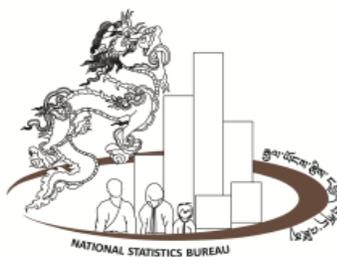# ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

TWENTY-SIXTH SESSION
Thimphu, Bhutan, 15-19 February 2016
Agenda Item 6.2
Bhutan Statistical System and the Agriculture and Rural Statistics

Contributed by:

BHUTAN STATISTICAL SYSTEM AND THE AGRICULTURE & RURAL STATISTICS

National Statistics Bureau

17 February 2016, Thimphu

OUTLINE

1. INTRODUCTION;
2. BSS PARTNERS & STAKEHOLDERS;
3. DESIGNATED STATISTICS IN THE BHUTAN STATISTICAL SYSTEM (BSS);
4. NSDS-BSS MULTI-ANNUAL PROGRAM OF SURVEYS & CENSUSES
5. ISSUES THE CURRENT BSS;
6. PROPOSED BSS;
7. CENTRALIZED STATISTICAL SYSTEM IN THE BSS;
8. MAJOR NATIONWIDE DESIGNATED OFFICIAL STATISTICS;
9. GEWOG LEVEL DATABASE SYSTEM;
10. DATA REPORTING SYSTEM IN THE BSS; AND
11. AGRICULTURE & RURAL STATISTICS IN THE BSS.

INTROUCTION

1. Bhutan Statistical System (BSS)

1. Decentralized system with National Statistics Bureau (NSB) as the central statistical agency;

2. Individual, ministries/departments and agencies collect their own data; and

3. Statistical organization and units at all administrative levels of the Government that jointly collect, process and disseminate Official Statistics on behalf of the Government.

BSS PARTNERS & STAKEHOLDERS

1. Major data producing agencies:

(1) Ministry of Agriculture and Forests (MoAF);
(2) Ministry of Health (MoH);
(3) Ministry of Education (MoE);
(4) Ministry of Labour & Human Resources (MoLHR);
(5) Ministry of Finance (MoF);
(6) Royal Monetary Authority (RMA);
(7) Ministry of Economic Affairs (MoEA);
(8) Tourism Council of Bhutan (TCB); and
(9) National Environment Commission (NEC).

DESIGNATED STATISTICS IN THE BSS

1. AGRICULTURE				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Rural Agricultural Census	MoAF	Annual	Dzo, 3 regions & national	3 months after ref. yr.
Livestock Census	MoAF	Annual	Dzo, 3 regions & national	3 months after ref. yr.
Forestry Census	MoAF	Annual	Dzo, 3 regions & national	3 months after ref. yr.

2. EDUCATION				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Generation of Basic Education Statistics & Indicators	MoE	Annual	Dzo, regions & national	3 months after ref. yr.
Literacy Survey	NSB	5 Years	Regions & national	1 year after ref. year

DESIGNATED STATISTICS IN THE BSS

3. ENERGY, PRODUCTION & CONSUMPTION				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Electricity, Production, Consumption & Exports	Ministry of Trade & Industry and Power	Monthly	National	6 months after reference month

4. ENVIRONMENT AND NATURAL RESOURCES				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Generation of Mineral, Forests, and Land Resources Statistics	National Environment Commission	Annual	Regional and national	6 months after reference year
Generation of Sustainable Development Indicators	National Environment Commission	Every 5 years	National	6 months after reference year

DESIGNATED STATISTICS IN THE BSS

5. INCOME, CONSUMPTION, POVERTY & PRICES				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Household Income and Expenditure Survey	NSB	Full survey every 5 years & sub-sample every 3 years	Region, rural & urban National, rural & urban	6 months after reference year
Price Survey	NSB	Monthly	Thimphu, rural & urban	30 days after the end of the reference month

6. INDUSTRY & TRADE				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Domestic Trade and Services Statistics	NSB	Annually	National	6 months after reference year
Construction Statistics	NSB	Quarterly	Region, national	3 months after the end of the quarter
Establishment Survey	NSB	Annual	National	6 months after the reference year

DESIGNATED STATISTICS IN THE BSS

7. LABOUR & EMPLOYMENT				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Labour Force Survey	MoLHR	Annual	Urban, rural and national	6 months after the survey

8. MONEY, BANKING & PUBLIC FINANCE				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Money & Banking Statistics	RMA	Monthly, quarterly and annually	National	3 months after the reference period
Government Finance Statistics	MoF	Annual	National	3 months after the reference period
Generation of Foreign Trade Statistics	MoF/DRC	Monthly, annually	National	2 months after the reference period
Generation of Internal Revenue Collection Statistics	MoF/DRC	Annually	National	3 months after the reference year

DESIGNATED STATISTICS IN THE BSS

9. NATIONAL ACCOUNTS				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
National Accounts	NSB	Annual	National	6 months after the reference year
Balance of Payment Statistics	RMA	Annual	National	3 months

10. POPULATION & HOUSING				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Population & Housing Census	NSB	Every 10 years	Vill, Gewog, Dzo, regions, urban, rural & national	1 years after census date
Population Projections	NSB	2 years after census date	Regions, urban, rural & national	3 years after census year

DESIGNATED STATISTICS IN THE BSS

11. TOURISM				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Processing of Arrival/Departure Cards	MoHCA	Monthly, annually	National	2 months after the reference period

12. TRASNPORT & COMMUNICATION				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Inventory of roads and bridges	MoWHS	Annual	National	1 year after the reference period

DESIGNATED STATISTICS IN THE BSS

13. VITAL, HEALTH & NUTRITION STATISTICS				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Generation of vital statistics of from civil registration system	MoHCA	Annually	Dzo, region, urban, rural, national	6 months after the end of the reference year
Generation of Health Statistics from Admin reports	NSB-MoH	Annual	Dzo, urban, rural, national	6 months after the end of the reference year
National Demographic Health Survey	NSB	Every 5 years	Region, urban, rural, national	1 year after the survey
National Nutrition Survey	MoH/NSB	Every 5 years	Region, urban, rural, national	1 year after the survey
Generation of MDG & other indicators	NSB	Every 5 years	Region, urban, rural, national	---

NSDS-BSS MULTI-ANNUAL PROGRAM OF SURVEYS & CENSUSES

Operation	Resp.	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1. Censuses											
Population and Housing Census (Every 10 years)	NSB							Y			
RNR Census (every 10 years)	MoAF		G						G		Y
Livestock Census (every year)	MoAF	G	G	G	G	G	G	Y	Y	Y	Y
Manufacturing Industries Census	MoEA										
Establishment Census	MoLHR	G									
Economic Census	NSB								Y		
2. Surveys											
2.1 Multi-annual											
Bhutan Living Standard Survey	NSB				G					Y	
National Health Survey	MoH				G						Y
Demand of Hydro-met Services and Products Survey	DHMS, MoEA								Y		
Women Entrepreneurship Survey	DCSI, MoEA			G				Y	Y		
Enterprise Survey	DCSI, MoEA										
Gross National Happiness Survey	CBS		G					Y			
Rural Economy Advancement Program (REAP Survey)	GNHC			G							Y
Targeted Household Poverty Programme (THPP)	GNHC							Y			
2.2 Annual											
Job Perspecting Survey	MoLHR	G	G	G	G	G	G	Y	Y	Y	Y
Agriculture Survey (every year)	MoA	G	G	G	G	G	G	Y	Y	Y	Y
Labour Force Survey	MoLHR	G	G	G	G	G	G	Y	Y	Y	Y
Business Survey	MoEA										
Tourism Exit Survey	TCB	G	G	G	G	G	G	Y	Y	Y	Y
Tourism Expenditure Survey	TCB			G	G	G	G	Y	Y	Y	Y
Outbound Tourism Survey	TCB							Y	Y	Y	Y
Domestic Survey	TCB							Y	Y	Y	Y
Tourism Industry Survey	TCB							Y	Y	Y	Y
Tourism Employment survey-to collaborate with MOLHR	TCB							Y	Y	Y	Y
Consumer Price Survey	CPO, MoEA							Y	Y		
Producer Price Survey	CPO, MoEA							Y	Y		

ISSUES IN THE CURRENT BSS

1. Duplication of efforts whereby different organizations carry out data collection for data that are already existing in some other organizations, leading to wastage of resources;

2. Lack of proper coordination, standards, and definitions,

3. Data gaps and inconsistencies; and

4. No legal or a policy framework.

PROPOSED BSS

1. **As per the instruction of H. E the Prime Minister**

    (1) Reviewed the overall Bhutan Statistical System;

    (2) Developed a proposal in consultation with Gross National Happiness Commission (GNHC) and the Royal Civil Service Commission (RCSC);

    (3) Proposed for a centralized statistical system;

    (4) Smallness of the country suited for a centralized system; and

    (5) Allow for better planning and use of the scarce resources to realize the GNH.

2. **Proposed BSS to:**
    (1) Streamline, develop and strengthen coordination;

    (2) Avoid duplication of statistical activities and reduce the respondent burden and fatigue;

    (3) Develop statistical classifications, definitions and methods that are consistent with international concepts and standards;

    (4) Facilitate the collection of primary, secondary and administrative data;

    (5) Protect the data integrity and disclosure before the official release and facilitate easy access to data;

    (6) Promote international best practices in the statistical; and

    (7) Provide timely, relevant, and reliable statistics, consistent with international principles and standards.

IN THE CENTRALIZED BSS

Surveys and Censuses:

1. All major nationwide Surveys and Censuses to be carried out by NSB;

2. Small scale sector specific surveys and studies shall be conducted by the respective Ministries/Agencies upon clearance by NSB;

3. The NSB to be the custodian of all statistical information collected through surveys, censuses and administrative data;
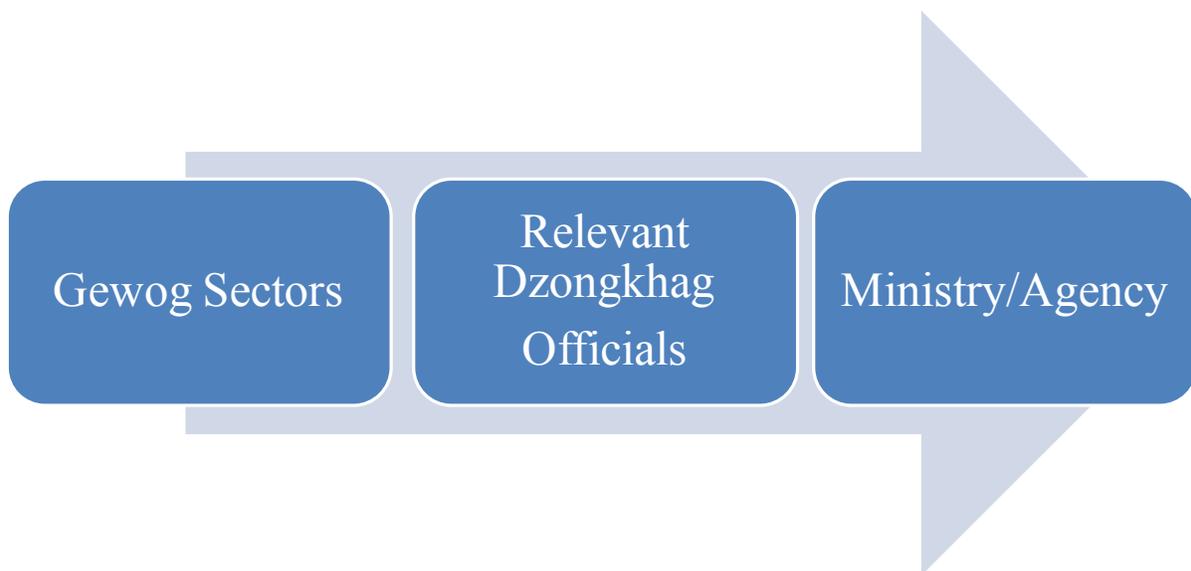
MAJOR NATIONWIDE DESIGNATED OFFICIAL STATISTICS

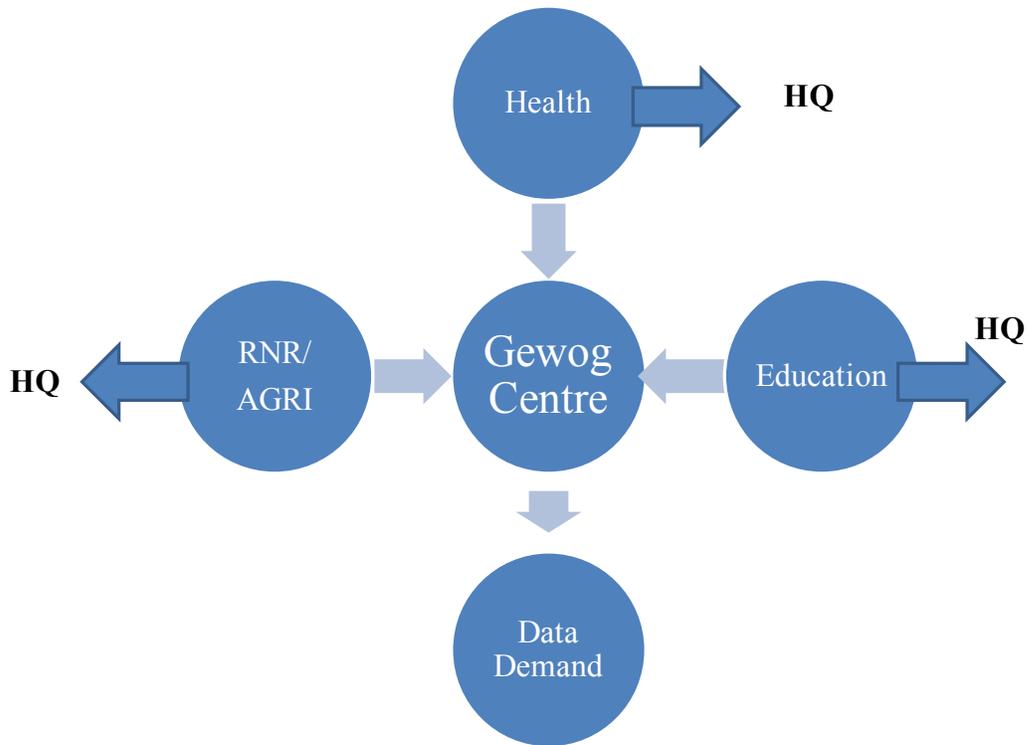| Sl.	Census and Surveys	Frequency	Year				RGoB (Nu. n million)	
			15	16	17	18	Rec	Capital
	1. Censuses							
1	Population & Housing Census of Bhutan	Every 10 years	x	x				216.00
2	RNR Census	Every 10 years		x				40.00
3	Establishment Survey	Ad-hoc	x					1.90
4	Economic Census			x				15.00
	2. 1 Multi Annual Surveys							
1	Bhutan Living Standard Survey	Every 5 years			x			24.00
2	National Health Survey	Every 10 years				x		27.90
	2.2 Annual Surveys							
1	Agriculture Crop Survey	Yearly	x	x	x	x		1.60
2	Labour Force Survey	Yearly	x	x	x	x		24.00
						Total		**350.40**

GEWOG LEVEL DATABASE

Administrative Data: (Lowest level Admin Data)

1. Gewog Database System established in all 20 Dzongkhags;

2. The Gewog Administrative Officer (GAO) to compile, maintain & manage the lowest level of administrative statistical information;

3. The information from Gewog Admin to flow to the Dzongkhag Statistical Office; and

4. The Dzongkhag Statistical Officers (DSO) to validate the data with relevant sector heads and maintain the overall Dzongkhag database system and also to submit the Dzongkhag data to the NSB.
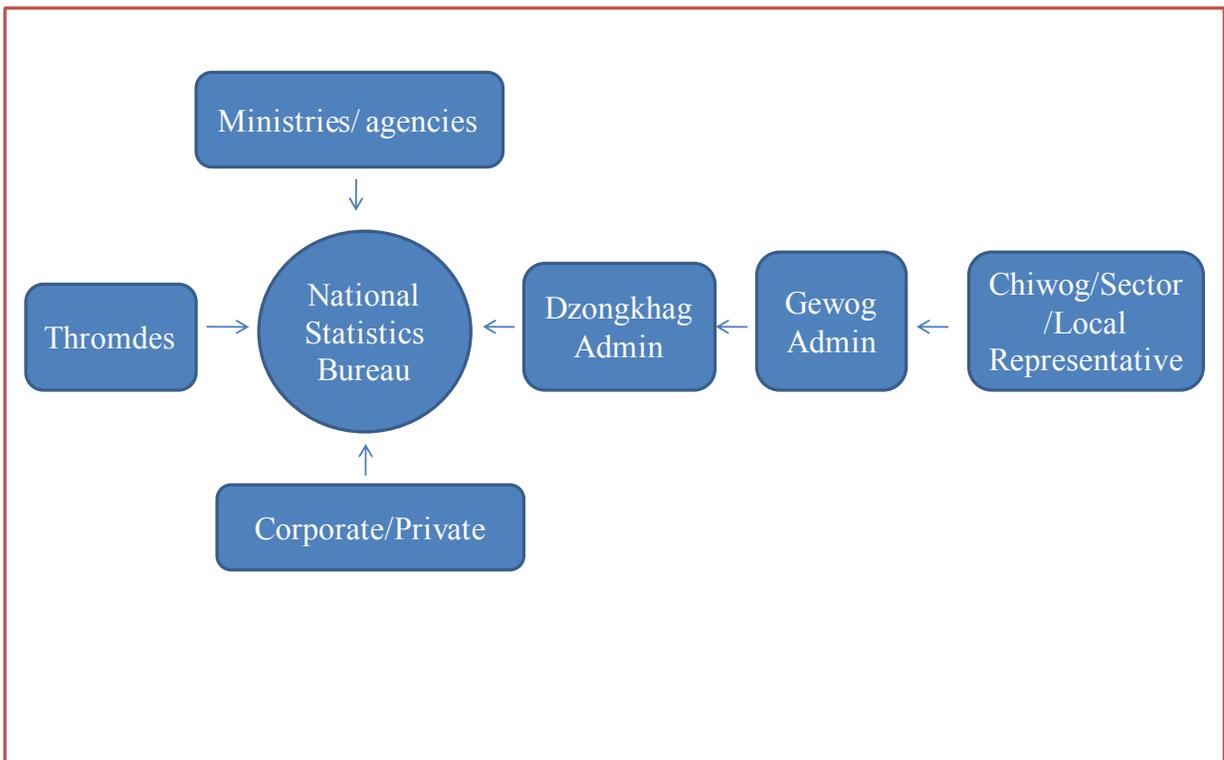
Flow of Data Before

| Gewog Sectors | Relevant Dzongkhag Officials | Ministry/Agency |

Streamlined data flow from the lowest admin level

Health → HQ

RNR/AGRI → HQ

Gewog Centre

Education → HQ

Data Demand

DATA REPORTING SYSTEM IN THE BSS

Ministries/ agencies

Thromdes → National Statistics Bureau ← Dzongkhag Admin ← Gewog Admin ← Chiwog/Sector /Local Representative

Corporate/Private

AGRICULTURE & RURAL STATISTICS - Gewog Level Database

1. AGRICULTURE				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Infrastructure	NSB	Quarterly	Rural	2nd week of the end of the quarter
Land Status				
Crop Damage				
Farm machineries				
Crop production				

2. LIVESTOCK				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Livestock Population by category and Production	NSB	Quarterly	Rural	2nd week of the end of the quarter
Livestock Infrastructure				

AGRICULTURE & RURAL STATISTICS - Gewog Level Database

3. FORESTRY				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Forestry Infrastructure	NSB	Quarterly	Rural	2nd week of the end of the quarter
Wood-based Forest Products				
Non-wood based Forest Products				

AGRICULTURE & RURAL STATISTICS - Gewog Level Database

4. HEALTH				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Release Schedule**
Infrastructure and Location Health Personnel Demography (Population) Vital Statistics Reproductive Health and Family Planning Immunization Less than 1 year Nutritional Status (< 5 Years) Water and Sanitation Top 10 Health Problems	NSB	Quarterly	Rural	2nd week of the end of the quarter

AGRICULTURE & RURAL STATISTICS - Gewog Level Database

5. EDUCATION				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Schedule**
Number of Education Centres Number of Students and Teachers by School Number of Students Passed, Failed and Repeater by Standard and School Learning Outcome by School (Mean marks by Subject) School Infrastructure	NSB	Quarterly	Rural	2nd week of the end of the quarter

6. GEWOG ADMINISTRATION				
Statistics	**Agency**	**Periodicity**	**Disaggregation**	**Schedule**
Population by age and sex Kidu Recipients by type Households Electrified Walking Distance to the Nearest Facility (from the Chiwog)	NSB	Quarterly	Rural	2nd week of the end of the quarter

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