	640	1.39	1,487	7.07
Power tiller	8432.29.1	152	11.01	338	14.16	1,238	5.39	231	8.12	207	8.14	197	11.76	159	6.68
Straw /fodder Balers	8433.40.0	-	-	-	-	45	1.29	35	0.08	140	2.66	-	-	3	0.01
Combine harvester - threshers	8433.51.0	-	-	21	0.21	29	0.17	-	-	112	0.97	1	0.03	-	-
Threshing machines	8433.52.0	72	0.28	70	0.28	95	1.02	191	1.59	103	1.03	19	0.60	121	4.60
Root or tuber harvesting machines	8433.53.0	-	-	-	-	15	0.30	142	1.37	-	-	-	-	-	-
Milking machines	8434.10.0	356	3.65	629	1.36	922	2.18	1,777	4.38	1,207	4.12	1,313	3.91	2,214	4.04
Rice huller and husking machine	8437.80.1	-	-	-	-	-	-	-	-	277	6.92	163	2.85	238	4.21
Flour-mill	8437.80.2	-	-	-	-	-	-	-	-	85	3.40	186	1.83	763	4.10
Pedestrian controlled tractors (single axle tractor)	8701.10.0	5	2.61	4	2.97	6	4.55	1	0.80	-	-	2	0.31	-	-

Source: Bhutan Trade Statistics, DRC, MoF compiled by RNR-SD or PPD

Table 4.2 Import of farm machinery from COTI (2018-2024) (Volume in No. and Value in Million Nu.)

Type of machinery	BTC code	Imported from	2018		2019		2020		2021		2022		2023		2024	
			volume	value	volume	value	volume	value	volume	value	volume	value	volume	value	Volume	Value
Ploughs	8432.10.00	China	450	10.01	100	3.53	470	17.19	838	23.47	395	19.22	270	9.06	266	6.04
		Japan	144	5.18	0	0.00	0	0.00	200	22.58	0	0.00	0	0.00	0	0.00
		Singapore	191	1.17	352	1.90	355	2.26	540	3.33	40	0.45	0	0.00	0	0.00
		Thailand	0	0.00	120	0.03	0	-	0	0.00	0	0.00	0	0.00	0	0.00
Power tiller	8432.29.10	Vietnam	180	31.64	218	39.12	358	53.53	426	65.12	212	48.03	0	0.00	10	3.89
		Indonesia	20	7.16	2	0.49	20	7.44	0	0.00	272	99.60	0	0.00	0	0.00
		Japan	260	24.62	0	0.00	192	12.07	150	36.54	223	19.66	0	0.00	0	0.00
		China	0	0.00	2	0.03	0	0.00	262	29.54	561	74.86	547	51.05	584	44.76
		Thailand	0	0.00	2	0.44	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		Singapore	169	9.48	219	9.08	140	11.50	135	11.84	70	5.09	0	0.00	0	0.00
Manure spreaders and fertilizer distributors	8432.41.00	Singapore	0	0.00	180	4.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Combine harvester-threshers	8433.51.00	Japan	0	0.00	3	5.34	1	0.71	40	36.05	0	0.00	0	0.00	0	0.00
		Hong Kong	-	-	-	-	-	-	-	-	4	0.01	0	0.00	0	0.00
		China	0	0.00	0	0.00	8	0.54	5	0.10	12	0.72	104	0.50	3	1.21
Threshing machines	8433.52.00	China	500	10.10	4	0.29	324	8.16	346	11.52	303	12.37	20	0.37	241	7.39
		Singapore			-	-	100	1.05	0	0.00	25	0.20	0	0.00	0	0.00
		Japan	0	0.00	-	-	5	3.01	0	0.00	0	0.00	0	0.00	0	0.00
Root or tuber harvesting machines	8433.53.00	China	0	0.00	0	0.00	0	0.00	5	0.02	3	0.00	0	0.00	11	0.92
		Vietnam	0	0.00	0	0.00	0	0.00	0	0.00	40	0.10	0	0.00	0	0.00
Milking machine	8434.10.00	China	0	0.00	0	0.00	0	0.00	5	0.08	0	0.00	200	0.21		
Rice huller and husking machine	8437.80.10	Singapore	0	0.00	0	0.00	200	1.01	270	3.24	0	0.00	0	0.00	0	0.00
		Japan	0	0.00	0	0.00	0	0.00	8	1.00	0	0.00	0	0.00	0	0.00
		China	0	0.00	0	0.00	526	4.52	671	5.30	597	5.27	175	6.04	1432	26.75
Flour-mill	8437.80.20	Singapore	0	0.00	0	0.00	50	0.46	870	6.15	50	0.82	0	0.00	0	0.00
		Hong Kong	-	-	-	-	-	-	-	-	10	0.20	0	0.00	0	0.00
		China	0	0.00	0	0.00	104	1.65	77	0.70	0	0.00	65	0.76	360	5.22

Source: Bhutan Trade Statistics, DRC, MoF compiled by RNR-SD or PPD

CHAPTER 5: AGRICULTURAL INPUT SUPPLY

Since the inception of the 1st FYP, the ministry has been providing the agriculture inputs such as agrochemicals, seed & seedlings, and green house to all the farming communities in the country to promote the national food sufficiency and security.

The demand of seeds and seedlings were mostly produced in the farms of National Seed Centre and the deficit were produced by the Registered Seed Growers who were the collaborators of NSC. The farmers often depend on agrochemicals (pesticides and fertilizers) to combat pests and diseases, boost productivity, and improve crop quality.

Bhutan may not become totally organic, at least in the near future, but certainly the country is aware of the harmful effects of agrochemical pesticides and therefore strict measures are put in place to control the import and use. No private players are allowed to import agrochemicals due to fear that all kinds of dangerous and/or inferior quality chemicals may



be imported. Only National Plant Protection Centre (NPPC), an agency under Department of Agriculture, MoAF, is mandated to oversee the import and its distribution. From the statistics over the years, one will notice a gradual increase in the quantity of agrochemicals imported and distributed.

This chapter first presents the statistics on import quantity and value of agrochemical imported from 2017 to 2024 based on the data maintained by Bhutan Trade Statistics. It gives an idea of the trend in agrochemical usage. Then we present data on agrochemical distribution by National Seed Centre and National Plant Protection Centre. One difference between the two sources is that BTS data is by calendar year basis (Jan – Dec) while NPPC&NSC data is by financial year basis (Jul – Jun).

Table 5.1 Import of plant protection chemicals from India (2015-2024) (Volume in MT, and Value in Million Nu.)

Commodity	BTC code	volume/value	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Insecticides	3808.91.00	vol	77.44	553.13	53.09	78.97	69.12	82.51	114.03	86.09	44.1	99.34
Fungicides	3808.92.00	vol	0	1.98	5.04	0	5.94	5.57	2.95	46.17	1.21	17.61
Herbicides	3808.93.00	vol	314	45.66	0.08	0	536.5	568.68	5.01	2,273.44	591.06	3100.21
Disinfectants	3808.94.00	vol	59.33	88.4	69.93	83.67	82.47	197.54	188.03	230.59	248.18	256.77
Others	3808.99.00	vol	185.87	132.72	438.8	179.78	23.79	31.19	496	11.9	47.27	14.79
Insecticides	3808.91.00	val	12.24	37.2	18.91	23.64	24.96	34.63	44.98	37.84	32.18	41.28
Fungicides	3808.92.00	val	0	0.66	1.43	0	2.97	1.15	1.3	16.51	1.01	5.31
Herbicides	3808.93.00	val	8.52	2.4	0.48	0	32.09	25.98	1.75	100.83	25.9	132.40
Disinfectants	3808.94.00	val	6.04	8.06	6.89	11.59	12.66	38.17	26.42	36.45	42.19	46.06
Others	3808.99.00	val	8.47	5.76	16.97	6.94	7.24	5.97	23.71	5.59	7.59	5.25

Source: Bhutan Trade Statistics, DRC, MoF compiled by RNR-SD or PPD

Table 5.2 Import of plant protection chemicals from COTI (2015-2024) (Volume in MT, and Value in Million Nu.)

Commodity	BTC code	volume/value	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Insecticides	3808.91.00	vol	1.38	1.03	0.88	0.43	0.88	0.67	1.64	0.51	0.33	0.88
Fungicides	3808.92.00	vol	0.08	0	0	0	0	0	0	0	0	0
Herbicides	3808.93.00	vol	0	0	0.02	0	0	0	0	2,862.10	0	0
Disinfectants	3808.94.00	vol	0.05	0	0	0.01	0.02	6.28	10.92	1.31	0.03	0.15
Others	3808.99.00	vol	0	0	0.06	0.43	0.3	0.22	1.29	3.75	0.85	0.79
Insecticides	3808.91.00	val	3.7	0.62	0.65	0.24	1.24	5.16	0.31	0.04	0.4	1.30
Fungicides	3808.92.00	val	0.21	0	0	0	0	0	0	0	0	0
Herbicides	3808.93.00	val	0	0	0.03	0	0	0	0	108	0	0
Disinfectants	3808.94.00	val	0.15	0	0	0.11	0.11	2.11	4.69	1.33	0.02	0.03
Others	3808.99.00	val	0	0	0.04	0.11	0.38	0.06	0.1	0.81	0.37	0.45

Source: Bhutan Trade Statistics, DRC, MoF compiled by RNR-SD or PPD

Table 5.3 (1) Plant protection chemicals distributed by NPPC (2020-2024) (Volume in Kg or Litre unless specified)

Product	Insecticides					Fungicides				
Dzongkhag	2020-21	2021-22	2022-23	2023-24	2024-25	2020-21	2021-22	2022-2023	2023-24	2024-25
Bumthang	72.90	52.20	96.3	65.7	52.8	333.20	229.45	33.55	71.15	229.85
Chhukha	402.20	233.20	231.1	211.85	394.07	147.25	8.00	58.25	57	56.75
Dagana	329.30	302.60	64.5	106.9	145.07	65.25	43.90	40.75	9.7	174.7
Gasa	0.00	0.00	0	0	0	0.00	0.00	0	0	0
Haa	114.00	184.50	181	137.88	224.21	80.75	95.85	63.85	34.8	54.75
Lhuentse	70.70	117.60	143.5	19.2	33.72	12.50	29.00	39.6	15.55	18
Monggar	781.80	467.60	438.8	314.1	334.33	142.50	41.35	52.25	260.7	132.75
Paro	1,793.90	1,892.30	1,521.10	1,565.22	2,918.16	1,139.40	1,389.60	845.5	976.95	1,591.15
Pema Gatshel	78.10	6.40	14	0	430.94	35.75	0.00	0	0	15.05
Punakha	312.90	374.60	354.5	350.2	393.34	201.65	38.85	120.75	125.65	158.6
Samdrup Jongkhar	2.00	0.00	0	67.6	77.2	4.00	0.00	0	5	39.5
Samtse	12.00	72.10	70	32.4	200.93	2.50	32.65	221	14.95	26.8
Sarpang	251.50	394.80	103.6	146.2	0	212.50	199.20	56.5	162.5	0
Thimphu	1,841.70	610.20	767	760.8	764.05	696.25	519.45	846.5	505.4	782.65
Trashigang	502.10	394.60	370.6	12.55	78.55	304.40	1.00	3.25	16.75	22.95
Trashy Yangtse	269.00	274.70	214.7	30.45	46.9	193.00	118.00	265	155.3	253.05
Trongsa	66.00	114.50	66.4	85	63.19	0.75	62.25	12.75	4.75	14.75
Tsirang	55.00	26.10	57.7	59.2	228.58	32.25	4.75	29.1	31.7	160.15
Wandue Phodrang	1,039.10	838.90	660.5	1230.9	1178.21	5,194.45	6,183.05	5632	6366.7	7781.6
Zhemgang	123.30	288.80	0.4	30	134.79	26.00	0.00	1.4	2	113.3
Total	8,117.50	6,645.70	5,355.70	5,226.15	7,699.04	8,824.35	8,991.60	8322	8,816.55	11,626.35

Source: NPPC/DoA, MoAL

Table 5.3 (2) Plant protection chemicals distributed by NPPC (2020-2024) (Volume in Kg or Litre unless specified)

Product	Herbicides					Rodenticides				
Dzongkhag	2020-21	2021-22	2022-2023	2023-24	2024-25	2020-21	2021-22	2022-23	2023-24	2024-25
Bumthang	554.00	380.75	361.5	414	478.75	0.00	0.00	0	0	0
Chhukha	12,024.00	20,310.00	268.1	11544.75	12799.5	0.00	0.00	0	0	0
Dagana	10,131.00	8,650.00	89.5	5585.87	7008	0.00	1.00	12	0	0
Gasa	0.00	0.00	0	0	0	0.00	0.00	0	0	0
Haa	5,227.00	6,201.00	486.85	255.15	6347.3	0.00	0.00	2	0	0
Lhuentse	20,068.00	24,006.50	35	17018.4	23034.45	0.00	0.00	0	0	0
Monggar	9,558.50	6,919.50	531.3	5785.9	13162.45	0.00	1.00	3	0	0
Paro	112476.9	133,983.00	1,203.20	137,834.55	148,184.30	0.00	0.00	1	0	0.00
Pema Gatshel	0.5	0.00	5	0	8	0.00	0.00	0	0	0
Punakha	80,342.95	90,078.30	448.55	67600.5	85273.35	0.00	0.00	3	0	0
Samdrup Jongkhar	65.00	0.00	0	0	0	0.00	0.00	0	0	0
Samtse	79.00	28.00	5.5	4002.5	2500	0.00	0.00	0	0	0
Sarpang	10,171.50	12,403.00	430.5	8038	0	0.00	0.00	0	0	0
Thimphu	35,596.65	41,430.35	774.4	37296.55	42463.9	0.00	2.00	1	0	0
Trashigang	24,056.50	24,018.00	111	24200	30907.5	0.00	15.00	0	0	0
Trashie Yangtse	35,111.00	40,737.05	375	33542.55	44130.5	0.00	1.00	4	0	0
Trongsa	20,138.25	19,148.35	165.25	18044.25	16078.9	0.00	0.00	0	0	0
Tsirang	5,074.50	6,007.00	69.6	7507.5	15010.25	0.00	0.00	0	0	0
Wandue Phodrang	39,857.85	66,487.60	6,736.70	45,117.45	51,347.95	0.00	4.00	34	0	0.00
Zhemgang	52.00	2.50	61	1	0	0.00	0.00	2	0	0
Total	420,585.10	500,790.90	12,157.95	423,788.92	498,735.10	0.00	24.00	62	0	0.00

Source: NPPC/DoA, MoAL

Table 5.3 (3) Plant protection chemicals distributed by NPPC (2020-2024) (Volume in Kg or Litre unless specified)

Product	Non-toxic				
Dzongkhag	2020-21	2021-22	2022-2023	2023-24	2024-25
Bumthang	408.10	20.50	42.2	2.5	45
Chhukha	664.15	35.00	8	0	223.25
Dagana	554.95	15,955.40	0	185	7552
Gasa	0.00	0.00	440	286	0
Haa	211.15	0.00	28.5	0	50
Lhuentse	88.70	0.00	125	0	0
Monggar	1,489.30	420.50	8.8	113	226.25
Paro	3,689.00	2,667.30	2,194.10	2,843.90	3,082.00
Pema Gatshel	123.85	0.00	0	0	229.5
Punakha	586.15	0.10	284	1.4	5280.5
Samdrup Jongkhar	6.00	0.00	160	0	207.6
Samtse	19.50	405.70	106.2	0	1727.6
Sarpang	620.00	275.20	35	13.5	1355.3
Thimphu	3,894.75	1,743.90	870.3	1345.75	1419.25
Trashigang	1,029.00	0.00	0	98.5	124
Trashy Yangtse	476.50	5.00	0	98	10
Trongsa	80.75	5.00	0	0	4920
Tsirang	110.25	0.00	24.1	180.5	8993.2
Wandue Phodrang	6,872.65	532.40	126.5	150.45	4888.3
Zhemgang	152.00	420.50	0	15	2059
Total	21,076.75	22,486.50	4,452.70	5,333.50	42,392.75

Source: NPPC/DoA, MoAL

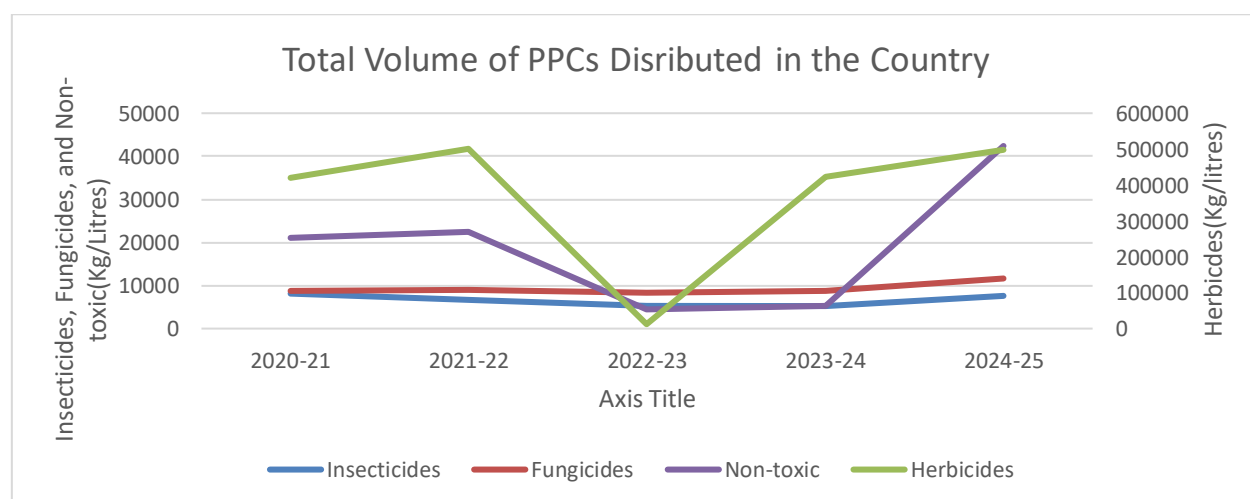


Figure 24: Trends in the total volume of plant protection chemicals distributed in Bhutan (2020-2024) (Volume in Kg or Litre)

Table 5.4 Import of fertilizer (2015-2024) (Volume in MT, Value in Million Nu.)

Commodity	BTC code	Volume/Value	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Urea	3102.10.00	vol	2,142.00	2,935.15	1,196.06	2,110.03	1,517.93	1,849.46	74.63	164.22	72.78	157.66
Ammonium Sulphate	3102.21.00	vol	-	0.04	3.50	-	0.01	30.15	0.04	110.00	0.00	0.00
Ammonium Nitrate	3102.30.00	vol	-	0.01	7.51	-	0.02	0.01	-	-	5.33	0.00
Sodium Nitrate	3102.50.00	vol	-	-	0.00	-	0.01	-	-	0.00	0.00	0.00
Superphosphate	3103.10.00	vol	2,888.95	1,771.75	0.45	-	-	-	-	-	-	-
Potassium Chloride	3104.20.00	vol	0.42	0.42	0.01	0.91	0.44	0.30	1.99	2.36	4.09	0.10
Potassium Sulphate	3104.30.00	vol	-	0.13	3.45	0.02	0.01	0.00	0.01	0.01	0.02	0.01
Mixture of NPK	3105.90.00	vol	2.10	1.00	2.25	-	0.57	160.00	579.25	2.36	0.35	0.07
Urea	3102.10.00	val	31.38	44.48	17.69	35.49	25.19	30.99	5.24	12.40	2.63	4.84
Ammonium Sulphate	3102.21.00	val	-	0.03	0.03	-	-	0.51	0.03	3.77	0.00	0.00
Ammonium Nitrate	3102.30.00	val	-	-	0.29	-	-	0.00	-	-	0.26	0.00
Sodium Nitrate	3102.50.00	val	-	-	0.00	-	-	-	-	0.00	0.00	0.00
Superphosphate	3103.10.00	val	75.27	47.16	0.55	-	-	-	-	-	-	-
Potassium Chloride	3104.20.00	val	0.06	0.10	0.04	0.08	0.08	0.04	0.16	0.21	0.30	0.06
Potassium Sulphate	3104.30.00	val	-	0.03	0.09	0.01	0.00	0.00	0.01	0.01	0.01	0.01
Mixture of NPK	3105.90.00	val	0.07	0.05	0.04	-	0.06	5.18	13.07	0.59	0.02	0.05

Source: Bhutan Trade Statistics, DRC, MoF, compiled by RNR-SD or PPD

Table 5.5 (1) Fertilizer distributed by NSC (2017-2023) (Volume in MT)

Product	Suphala					Urea				
Dzongkhag	2020-21	2021-22	2022-23	2023-24	2024-25	2020-21	2021-22	2022-23	2023-24	2024-25
Bumthang	52.94	53.20	36.85	33.80	46.50	199.44	64.38	138.57	104.50	141.26
Chhukha	254.30	90.51	122.05	87.00	102.97	118.95	25.30	37.45	40.46	10.11
Dagana	13.20	17.00	8.35	28.90	20.05	6.84	5.99	8.49	9.00	5.76
Gasa	-	-	-	-	-	-	-	-	-	-
Haa	21.00	35.00	36.15	23.50	18.00	17.55	24.06	19.49	23.00	11.03
Lhuentse	18.65	-	0.25	2.00	0.50	25.11	74.93	47.08	46.98	31.41
Monggar	53.05	27.80	19.50	38.53	37.78	34.34	56.98	26.28	25.38	53.24
Paro	298.55	164.91	120.18	136.50	143.71	147.02	131.19	100.09	86.04	80.98
Pema Gatsel	0.00	-	-	-	4.60	5.13	-	-	-	-
Punakha	97.44	59.50	50.90	81.98	89.35	151.16	120.42	98.71	94.50	115.49
Samdrup Jongkhar	0.00	-	0.15	0.00	7.93	0.00	-	-	-	1.10
Samtse	4.05	5.00	1.03	5.00	1.54	3.51	1.53	1.33	4.50	-
Sarpang	4.50	6.00	8.15	29.90	13.50	27.05	29.07	47.94	47.97	4.24
Thimphu	136.30	86.50	63.50	104.60	87.83	71.88	53.15	84.52	84.96	53.26
Trashigang	243.80	55.65	105.45	111.68	186.94	101.39	414.39	164.71	129.27	161.91
Trashi Yangtse	62.51	45.00	28.53	51.40	33.95	28.85	107.35	90.01	87.98	48.58
Trongsa	21.40	17.45	4.23	6.50	18.78	13.86	14.69	9.63	35.91	11.70
Tsirang	10.05	14.25	5.98	20.23	34.15	9.77	18.75	16.00	17.96	20.82
Wandue Phodrang	563.75	231.00	537.35	411.23	664.38	119.28	59.64	109.59	99.99	100.51
Zhemgang	-	-	-	-	-	0.00	-	-	-	-
Total	1,855.49	908.76	1,148.58	1,172.73	1,512.43	1,081.10	1,201.80	999.86	938.37	851.36

Source: NSC, DoA, MoAL

Table 5.5 (2) Fertilizer distributed by NSC (2017-2023) (Volume in MT)

Product	Single Super Phosphate					Muriate Potash				
Dzongkhag	2020-21	2021-22	2022-23	2023-24	2024-25	2020-21	2021-22	2022-23	2023-24	2024-25
Bumthang	351.45	68.75	176.70	175.00	202.70	0.35	-	-	0.35	0.35
Chhukha	5.10	0.55	0.00	0.50	0.30	0.05	0.85	-	-	-
Dagana	0.00	-	0.50	0.25		0.00	-	0.50	-	-
Gasa	0.00	-	-	-		0.00	-	-	-	-
Haa	2.50	-	-	3.00		0.00	-	-	-	-
Lhuentse	0.35	1.25	-	0.00		0.00	-	-	-	-
Monggar	14.20	5.15	0.65	0.75	0.50	0.00	1.40	-	-	-
Paro	7.70	5.15	3.20	3.50	8.95	1.60	-	-	0.60	-
Pema Gatshel	-	-	-	-	-	0.00	-	-	-	-
Punakha	17.95	5.00	2.00	1.50	8.25	0.00	-	-	-	-
Samdrup Jongkhar	0.00	-	-	-	-	0.00	-	-	-	-
Samtse	0.00	-	-	-	-	0.00	-	-	7.05	0.60
Sarpang	0.50	-	4.30	4.25	0.70	1.00	-	3.10	-	2.25
Thimphu	45.95	15.15	28.10	26.55	15.75	4.15	0.15	0.90	2.65	-
Trashigang	42.25	-	17.50	7.20	17.30	0.00	-	-	-	-
Trashy Yangtse	3.50	-	2.00	-	-	0.00	-	-	-	-
Trongsa	0.00	0.05	-	0.50	0.50	0.00	-	-	-	0.20
Tsirang	0.60	1.00	-	-	-	0.00	-	-	-	-
Wandue Phodrang	183.20	1.50	83.65	88.40	113.95	1.75	25.30	-	-	-
Zhemgang	-	-	-	-	-	0.00	-	-	-	-
Total	675.25	103.55	318.60	311.40	368.90	8.40	27.70	4.50	10.65	3.40

Source: NSC, DoA, MoAL

Table 5.5 (3) Fertilizer distributed by NSC (2017-2023) (Volume in MT)

Product	Bone Meal							Diammonium Phosphate (DAP)						
Dzongkhag	2017-18	2018-19	2019-20	2020-21	2021-22	2022-2023	2023-24	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Bumthang	0.00	0.25	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Chhukha	0.00	0.00	-	-	-	-	-	-	1.15	0.00	0.90	0.20	-	-
Dagana	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Gasa	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Haa	0.00	0.20	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Lhuentse	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Monggar	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Paro	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Pema Gatshel	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Punakha	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Samdrup Jongkhar	0.00	0.00	-	-	-	-	-	-	0.00	0.40	0.00	-	-	-
Samtse	0.00	0.00	-	-	-	-	-	-	0.20	0.00	0.00	-	-	-
Sarpang	0.15	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Thimphu	0.75	0.15	-	-	-	-	-	-	0.20	0.00	0.00	-	-	-
Trashigang	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Trashy Yangtse	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Trongsa	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Tsirang	0.00	0.85	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Wandue Phodrang	0.00	0.75	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Zhemgang	0.00	0.00	-	-	-	-	-	-	0.00	0.00	0.00	-	-	-
Total	0.90	2.20	-	-	-	-	-	-	1.55	0.40	0.90	0.20	-	-

Source: NSC, DoA, MoAL

Table 5.5 (4) Fertilizer distributed by NSC (2017-2023) (Volume in MT)

Product	Borax				
Dzongkhag	2020-21	2021-22	2022-23	2023-24	2024-25
Bumthang	0.00	-	-	-	-
Chhukha	0.00	-	-	-	-
Dagana	0.00	-	-	-	-
Gasa	0.00	-	-	-	-
Haa	0.00	-	-	-	-
Lhuentse	0.00	-	-	-	-
Monggar	0.00	-	-	-	-
Paro	0.15	-	0.02	0.13	0.15
Pema Gatshel	0.00	-	-	-	-
Punakha	0.00	-	-	-	-
Samdrup Jongkhar	0.00	-	-	-	-
Samtse	0.00	-	-	-	-
Sarpang	0.00	-	-		
Thimphu	0.18	0.10	0.06	0.13	0.09
Trashigang	0.00	-	-	-	-
Trashy Yangtse	0.00	-	-	-	-
Trongsa	0.00	-	-	-	-
Tsirang	0.00	-	-	-	-
Wandue Phodrang	0.00	-	-	-	-
Zhemgang	0.00	-	-	-	-
Total	0.33	0.10	0.08	0.26	0.24

Source: NSC, DoA, MoAL

Table 5.6 Vegetable seed and seedling distributed by NSC (2017-2023) (Volume in Kg unless specified)

Commodity	2020-21	2021-22	2022-23	2023-24	2024-25
Vegetable seed					
Bean Borlotto Climber	5,819.20	1,598.55	399.20	322.35	211.80
Bean Borlotto Dwarf	499.45	460.95	774.15	122.50	38.75
Beans Rajma	2,130.65	1,017.75	1,249.90	906.30	382.75
Bean Pole	242.25	445.10	381.90	277.00	77.45
Bean Top Crop	56.00	109.50	153.10	378.80	68.80
Beetroot DDR	135.94	71.65	151.05	331.57	364.22
Bitter Gourd	127.41	32.63	40.49	37.57	17.25
Bottle Gourd	60.00	42.60	22.58	1.35	2.97
Brinjal PP Long	315.20	117.30	68.50	43.91	42.80
Broccoli Centauro Hybrid	512.26	383.20	314.76	252.65	217.60
Broccoli Dessico	154.58	23.64	10.41	25.77	36.52
Bunching Onion No. 21	24.13	43.94	33.29	18.45	30.87
Cabbage Bondy Cross Hybrid	154.51	122.42	130.00	105.03	62.54
Cabbage Golden Acre	285.30	159.93	159.61	8.48	1.75
Cabbage Golden Cross Hybrid	344.73	292.83	305.00	263.18	260.58
Cabbage Green Coronet Hybrid	116.57	129.04	139.85	57.62	104.23
Cabbage-Red jewel	-	-	-	-	0.10
Carrot All Season Hybrid	202.77	104.90	129.60	54.10	74.65
Carrot New Kuroda	711.82	503.26	943.61	1,044.99	912.73
Cauliflower-Carotena	-	-	-	-	0.11
Cauliflower Khangma Early	119.79	148.76	114.29	52.09	38.91
Cauliflower Snow Mystique Hybrid	359.93	398.27	402.06	269.08	228.66
Cauliflower (Pragati 40)	34.06	7.07	15.46	7.06	3.02
Cauliflower white express 50	38.34	24.71	6.95	0.00	-
Cauliflower-Monson queen	-	-	-	-	0.50
Chili Hyb Pan 1498	-	-	-	-	-
Chili Hyb SHP4884	174.27	219.10	78.03	58.78	37.16

Chili Hyb SV2319HA	148.09	39.14	58.66	0.00	-
Chilli--Hyb (Sitara Gold)	-	-	-	-	17.06
Chili IR-8	177.26	63.23	46.68	9.44	18.96
Chili Sha Ema	263.66	120.19	57.79	25.13	16.90
Chili Urka Bangla	-	0.00	0.00	0.00	-
Chinese Cabbage Kyoto	30.20	0.56	0.56	-	-
Coriander	178.61	229.06	163.77	80.10	92.77
Cucumber Frontier Hybrid	19.54	13.31	14.34	9.15	4.22
Cucumber Santon No. 1	52.60	51.64	31.03	20.52	17.62
Cucumber Shaba Genchu	1.24	25.15	37.80	19.49	31.10
Garlic	-	-	-	-	-
Japanese Green Mibuna	4.02	25.80	38.20	7.10	7.91
Japanese Green Taisai	-	18.96	37.41	31.46	51.16
Ladies Finger Kranti	171.23	74.57	32.40	8.87	4.41
Lettuce Great Lake	59.27	42.35	45.93	19.57	22.34
Sag-Wengkhar Petse-1	-	-	-	-	6.50
Mustard Green Him Beauty	62.05	125.96	152.52	58.41	33.80
Onion Bombay Red	136.65	597.01	209.95	111.21	92.45
Onion Pune Red Hybrid	1,219.80	982.35	628.19	197.62	200.56
Onion (red creole)	8.00	0.00	0.00	0.00	-
Onion (white creole)	3.77	4.88	0.51	0.00	-
Pea Arkel	1,262.20	1,584.60	321.45	633.53	300.55
Pea Mr. Big	33.90	65.00	58.70	137.40	170.95
Pea Usui	974.50	708.45	854.10	515.40	335.45
Radish-35 days	18.32	31.63	20.76	16.22	5.42
Radish Minowase	273.34	137.78	147.82	200.00	68.62
Radish SPTN	514.68	343.46	292.16	287.60	230.42
Spinach All Green	81.19	54.86	46.62	12.95	8.50
Spinach Leaf Beet	38.23	13.67	0.03	0.24	3.38
Squash Zucchini	17.01	13.42	18.42	16.88	10.85

Tomato Cosmic	1.77	4.18	14.03	9.51	5.23
Tomato PS-61 Hybrid	107.96	46.88	24.76	28.45	11.18
Tomato Garv	-	1.31	11.81	5.67	4.18
Tomato Rattan	58.74	26.85	9.62	5.89	2.87
Tomato Roma	62.51	39.29	30.54	4.72	9.56
Turnip PTWG	44.99	34.81	24.07	21.66	22.91
Water Melon Sugar Baby	96.33	55.06	0.04	0.00	-
Water Melon-Black ball	-	-	-	-	7.76
Water Melon-Kabuki	-	-	-	-	9.26
Organic commodities					
Beans borlotto-Indeterminate	30.00	560.00	600.50	20.00	0.50
Beans borlotto-Determinate	65.00	217.95	102.55	94.00	60.98
Chilli-Sha ema		1.88	1,082.10	0.50	1.28
Royal quinoa seeds	145.00	48.00	1,017.00	7,497.00	2,683.97
Buck wheat-sweet/Bitter	1,600.00	5,326.00	3,591.82	966.00	1,594.81
Ginger-Local	3,400.00	9,488.00	1,500.00	500.00	-
Turmeric-Local	2,500.00	2,000.00	500.00	500.00	-
Potato Seeds					
Potato Chipsona	-	-	-	-	350.00
Potato-Desiree	247,686.00	231,550.00	171,535.00	4,004.00	9,505.00
Potato-Desiree (G3)	3,900.00	-	-	-	-
Potato-Desiree (Oversize)		-	-	-	-
Potato-Desiree (Under Size)	1,000.00	-	-	10,000.00	-
Potato-NKK (off size)	-	-	-	14,250.00	-
Potato-NKK (seed size)	7,100.00	2,450.00	500.00	700.00	-
Potato-Yusimaap	6,450.00	121,800.00	102,350.00	154,800.00	71,100.00
Potato-Yusimaap (Off size)	-	-	-	3,441.50	21,950.00
Potato-Khangma Kaap	-	6,250.00	0.00	3,800.00	850.00

Source: NSC, DoA, MoAL

Table 5.7 Temperate fruit and other crop seedling distributed by NSC (2017-2023) (Volume in No. unless specified)

Category/Commodity	2020-21	2021-22	2022-23	2023-24	2024-25
Temperate fruit seedling					
Apple	9,576	51,775.00	14,872.00	48,632.00	7,674.00
Almond Kagzi	597	54,680.00	103,144.00	37,032.00	895.00
Apricot Shakapara	1,453	9,755.00	4,214.00	382.00	315.00
Cherry Seneca	116	4,810.00	97.00	500.00	505.00
Chestnut Jewphu-1	417	2,665.00	565.00	1,216.00	1,035.00
Peach	3,218	52,635.00	20,530.00	1,592.00	998.00
Pear	9,692	86,465.00	35,543.00	2,620.00	5,605.00
Persimmon	830	69,833.00	23,223.00	3,012.00	2,282.00
Plum	1,451	41,946.00	18,095.00	654.00	514.00
Prune	-			500.00	500.00
Walnut Kagzi grafted	1,000	10,258.00	3,946.00	2,038.00	3,892.00
Walnut seedling	-	37,928.00	109,625.00	29,273.00	75.00
Assorted seedlings					
Cardamom Barlangay	-	61,310.00	2,370.00	-	10,600
Asparagus	146,995	102,100.00	30,700.00	98,420.00	305,535.00
Strawberry seedling	3,435	2,751.00	3,002.00	6,042.00	22,338.00
Pecan nut	-	12300	17618	26102	2238
Kiwi	-	27662	73988	40132	-

Source: NSC, DoA, MoAL

Table 5.8 Subtropical fruit seed and seedling distributed by NSC (2017-2023) (Volume in No. unless specified)

Commodity	2020-21	2021-22	2022-23	2023-24	2024-25
Arecanut Bhur S-1	7,444	6,325.00	6,075.00	9,019.00	1,750.00
AVocado grafted	-	-	-	-	15,768.00
Avocado seedling	9,260	113,306.00	190,843.00	4,041.00	24,906.00
Citrus Seedlings	35,928	57,380.00	194,879.00	20,753.00	40,217.00
Banana G-Naine	9,500	60,575.00	4,256.00	628.00	128.00
Dragon Fruit Gewaringpa-1	5,817	103,589.00	75,974.00	1,760.00	7,581.00
Guava Bebsew Shakha	598	11,553.00	458.00	76.00	123.00
Jack Fruit Bhur S-1	7	71.00	13.00	9.00	35.00
Litchi	2,042	38,559.00	6,083.00	372.00	403.00
Mango Grafted	6,780	123,139.00	25,007.00	2,519.00	8,448.00
Papaya Bhur S-1	1,699	5,990.00	2,127.00	48.00	11.00
Passion Fruit	400	25,181.00	2,800.00	7,104.00	1,760.00
Pineapple	7,860	2,700.00	25,100.00	-	130
Pomegranate Bedana	1,012	9,961.00	800.00	96.00	82.00
Macadamia	-	0	8881	1508	67069
Bears Lime/seedless lime	-	0	143813	5391	5815
Erwin Mango	-	0	70055	318	6
Sour sop	-	0	31500	3	28
Cardammom	-	61310	2370	-	-

Source: NSC, DoA, MoAL

Table 5.9 Cereal seed and seedling distributed by NSC (2017-2023) (Volume in Kg unless specified)

Commodity	2020-21	2021-22	2022-23	2023-24	2024-25
Maize					
Maize Chaskharpa	7,950	6,250.00	5,630.00	2,500.00	5,000.00
Maize Hybrid	40,068	10,856.00	0.00	-	-
Maize Shaphangma	680	3,730.00	678	44574	1,760.00
Maize Yangtsepa	52,890	49,500.00	96,860.00	87,608.00	42,777.25
Maize Rejects		0.00	0.00	-	-
Paddy					
Paddy Bajo Maap-1	-	-	2,330.00	-	690.00
Paddy Bajo Maap-2	1,700	2,140.00	20.00	-	-
Paddy Bajo maap 3	-	-	1,800.00	1,500.00	-
Paddy Bajo Kaap-1		-	230.00	-	-
Paddy Bajo Kaap-2	1,000	-	230.00	-	430.00
Paddy Bajo Kaap-3	-	-	-	-	2,580.00
Paddy IR-20913	200	60.00	0.00	120.00	-
Paddy IR-64	1,700	1,440.00	760.00	-	-
Paddy Khangma Maap	16,420	16,900.00	12,996.00	6,170.00	1,350.00
Paddy No.11	2,240	3,580.00	880.00	120.00	6.84
Bhur Kamja 1	19,700	23,700.00	19,200.00	-	1,730.00
Paddy-SRK 111	-	-	-	10,250.00	11,080
Paddy GB-1	-	-	-	-	-
Paddy Yusi Ray Maap	2,560	9,660.00	1,880.00	80.00	-
Paddy Reject	-	-	-	-	-
Wheat					
Wheat Bajosokha Kaa	69	-	-	-	-
Wheat Bumthang Kaa-60		820.00	780.00	2,620.00	1,475

Wheat Gumasokha Kaa	26,900	28,046.00	31,790.00	9,640.00	4,310.00
Gulum	272	0.00	0.00	-	-
Wheat Duram	-	0.00	1,675.00	6,000.00	6,600.00
Other cereals					
Quinoa	-	0.00	0.00	-	-
Millet	-	0.00	0.00	-	-
Buckwheat	-	0.00	0.00	-	-
Oil seeds & pulses					
Mustard M-27	8,730	4,710.00	15,377.00	1,960.00	2,028.00
Soya Bean Khangma Lebi-1	455	1,705.00	-	-	-
Yusi Peka-1	-	-	-	-	-
Yusi Peka-2	975	84.00	9.50	190.00	276.00
Lentil (WBL-58)	4,770	-	-	-	-

Source: NSC, DoA, MoAL

Table 5.10 DOC (Day Old Chick) distributed by NPRC (2017-2023) (Value in No. unless specified)

Dzongkhag	2020-21	2021-22	2022-23	2023-24	2024-25
Bumthang	0	0	0	0	0
Chhukha	0	0	0	0	2600
Dagana	2,420	10,915	3,650	5,200	5,250
Gasa	2,265	2,500	0	0	0
Haa	1,000	0	0	0	0
Lhuntse	0	0	0	0	0
Monggar	0	0	0	0	0
Paro	0	0	0	0	0
Pema Gatshel	0	0	0	0	0
Punakha	8,710	14,225	5,000	1,000	600
Samdrup Jongkhar	0	0	0	0	0
Samtse	4,505	0	0	3500	2000
Sarpang	37,591	105,802	25,800	109,640	33,805
Thimphu	0	0	0	0	0
Trashigang	0	0	0	0	0
Trongsa	3,745	10,863	6,800	11,950	0
Tsirang	27,534	56,048	7,100	65,590	23,985
Wangdue Phodrang	5,600	19,245	2,400	2,000	250
Zhemgang	2,000	9,990	2,150	6,150	19,760
BLDCL	1,500	1,500	0	0	21910

Source: National Poultry Research Centre, Sarpang, DoL, MoAL

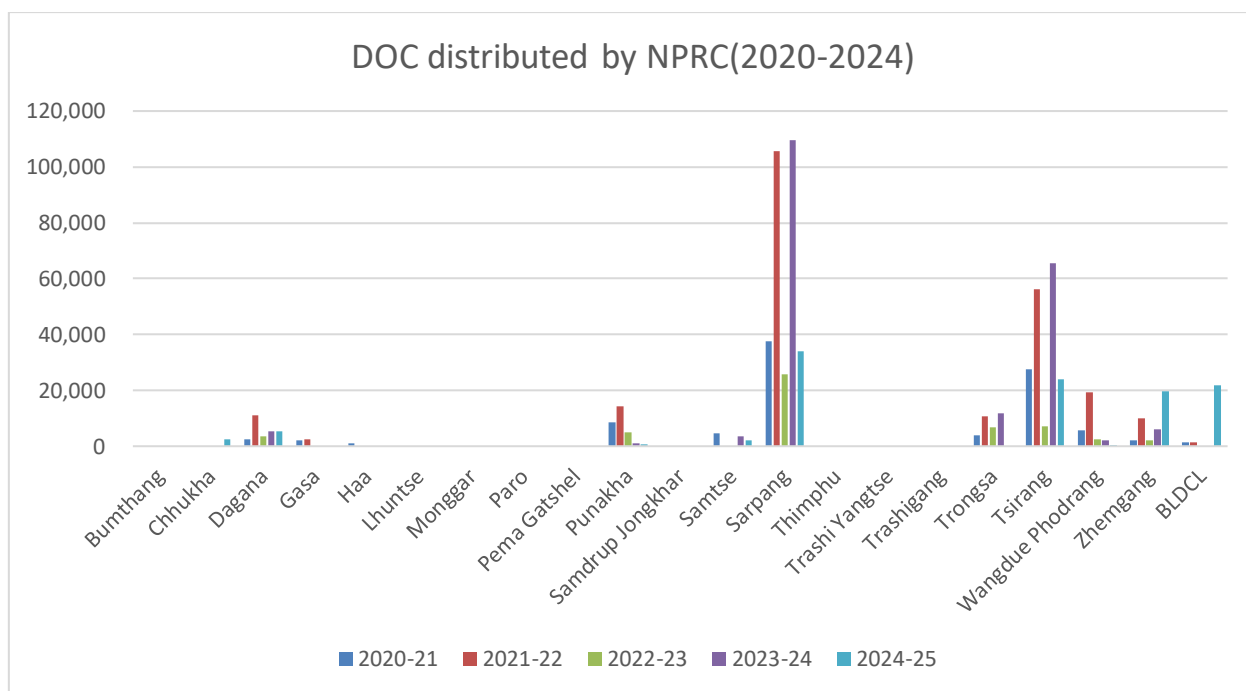


Figure 25: Trends in the day-old-chick distribution by NPRC (2020-2024) (Value in No.)

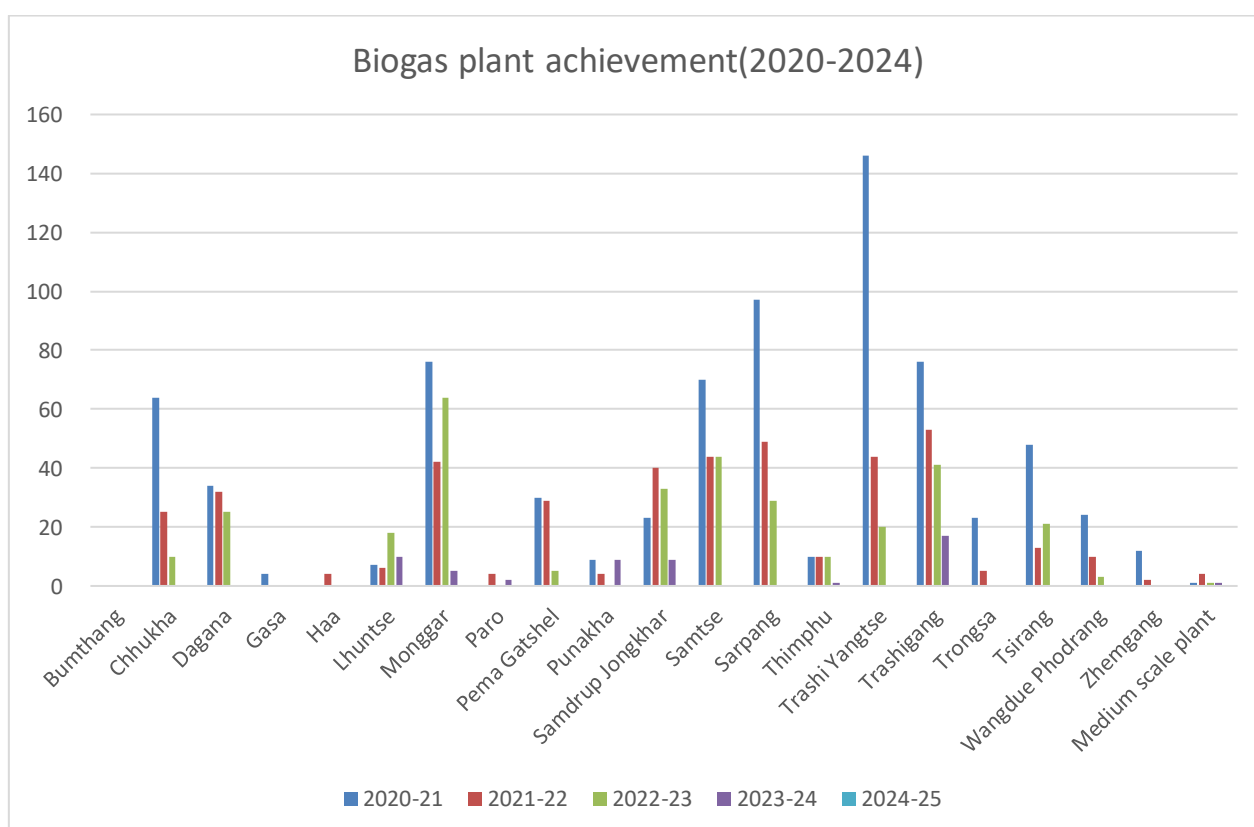


Figure 26: Trends in the biogas plant achievement (2020-2024) (Value in No.)

Table 5.11 Biogas plant achievement by Dzongkhag (2020-2024) (Value in No. unless specified)

Dzongkhag	2020-21	2021-22	2022-23	2023-24	2024-25
Bumthang	0	0	0	0	0
Chhukha	64	25	10	0	0
Dagana	34	32	25	0	0
Gasa	4	0	0	0	0
Haa	0	4	0	0	0
Lhuntse	7	6	18	10	0
Monggar	76	42	64	5	0
Paro	0	4	0	2	0
Pema Gatshel	30	29	5	0	0
Punakha	9	4	0	9	0
Samdrup Jongkhar	23	40	33	9	0
Samtse	70	44	44	0	0
Sarpang	97	49	29	0	0
Thimphu	10	10	10	1	0
Trashigang	146	44	20	0	0
Trongsa	76	53	41	17	0
Tsirang	23	5	0	0	0
Tsirang	48	13	21	0	0
Wangdue Phodrang	24	10	3	0	0
Zhemgang	12	2	0	0	0
Medium scale plant	1	4	1	1	0

Source: National Poultry Research Centre, Sarpang, DoL, MoAL

Table 5.12 Greenhouse distribution to Dzongkhag (2018-2023) (Value in No. unless specified)

Dzongkhag	Fabricated plastic					
	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Bumthang	17	17	-	-	210	199
Chhukha	38	79	99	10	277	30
Dagana	11	83	178	17	175	0
Gasa	-	1	13	-	63	0
Haa	19	7	5	-	300	0
Lhuntse	10	39	102	-	77	16
Monggar	14	33	43	13	130	37
Paro	33	39	147	-	34	0
Pema Gatshel	3	49	57	6	74	14
Punakha	10	38	57	2	124	0
Samdrup Jongkhar	7	50	101	33	47	0
Samtse	2	8	47	1	170	89
Sarpang	39	72	240	8	226	0
Thimphu	2	12	84	-	68	0
Trashigang	9	10	55	-	101	23
Trashigang	4	42	57	1	72	97
Trongsa	15	55	57	-	96	0
Tsirang	2	47	89	41	65	1
Wangdue Phodrang	2	13	56	11	107	19
Zhemgang	6	22	4	1	119	6
Total	243	716	1,491	144	2,535	531

Source:DoA, MoAL

CHAPTER 6: INFRASTRUCTURE

This chapter presents statistics on the state of various production infrastructures such as offices, irrigation canals, farm roads, and electric fencing across the country. These kinds of hardware inputs are crucial in keeping rural farms up and running, combating rural-urban migration and ensuring food self-sufficiency or food security.

The construction of irrigation canals and farm roads is often executed by both central bodies in Thimphu (e.g. by the engineering division of DoA) and the Dzongkhags themselves through funding from various sources, hence compilation of statistics accurately and timely on these infrastructures is quite challenging.

Electric fencing, which has become quite popular as a means to keep wild animals off crops is another input that is executed by several bodies such as NPPC under DoA, various functionaries under DoFPS, various projects, and even NGOs. Private individuals are also known to put electric fencing around their fields. Nonetheless, we present here reliable and updated figures to the best extent possible.

Table 6.1 List of field offices under MoAL (2024)

Indicators	2024
Agriculture (Number)	
Agriculture Extension Centres	201
Agriculture Seed Centre	1
Regional Seed Centres	3
Agriculture Seed Farms	4
National Plant Protection Centre	1
Agriculture Machinery and Technology Centre	1
National Mushroom Centre	1
Agriculture Research and Development Centres	3
-Agriculture Research and Development Sub-centres	4
National Centre for Organic Agriculture	1
National Soil Service Centre	1
Soil and Plant Analytical Laboratory	1
Farm Machinery Cooperation Limited (SOE)	1
Agricultural Marketing Centres (Numbers)	
National Post Harvest Centre	1
Regional Post Harvest Centres	4
Regional Agricultural Marketing and Cooperative Office	3
Livestock (Number)	
Livestock Extension Centres	218
National Livestock Research Centre	1
National Centre for Animal Health	1
Dzongkhag Veterinary Hospitals	20
Regional Livestock Development Centre	1
National Veterinary Hospital	1
-Regional Veterinary Hospital & Epidemiology Centres	3
Satellite Veterinary Laboratory	1
Government Livestock Farms (for breeding/production)	17
Vaccine Production Centre	1
Liquid Nitrogen and Semen Processing Centres	2
National Development Centre for Animal Nutrition	1
Regional Development Centre for Animal Nutrition	1

National highland Development Centre	1
Bhutan Livestock Development Corporation (SOE)	1
Livestock Product Value Addition Centre	1
National Biodiversity Centre	
Centre for Nublang Conservation and Development	1
Centre for Yubja Conservation and Development	1

Source: Socio Economic Indicators, NSB (2024)

Table 6.3(1)-1 Irrigation schemes constructed/renovated (by DoA) during the 12-FYP (Length)

Dzongkhag	Irrigation schemes constructed/renovated (length in km)					
	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Bumthang	-	-	-	-	-	0.00
Chhukha	-	-	-	-	-	0.00
Dagana	-	-	3.70	-	3.70	7.40
Gasa	-	-	-	-	3.02	3.02
Haa	-	10.00	-	-	4.50	14.50
Lhuntse	3.00	-	-	10.56	5.50	19.06
Monggar	-	-	-	-	-	0.00
Paro	-	-	-	-	3.00	3.00
Pema Gatshel	-	-	-	-	-	0.00
Punakha	-	25.00	3.50	13.50	38.20	80.20
Samdrup Jongkhar	-	-	-	-	13.34	13.34
Samtse	21.00	-	-	5.00	7.84	33.84
Sarpang	11.00	-	1.50	2.50	4.50	19.50
Thimphu	-	-	-	-	-	0.00
Trashigang	7.80	-	-	-	2.45	10.25
Trashie Yangtse	-	-	-	1.70	17.00	18.70
Trongsa	-	2.30	7.00	-	17.40	26.70
Tsirang	-	7.20	2.50	4.20	2.00	15.90
Wangdue Phodrang	-	-	26.90	22.60	46.92	96.42
Zhemgang	-	-	-	4.50	4.00	8.50
Total	42.80	44.50	45.10	64.56	173.37	370.33

Source: DoA, MoAL

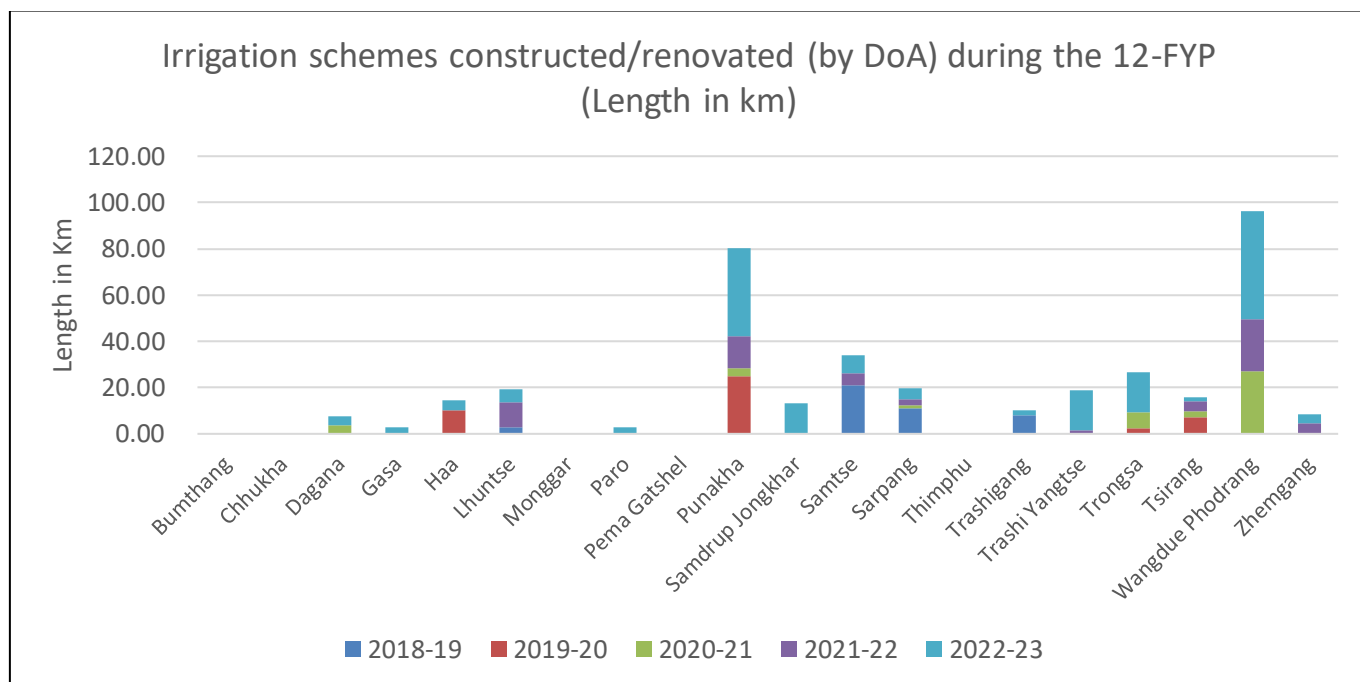


Figure 27: Irrigation Schemes Constructed/Renpvated(by DoA) during 12th FYP(2018-2023) by Dzongkhag(Length in Km)

Table 6.3 (1)-2 Irrigation schemes constructed/renovated (by DoA) during the 12-FYP (Command area)

Dzongkhag	Irrigation schemes constructed/renovated (command area in Acre)					
	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Bumthang	-	-	-	-	-	0.00
Chhukha	-	-	-	-	-	0.00
Dagana	-	-	70.00	-	104.60	174.60
Gasa	-	-	-	-	120.00	120.00
Haa	-	20.00	-	-	39.00	59.00
Lhuntse	116.10	-	-	400.00	361.00	877.10
Monggar	-	-	-	-	-	0.00
Paro	-	-	-	-	131.00	131.00
Pema Gatshel	-	-	-	-	-	0.00
Punakha	-	200.00	49.00	604.00	1,623.86	2,476.86
Samdrup Jongkhar	-	-	-	-	1,306.00	1,306.00
Samtse	1,717.96	-	-	300.00	157.00	2,174.96
Sarpang	648.37	-	75.00	130.00	327.55	1,180.92
Thimphu	-	-	-	-	-	0.00
Trashigang	500.00	-	-	-	136.54	636.54
Trashhi Yangtse	-	-	-	150.00	630.00	780.00
Trongsa	-	180.00	300.00	-	360.00	840.00
Tsirang	-	224.00	59.00	204.00	54.96	541.96
Wangdue Phodrang	-	-	509.00	413.00	1,034.54	1,956.54
Zhemgang	-	-	-	80.00	52.00	132.00
Total	2,982.43	624.00	1,062.00	2,281.00	6,438.05	13,387.48

Source: DoA, MoAL

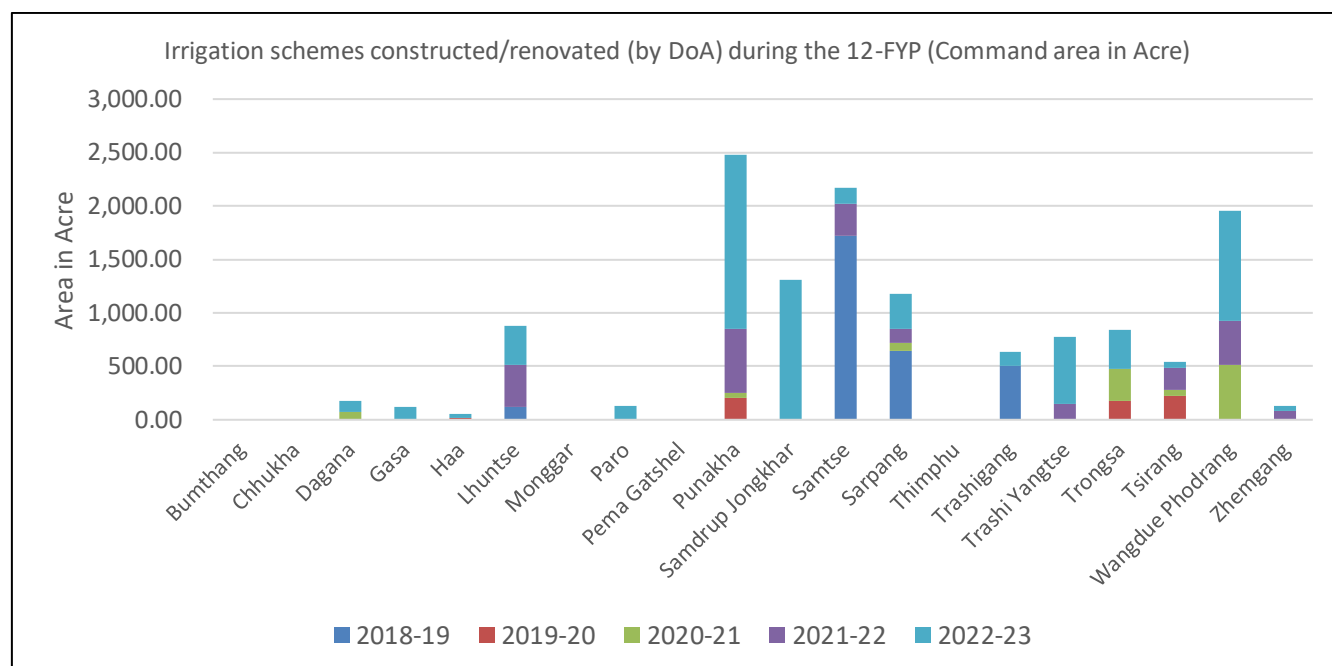


Figure 28:irrigation scheme Constructed/renovated (DoA) during the 12th FYP(Command area in Acre)

Table 6.3 (1)-3 Irrigation schemes constructed/renovated (by Dzongkhag) during the 12-FYP (Length)

Dzongkhag	Irrigation schemes constructed/renovated (length in km)					
	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Bumthang	-	-	-	-	-	0.00
Chhukha	-	-	-	-	-	0.00
Dagana	-	-	-	-	-	0.00
Gasa	-	-	-	-	-	0.00
Haa	-	-	-	-	-	0.00
Lhuntse	-	-	-	-	11.00	11.00
Monggar	-	-	-	-	-	0.00
Paro	-	-	-	-	-	0.00
Pema Gatshel	-	-	-	-	16.00	16.00
Punakha	-	-	-	-	8.00	8.00
Samdrup Jongkhar	-	-	-	-	-	0.00
Samtse	-	-	-	-	-	0.00
Sarpang	-	-	-	-	-	0.00
Thimphu	-	-	-	-	-	0.00
Trashigang	-	-	-	-	-	0.00
Trashy Yangtse	-	-	-	-	6.60	6.60
Trongsa	-	-	-	-	-	0.00
Tsirang	-	-	-	-	-	0.00
Wangdue Phodrang	-	-	-	-	-	0.00
Zhemgang	-	-	-	-	-	0.00
Total	0.00	0.00	0.00	0.00	41.60	41.60

Source: DoA, MoAL

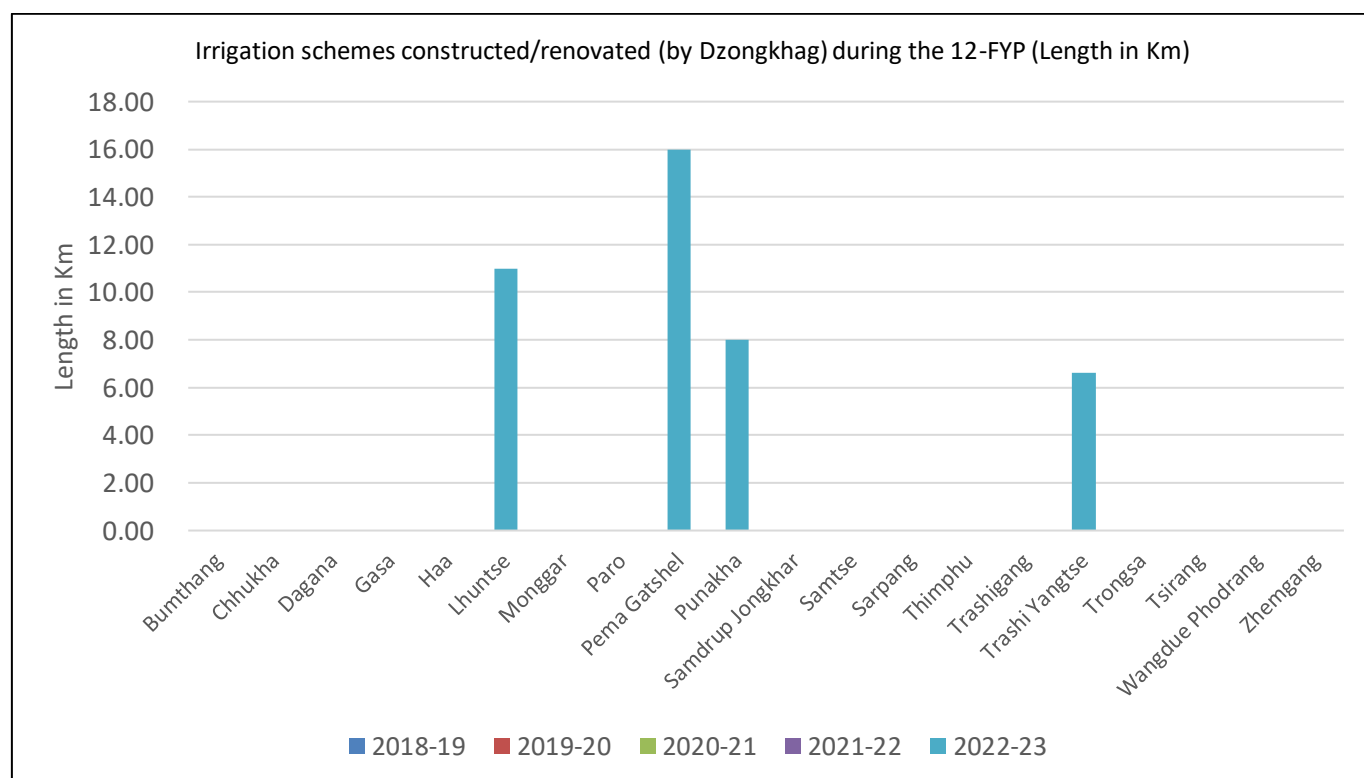


Figure 29: Irrigation schemes constructed/renovated (by Dzongkhag) during the 12-FYP (Length in Km)

Table 6.3 (1)-4 Irrigation schemes constructed/renovated (by Dzongkhag) during the 12-FYP (Command area)

Dzongkhag	Irrigation schemes constructed/renovated (length in km)					
	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Bumthang	-	-	-	-	-	0.00
Chhukha	-	-	-	-	-	0.00
Dagana	-	-	-	-	-	0.00
Gasa	-	-	-	-	-	0.00
Haa	-	-	-	-	-	0.00
Lhuntse	-	-	-	-	424.55	424.55
Monggar	-	-	-	-	-	0.00
Paro	-	-	-	-	-	0.00
Pema Gatshel	-	-	-	-	0.00	0.00
Punakha	-	-	-	-	115.00	115.00
Samdrup Jongkhar	-	-	-	-	-	0.00
Samtse	-	-	-	-	-	0.00
Sarpang	-	-	-	-	-	0.00
Thimphu	-	-	-	-	-	0.00
Trashigang	-	-	-	-	-	0.00
Trashy Yangtse	-	-	-	-	162.00	162.00
Trongsa	-	-	-	-	-	0.00
Tsirang	-	-	-	-	-	0.00
Wangdue Phodrang	-	-	-	-	-	0.00
Zhemgang	-	-	-	-	-	0.00
Total	0.00	0.00	0.00	0.00	701.55	701.55

Source: DoA, MoAL

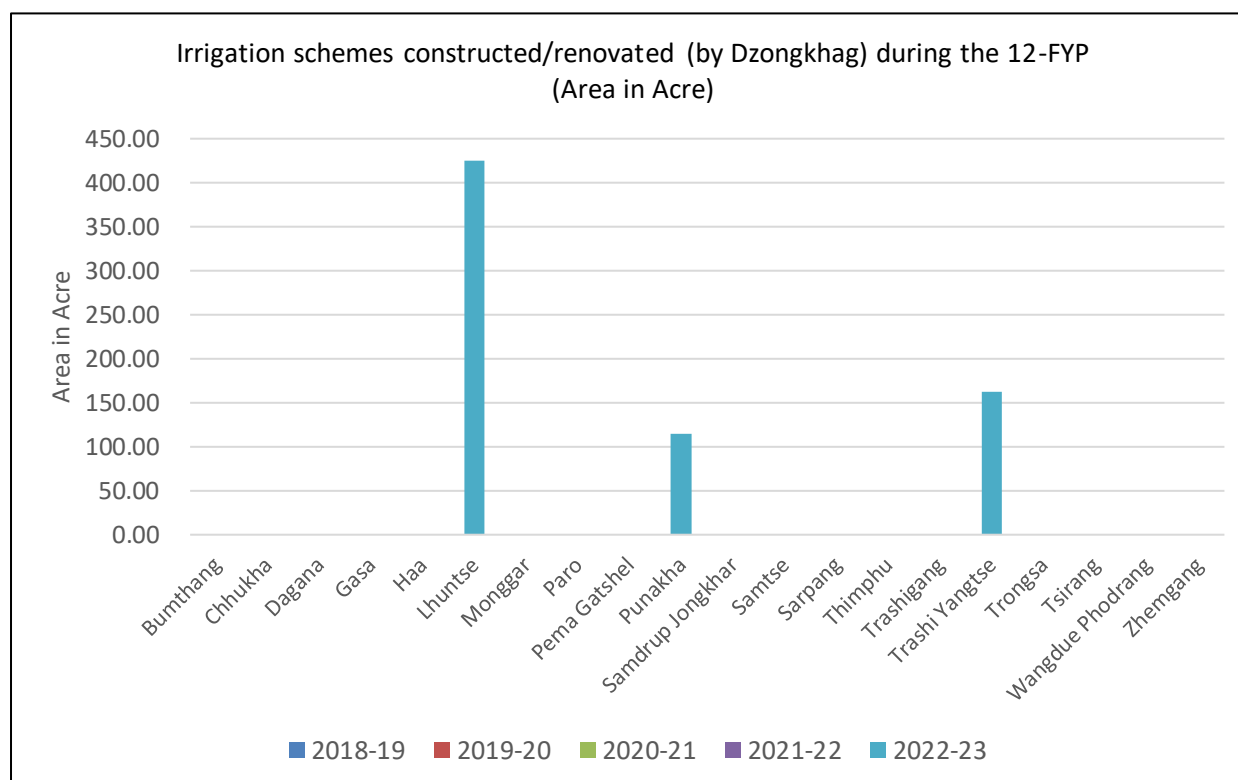


Figure 30: Irrigation schemes constructed/renovated (by Dzongkhag) during the 12-FYP (Area in Acre)

CHAPTER 7: PRICE

Price received by farmers for their produce is an important indicator and therefore this chapter is devoted to price statistics. Price received by farmers means the farm-gate price. The annual agriculture sample survey collects the price of products sold by farmers and is a good source. However, for livestock products like milk, meat, eggs and so on, farm gate price data are not available as the annual livestock census does not collect this indicator. Another source of price received by farmers is the auction price of commodities available from FCBL. Auction price is however not farm-gate price as farmers have to bear transportation cost from the villages to the border towns.

Prices for locally produced commodities sold at the Farmers' Centennial Market in Thimphu, collected regularly by DAMC, are also presented to give an idea of the retail prices, which are often several times higher than the prices received by farmers. Price of the imported commodities is also presented and gives further insight into the differential prices occurring.

This chapter also presents the price of the various inputs such as seeds, seedling and fertilizers supplied by the National Seed Centre. The prices charged by NSC are at a subsidized rate.



Table 7.1 Average retail price of secondary cereal and pulse products at CFM, Thimphu (2014-2023) (value in Nu.per Kg)

Crop	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
White Rice (local)	71.00	75.02	80.33	89.00	95.00	-	95.00	100.00	100.00	90.00
Red Rice (local)	67.00	72.99	73.39	74.00	83.00	-	90.00	100.00	100.00	110.00
Beaten/Flatten Rice	190.00	230.96	200.00	199.00	150.00	-	25.00	190.00	110.00	200.00
Zaw (roasted rice)	92.25	104.68	95.77	105.00	135.00	-	120	100.00	100.00	200.00
Maize (grinded/kharang)	-	83.00	86.00	88.00	90.00	-	93.00	150.00	150.00	60.00
Beaten/Flatten Maize	170.00	276.07	250.00	244.00	325.00	-	350.00	200.00	200.00	200.00
Wheat Flour (roasted/kapchi)	48.00	52.94	55.50	58.00	70.00	52.87	70.81	75.00	85.00	200.00
Buckwheat Flour (sweet/bitter)	102.00	150.00	150.00	157.00	175.00	127.62	183.00	200.00	200.00	200.00
Rajima Beans (dried)	135.00	128.33	147.00	173.00	180.00	-	180.00	190.00	199.00	

Source: AMISD, DAMC, MoAL

Table 7.2 Average retail price of vegetables at CFM, Thimphu (2014-2023) (Value in Nu. per Kg)

Vegetable	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asparagus	144.00	125.19	146.09	238.00	220.00	122.95	268.00	148.33	120.00	130.00
Bamboo shoot	-	116.00	100.00	125.00	130.00	130.00	130.00	-	100.00	-
Bean (flat type)	74.00	108.68	139.39	122.00	125.00	130.00	151.00	137.14	150.00	120.00
Bean (round type)	-	102.50	135.90	122.00	125.00	130.00	151.00	137.14	100.00	140.00
Bean (long type)	-	76.00	-	-	125.00	130.00	151.00	137.14	-	-
Bitter Gourd	-	98.45	97.61	85.00	90.00	95.36	89.00	77.46	60.00	120.00
Brinjal	-	71.90	75.66	56.00	70.00	70.00	73.00	72.40	35.00	120.00
Broccoli	69.80	78.42	90.20	91.00	85.00	87.00	96.00	101.50	80.00	60.00
Cabbage	30.33	41.90	45.15	40.00	50.00	41.25	44.00	59.14	40.00	100.00
Carrot	66.00	75.70	76.85	81.00	90.00	71.65	77.00	92.28	80.00	100.00
Cauliflower	90.00	122.29	149.46	138.00	120.00	128.15	132.00	136.85	150.00	130.00
Chilli dry (big)	-	177.61	159.14	198.00	725.00	223.63	222.00	143.56	150.00	150.00
Chilli dry (small)	-	205.00	206.25	252.00	190.00	320.11	335.00	169.09	270.00	270.00
Coriander	-	30.00	30.00	30.00	35.00	35.00	30.00	-	40.00	30.00
Cucumber	-	78.46	83.00	72.00	80.00	77.09	85.00	90.14	80.00	140.00
Garlic	213.33	210.00	224.76	185.00	215.00	291.85	259.00	228.91	300.00	200.00
Ginger	184.20	100.97	122.25	121.00	160.00	174.00	94.00	95.36	180.00	120.00
Mushroom (oyster)	-	-	-	118.00	305.00	-	256.00	190.28	120.00	320.00
Mushroom (shiitake)	-	710.90	747.62	674.00	430.00	-	450.00	-	110.00	200.00
Onion	80.00	73.70	67.20	54.00	83.00	74.02	58.00	47.16	50.00	80.00
Peas	65.00	86.07	104.43	100.00	145.00	150.00	116.00	132.08	100.00	120.00
Potato	-	38.78	38.42	36.00	50.00	45.22	43.00	39.51	50.00	60.00
Pumpkin	29.00	36.85	46.20	43.00	63.00	46.22	45.00	39.66	40.00	45.00
Radish	26.25	37.35	40.36	39.00	45.00	35.46	42.00	44.11	50.00	40.00
Spinach (saag)	53.60	59.94	63.72	67.00	40.00	60.00	40.00	80.75	40.00	30.00
Squash	47.50	47.78	57.18	43.00	65.00	65.00	60.00	-	40.00	60.00
Tomato	59.75	86.61	90.11	72.00	90.00	88.14	85.00	68.42	50.00	140.00
Turnip	-	43.21	49.40	93.00	40.00	35.98	40.00	49.22	40.00	50.00

Source: AMISD, DAMC, MoAL for 2013-2021 figures; SYB 2023 for 2022 figures.

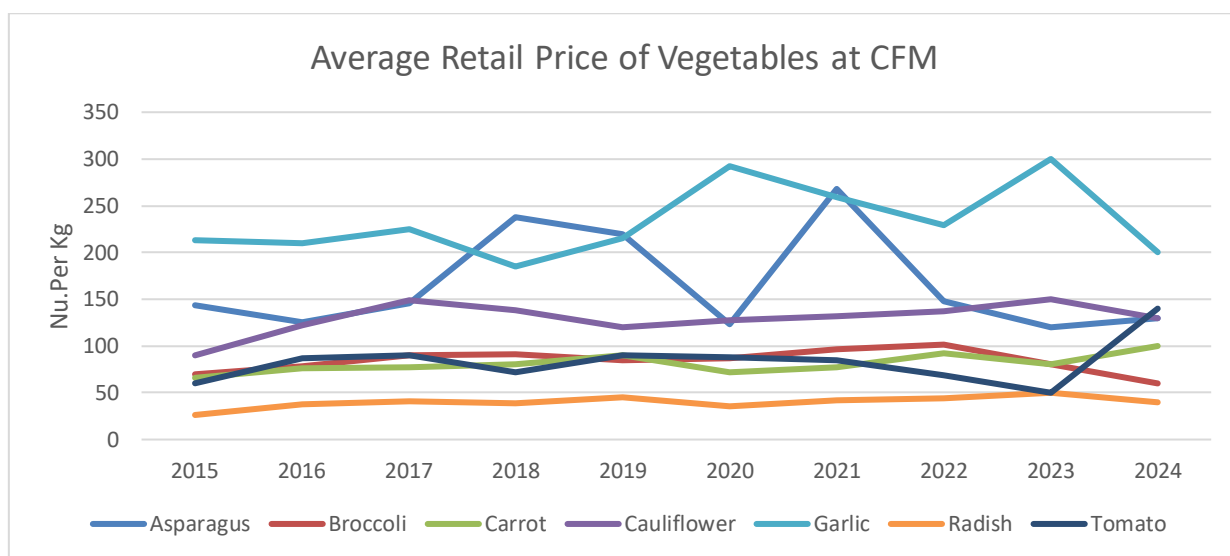


Figure 31: Trends in average retail price of selected vegetables at CFM (2014-2023)

Table 7.3 Average retail price of fruits at CFM, Thimphu (2014-2023) (Value in Nu. per Kg unless specified)

Fruit	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Apple	118.00	150.00	130.00	211.00	150.00	167.00	198.00	176.75	200.00	300.00
Avocado	-	270.83	352.25	333.00	375.00	446.00	515.00	399.12	400.00	400.00
Banana (per dozen)	98.57	75.00	82.39	77.00	80.00	53.00	111.00	109.08	80.00	120.00
Guava	-	74.38	88.24	84.00	140.00	-	110.00	-	60.00	80.00
Lemon	-	118.65	150.00	162.00	145.00	-	-	-	-	400.00
Mango	-	104.28	138.33	142.00	205.00	169.00	219.00	248.28	200.00	150.00
Orange	97.22	106.18	123.79	171.00	170.00	98.00	156.00	178.96	100.00	150.00
Papaya	-	74.55	85.57	97.00	150.00	-	120.00	-	-	-
Passion Fruit	-	178.00	100.00	235.00	200.00	-	-	-	-	-
Pear	-	107.94	137.39	178.00	175.00	-	170.00	-	150.00	250.00
Pineapple (per piece)	78.00	61.30	61.03	66.00	75.00	-	75.00	-	50.00	100.00

Source: AMISD, DAMC, MoAL

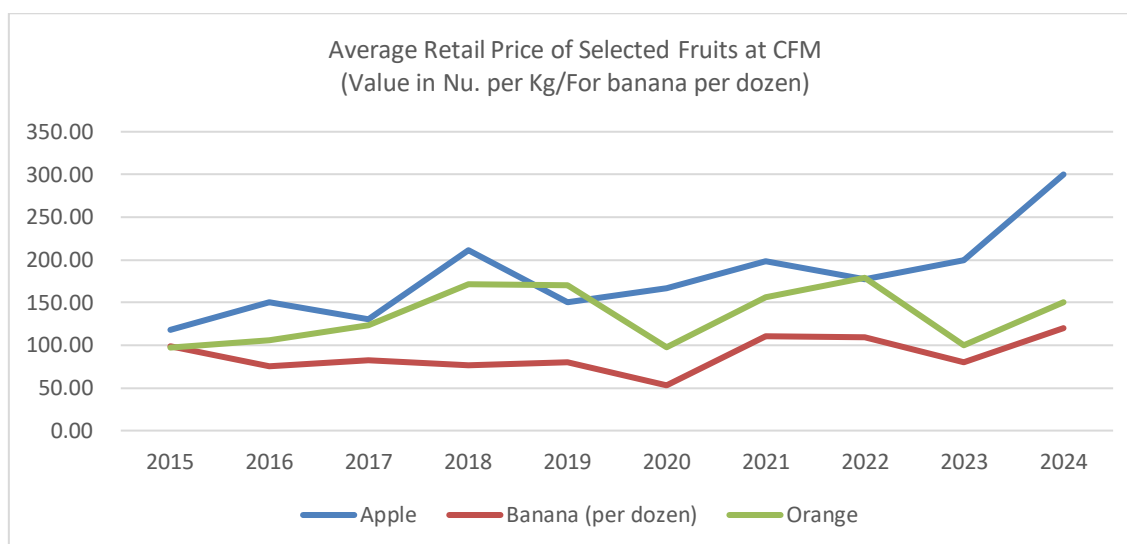


Figure 32: Trends in average retail price of selected fruits at CFM (2015-2024)

Table 7.4 Average retail price of livestock products at CFM, Thimphu (2014-2023) (Value in Nu. per Kg unless specified)

Product	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Butter (per kg)	371.15	372.59	404.29	408.00	440.00	477.00	515.00	600.00	550.00	550.00
Cheese (per Kg)	345.24	385.83	368.13	462.00	510.00	517.00	515.00	550.00	500.00	500.00
Honey (per Litre)	-	-	-	3,492.00	1,000.00	-	-	1,300.00	1,200.00	750.00
Egg (per Dozen)	129.40	112.00	112.00	122.00	128.00	149.00	159.00	130.00	280.00	480.00

Source: AMISD, DAMC, MoAL

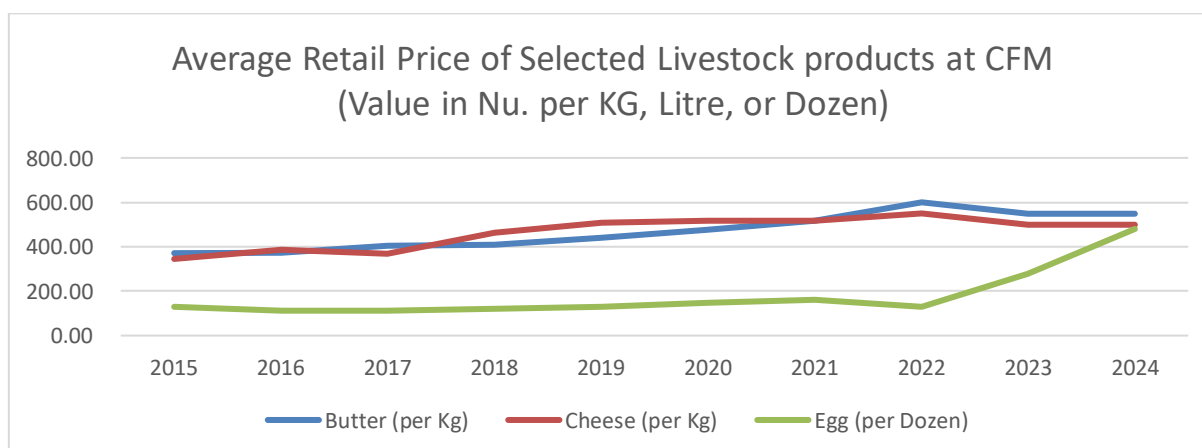


Figure 33: Trends in average retail price of livestock products at CFM (2014-2023)

Table 7.6 Price of cereal and oilseed seeds (2015-2024) (Value in Nu. per unit specified)

Cereal and Oilseed	Unit	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Maize (Y/pa, S/phangma, C/karpa)	10 kg/bag	28.0	30.0	30.0	-	30.0	30.0	30.0	32.0	32.0	37.0
Maize (P3377)	2 kg/pkt	190.0	225.0	290.0	290.0	267.0	267.0	267.0	267.0	267.0	-
Maize (P344)	2 kg /pkt	190.0	190.0	290.0	290.0	-	-	-	-	-	-
Paddy (BRK-1 & 2, BK-1 & 2)	20 kg/bag	35.0	35.0	35.0	35.0	40.0	40.0	40.0	40.0	40.0	40.0
Paddy (Bajo maap-1 & 2)	20 kg/bag	43.0	50.0	50.0	-	50.0	50.0	50.0	50.0	50.0	50.0
Paddy (Bajo kaap-1&2 & IR-64)	20 kg/bag	43.0	50.0	40.0	-	45.0	45.0	45.0	45.0	45.0	45.0
Paddy (No.11, K/Map, YRK-1 & 2 and Yrm-1&2)	20 kg/bag	55.0	60.0	60.0	68.0	71.0	71.0	71.0	71.0	71.0	71.0
Wheat (Duram, Baj & Agreeem)	20 kg/bag	31.0	35.0	35.0	38.0	38.0	45.0	50.0	59.0	59.0	59.0
Dhaincha	20 kg/bag	45.0	60.0	60.0	-	61.0	61.0	61.0	65.0	65.0	65.0
Mustard (M-27) &Yusipeka-1	5 kg /Bag	90.0	90.0	90.0	90.0	90.0	90.0	90.0	113.0	113.0	113.0
Soya bean (Lebi-1)	10 kg/bag	62.0	85.0	85.0	-	86.0	86.0	86.0	86.0	86.0	142.0

source: NSC, DoA, MoAL

Table 7.7 Price of vegetable seeds (2014-2023) (Value in Nu. per unit specified)

Vegetable seed	Unit	2020	2021	2022	2023	2024
Beans (Top crop/borlotto)	50 gm/pkt	14	18	13	13	13
Beetroot (DDR)	10 gm/pkt	15	15	15	15	15
Bitter Gourd (Hybrid)	10 gm/pkt	32	32	32	32	32
Bottle Gourd (Hybrid)	10 gm/pkt	32	32	32	32	32
Brinjal (PP Long)	10 gm/pkt	15	15	15	15	15
Broccoli (Centauro)	10 gm/pkt	255	255	280	280	326
Broccoli (Dessico - OP)	10 gm/pkt	13	13	13	13	18
Bunching Onion (No-21)	10 gm/pkt	25	25	25	25	30
Cabbage (Hybrid)	10 gm/pkt	156	-	186	186	214
Cabbage (Golden Acre)	10 gm/pkt	41	-	33	33	33
Carrot (ASC - Hybrid)	50 gm/tin	-	-	563	563	632
Carrot (N. Kuroda)	10 gm/pkt	22	22	22	22	29
Cauliflower (Hybrid)	10 gm/pkt	202	-	222	222	256
Cauliflower (K.early/K.late)	10 gm/pkt	19	-	15	15	19
Chilli SHP 4884	7.5 g/pkt	-	-	-	-	336
Chilli Sitara gold	7.5 g/pkt	-	-	-	-	481
Chilli-IR-8 (Indian)	10 gm/pkt	13	13	13	13	13
Chilli (Sha ema))	10 gm/pkt	20	20	20	20	20
Chinese Cabbage	10 gm/pkt	13	13	13	13	13
Coriander (Local)	10 gm/pkt	15	15	15	15	15
Cucumber (Frontier)	10 gm/pkt	100	100	100	100	100
Cucumber (S. Genchu)	10 gm/pkt	23	23	23	23	23
Cucumber (santon No 1)	10 gm/pkt	29	29	29	29	29
Garlic (Local)	10 gm/pkt	195	195	195	195	-
Ginger (Local)	10 gm/pkt	96	96	96	96	-
Japanese Green (Mibu-)	10 gm/pkt	15	15	15	15	20
Japanese Green (Taisai)	10 gm/pkt	15	15	15	15	20

Ladies Finger (PS)	10 gm/pkt	18	18	18	18	18
Lettuce (Great Lake)	5 gm/pkt	29	29	29	29	29
Sag (Him Beauty)	10 gm/pkt	15	-	-	-	-
Onion (OP/ B-Red)	10 gm/pkt	22	22	22	22	22
Onion (Pune Red)	10 gm/pkt	25	25	25	25	25
Peas (Mr. Rig). Hybrid	50 gm/pkt	13	13	13	13	13
Peas (Usui/Arkel)	50 gm/pkt	13	13	13	13	13
Beans (Pole bean white)	50 gm/pkt	18	18	18	18	18
Pumpkin (T-Kabuta)	10 gm/pkt	15	15	15	15	15
Radish (Ivory white)	10 gm/pkt	11	-	-	-	
Radish (Minowase)	10 gm/pkt	13	13	13	13	13
Radish (Toki-shi)	10 gm/pkt	11	20	20	20	25
Spinach All (Green/Beet)	10 gm/pkt	20	13	13	13	13
Squaush (Zucchini)	10 gm/pkt	13	15	15	15	15
Tomato (PS-61)	5 gm/pkt	122	122	122	122	122
Tomato (Ratan/Roma)	5 gm/pkt	18	18	18	18	18
Turnip (PTWG)	10 gm/pkt	13	13	13	13	13
Water melon (Sugar Baby)	10 gm/pkt	22	22	22	22	-
Water melon (Hybrid)	10 gm/pkt	-	-	192	192	-
Water melon (Kabuki)	10 gm/pkt	-	-	-	-	81
Water melon (Black ball)	10 gm/pkt	-	-	-	-	93
Potato Red (Desiree)	50 kg/bag	28	32	31	28	28
Potato White varieties	150 kg/bag	26	26	28	26	28

Source: NSC, DoA, MoAL

Table 7.8 Price of temperate fruit seedlings (2014-2023) (Value in Nu. per unit specified)

Cereal and Oilseed	Unit	2020	2021	2022	2023	2024
Almond (Kagzi)	Seedling	100	100	100	100	130
Apple (All varieties)	Seedling	90	90	90	90	110
Apricot (Shakharpara)	Seedling	100	100	100	100	120
Asparagus seedlings (MW)	Seedling	4	4	4	4	5
Cherry (Seneka/Jabouny)	Seedling	90	90	90	90	130
Chestnut (Jeuphu-1)	Seedling	60	60	60	60	60
Peach (N-wase/S-Hakuto)	Seedling	100	100	100	100	120
Pear (Hosui/Kosui/ Chujoro/William)	Seedling	96	96	96	96	115
Persimmon (Fuyu/Jiro)	Seedling	125	125	125	125	145
Plum (Santarosa/Stanley)	Seedling	100	100	100	100	120
Strawberry (Chandler)	Seedling	9	9	9	9	20
Walnut (Grafted-Kagzi)	Seedling	205	205	205	205	315
Pecan Nut	seedling	-	-	-	-	145

Source: NSC, DoA, MoAL

Table 7.9 Price of sub-tropical fruit seedlings (2014-2023) (Value in Nu. per unit specified)

Cereal and Oilseed	Unit	2020	2021	2022	2023	2023	2024
Areca nut (Bhur S-1)	Seedling	55	55	55	55	55	89
Avocado grafted	Seedling	150	-	150	150	150	150
Avacado seedlings	Seedling	-	-	-	-	-	232
Banana (Chini-Champa/Jahaji)	Seedling	50	50	50	50	50	50
Cardamom (seedling multiplied)	Secker	10	10	9	9	9	-
Cardamom (through seeds)	Seedling	10	9	9	9	9	10
Mandarin Orange (grafted)	Seedling	-	-	-	-	-	145
Mandarin Orange (seedlings)	Seedling	50	50	50	50	50	60
Gauva (L-49)	Seedling	45	45	45	45	45	50
Jack fruit (Bhur S-1)	Seedling	21	21	21	21	21	35
Litchi (E-Beda-/Shahi)	Seedling	75	75	75	75	75	75
Mango graft (Langra/DS/AP/CH)	Seedling	85	85	85	85	85	115
Papaya	Seedling	23	23	23	23	23	40
Passion fruit (local)	Seedling	20	20	20	20	20	30
Pine apple (Sugar baby)	Seedling	25	25	24	24	24	35
Pomegranate (Bedana)	Seedling	50	50	46	46	46	49
Macadamia seedling	Seedling	-	-	-	-	-	180

Source: NSC, DoA, MoAL

Table 7.10 Price of fertilizers (2013-2022) (Value in Nu. per unit specified)

Fertilizer	Unit	2020	2021	2022	2023	2024
Urea (46 % N)	45 Kg pack	885	885	1,524	1,524	1,524
Urea (46% N)	10 Kg pack	218	218	352	352	352
Suphala (NPK 15:15:15/18:11:13)	50 Kg pack	1,876	1,876	3,016	3,016	3,016
Suphala (NPK 15:15:15/18:11:13)	20 Kg pack	775	775	-	-	-
Suphala (NPK 15:15:15)	10 Kg pack	-	-	-	-	-
SSP (16% P2O)	50 Kg pack	977	977	1,740	1,740	1,740
Bone Meal	50 Kg pack	2,065	2,065	-	-	-
MOP (60% K2O)	50 Kg pack	2,132	2,132	2,132	-	3,335
Borax (20% Boron minimum)	5 Kg pack	938	938	938	-	1090
DAP (18%N 46%P2O)	50 Kg pack	-	2,405	-	-	-
CAN	50 Kg pack	-	-	-	-	-

Source: NSC, DoA, MoAL

CHAPTER 8: METEOROLOGY STATISTICS

For agriculture, water is one of the most important natural resources. The main source of water is rainfall which keeps the rivers flowing, lakes filled, and mountains peaks snow-covered or directly supplies moisture to the crops.

This chapter presents data on total and monthly precipitation (in millimeters) at 20 weather stations which are set up and managed by National Centre for Hydrology and Meteorology (NCHM) across the country. The chapter also presents data on temperature and other meteorological items of agricultural significance.

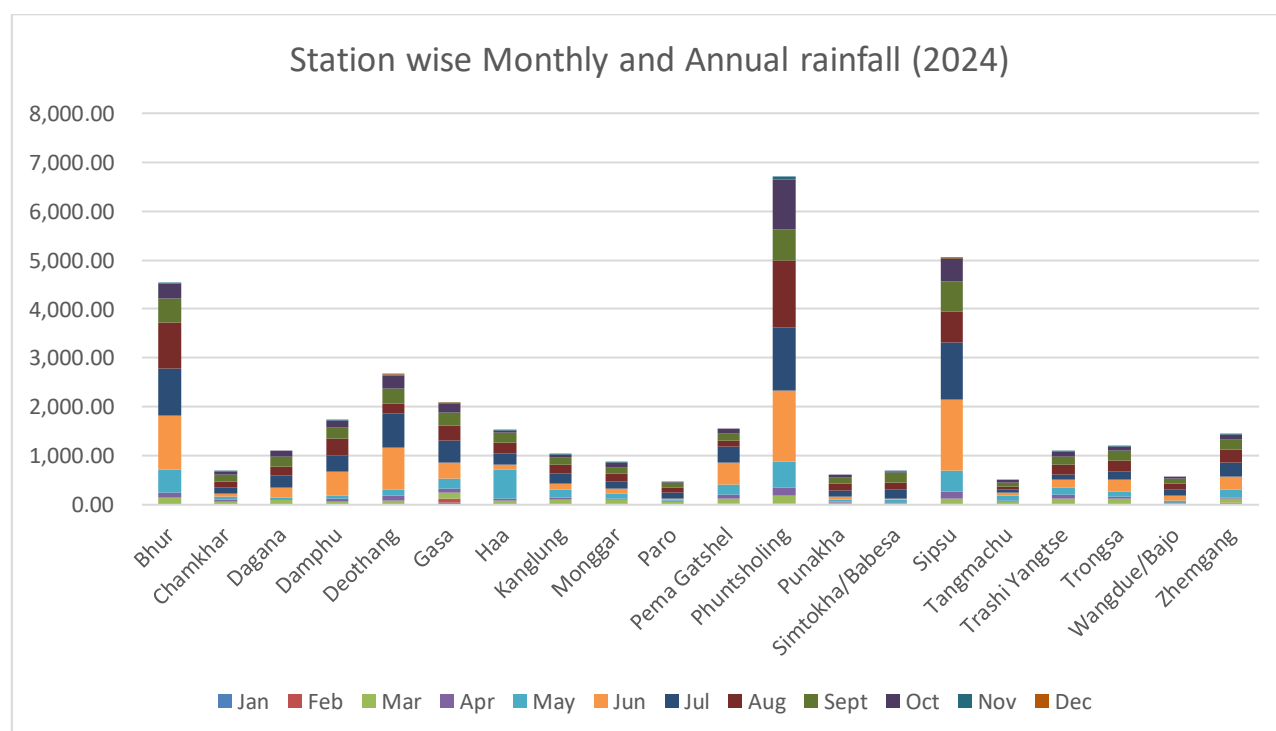


Figure 34: Station-wise Monthly and Annual Rainfalls (2023) (in mm)

Table 8.1 (1) Station-wise Monthly and Annual Rainfalls during 2024 (figure in mm)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual
Bhur	0.00	6.40	136.10	105.00	462.10	1,120.00	945.90	944.10	487.50	320.30	12.40	0.00	4,539.80
Chamkhar	0.20	7.90	56.80	31.80	65.40	70.10	114.50	124.50	154.50	47.10	0.50	0.00	673.30
Dagana	0.4	11	83.4	8.8	40	201.2	257.2	184.2	199.6	117.6	0	0	1103.40
Damphu	0.00	10.00	45.70	73.20	66.80	490.20	312.00	351.80	223.20	144.20	2.20	0.00	1,719.30
Deothang	0	0	76.4	116.7	126.3	853.6	689.5	203	314.5	264.5	10.2	2.2	2,656.90
Gasa	46.6	72.6	121.4	97.3	190.8	339.4	444.2	297.9	276.8	182.2	7.2	3.4	2,079.80
Haa	1	4.6	85.2	43	578.5	101	228.2	220.8	213.7	33.6	1.1	0	1,510.70
Kanglung	0.6	13.8	95.2	46.4	152.7	121.4	211.4	177.5	153.6	45.2	1	0	1,018.80
Monggar	9	9.2	84.6	16.2	99.4	107.6	153.6	148.8	120.8	113.6	1.2	0	864.00
Paro	0	2	60	16.4	19.4	35.3	107.6	105.5	99.3	15.8	0	0	461.30
Pema Gatshel	0	19.4	115.4	67.8	207.4	454.9	321.4	132.6	136.8	104.6	0	0	1,560.30
Phuntsholing	0	15.2	162.4	171.1	524.1	1464	1282.7	1371.2	640.5	1023.1	59.3	0	6,713.60
Punakha	0	6.7	40.3	9.8	50.2	52.2	133.3	136.8	132	61.1	0	0	622.40
Simtokha/Babesa	0.1	1.8	34.3	13.4	50.3	32.8	179.1	135.6	210	24	0.8	0	682.20
Sipsu	7.8	7.8	117.4	137.2	437.4	1438.4	1160.6	645.2	607.1	465.2	10.2	6.6	5,040.90
Tangmachu	3.2	6.2	56.8	26.2	92.8	69.4	45.2	79.2	75.8	58.4	0	0	513.20
Trashhi Yangtse	3.4	18.1	94.1	90.3	144	154.3	106.1	209.3	172.2	91.3	2.1	0	1,085.20
Trongsa	2.9	27.3	94.6	50.3	91.8	248.9	154.7	241	198.9	74.3	1.1	0	1,185.80
Wangdue/Bajo	0	4.6	40	6.8	30.3	100.8	118.5	124.4	110.2	39.3	0	0	574.90
Zhemgang	16.2	22.3	86	18.2	165.5	270.2	288.5	269	197.5	106.5	1.5	0	1,441.40

Source: NCHM

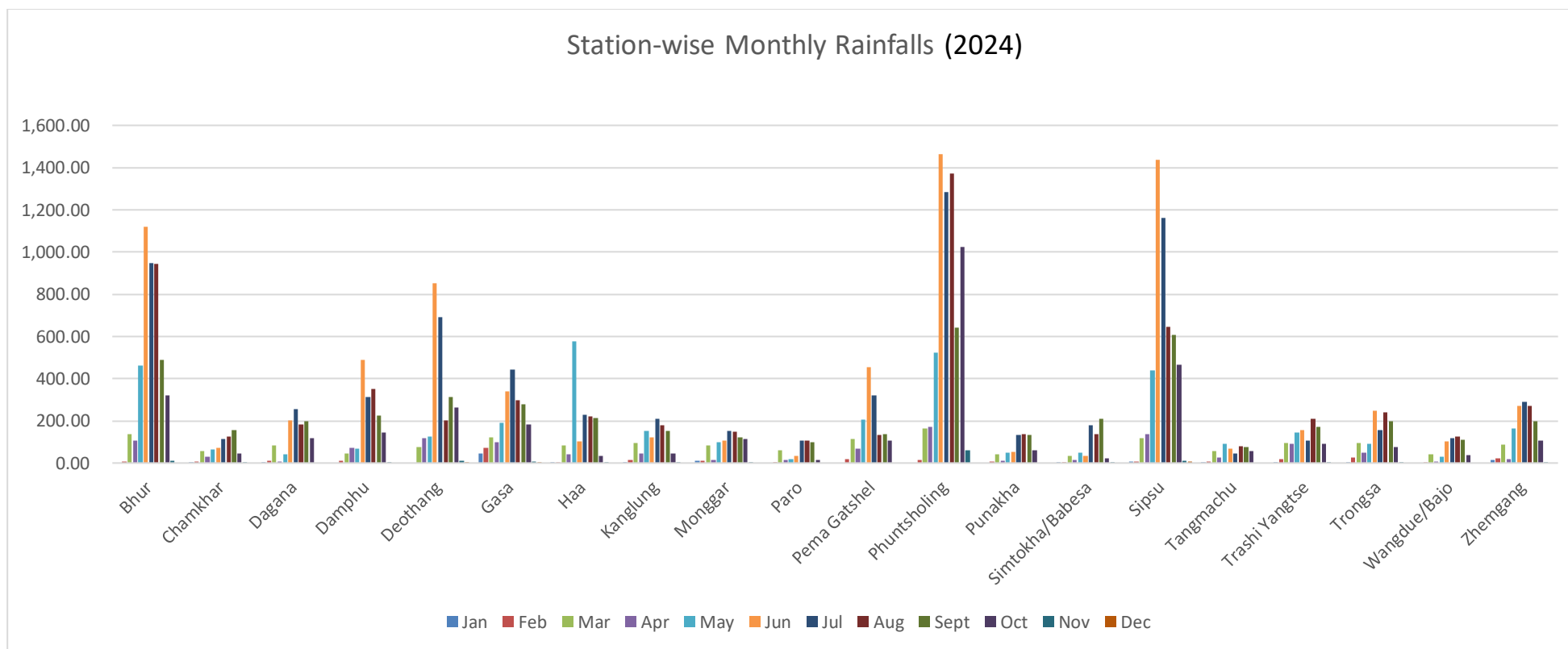


Figure 35: Station-wise Monthly Rainfalls during 2024 (in mm)

Table 8.1 (2) Station-wise Annual Rainfall 2015-2024 (figure in mm)

Station	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bhur	5,260.40	5,374.10	5,930.30	5,571.70	5,070.20	6,759.40	5,024.80	5,326.30	5,376.20	4539.80
Chamkhar	705.50	740.10	837.80	531.20	618.70	652.80	670.70	562.40	618.00	673.50
Dagana	1,395.10	1,304.80	1,147.50	833.70	985.90	1,316.70	884.00	992.80	1,059.70	1103.40
Damphu	1,652.20	1,894.70	1,395.80	1,130.70	1,253.00	1,907.00	1,301.50	1,070.70	1,399.70	1719.30
Deothang	3,839.90	3,639.80	3,581.70	3,277.40	4,489.80	4,824.60	2,783.50	4,942.70	3,073.30	2656.90
Gasa	2,590.20	1,940.00	2,428.40	2,361.40	1,980.90	2,508.30	2,455.40	2,244.80	2,239.10	2079.80
Haa	1,042.90	976.80	858.40	726.20	796.30	974.80	980.40	794.40	766.90	1510.70
Kanglung	1,062.40	1,043.60	1,115.60	834.00	1,219.10	1,348.40	1,055.30	1,165.90	1,053.20	1018.80
Monggar	874.70	987.20	1,024.80	672.14	1,065.20	1,039.90	834.40	768.60	695.30	864.00
Paro	646.40	695.50	386.80	313.00	423.00	472.70	550.90	403.10	376.60	461.30
Pema Gatshel	1,692.30	1,659.00	1,649.60	1,136.20	1,790.30	2,347.60	1,497.10	2,031.00	1,569.60	1560.30
Phuntsholing	1,852.30	3,226.50	4,979.40	6,145.70	5,463.60	3,986.90	3,222.70	8,255.80	6,549.10	6713.60
Punakha	836.50	624.20	786.40	758.50	575.90	553.10	798.60	688.80	522.30	622.40
Simtokha/Babesa	563.00	711.90	606.70	394.10	462.10	490.10	575.10	535.80	464.70	682.20
Sipsu	5,585.50	5,137.80	5,968.40	4,912.70	5,266.55	6,324.20	5,991.30	5,064.30	4,448.20	5040.90
Tangmachu	775.50	713.10	943.50	586.40	801.80	776.80	-	644.50	658.90	513.20
Trashie Yangtse	1,261.90	1,246.50	1,240.10	1,134.50	920.99	1,117.80	1,145.90	1,081.40	1,032.50	1085.20
Trongsa	1,457.90	1,368.00	1,567.20	1,193.10	1,316.60	1,481.80	1,225.60	1,216.70	1,159.70	1185.80
Wangdue	774.60	626.60	569.60	460.60	494.10	643.00	771.80	432.70	448.60	574.90
Zhemgang	1,555.40	1,567.00	1,358.80	1,024.10	1,451.80	1,494.20	1,343.90	1,368.40	1,147.40	1441.40

Source: NCHM

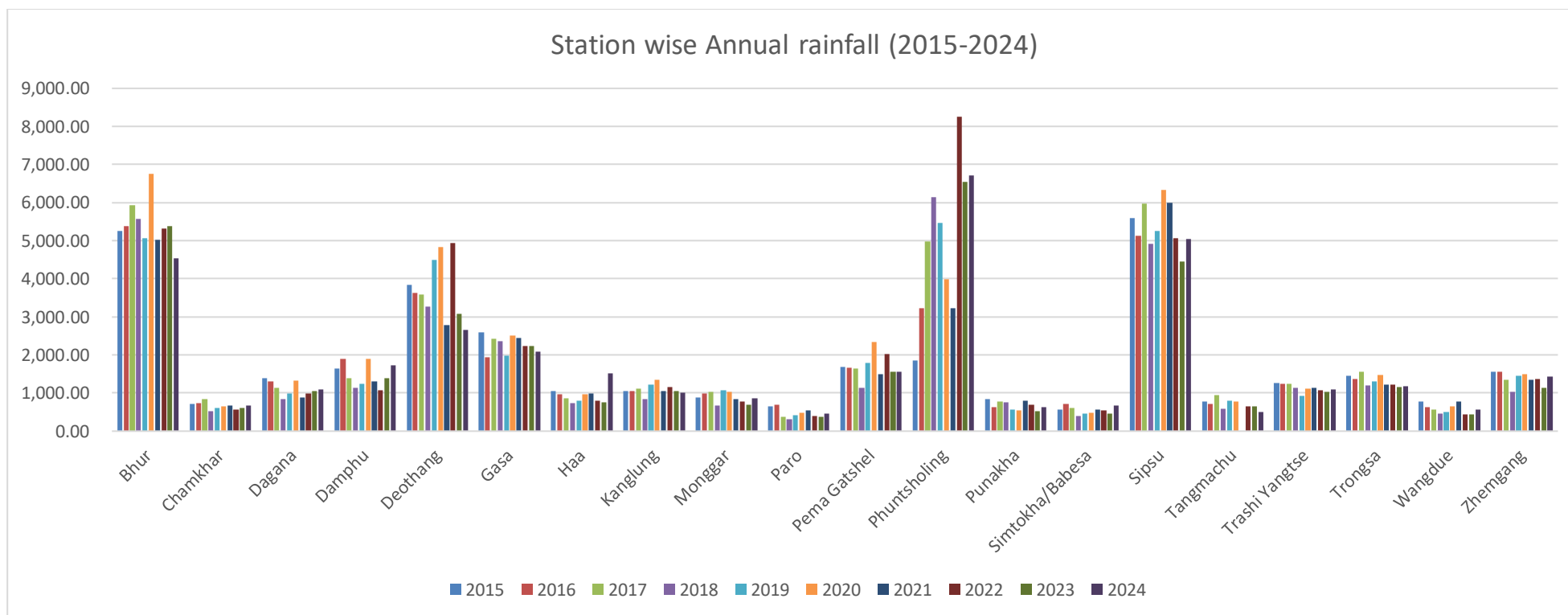


Figure 36: Station-wise Annual Rainfall 2015-2024 (in mm)

Table 8.2 (1) Station-wise Monthly and Annual Average of Temperature (max.) during 2024 (figure in °C)

Station	Jan	Feb	March	April	May	June	July	August	September	oct	Nov	Dec	Average
Bhur	23.9	24.2	28.1	31.5	32.1	30.9	32.2	32.2	34.1	29.4	29.7	25.8	29.49
Chamkhar	11.1	11.7	15.0	18.6	19.8	21.1	24.0	24.2	24.3	20.6	17.3	15.0	18.54
Dagana	19.7	18.4	22.0	25.5	26.7	25.0	25.8	26.3	27.1	24.1	23.7	22.0	23.85
Damphu	15.2	15.7	18.5	22.5	24.1	23.8	24.6	24.8	25.6	22.1	20.3	17.4	21.22
Deothang	21.23	22.21	21.77	24.73	25.27	25.07	30.74	29.48	29.42	27.02	25.80	20.79	25.29
Gasa	9.8	9.4	13	18.1	19.7	19.6	22.7	22.3	22.1	18.9	15.2	12.4	16.93
Haa	9.7	10.0	12.9	17.5	18.7	19.8	21.8	20.8	19.6	17.5	13.7	12.8	16.22
Kanglung	17.0	16.6	20.3	23.5	24.8	25.7	27.7	26.6	27.3	24.3	23.8	19.7	23.11
Monggar	16.19	18.36	20.23	22.87	24.19	25.20	25.60	24.68	27.10	23.74	21.78	17.66	22.30
Paro	12.4	13.5	17.6	21.3	22.2	24.1	26.0	25.0	24.3	21.3	17.6	15.5	20.07
Pema Gatshel	18.4	17.7	21.0	25.5	26.5	25.8	26.9	26.4	28.7	24.5	23.9	20.0	23.77
Phuntsholing	25.3	25.2	29.1	32.5	32.7	30.8	30.9	31.9	34.0	30.7	30.1	27.8	30.08
Punakha	23.9	22.7	27.3	31.6	33.3	32.8	33.3	33.6	33.6	30.4	28.8	26.0	29.75
Simtokha/Babesa	13.3	13.8	17.3	21.3	22.4	24.4	26.2	25.5	25	22	18.6	16.5	20.53
Sispu	22.5	23.5	27.2	30.7	30.3	29.2	29.7	30.6	31.8	29.2	28.7	25.5	28.24
Tangmachu	19.7	19.3	23	25.9	28.5	29.2	31	31	31.4	28.1	27	22.9	26.42
Trashhi Yangtse	16.4	16.6	21.3	23.3	24.8	25.4	27.4	26.8	27.6	22.6	20.6	17.4	22.50
Trongsa	13.8	13.1	17.0	20.4	21.8	22.2	23.6	23.7	24.1	20.5	18.7	16.1	19.57
Wangdue	20.1	20.7	24.7	28.8	30.0	29.7	30.5	30.7	30.8	27.5	25.4	21.8	26.72
Zhemgang	14.4	14.0	17.7	22.5	24.0	24.2	25.2	25.4	25.9	21.7	19.5	15.8	20.85

Source: NCHM

Table 8.2 (2) Station-wise Monthly and Annual Average of Temperature (min.) during 2023 (figure in °C)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	AVERAGE
Bhur	11.39	13.07	16.52	20.68	21.97	23.38	24.40	24.40	24.17	21.32	17.43	14.35	19.42
Chamkhar	(1.58)	0.33	4.39	7.53	9.92	14.63	16.69	14.76	14.33	11.26	4.93	(0.89)	8.03
Dagana	5.84	6.83	10.89	14.05	16.84	18.97	19.74	19.15	18.72	16.06	10.83	7.19	13.76
Damphu	4.81	6.52	9.94	13.32	16.66	19.37	20.10	19.52	18.93	16.50	9.92	6.29	13.49
Deothang	10.42	13.09	15.52	17.35	18.37	20.97	22.94	21.87	22.17	20.05	15.95	12.32	17.58
Gasa	(2.80)	(1.90)	1.80	5.00	7.70	11.90	13.20	11.80	22.10	8.00	2.40	(2.00)	6.43
Haa	(5.06)	(3.67)	0.06	3.68	7.58	13.65	14.63	12.19	11.67	7.48	(0.37)	(5.74)	4.68
Kanglung	3.58	3.90	7.40	11.17	13.35	16.28	17.21	16.63	16.08	13.05	8.53	4.61	10.98
Monggar	6.26	7.12	10.90	14.35	16.42	18.67	19.61	19.13	18.75	15.73	10.88	7.08	13.74
Paro	(3.61)	(2.52)	2.06	5.60	9.92	13.68	15.39	14.16	13.22	9.69	3.40	(3.81)	6.43
Pema Gatshel	5.40	6.31	10.53	13.78	16.10	18.62	19.68	19.48	18.97	16.52	10.62	6.48	13.54
Phuntsholing	9.77	10.66	14.87	19.00	20.34	21.27	22.53	23.53	23.57	20.15	18.40	14.26	18.20
Punakha	8.39	9.79	14.05	17.48	20.39	22.87	23.74	22.63	21.78	19.48	14.33	8.24	16.93
Simtokha/Babesa	(2.60)	(1.20)	3.50	6.60	10.40	15.10	16.00	14.30	13.80	10.00	4.10	(2.90)	7.26
Sipsu	10.97	11.66	15.98	19.92	20.94	21.70	22.50	22.76	22.37	19.82	16.55	13.61	18.23
Tangmachu	7.8	9	12.9	15.5	17.2	20.2	21.3	20.8	19.8	17.7	12.7	7.8	15.23
Trashhi Yangtse	1.53	3.09	7.55	9.37	11.90	16.78	18.10	16.29	15.78	13.39	6.87	1.21	10.16
Trongsa	2.06	4.00	8.23	9.23	12.02	15.93	16.94	15.53	15.07	12.53	6.73	2.58	10.07
Wangdue	4.98	6.81	10.19	14.73	18.45	22.02	21.85	20.74	20.27	18.03	11.50	6.35	14.66
Zhemgang	2.34	3.59	7.84	11.38	13.89	16.68	17.44	16.71	16.28	13.77	7.73	4.06	10.98

Source: NCHM

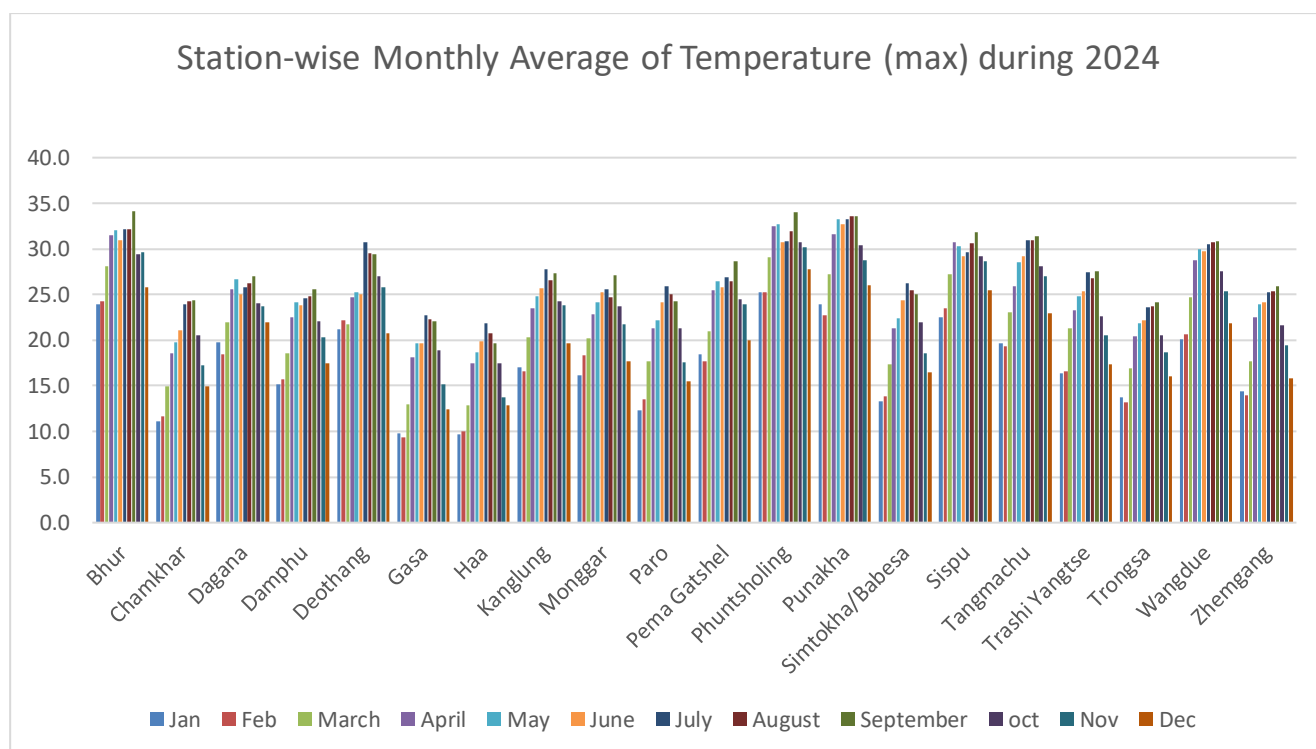


Figure 37: Station-wise Monthly Average of Temperature (max.) during 2024 (in °C)

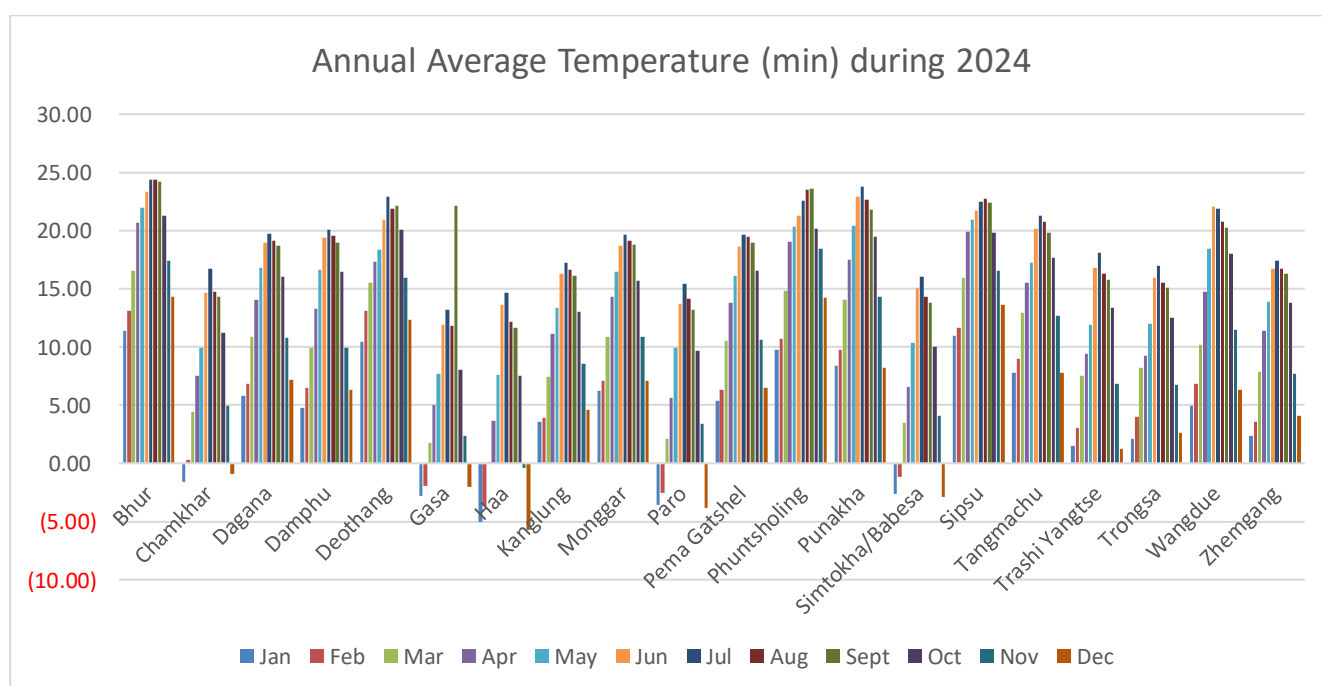


Figure 38: Station-wise Monthly Average of Temperature (min.) during 2024 (in °C)

Table 8.2 (3) Station-wise Annual Average of Temperature (max.) (2015-2024) (figure in °C)

Station	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bhur	24.03	25.98	25.96	25.19	24.17	27.25	27.93	27.97	29.65	29.49
Chamkhar	18.15	18.32	18.29	18.03	17.91	17.59	18.21	17.88	17.84	18.54
Dagana	18.29	18.7	21.59	23.03	22.67	22.4	22.97	23.35	23.90	23.85
Damphu	19.35	21.24	21.07	20.74	20.55	20.18	20.58	20.98	21.25	21.22
Deothang	26.92	27.66	27.62	27.28	27.54	23.88	24.95	24.38	25.29	25.29
Gasa	14.39	15.69	15.72	14.44	14.52	14.31	14.96	15	16.28	16.93
Haa	15.64	16.09	15.91	15.27	15.26	14.91	15.02	15.61	16.45	16.22
Kanglung	24.88	25.26	24.22	23.96	22.3	21.1	21.47	21.09	22.40	23.11
Monggar	23.16	22.7	22.6	22.39	21.91	21.41	22.45	22.12	22.30	22.30
Paro	19.31	19.78	20.18	19.78	19.64	18.98	19.52	20.8	20.46	20.07
Pema Gatshel	21.34	21.92	22.04	21.99	21.79	21.45	22.92	22.83	23.71	23.77
Phuntsholing	30.36	30.39	28.93	28.89	28.84	27.77	28.02	29.01	29.89	30.08
Punakha	29.42	29.38	28.79	28.25	26.75	28.3	28.85	29.09	29.28	29.75
Simtokha/Babesa	22.26	22.89	22.83	22.71	20.42	19.52	20.09	20.59	20.94	20.53
Sipsu	28.10	28.66	29.13	28.05	27.87	27.15	27.88	27.73	28.76	28.24
Tangmachu	27.13	27.79	27.83	28.63	27.53	26.58	-	26.42	25.85	26.42
Trashie Yangtse	21.79	22.35	22.13	21.13	22.17	19.55	22.63	22.58	22.17	22.5
Trongsa	18.94	19.52	19.33	19.04	19.38	18.99	19.7	19.7	19.33	19.57
Wangdue	20.11	20.7	20.56	20.46	26.01	25.11	25.65	25.94	26.91	26.72
Zhemgang	27.12	27.4	26.89	27.3	20.06	19.96	20.12	20.13	20.89	20.85

Source: NCHM

Table 8.2 (6) Station-wise Annual Average of Temperature (min.) (2015-2024) (figure in °C)

Station	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bhur	14.86	16.60	16.71	16.29	16.68	-	21.12	21.66	20.92	19.42
Chamkhar	6.61	6.95	6.77	6.15	6.56	6.67	7.16	6.87	7.05	8.03
Dagana	8.83	9.27	10.40	10.63	12.46	13.23	13.71	13.58	13.71	13.76
Damphu	13.31	13.67	13.61	13.04	13.19	-	13.47	13.37	13.00	13.49
Deothang	20.99	21.58	20.60	20.47	20.64	16.48	17.20	16.63	17.58	17.58
Gasa	2.21	5.05	5.00	4.62	4.67	4.48	4.94	4.74	4.99	6.43
Haa	3.50	4.78	4.57	4.30	4.52	4.58	4.94	4.56	4.28	4.68
Kanglung	10.12	10.45	10.27	9.91	10.38	10.35	10.65	10.71	10.85	10.98
Monggar	12.68	13.50	13.47	12.99	13.13	13.22	13.55	13.50	13.76	13.74
Paro	6.16	6.61	6.11	5.78	6.23	6.37	7.08	6.10	5.92	6.43
Pema Gatshel	12.85	13.18	13.11	12.54	12.50	12.49	13.16	12.99	13.30	13.54
Phuntsholing	17.94	20.76	19.34	17.07	16.92	16.28	16.07	17.19	17.34	18.20
Punakha	15.42	15.51	15.25	15.00	16.39	15.94	16.61	16.47	16.48	16.93
Simtokha	7.39	7.42	6.98	6.07	6.42	6.27	6.76	6.78	6.39	7.26
Sipsu	18.29	18.76	18.46	17.93	17.94	17.90	18.30	18.05	18.19	18.23
Tangmachu	13.56	14.00	13.99	13.23	13.64	13.81	-	15.16	15.68	15.23
Trashigang	9.23	9.68	9.58	9.44	9.52	5.55	10.21	9.77	9.71	10.16
Trongsa	9.45	9.65	9.21	9.14	9.26	-	9.50	9.57	9.35	10.07
Wangdue	11.41	11.97	11.61	10.82	14.98	15.62	16.15	15.68	14.42	14.66
Zhemgang	13.38	13.86	14.09	14.05	10.77	10.70	10.93	10.94	10.75	10.98

Source: NCHM

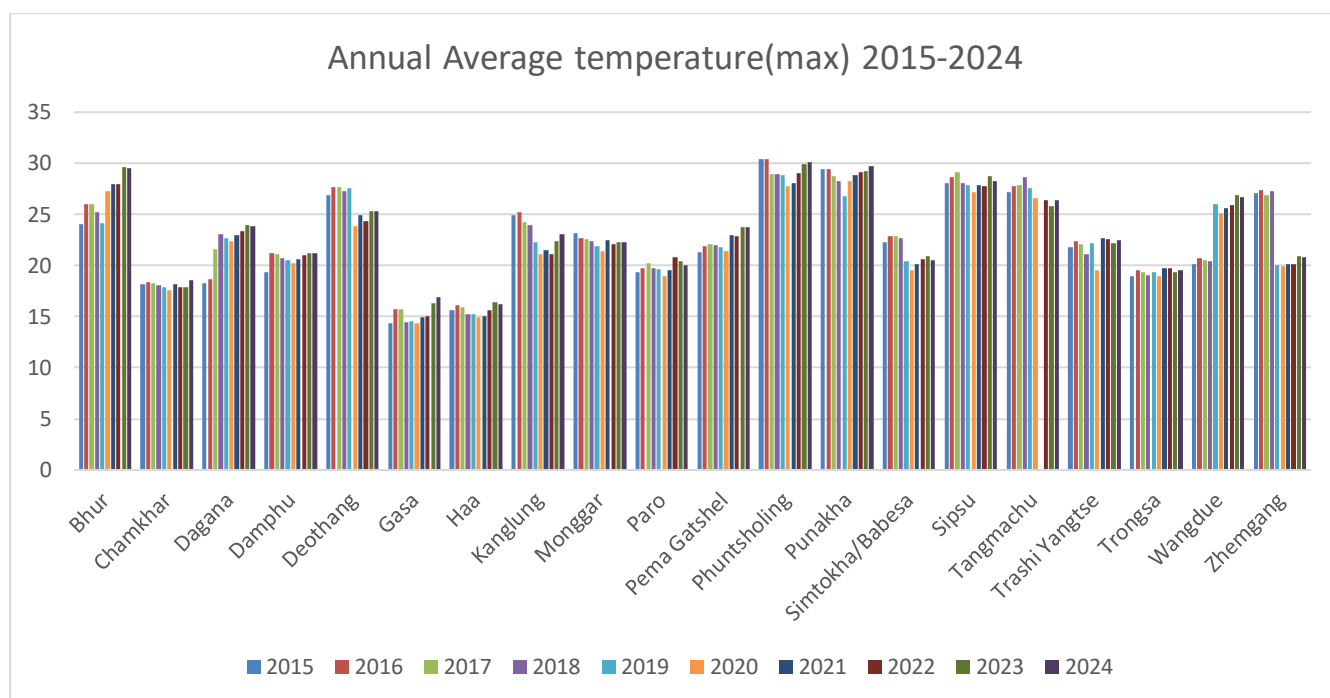


Figure 39: Station-wise Annual Average of Temperature (max.) (2015-2023) (figure in °C)

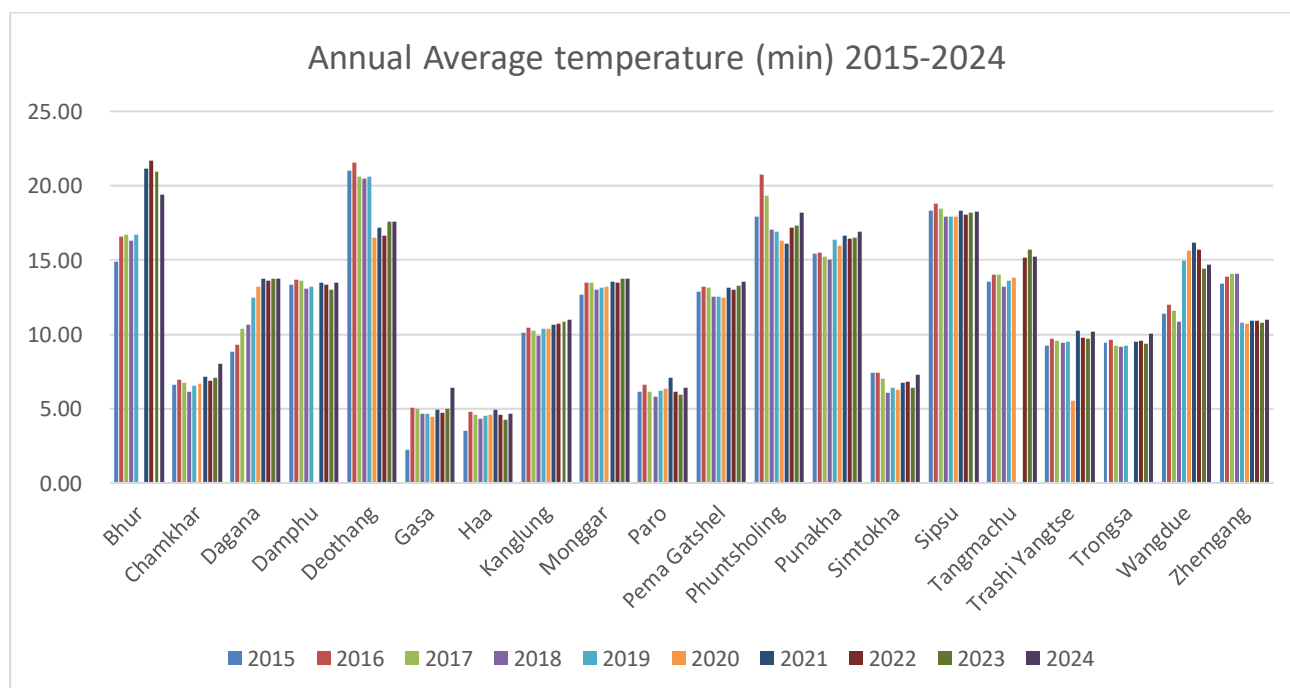


Figure 40: Station-wise Annual Average of Temperature (min.) (2015-2023) (figure in °C)

Table 8.3 (1) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Bhur	Total Rainfall (mm)		0	6.4	136.1	105	462.1	1120	945.9	944.1	487.5	320.3	12.4	0
	Average of Temperature (°C)	max.	23.9	24.2	28.1	31.5	32.1	30.9	32.2	32.2	34.1	29.4	29.7	25.8
		min.	11.4	13.1	16.5	20.7	22.0	23.4	24.4	24.4	24.2	21.3	17.4	14.4
	Average of RH (%)		71	67	71	73	77	92	89	89	80	85	69	61
	Average of Evap. Amount (mm)		2.1	2.1	2.5	3.1	3.7	3.2	5.5	5.5	8.2	6.9	4.7	6.5
	Average of Sunshine (hours)		6.9	3.6	3.8	4.6	4.7	1.5	2.6	2.6	5.7	3.6	8.5	8.3
Chamkhar	Total Rainfall (mm)		0.2	7.9	56.8	31.8	65.4	70.1	114.5	124.7	154.5	47.1	0.5	0
	Average of Temperature (°C)	max.	11.1	11.7	15.0	18.6	19.8	21.1	24.0	24.2	24.3	20.6	17.3	15.0
		min.	-1.6	0.3	4.4	7.5	9.9	14.6	16.7	14.8	14.3	11.3	4.9	-0.9
	Average of RH (%)		72	68	66	64	66	77	76	74	75	74	70	74
	Average of Evap. Amount (mm)		1.9	2.5	3.2	3.8	3.7	2.9	3.8	3.5	3.5	3.0	2.8	2.2
	Average of Sunshine (hours)		5.3	5.8	5.7	6.9	4.9	2.5	4.2	4.8	4.5	4.6	6.6	6.7
Dagana	Total Rainfall (mm)		0.4	11	83.4	8.8	40	201.2	257.2	184.2	199.6	117.6	0	0
	Average of Temperature (°C)	max.	19.7	18.4	22.0	25.5	26.7	25.0	25.8	26.3	27.1	24.1	23.7	22.0
		min.	5.8	6.8	10.9	14.1	16.8	19.0	19.7	19.2	18.7	16.1	10.8	7.2
	Average of RH (%)		50	60	60	56	67	89	87	82	77	81	57	54
	Average of Evap. Amount (mm)		2.2	2.1	2.5	3.0	3.1	2.0	2.4	2.9	3.0	2.5	2.2	2.3
	Average of Sunshine (hours)		6.4	4.5	4.7	5.2	4.9	2.3	3.2	4.9	5.1	4.3	7.0	7.4

Source: NCHM

Table 8.3 (2) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Dampchu	Total Rainfall (mm)		0	10	45.7	73.2	66.8	490.2	312	351.8	223.2	144.2	2.2	0
	Average of Temperature (°C)	max.	15.2	15.7	18.5	22.5	24.1	23.8	24.6	24.8	25.6	22.1	20.3	17.4
		min.	6.9	7.3	10.5	12.1	15.6	18.4	19.4	19.4	18.0	16.2	10.0	8.1
	Average of RH (%)		83	85	86	76	78	94	92	90	87	90	81	83
	Average of Evap. Amount (mm)		1.8	1.8	2.3	3.5	4.2	2.4	2.3	2.6	3.0	2.3	2.1	1.5
	Average of Sunshine (hours)		6.4	4.5	5.5	6.6	5.0	3.0	3.4	4.0	4.9	4.2	7.5	7.3
Deothang	Total Rainfall (mm)		0	0	76.4	116.7	126.3	853.6	689.5	203	314.5	264.5	10.2	2.2
	Average of Temperature (°C)	max.	21.1	20.2	23.1	26.7	27.2	26.0	28.2	30.0	31.1	25.9	25.8	22.3
		min.	11.0	11.3	15.8	19.0	20.9	21.6	23.2	22.8	22.4	19.8	15.6	12.5
	Average of RH (%)		52	59	62	66	73	93	90	90	84	87	66	61
	Average of Evap. Amount (mm)		2.5	1.2	1.6	1.9	1.2	0.0	0.8	0.8	1.4	0.7	2.4	2.1
	Average of Sunshine (hours)		5.6	3.1	3.6	4.8	3.2	0.4	2.0	2.6	4.1	2.4	6.4	5.8
Gasa	Total Rainfall (mm)		46.6	72.6	121.4	97.3	190.8	339.4	444.2	297.9	276.8	182.2	7.2	3.4
	Average of Temperature (°C)	max.	9.8	9.4	13	18.1	19.7	19.6	22.7	22.3	22.1	18.9	15.2	12.4
		min.	-2.8	-1.9	1.8	5	7.7	11.9	13.2	11.8	22.1	8	2.4	-2
	Average of RH (%)		72	77	82	74	76	92	90	80	80	77	65	50
	Average of Evap. Amount (mm)		0.6	0.7	1	2	1.6	1.1	0.9	1.1	1.3	1	0.9	1.1
	Average of Sunshine (hours)		3.9	3.4	3.4	4.4	4.2	1.7	2.9	4.6	4.9	4.6	4.8	6.5

Source: NCHM

Table 8.3 (3) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Haa	Total Rainfall (mm)		1	4.6	85.2	43	578.5	101	228.2	220.8	213.7	33.6	1.1	0
	Average of Temperature (°C)	max.	9.7	10.0	12.9	17.5	18.7	19.8	21.8	20.8	19.6	17.5	13.7	12.8
		min.	-5.1	-3.7	0.1	3.7	7.6	13.7	14.6	12.2	11.7	7.5	-0.4	-5.7
	Average of RH (%)		71	48	55	56	62	77	74	68	71	63	61	40
	Average of Evap. Amount (mm)		0.7	1.1	2.4	3.0	2.4	1.4	1.6	1.9	1.6	1.9	1.8	
	Average of Sunshine (hours)		4.5	4.1	5.6	3.7	1.9	0.5	0.7	2.6	2.9	5.7	6.0	4.4
Kanglung	Total Rainfall (mm)		0.6	13.8	95.2	46.4	152.7	121.4	211.4	177.5	153.6	45.2	1	0
	Average of Temperature (°C)	max.	17.0	16.6	20.3	23.5	24.8	25.7	27.7	26.6	27.3	24.3	23.8	19.7
		min.	3.6	3.9	7.4	11.2	13.4	16.3	17.2	16.6	16.1	13.1	8.5	4.6
	Average of RH (%)		72	71	74	69	74	86	85	82	80	82	73	67
	Average of Evap. Amount (mm)		1.2	1.3	1.7	2.3	2.2	1.9	1.7	1.6	1.7	1.7	1.3	1.2
	Average of Sunshine (hours)		6.5	3.7	5.4	5.3	4.3	2.2	4.0	3.4	4.5	3.9	7.0	6.8
Monggar	Total Rainfall (mm)		9	9.2	84.6	16.2	99.4	107.6	153.6	148.8	120.8	113.6	1.2	0
	Average of Temperature (°C)	max.	16.7	16.2	20.4	24.5	25.9	25.4	27.1	27.0	27.8	22.4	21.1	17.5
		min.	6.3	7.1	10.9	14.4	16.4	18.7	19.6	19.1	18.8	15.7	10.9	7.1
	Average of RH (%)		67	70	68	66	71	85	83	80	74	81	68	63
	Average of Evap. Amount (mm)		1.5	1.6	2.1	2.7	3.0	2.1	2.7	2.3	2.8	1.8	1.5	1.5
	Average of Sunshine (hours)		6.8	4.8	4.5	5.4	5.0	1.8	4.2	4.4	5.6	3.8	6.1	7.4

Source: NCHM

Table 8.3 (4) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Paro	Total Rainfall (mm)		0	2	60	16.4	19.4	35.3	107.6	105.5	99.3	15.8	0	0
	Average of Temperature (°C)	max.	12.4	13.5	17.6	21.3	22.2	24.1	26.0	25.0	24.3	21.3	17.6	15.5
		min.	-3.6	-2.5	2.1	5.6	9.9	13.7	15.4	14.2	13.2	9.7	3.4	-3.8
	Average of RH (%)		73	67	68	59	63	75	75	75	80	71	72	67
	Average of Evap. Amount (mm)		2.4	2.2	3.2	3.7	2.9	2.0	2.2	2.1	2.1	2.1	3.1	1.6
	Average of Sunshine (hours)		6.5	6.5	6.4	6.2	4.0	2.0	3.4	3.5	3.3	5.7	6.5	7.5
Pema Gatshel	Total Rainfall (mm)		0	19.4	115.4	67.8	207.4	454.9	321.4	132.6	136.8	104.6	0	0
	Average of Temperature (°C)	max.	18.4	17.7	21.0	25.5	26.5	25.8	26.9	26.4	28.7	24.5	23.9	20.0
		min.	5.4	6.3	10.5	13.8	16.1	18.6	19.7	19.5	19.0	16.5	10.6	6.5
	Average of RH (%)		83	78	78	77	83	89	90	89	88	87	82	82
	Average of Evap. Amount (mm)								1.7	1.5	1.8	1.4	1.5	1.1
	Average of Sunshine (hours)		5.5	4.3	4.5	5.5	4.7	2.4	2.3	2.2	4.0	3.8	5.9	5.6
Phuntsholing	Total Rainfall (mm)		0	15.2	162.4	171.1	524.1	1464	1282.7	1371.2	640.5	1023.1	59.3	0
	Average of Temperature (°C)	max.	25.3	25.2	29.1	32.5	32.7	30.8	30.9	31.9	34.0	30.7	30.1	27.8
		min.	9.8	10.7	14.9	19.0	20.3	21.3	22.5	23.5	23.6	20.2	18.4	14.3
	Average of RH (%)		64	61	64	65	74	89	88	85	82	82	70	66
	Average of Evap. Amount (mm)		2.9	2.9	4.2	3.9	2.1	2.8	2.1	1.5	3.5	2.9	4.8	4.5
	Average of Sunshine (hours)		3.8	3.4	5.1	4.5	2.5	3.5	2.5	2.1	4.0	3.5	5.8	5.8

Source: NCHM

Table 8.3 (5) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Punakha	Total Rainfall (mm)		0	6.7	40.3	9.8	50.2	52.2	133.3	136.8	132	61.1	0	0
	Average of Temperature (°C)	max.	23.9	22.7	27.3	31.6	33.3	32.8	33.3	33.6	33.6	30.4	28.8	26.0
		min.	8.4	9.8	14.1	17.5	20.4	22.9	23.7	22.6	21.8	19.5	14.3	8.2
	Average of RH (%)		77	78	69	61	70	87	83	82	86	86	83	82
	Average of Evap. Amount (mm)		2.1	2.4	3.1	3.1	3.9	3.3	3.6	3.3	3.2	2.6	3.1	2.4
	Average of Sunshine (hours)		5.4	5.6	4.8	6.2	4.7	2.4	4.2	4.9	4.7	4.7	6.2	7.5
Simtokha	Total Rainfall (mm)		0.1	1.8	34.3	13.4	50.3	32.8	179.1	135.6	210	24	0.8	0
	Average of Temperature (°C)	max.	13.3	13.8	17.3	21.3	22.4	24.4	26.2	25.5	25	22	18.6	16.5
		min.	-2.6	-1.2	3.5	6.6	10.4	15.1	16	14.3	13.8	10	4.1	-2.9
	Average of RH (%)		62	52	59	52	60	71	75	71	75	70	62	49
	Average of Evap. Amount (mm)		2.3	2.8	3.5	4.4	4.4	3	2.8	2.9	3	3.2	2.3	2.7
	Average of Sunshine (hours)		6.5	5.8	6.1	5.7	4.3	2.3	4	4.5	4.9	5.8	6.6	5.5
Sipsu	Total Rainfall (mm)		7.8	7.8	117.4	137.2	437.4	1438.4	1160.6	645.2	607.1	465.2	10.2	6.6
	Average of Temperature (°C)	max.	22.5	23.5	27.2	30.7	30.3	29.2	29.7	30.6	31.8	29.2	28.7	25.5
		min.	11.0	11.7	16.0	19.9	20.9	21.7	22.5	22.8	22.4	19.8	16.6	13.6
	Average of RH (%)		59	58	63	64	74	90	89	82	78	79	61	65
	Average of Evap. Amount (mm)		2.1	1.4	1.8	2.6	2.5	1.3	1.2	2.3	2.8	2.6	3.4	2.7
	Average of Sunshine (hours)		6.1	3.6	4.2	4.8	3.9	1.9	1.9	2.6	4.1	3.4	6.5	5.7

Source: NCHM

Table 8.3 (6) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Tangmachu	Total Rainfall (mm)		3.2	6.2	56.8	26.2	92.8	69.4	45.2	79.2	75.8	58.4	0	0
	Average of Temperature (°C)	max.	19.7	19.3	23	25.9	28.5	29.2	31	31	31.4	28.1	27	22.9
		min.	7.8	9	12.9	15.5	17.2	20.2	21.3	20.8	19.8	17.7	12.7	7.8
	Average of RH (%)		85	86	87	87	87	88	88	88	86	87	85	87
	Average of Evap. Amount (mm)		1.1	1.9	2.1	2.6	2	1.4	2.5	2.4	2.2	1.2	1.9	1.1
	Average of Sunshine (hours)		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Trashhi Yangtse	Total Rainfall (mm)		3.4	18.1	94.1	90.3	144	154.3	106.1	209.3	172.2	91.3	2.1	0
	Average of Temperature (°C)	max.	16.4	16.6	21.3	23.3	24.8	25.4	27.4	26.8	27.6	22.6	20.6	17.4
		min.	1.5	3.1	7.6	9.4	11.9	16.8	18.1	16.3	15.8	13.4	6.9	1.2
	Average of RH (%)		75	75	71	71	75	83	83	83	80	82	72	73
	Average of Evap. Amount (mm)		1.5	1.5	2.2	2.1	2.0	1.5	2.0	2.2	2.3	1.6	1.9	1.4
	Average of Sunshine (hours)		4.5	3.9	4.2	3.8	4.1	1.8	3.1	4.5	4.4	3.9	6.4	6.5
Trongsa	Total Rainfall (mm)		2.9	27.3	94.6	50.3	91.8	248.9	154.7	241	198.9	74.3	1.1	0
	Average of Temperature (°C)	max.	13.8	13.1	17.0	20.4	21.8	22.2	23.6	23.7	24.1	20.5	18.7	16.1
		min.	2.1	4.0	8.2	9.2	12.0	15.9	16.9	15.5	15.1	12.5	6.7	2.6
	Average of RH (%)		79	79	76	73	73	85	85	85	81	81	74	69
	Average of Evap. Amount (mm)		1.2	1.3	1.8	2.0	2.3	1.9	2.3	2.3	2.4	1.7	1.6	1.2
	Average of Sunshine (hours)		5.2	4.7	3.8	5.5	4.3	1.7	3.2	4.0	4.6	3.6	6.9	6.9

Source: NCHM

Table 8.3 (7) Station-wise Meteorology Information during 2024

Station	Indicator		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Wangdue	Total Rainfall (mm)		0	4.6	40	6.8	30.3	100.8	118.5	124.4	110.2	39.3	0	0
	Average of Temperature (°C)	max.	20.1	20.7	24.7	28.8	30.0	29.7	30.5	30.7	30.8	27.5	25.4	21.8
		min.	5.0	6.8	10.2	14.7	18.5	22.0	21.9	20.7	20.3	18.0	11.5	6.4
	Average of RH (%)		74	72	75	67	62	72	80	80	79	81	73	75
	Average of Evap. Amount (mm)		1.8	2.3	3.7	4.1	3.5	3.5	4.1	3.8	3.7	2.7	2.6	1.8
	Average of Sunshine (hours)		3.4	3.8	4.3	5.6	5.0	2.8	4.4	4.5	4.9	5.3	6.0	6.3
Zhemgang	Total Rainfall (mm)		16.2	22.3	86	18.2	165.5	270.2	288.5	269	197.5	106.5	1.5	0
	Average of Temperature (°C)	max.	14.4	14.0	17.7	22.5	24.0	24.2	25.2	25.4	25.9	21.7	19.5	15.8
		min.	2.3	3.6	7.8	11.4	13.9	16.7	17.4	16.7	16.3	13.8	7.7	4.1
	Average of RH (%)		71	74	76	69	76	88	88	85	80	85	73	74
	Average of Evap. Amount (mm)		1.8	1.9	2.2	2.4	2.5	2.5	2.7	2.8	2.9	2.5	2.2	1.6
	Average of Sunshine (hours)		5.9	4.5	4.2	5.2	4.4	2.2	4.4	3.9	5.4	4.1	7.4	6.9

Source: NCHM

CHAPTER 9: EXPENDITURE

Government expenditure is aimed at delivering outputs like sectoral services to citizens, and the sectoral GDP is an important indicator of the sector's annual overall output. This chapter presents the government's sector-wise expenditures, sector-wise GDPs, and the ratio of the former to the latter, i.e. the sectoral GDP (as output) divided by the sectoral expenditure (as input) for ten years (2015-2024). (As the expenditure figures specific to the secondary and tertiary sectors are not published, all-sectors' figures and the primary-sector's figures are used for comparison. Since Expenditure figures reported in the Statistical Yearbook of Bhutan are organized in the fiscal year and don't synchronize with GDP figures (organized in calendar year), modified Expenditure figures are used. See footnote of Table 9.1 for details.)

The ratios (output/input ratio) obtained for all sectors (Table 9.1) ranged from 3.41 to 3.58 (the average being 3.31), and the ratios for the primary sector ranged from 3.31 to 5.49 (the average being 3.96), which suggests that the primary sector performed as well as, or slightly better than, all-sectors as a whole during 2013-2021 (Figure 41).

Likewise, correlation was tested between sector-wise expenditure and sector-wise GDP (by linear regression analysis) using the same data sets. (Again, only all-sector figures and the primary-sector figures are used.)

As shown in Figure 42 and Figure 43, the slope of 2.922 ($p < 0.001$) was obtained for all-sectors, whereas a steeper slope of 4.432 ($p < 0.005$) was obtained for the primary sector (crop, livestock and forestry). Here again, the result suggests that the primary sector performed as well as, or slightly better than, all-sectors combined when viewed in Expenditure-GDP ratio.

Table 9.1 GDP, Government Expenditure, Modified-Gov. Expenditure (Value in Million Nu.) and the GDP/M-Gov. Expenditure ratio (total/primary sector).

GDP (current price)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
GDP (all sectors)	138,242.37	156,076.60	168,753.30	176,672.95	192,647.77	182,107.42	204,664.41	227,813.72	248,863.09	280,007.94
GDP (primary sector)	16,835.40	19,013.35	21,819.45	23,940.81	24,916.97	28,596.47	32,326.30	33,422.58	37,312.31	39,618.48
Government Expenditure (current+capital)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Gov. Expenditure (all sectors)	36,475.85	44,688.45	49,966.61	56,331.36	44,054.13	57,572.28	71,091.82	69,156.61	68,951.30	70,223.00
Gov. Expenditure (primary sector)	4,143.26	6,027.98	6,764.55	6,205.46	4,593.23	7,115.10	8,652.73	8,609.67	6,548.33	7,033.16
M-Gov. Expenditure (current+capital) (modified for calendar year) *	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
M-Gov. Expenditure (all sectors)	40,582.15	47,327.53	53,148.98	50,192.74	50,813.21	64,332.05	70,124.21	69,053.95	69,587.15	NA
M-Gov. Expenditure (primary sector)	5,085.62	6,396.26	6,485.00	5,399.34	5,854.16	7,883.91	8,631.20	7,579.00	6,790.74	NA
GDP/M-Expenditure Ratio	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
GDP/M-Expenditure (all sectors)	3.41	3.30	3.18	3.52	3.79	2.83	2.92	3.30	3.58	NA
GDP/M-Expenditure (primary sector)	3.31	2.97	3.36	4.43	4.26	3.63	3.75	4.41	5.49	NA

Source: National Accounts Statistics (with modification), NSB/SYB/AFS

*Note: "Government Expenditure" figures are modified from the published figures by calculating the mean of two consecutive years; e.g. the mean of 2012/13 and 2013/14 is used for 2013.

*Note: GDP (total/primary sector), Government Expenditure (total/primary sector), Modified-Gov. Expenditure (total/primary sector) (Value in Million Nu.) and the GDP/M-Gov. Expenditure ratio (total/primary sector).

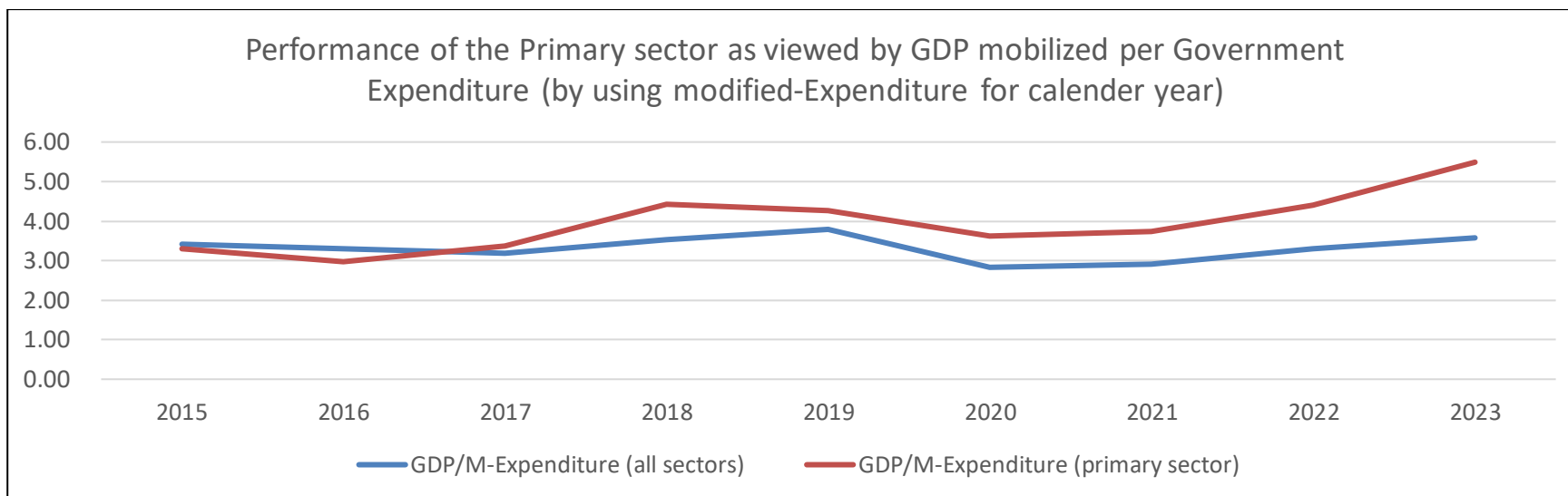


Figure 41: Performance of the Primary sector as viewed by GDP mobilized per Government Expenditure (2015-2023)

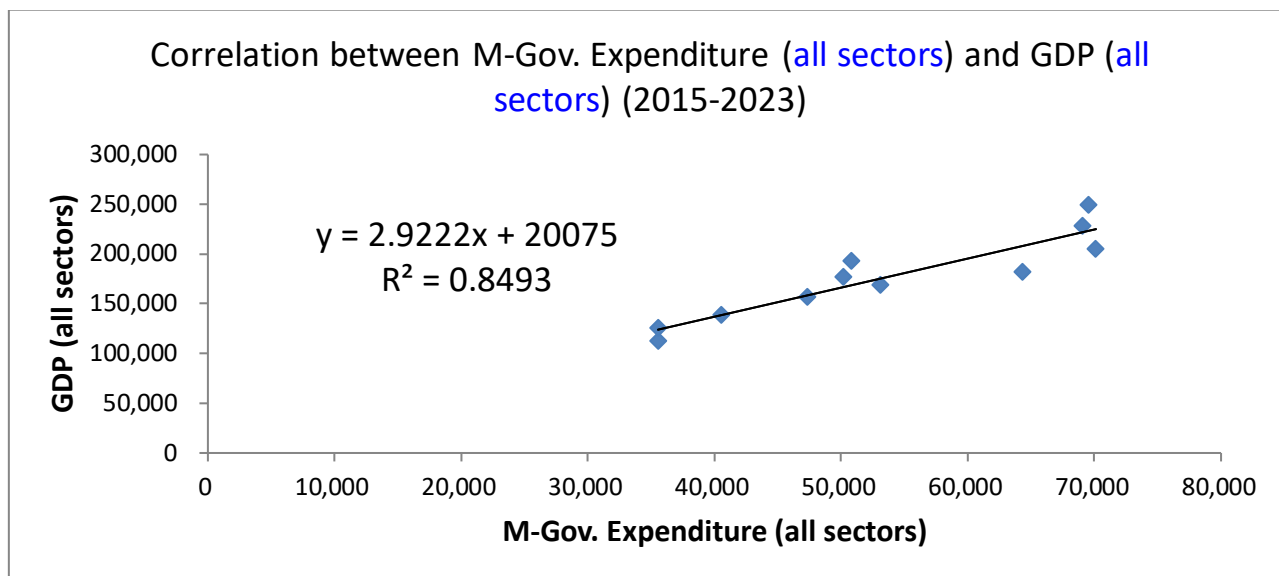


Figure 42: Correlation between Government Expenditure and GDP (all sectors) (2013-2021)

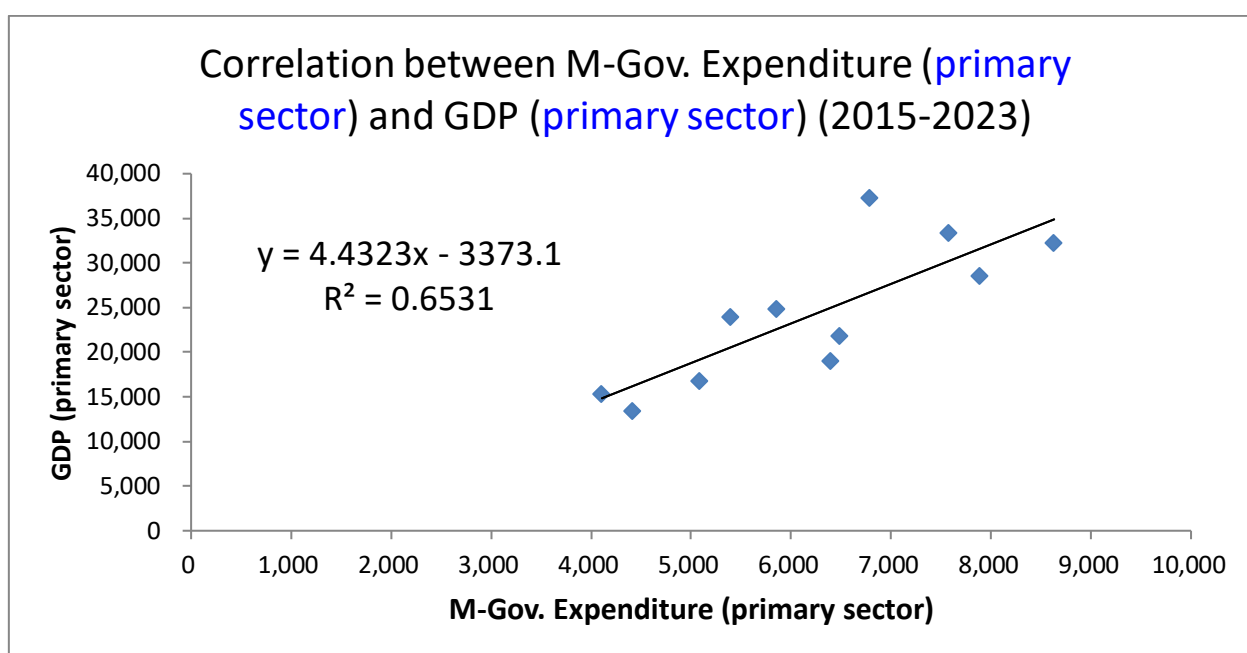


Figure 43:: Correlation between Government Expenditure and GDP (primary sector) (2015-2023)

CHAPTER 10: ANALYSIS

Bhutan's agrifood sector 13th FYP advocates boosting of sectoral GDP (crop and livestock sub-sectors combined) from Nu. 33 billion in 2024 to Nu. 50 billion in 2029. This chapter first presents an analysis to see the feasibility of this scenario. As shown in Table 10.1, achievement of the target in 2029 requires an 8.89% annual growth of the sectoral GDP for seven years (2024-2029). Looking at the recent five years' data (2018-2022), where actual annual agricultural GDP growth rate averaged 9.27%, 8.89% target seems appropriately set (Figure 44).

A second analysis is conducted of the lost area (difference between sown area and harvested area) of selected crops (paddy, maize, potato and cardamom) to see whether the lost area is decreasing. The most recent three years' data (2021-2023) show that paddy and potato saw a decrease in the lost area (Figure 45 and 47). However, looking at five years' data, the lost area largely fluctuated and no clear trend of decrease is observed for all four crops. As for cardamom, the lost area is rather on the increase during that period (Figure 48).

Labour force employed by agriculture sector has decreased since 2015 till now (199,640 to 125,160), while the number has by and large increased for industry sector (30,568 to 39,414) and service sector (114,083 to 123,210). Despite labour force decrease, agriculture sector has constantly increased the sectoral GDP. Now a third analysis is conducted to see how agriculture sector's labour productivity changed over time, along with comparison with other sectors. Table 10.3 shows sectoral GDP, sectoral labour force (employed persons), and sectoral GDP per employed-person (the former divided by the latter). While agricultural labour productivity, viewed in GDP per labour, is small compared with other sectors, the speed of growth it showed over time is significantly faster than other sectors. The agriculture sector's per labour GDP was Nu. 0.071 million in 2013, but it more than tripled to register Nu. 0.267 million in 2022. The speed of growth (of GDP per labour) was slower with industry and service sectors than agriculture sector (Figure 48). The analysis suggests that there is a solid progress in modernization of agriculture in Bhutan.

Table 10.1 Actual and target agriculture GDP at current prices (2018-2029) (Value in Million Nu.)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Actual agriculture GDP (crop & livestock)	18,903	20,370	23,674	26,996	27,548	31,126	33,168	-	-	-	-	-
Target agriculture GDP with 8.22% growth	-	-	-	-	-	-	-	36,454	39,450	42,693	46,202	50,000

Source: Actual agriculture GDP from National Accounts Statistics 2024, NSB

Note: Annual growth rate 8.22% is required to increase agriculture GDP from Nu. 33.1 billion in 2024 to Nu. 50 billion in 2029.

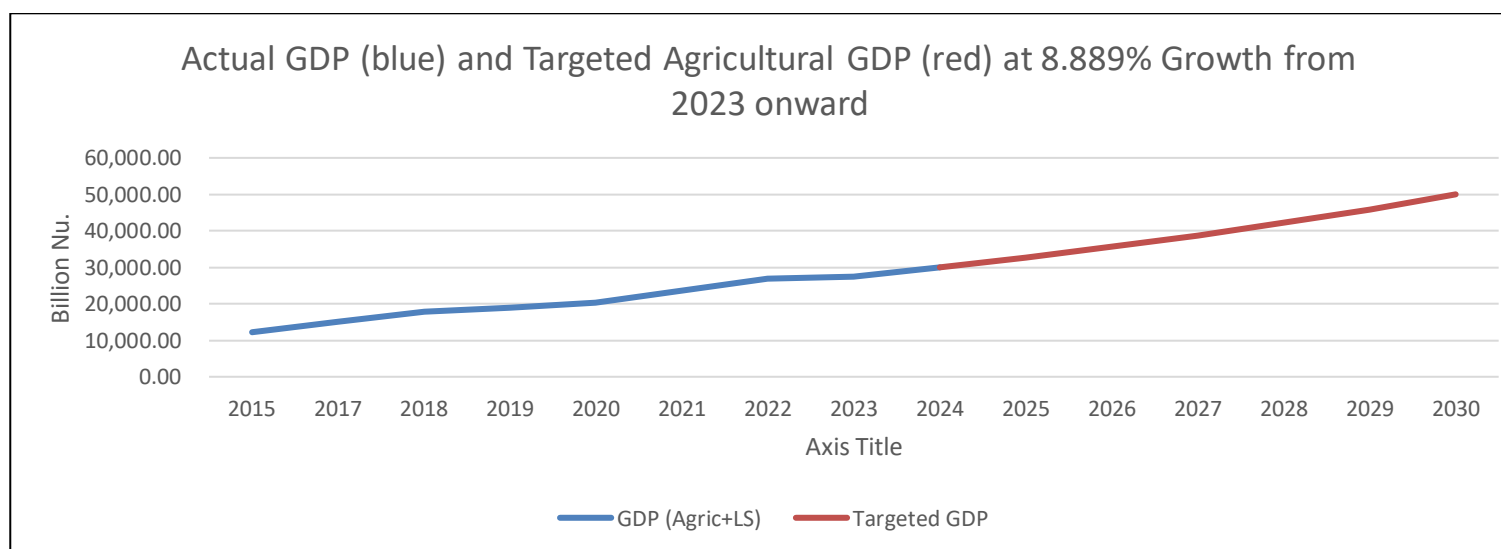


Figure 44: Actual agriculture GDPs and target agriculture GDPs required to achieve Nu. 50 billion in 2029

Table 10.2 Sown area and lost area for selected crops (2019-2024) (Value in Acre and %)

Crop	Sown Area, Lost Area and %	2019	2020	2021	2022	2023	2024
Paddy (irrigated+upland)	Sown area (acre)	32,169	32,217	26,699	23,995	24,557	23,938
	Lost area (acre)	1,855	888	2,643	1,313	1,267	1,421
	Lost area as % of sown area	5.8	2.8	9.9	5.5	5.2	5.9
Maize	Sown area (acre)	37,239	31,813	25,473	21,920	21,031	22,850
	Lost area (acre)	4,754	3,868	5,184	3,490	3,890	4,240
	Lost area as % of sown area	12.8	12.2	20.4	15.9	18.5	18.6
Potato	Sown area (acre)	10,764	10,411	8,825	8,331	8,434	8,247
	Lost area (acre)	422	448	581	512	418	595
	Lost area as % of sown area	3.9	4.3	6.6	6.1	5.0	7.2
Cardamom	Sown area (acre)	16,386	13,978	12,813	9,461	10,084	13,081
	Lost area (acre)	772	282	1,214	1,465	1,637	873
	Lost area as % of sown area	4.7	2.0	9.5	15.5	16.2	6.7

Source: Agriculture Survey Report, NSB.

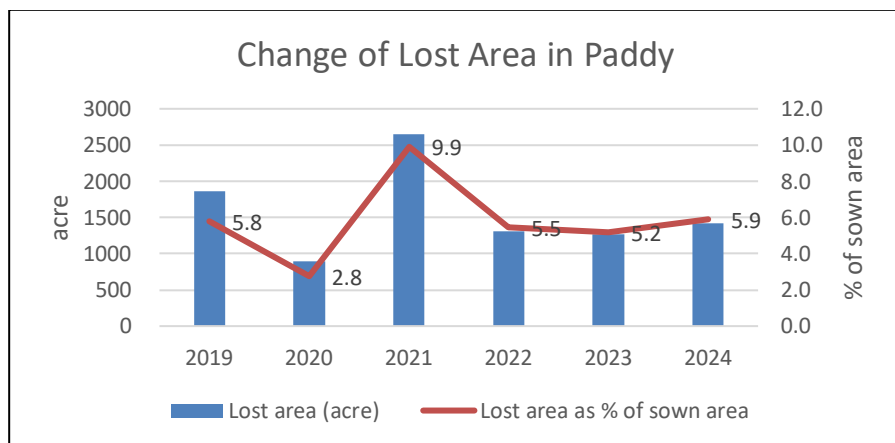


Figure 45: Change of Lost Area in Paddy Farming

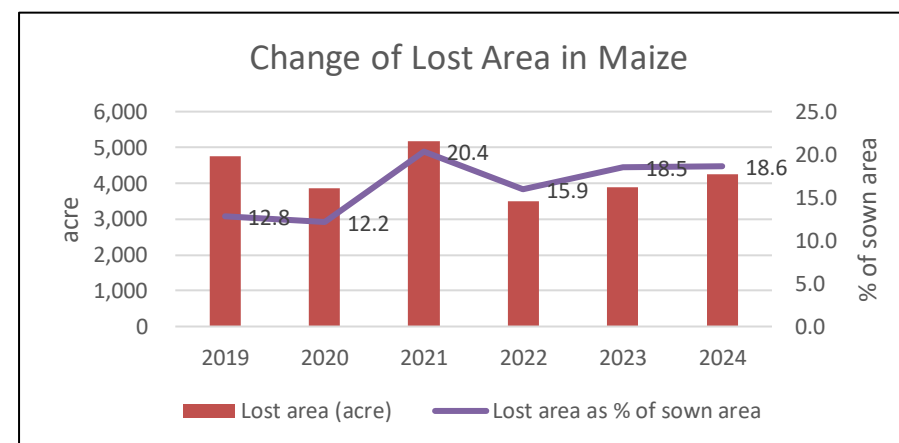


Figure 46: Change of Lost Area in Maize Farming

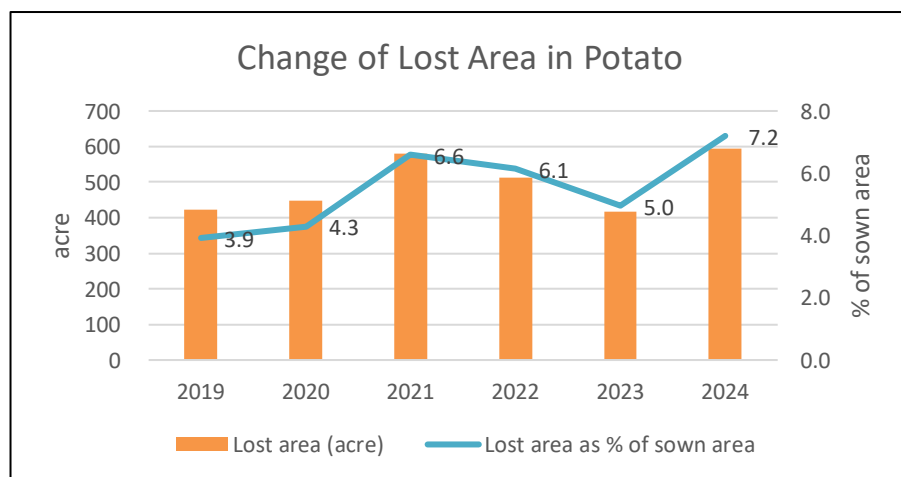


Figure 47: Change of Lost Area in potato Farming

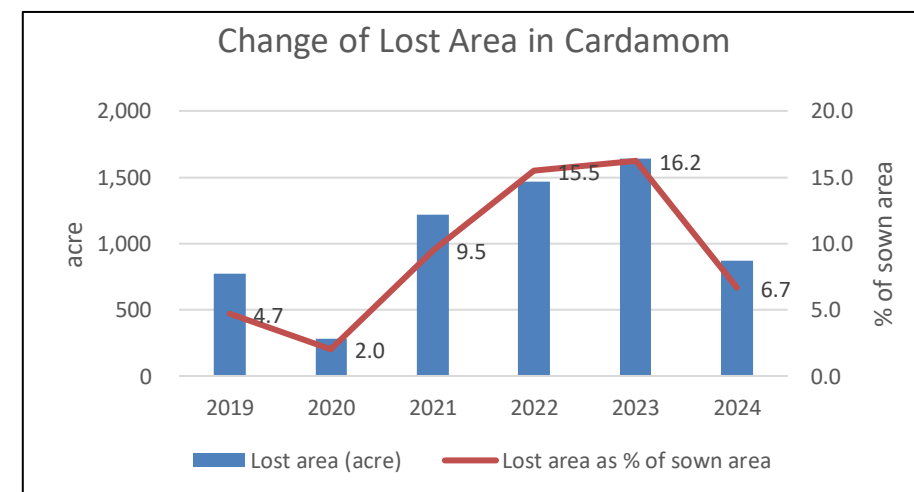


Figure 48: Change of Lost Area in Cardamom Farming

Table 10.3 Sectoral GDP, sectoral labour force, and sectoral GDP per sectoral employment.

Sector	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
GDP (Million Nu.)										
Primary	16,835	19,013	21,819	23,941	24,917	28,596	32,326	33,423	37,312	39,618
Secondary	53,991	60,908	65,879	62,304	63,755	57,894	64,722	72,501	73,177	88,682
Tertiary	67,416	76,155	81,054	90,428	103,976	95,617	107,617	121,890	138,374	151,707
Labour Force (employed person)										
Primary	199,640	198,429	175,859	162,239	159,032	157,015	158,511	125,160	158,707	154,512
Secondary	30,568	30,137	40,960	34,542	43,550	42,438	45,560	39,414	49,724	60,484
Tertiary	114,083	118,564	125,952	103,660	108,478	115,109	118,052	123,210	156,294	155,483
GDP/employed person (Mill Nu per person)										
Primary	0.084	0.096	0.124	0.148	0.157	0.182	0.204	0.267	0.235	0.256
Secondary	1.766	2.021	1.608	1.804	1.464	1.364	1.421	1.839	1.472	1.466
Tertiary	0.591	0.642	0.644	0.872	0.958	0.831	0.912	0.989	0.885	0.976

Source: National Account Statistics (NAS), NSB; and Labour Force survey Report (LFS), NSB.

Note: 1) LFS counts Mining & Quarrying, Manufacturing, and Construction in the Secondary Sector.

2) Electricity and Water Supply are counted in the Secondary Sector by GDP, but in the Tertiary Sector by LFS.

Table 10.4 Sectoral GDP per sectoral employment (relative to the 2013 figure)

Sector	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
GDP/employed person (relative to 2013 figure)										
Primary	1.000	1.136	1.471	1.750	1.858	2.160	2.418	3.167	2.788	3.041
Secondary	1.000	1.144	0.911	1.021	0.829	0.772	0.804	1.041	0.833	0.830
Tertiary	1.000	1.087	1.089	1.476	1.622	1.406	1.543	1.674	1.498	1.651

Note: This table is created to highlight the fastest growth exhibited by the primary sector in per employment GDP.

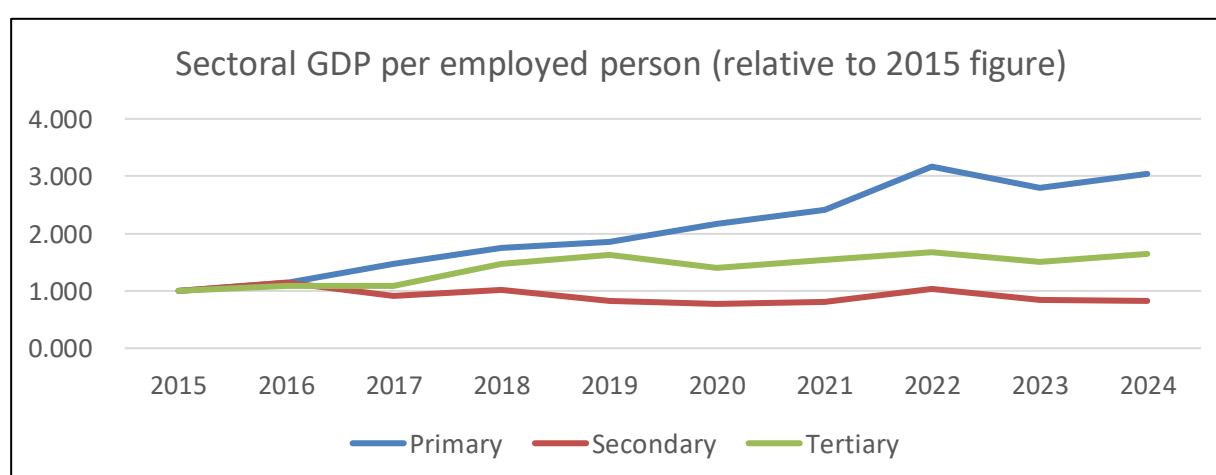


Figure 48: Change of sectoral Labour Productivity as viewed in GDP per employed person



**Prepared by
Policy and Planning Division
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