




## ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

<b>TWENTY-SIXTH SESSION</b>
<b>Thimphu, Bhutan, 15-19 February 2016</b>
<b>Agenda Item 6.3</b>
<b>Livestock Statistics in Mongolia</b>

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**NATIONAL STATISTICAL OFFICE OF MONGOLIA**

Asia and Pacific Commission on Agricultural Statistics  
Twenty-Sixth Session  
Thimphu, Bhutan, 15 - 19 February 2016

# LIVESTOCK STATISTICS IN MONGOLIA

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February 2016

[www.nso.mn](http://www.nso.mn)



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- I. AGRICULTURAL STATISTICAL SYSTEM
- II. LIVESTOCK SECTOR IN ECONOMY OF MONGOLIA
- III. WAY TO FORWARD AND CHALLENGES



## I. AGRICULTURAL STATISTICAL SYSTEM

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### Methodology

- ✓ Compiled in accordance with a concept, definition and recommendations UNFAO

### Classification:

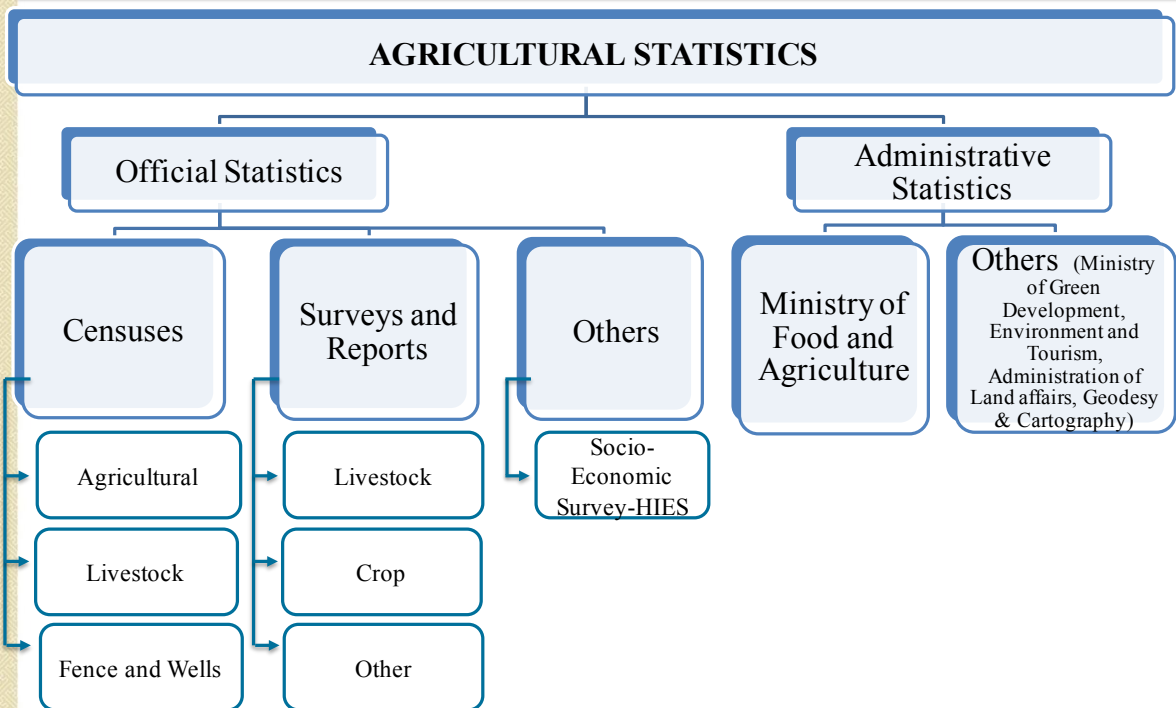
- ✓ ISIC 4.0
- ✓ CPC 2.0

### Data producers:

- ✓ NSOM – 3 persons
- ✓ Provinces (Aimags and the Capital city)– 22 persons
- ✓ Sub-provinces (Soum and Districts) – 330 persons
- ✓ Bag and Khoros – 1855 persons
- ✓ In total - 2210

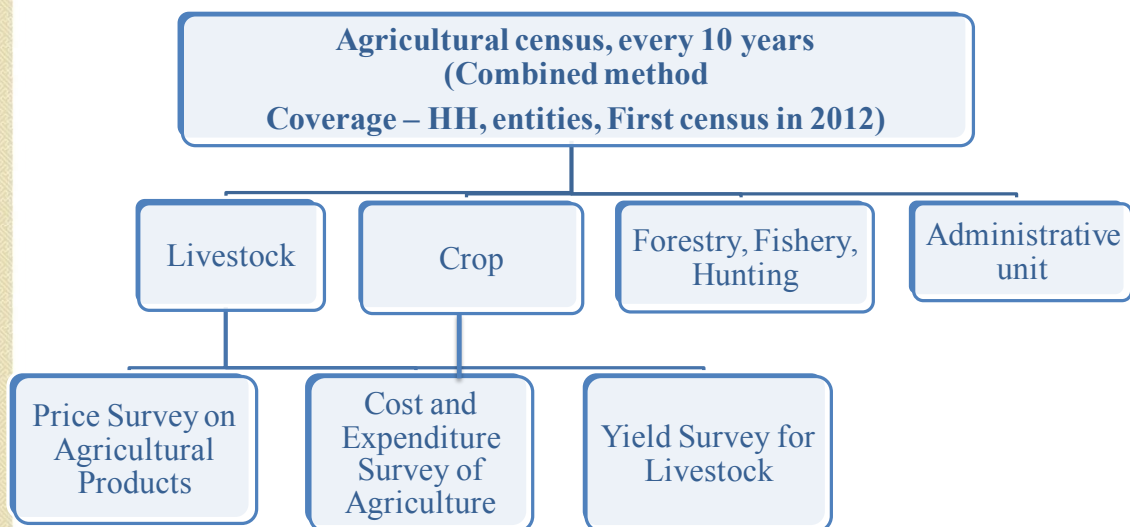


## I. AGRICULTURAL STATISTICAL SYSTEM



## I. AGRICULTURAL STATISTICAL SYSTEM

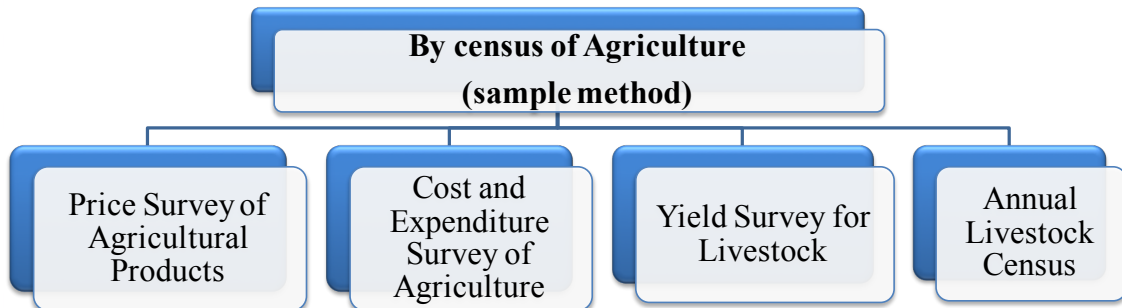
### I.1.1 Agricultural Census





## I. AGRICULTURAL STATISTICAL SYSTEM

### I.1.1 By census of Agriculture (2015-2016)



## I. AGRICULTURAL STATISTICAL SYSTEM

### I.1.2 Livestock census, survey



① 1918-1923

② 1924-1970

③ 1971-2011

④ FROM 2005

⑤ 2008-2012

⑥ FROM 2012



## I. AGRICULTURAL STATISTICAL SYSTEM

### I.1.2 Livestock census, survey

#### ① 1918-1924



- By provinces
- Number of livestock by type of animals (horse, cow, camel, sheep, goat)
- Data located in General Archival Authority



## I. AGRICULTURAL STATISTICAL SYSTEM

### I.1.2 Livestock census, survey

#### ② 1924-1970



- By provinces
- Number of livestock by type of animals (horse, cow, camel, sheep, goat)





## I. AGRICULTURAL STATISTICAL SYSTEM

### I.1.2 Livestock census, survey

#### ③ 1971-2011



- By sub-provinces
- Number of livestock by type of animals (horse, cow, camel, sheep, goat)
- Total number of livestock husbandry, Breeding livestock, Social and cultural indicators of household, Fodder etc.



## I. AGRICULTURAL STATISTICAL SYSTEM

### I.1.2 Livestock census, survey

#### ④ FROM 2005



- Livestock sample survey (Index-based livestock insurance project)
- Semi-annual livestock census has been conducted"



## I. AGRICULTURAL STATISTICAL SYSTEM

## I.1.2 Livestock census, survey

⑤ 2008-2012



- By low administrative units (Bag, Khoroos) and HHs, entities
- Number of livestock by type of animals (horse, cow, camel, sheep, goat)
- 31 indicators of 12 sets  
(Total number of livestock husbandry, Breeding livestock, Social and cultural indicators of household, Fodder etc.)



## I. AGRICULTURAL STATISTICAL SYSTEM

## I.1.2 Livestock census, survey

⑥ FROM 2012



- On line database
- By low administrative units (Bag, Khoroos) and HHs, entities
- Number of livestock by type of animals (horse, cow, camel, sheep, goat)
- 31 indicators of 12 sets  
(Total number of livestock husbandry, Breeding livestock, Social and cultural indicators of household, Fodder etc.)



## I. AGRICULTURAL STATISTICAL SYSTEM

### I.2. Surveys, reports



#### Livestock

- Price on Agricultural Products (monthly)
- Rearing of young animals (3-5, 9-12 months)
- Losses of adult animals (1-5, 9-12 months)



#### Crops

- Sown areas (5-7 months)
- Crops (8-11 months)
- Annual enterprise survey



#### Others

- Annual enterprise survey on
  - Fishery
  - Forestry
  - Hunting
- Veterinary reports (quarterly)
- Food security indicators
  - Socio-economic survey (former HIES)
  - Administrative data from related line ministries

Data source: Households, Entities



## I. AGRICULTURAL STATISTICAL SYSTEM

### II. Administrative statistics

#### II.1 Reports from Ministry of Food and Agriculture

Livestock	Crop
1. Animal insemination	6. Fallow land
2. Number and utilization of wells	7. Techniques readiness for soil cultivation and sowing
3. Irrigation point	8. Techniques readiness for hay work
4. Hay making, pasture and grassland protection	9. Techniques readiness for crop
5. Intensified animal husbandry	10. Available seed

#### II.2 Others

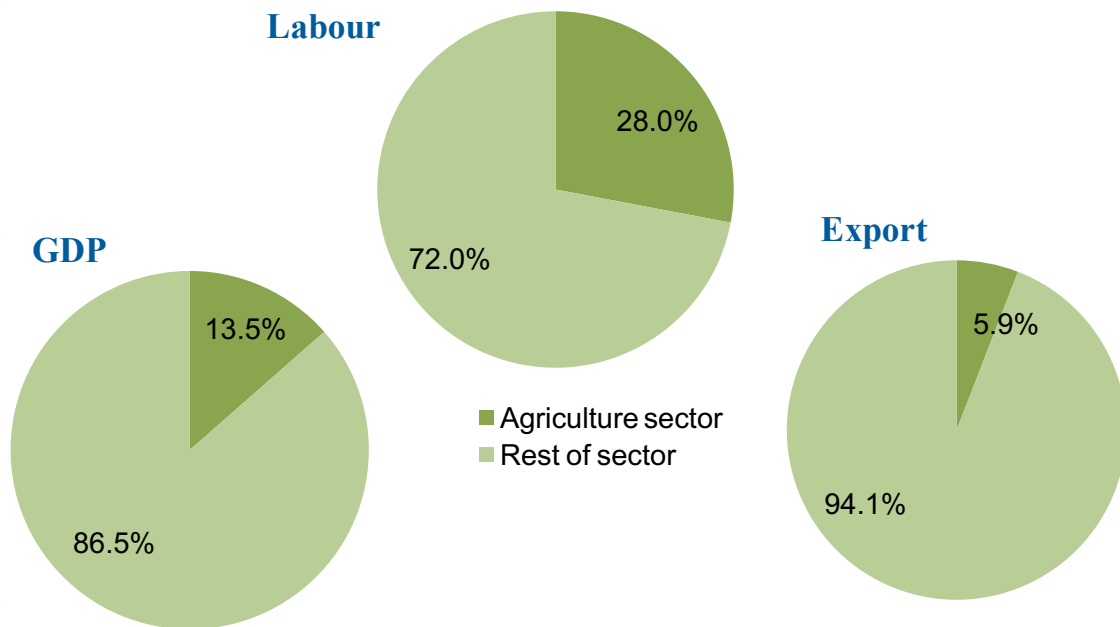
Ministry of Green Development, Environment and Tourism	Administration of Land affairs, Geodesy & Cartography
1. Forest land, its usage	2. Unified land territory





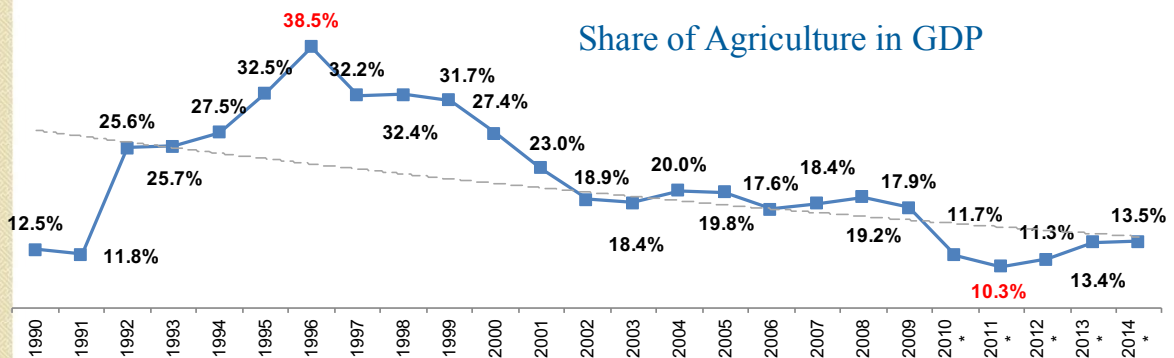
## II. LIVESTOCK SECTOR IN ECONOMY OF MONGOLIA

## Share of the Agricultural Sector in the Economy of Mongolia in 2014



## II. LIVESTOCK SECTOR IN ECONOMY OF MONGOLIA

## Share of Agriculture in GDP



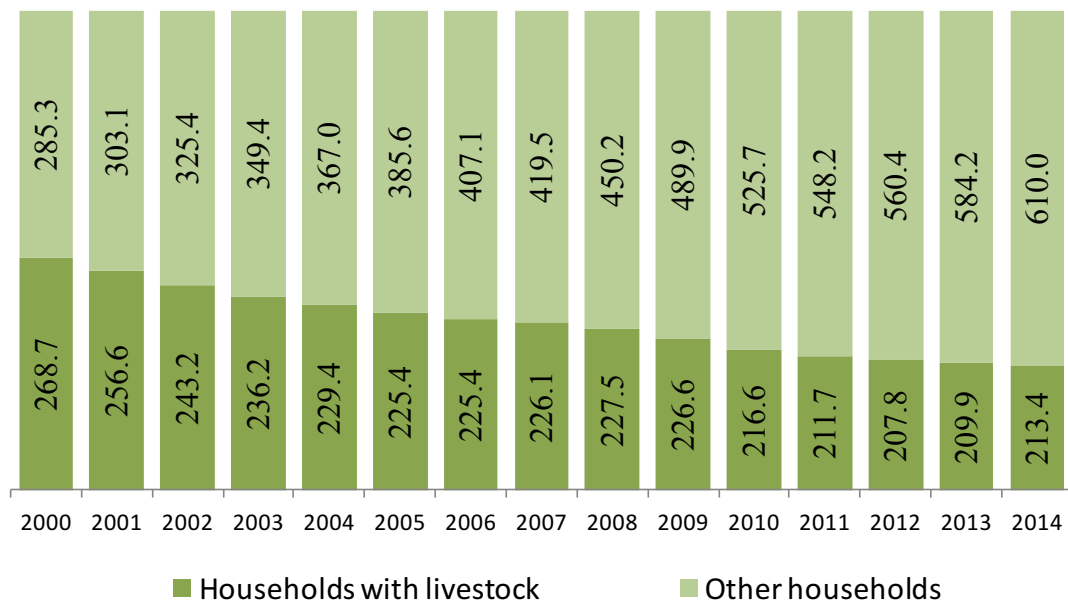
Industries	2010	2011	2012	2013	2014
GDP*, at current and market prices, mln.tog	9 756.6	13 173.8	16 688.4	19 174.2	21 975.5
Agriculture, hunting, forestry	1 144.7	1 357.9	1 878.9	2 572.0	2 972.8
Livestock	976.3	1 238.8	1 701.7	2 316.4	2 661.5
Crop	140.1	98.3	137.3	226.0	298.5
Forestry	24.6	20.5	39.5	29.6	11.7
Hunting	3.7	0.3	0.3	0.0	1.0
Fishery	0.0	0.0	0.0	0.0	0.0

\*Based on SUT results



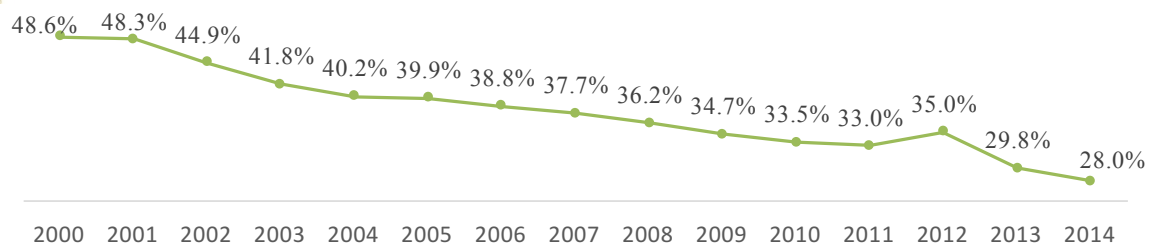
## II. LIVESTOCK SECTOR IN ECONOMY OF MONGOLIA

Number Households with Livestock in Total Households

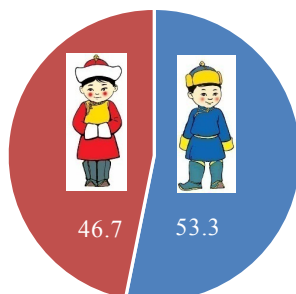


## II. LIVESTOCK SECTOR IN ECONOMY OF MONGOLIA

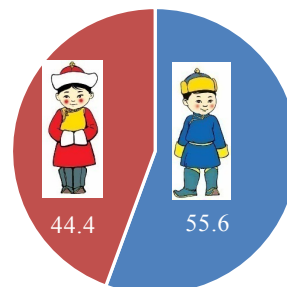
Share of Agricultural Employed Persons in Total Employment



Total Employees, 2014



Agricultural Employees, 2014



**II. LIVESTOCK SECTOR IN ECONOMY OF MONGOLIA****Output of Main Agricultural Products**

Commodities	2010	2011	2012	2013	2014*
Meat, slaughter weight, thous.t	241.0	210.0	263.4	299.3	294.5
beef	45.1	54.8	59.7	57.7	54.7
sheep & goat	126.9	123.1	123.5	155.0	153.2
Milk, thous.t	365.7	458.9	588.0	667.0	765.4
Wool & cashmere, thous.t					
wool	18.4	18.9	18.6	21.7	23.9
cashmere	6.5	4.4	6.3	7.0	7.7
Hide and skin, mln.pcs**	8.1	8.7	7.8	9.9	9.3
Potato	168.0	201.6	245.9	191.6	161.5
Vegetables	82.3	99.1	99.0	101.9	104.9

\* preliminary results

\*\*including lamb and kid skin

**II. AGRICULTURE IN ECONOMY OF MONGOLIA****Main Agricultural Products Per Capita**

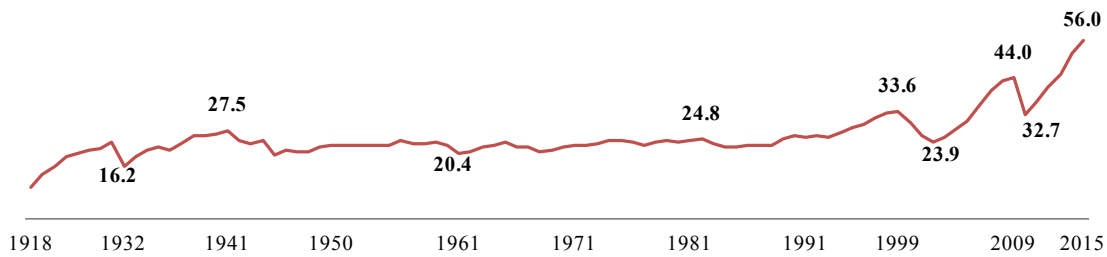
Commodities	2010	2011	2012	2013	2014*
Meat, slaughter weight, kg	73.5	90.2	92.8	103.2	99.4
Milk, t	123.6	190.2	207.1	230.1	258.3
Egg, pcs	20.0	25.0	20.0	22.0	24.0
Cereals, kg	129.6	144.4	152.4	120.8	175.1
Potato, kg	61.3	72.4	86.6	66.1	54.5
Vegetables, kg	30.0	35.6	34.9	35.1	35.4

\* preliminary results



## II. AGRICULTURE IN ECONOMY OF MONGOLIA

### Number of livestock reached 56.0 mln.heads for the first time in history



### Number of Livestock, type, thous.heads

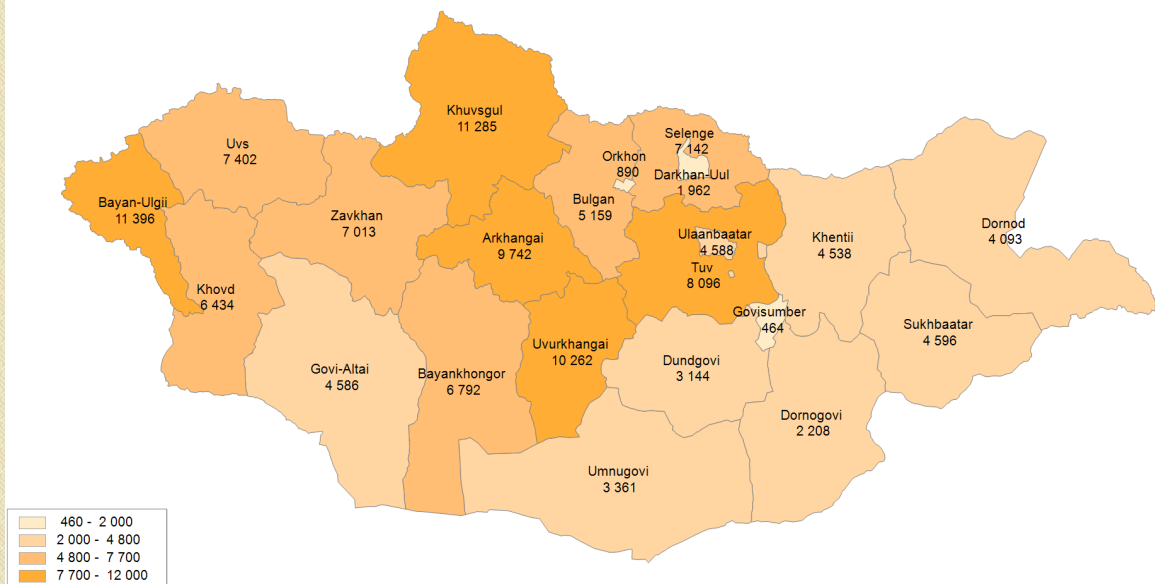
	2012	2013	2014	2015
Total	40 920.9	45 144.3	51 982.6	55 957.6
Horse	2 330.4	2 619.4	2 995.8	3 294.6
Cattle	2 584.6	2 909.5	3 413.9	3 779.5
Camel	305.8	321.5	349.3	367.9
Sheep	18 141.4	20 066.4	23 214.8	24 933.4
Goat	17 558.7	19 227.6	22 008.9	23 582.2

### Number of livestock was highest in the years, thous.heads



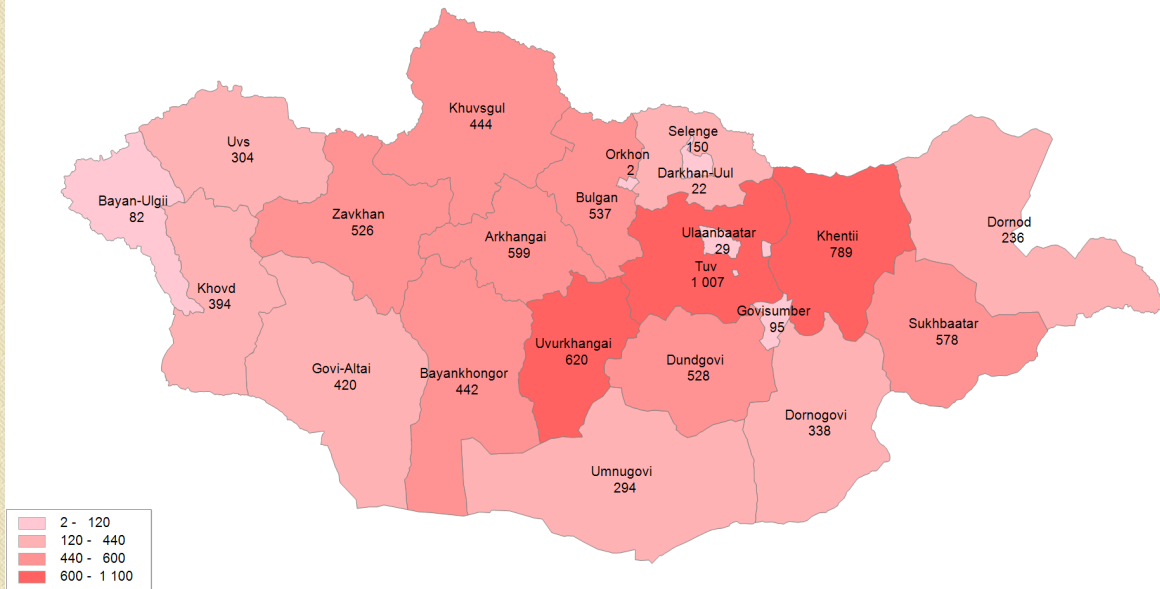
## II. AGRICULTURE IN ECONOMY OF MONGOLIA

### Number of Households Which Has Up To 200 Heads of Livestock, by provinces





## II. AGRICULTURE IN ECONOMY OF MONGOLIA

Number of Households Which Has More Than 1000 Heads of Livestock,  
by provinces

## II. AGRICULTURE IN ECONOMY OF MONGOLIA

## Average daily yield of cow milk, by regions, 2011

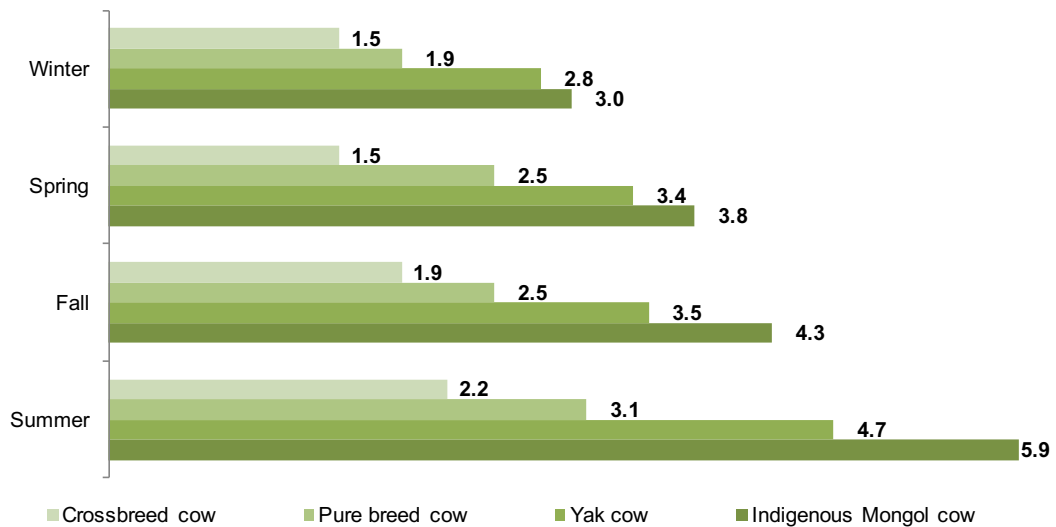
Breed type	National average	Regions			
		Khangai	High mount	Steppe	Gobi
Indigenous Mongol cow					
Average daily output, liters	2.6	2.6	2.3	2.8	2.3
Milking times a year, mounts	6.7	6.8	7.2	6.5	5.7
Yak cow					
Average daily output, liters	1.8	1.9	1.7	1.7	2.0
Milking times a year, mounts	6.7	6.0	7.2	5.1	6.3
Pure breed cow					
Average daily output, liters	4.4	4.5	-	4.4	3.4
Milking times a year, mounts	8.2	8.4	-	8.1	10.0
Crossbreed cow					
Average daily output, liters	3.7	3.7	3.9	4.4	-
Milking times a year, mounts	8.7	8.5	9.3	8.0	-





## II. AGRICULTURE IN ECONOMY OF MONGOLIA

## Average Daily Yield of Cow Milk, by type of breed and regions, liters, 2011



## II. AGRICULTURE IN ECONOMY OF MONGOLIA

## Average Yearly Milk Output of Female Animals, Except Cows, by type of breed and seasons, 2011

Breed type	National average	Regions			
		Khangai	High mount	Steppe	Gobi
Mare					
Average daily output, liters	2.4	2.3	2.5	2.2	2.9
Milking times a year, mounts	2.9	3.1	2.9	2.3	3.0
She-camel					
Average daily output, liters	1.0	0.9	1.0	0.7	1.0
Milking times a year, mounts	5.2	5.8	3.9	3.6	7.4
Ewe					
Average daily output, liters	0.3	0.3	0.3	0.4	0.2
Milking times a year, mounts	2.1	1.8	2.3	2.3	2.1
Nanny-goat					
Average daily output, liters	0.3	0.3	0.3	0.4	0.3
Milking times a year, mounts	3.1	2.4	3.7	2.2	3.8



## II. AGRICULTURE IN ECONOMY OF MONGOLIA

### Average Yearly Yield of Wool, Cashmere, Hair and Shed Hair, by types of livestock and regions, grams, 2011

	National average	Regions			
		Khangai	High mount	Steppe	Gobi
Camel wool, young age	4 053	3 225	3 998	4 329	4 550
Camel wool, matured	5 050	4 465	5 241	5 124	5 262
Sheep long wool	1 279	1 230	1 465	1 092	1 397
Sheep short wool	463	440	528	419	496
Lamb wool	408	373	482	363	445
Cashmere	416	336	431	446	494
Goat hair	239	249	224	251	241
Large animal shed hair	408	429	445	328	346
Large animal hair	314	319	364	218	358



## III. WAY TO FOREWORD AND CHALLENGES

- ✓ Conduct by census related surveys
- ✓ Compile survey results and produce reports
- ✓ Reflect survey results to GDP estimations and SUT
- ✓ Develop and produce SDG indicators
- ✓ Develop NSDS
- ✓ Train staff
- ✓ Develop methodology or guidelines to measure productivity



## HOW TO GET STATISTICAL DATA



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