



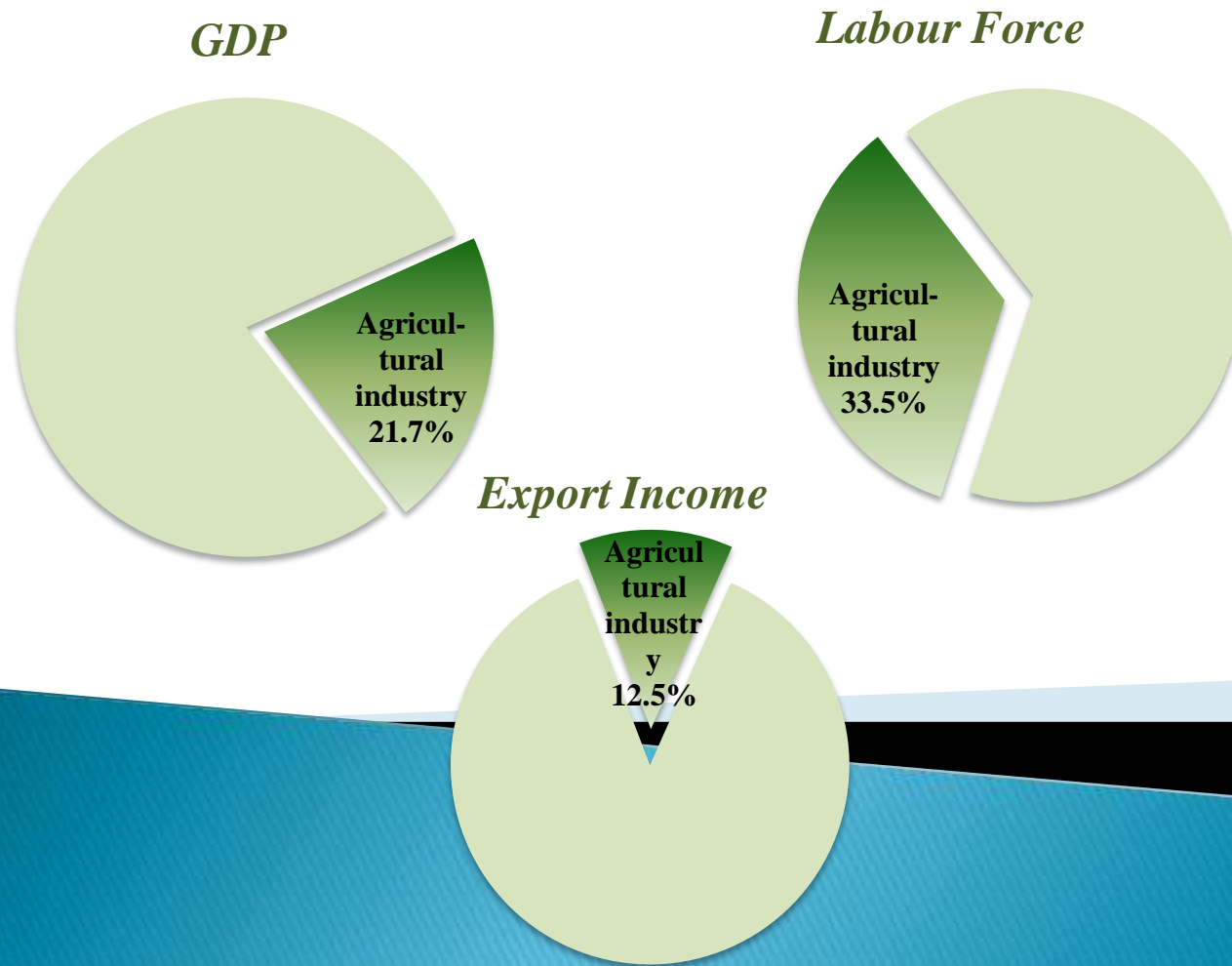
MINISTRY OF INDUSTRY AND AGRICULTURE

# STATISTICS SYSTEM FOR AGRICULTUREAL MECHANIZATION IN MONGOLIA

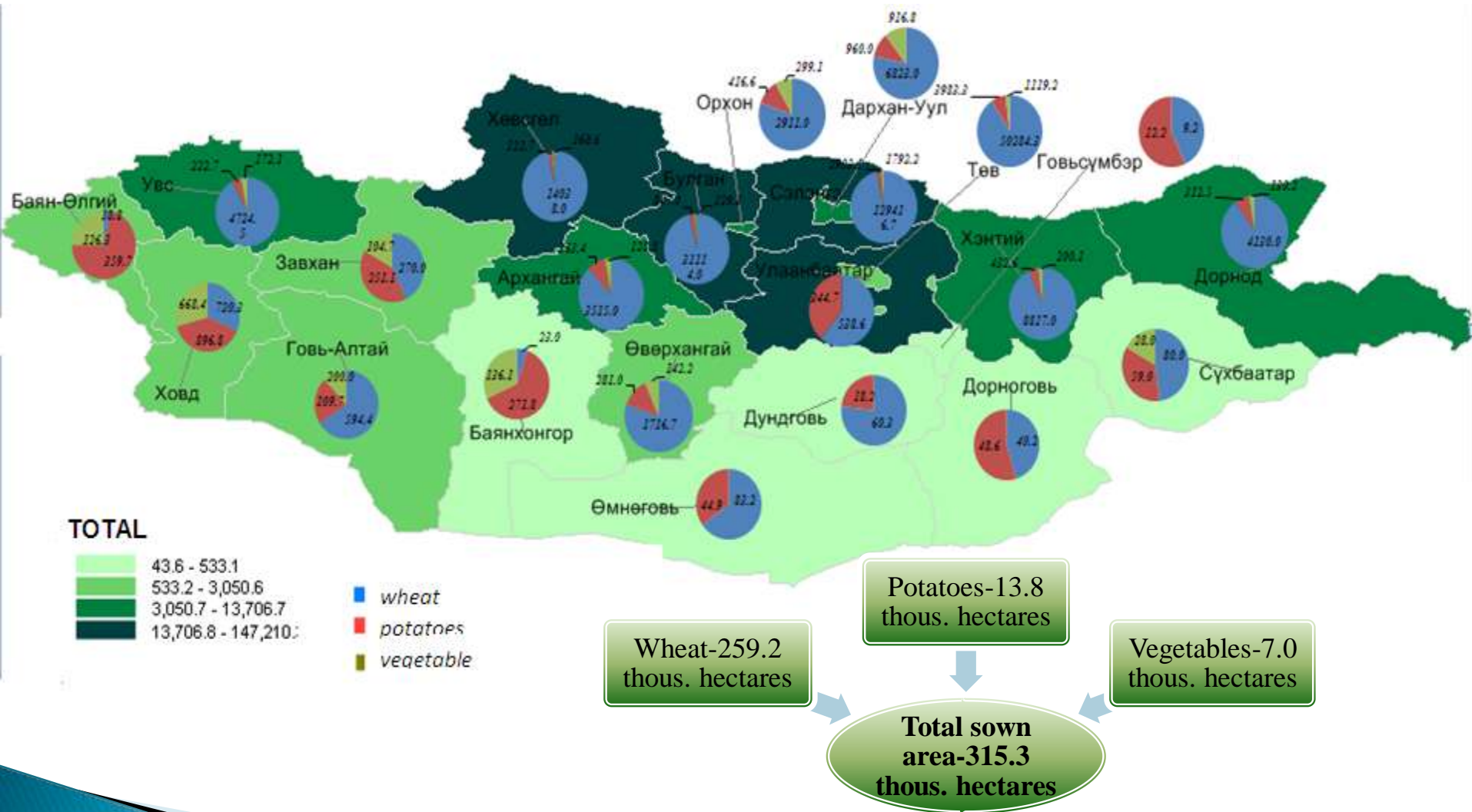


# I. SYSTEM AND CURRENT STATUS OF AGRICULTURAL STATISTICS

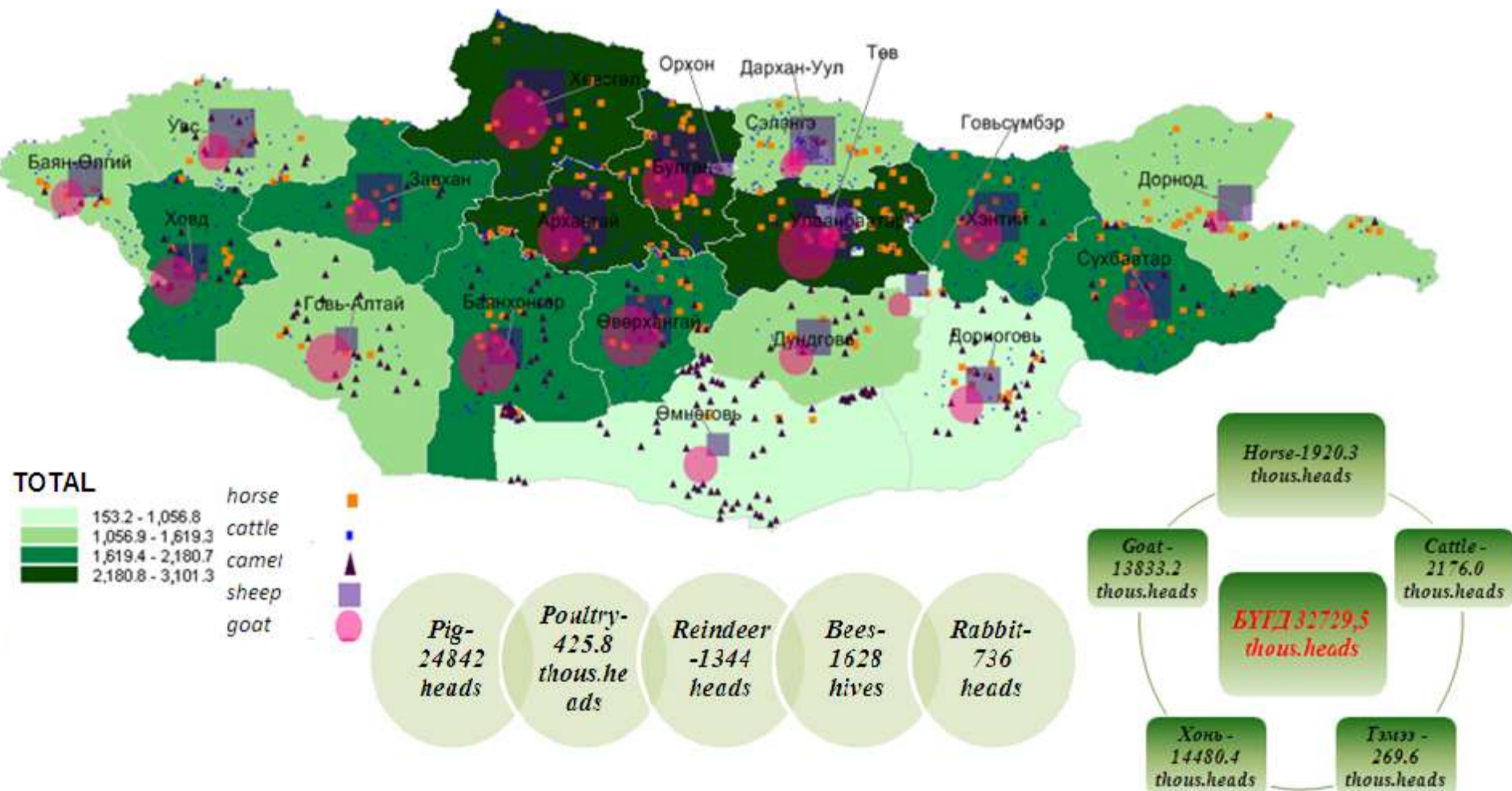
## I.1 Share of the agricultural industry in the economy of Mongolia (2013)



### 1.3 Crop sector of Mongolia (2013)



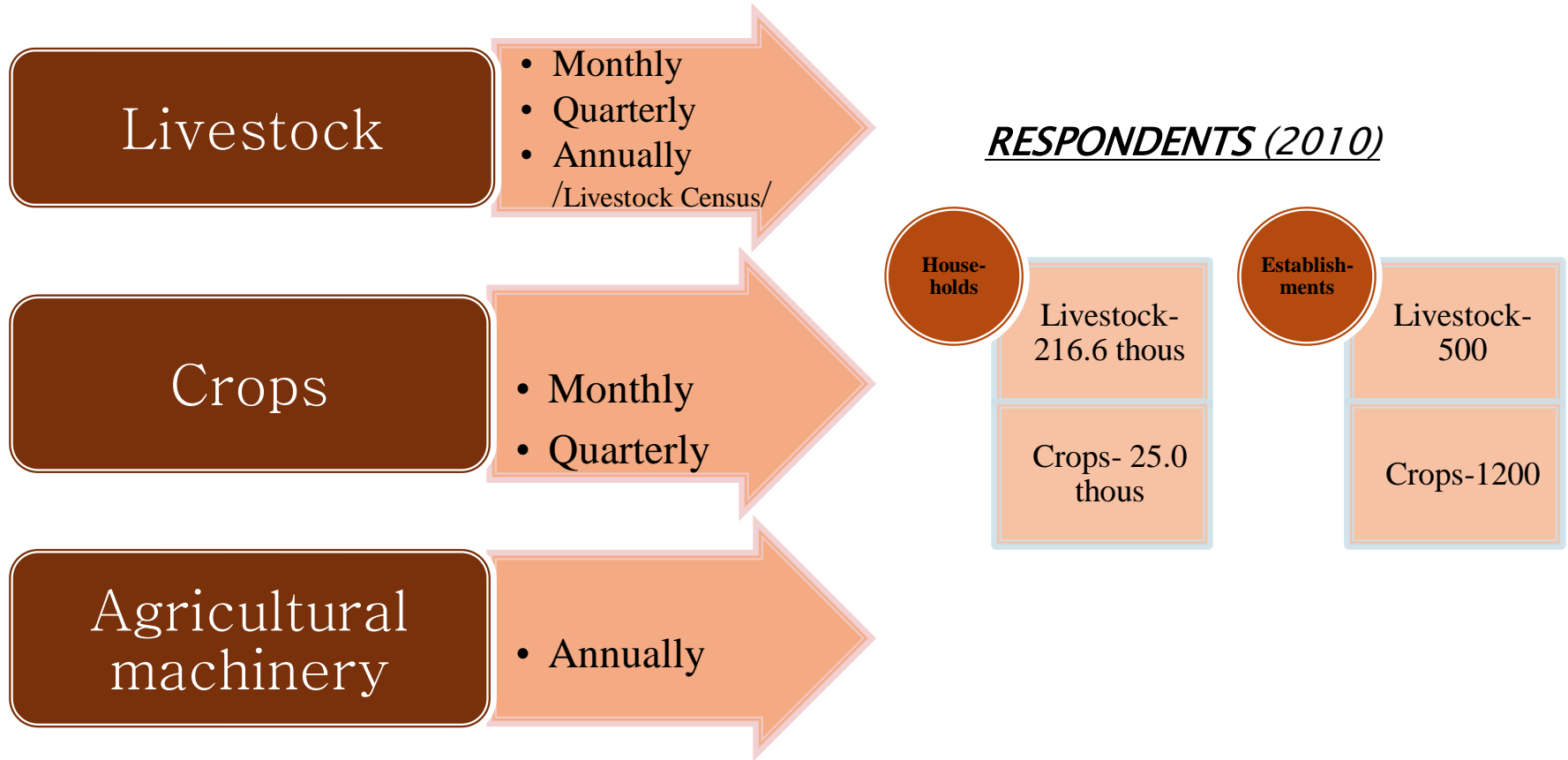
## 1.2 Livestock sector of Mongolia (2013)




## Agricultural Statistics in Mongolia

- An annual livestock census has been conducted in the country since 1924. Crop sector development has started as nationwide only on second half of 20<sup>th</sup> century. From 1970 started crop sector census in Mongolia
- However, crop and ag.machinery statistics are based on administrative reporting system whose reliability is questionable.
- The Government expressed its desire to improve and strengthen its agricultural statistics service and adopt a programme which conforms to international standards.
- The Government is widening the scope of current livestock census to that of an agricultural census.
- FAO has been assisted NSO since 2009 in integrating the 2010 Population and Livestock Censuses to build a sound household frame for the agricultural census.
- The censuses will be linked through a unique household identification number. This will avoid duplication of efforts

## 1.4 System of the agricultural statistics



## 1.5 Current needs for the agricultural statistics

- ❖ Generation of agricultural statistics at primary unit level;
  - ❖ Establishment of a frame for sample surveys for the agricultural industry;
  - ❖ Creation of a database which provides detailed and exhaustive data on the agriculture that are internationally comparable and meet user demands; and
  - ❖ Development of additional indicators such as for Millennium Development Goals, food security, and agricultural services and creation of the possibility of making poverty analysis of them.
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## III.2 The Agricultural Census in Mongolia

### ❖ **Agrciultural Census:**

- Frequency and type:
  - Census every 10 years;
  - By-census every 5 years; and
  - Livestock and Domestic Animal Census every year.
- Coverage:
  - The country as a whole
- Enumeration unit:
  - Households and establishments engaged in agricultural activities
- Activities to be covered:
  - Livestock, crop farming, fishery, forestry, and hunting
- Ways to construct a frame for sample surveys:
  - Population and Housing Census
- Methodology:
  - A combined instrument of the census and the sample survey





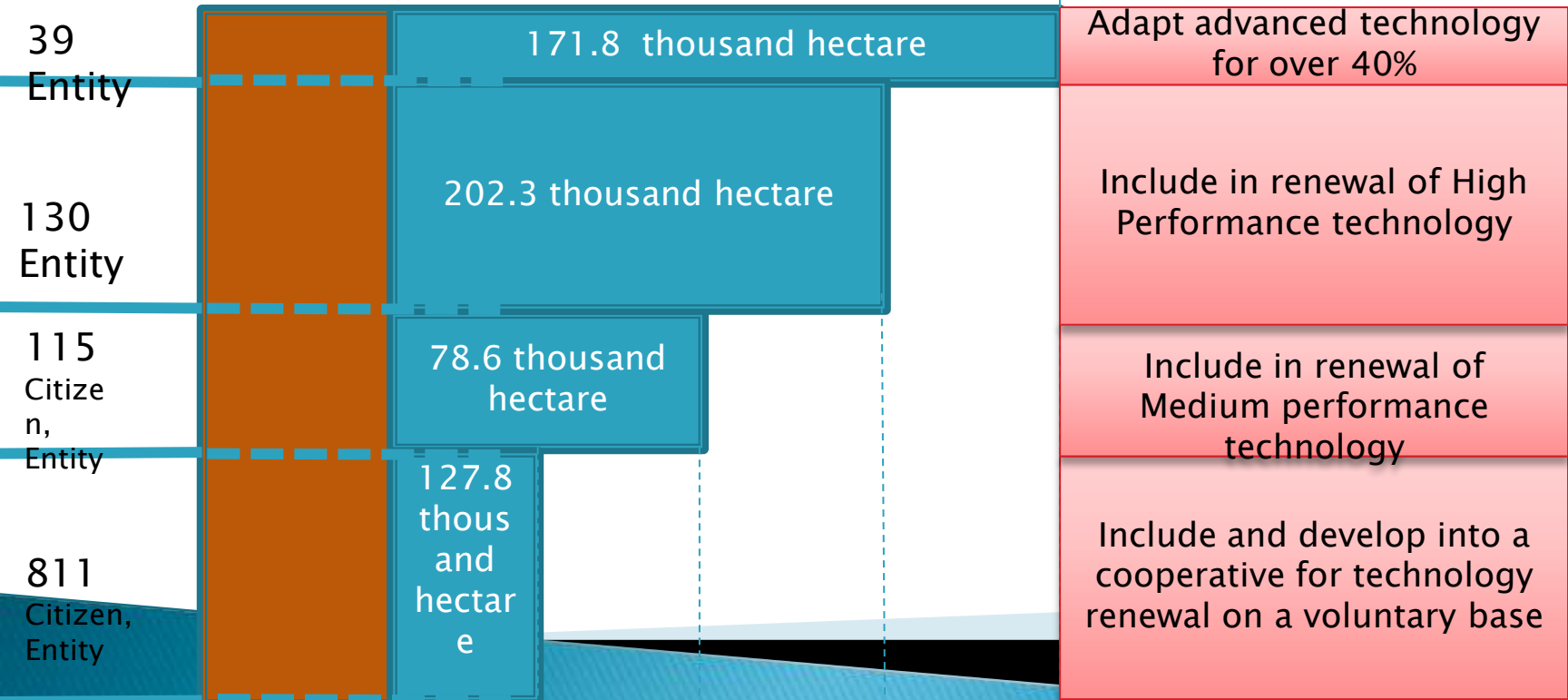
# Grain Production Development, Direction

## Current extent

Distribution Field– 622.9 thousand hectare  
 Crop– 475.9 thousand hectare

## Goal

Distribution Field– 765.0 thousand hectare  
 Crop– 610.0 thousand hectare



Citizen–431  
 Entity–660  
 Total–1091

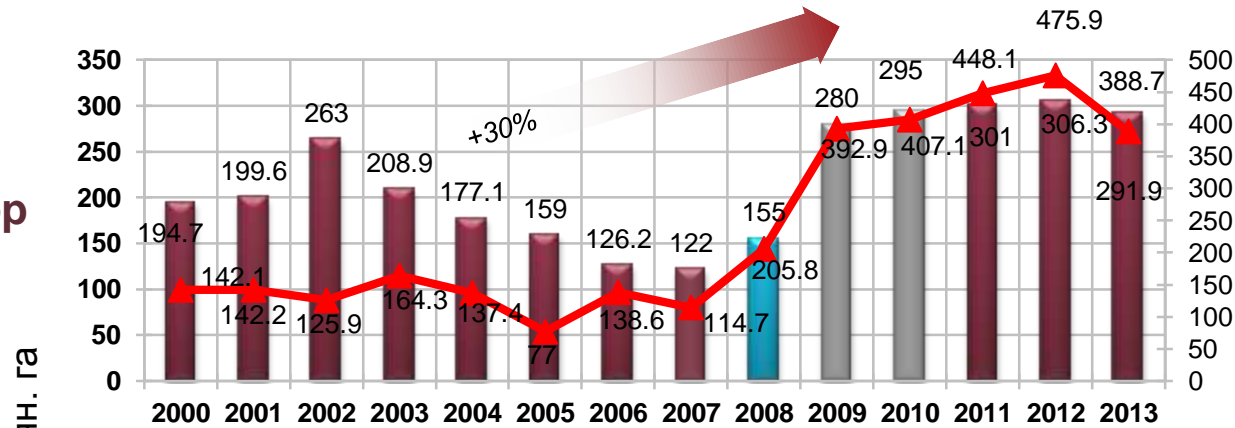
≤ 500 hec.    501 –999 hec.    1000–2999 hec.    ≥ 3000 hec.

# Agricultural mechanization statistical data

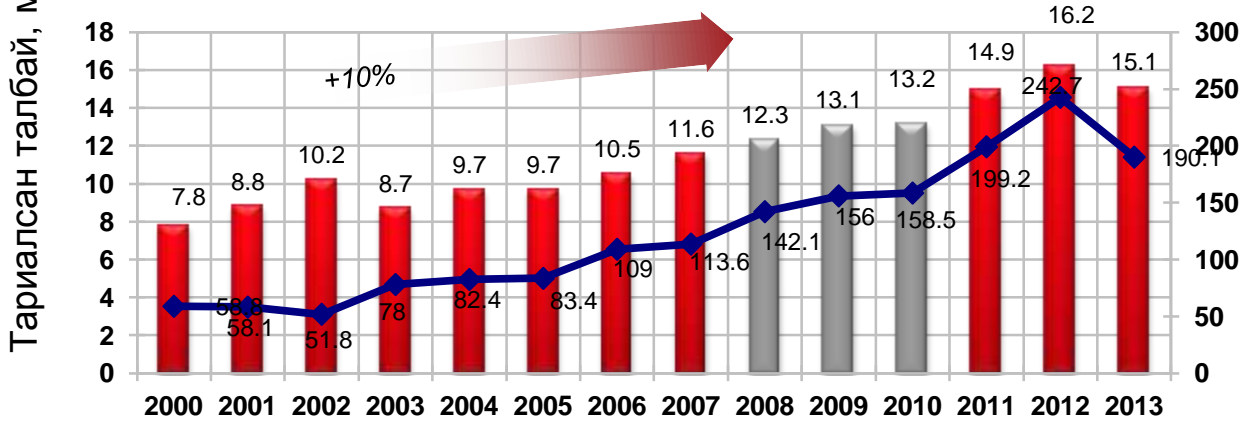
дд	Technical name	Total	Technical condition (by year)					
			1-4r year	5-8 year	9-12 year	13-16 year	17-20 year	20-more year
1	Tractors (100hp above)	1778	302	356	320	267	302	231
2	Tillage machinery	1277	230	255	192	217	230	153
3	Seeder	2009	261	342	362	442	402	201
4	Sprayer	358	47	61	64	79	75	72
5	Sprayer(fertilizer)	34	4	7	6	7	6	3
6	Ангилангийн жатка	568	68	85	68	119	136	91
7	Combine harvester	1127	158	180	203	248	192	147
8	Fodder combine	24	2	6	7	5	3	
<b>Total</b>		<b>7,175</b>	<b>1073</b>	<b>1292</b>	<b>1222</b>	<b>1383</b>	<b>1347</b>	<b>898</b>

# GRAIN PRODUCTION BY YEARS

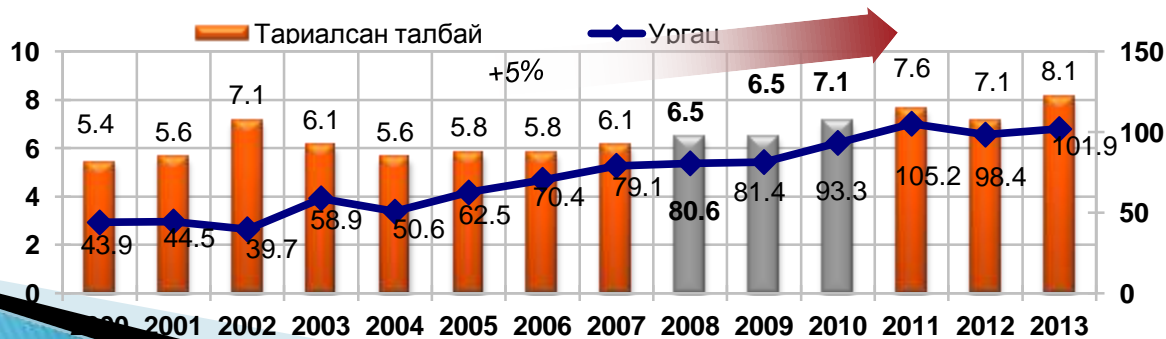
Grain crop



Potato



Vegetable



Хураан авсан ургац, мян. тн

## *Farm mechanization and its future trend and goal*

	Farm machinery	By 2013	Үүнээс		Renovation , planned %	2014-2018 онд хийх парк шинэчлэлт			2018	Агротехнологийн хугацаа, хоног
			Machinery in bad condition	In good condition		quantity	Санхүүжилт /сая төг/			
							Appr. price	total		
1	Tractor	1778	790	988	55.5	549	136.3	74,835.0	1537	
2	Tillage machinery	1277	720	557	53.6	774	33.0	25,525.0	1331	7
3	Seeder	2009	1,253	756	47.1	748	33.3	24,890.0	1504	10
4	Sprayer	358	129	229	45.0	200	31.5	6,290.0	429	7
5	Fertilizer application equipment	34	10	24	41.0	120	10.0	1,200.0	110	7
6	Reaper	568	372	196	34.5	415	37.7	15,661.0	611	7
7	Combine harvester	1127	580	547	48.5	469	203.5	95,433.0	1016	21
8	Corn harvester				-	50	99.1	4,953.0	50	10
9	Fodder harvester	24	6	18	55.0	99	94.3	9,340.0	115	10
<b>Total</b>		<b>7,175</b>	<b>3,860</b>	<b>3,315</b>	<b>47.5</b>	<b>3,424</b>		<b>258,127.0</b>	<b>6,703</b>	

## The Agricultural Census in Mongolia

### ❖ Indicators of the Agricultural Census

#### ◦ Core data items to be collected through Core Census Module:

- *Identification and location of agricultural holdings;*
- *Legal status of agricultural holders;*
- *Age and sex of agricultural holders and households members, household size;*
- *Main purpose of production of holdings;*
- *Area of holdings according to land use types;*
- *Total area of holdings and land tenure types;*
- *Presence of irrigation on holdings;*
- *Types of temporary and permanent crops on holdings*
- *Number of animals on holdings for each livestock type*
- *Presence of forest land on holdings; and*
- *Other economic production activities of holdings' enterprise (fishery and hunting)*

## III.2 The Agricultural Census in Mongolia

### ❖ **Indicators of the Agricultural Census**

#### ◦ **Thematic modules to be collected through Census Supplementary Modules:**

- *Land (8 items)*
- *Irrigation and water management (10 items)*
- *Crops (12 items including farm machinery )*
- *Livestock (8 items)*
- *Agricultural services (4 items)*
- *Agricultural practices (2 items)*
- *Demographic and social characteristics (5 items)*
- *Farm labour (10 items)*
- *Household food security (11 items)*
- *Forestry (6 items)*
- *Management of the holdings (8 items)*

### Activities undertaken

**Indicators required to prepare the sampling frame**

- Surname and firstname of a household head;
- National ID number;
- Total number of livestock;
- Number of household animals, by thier types; and
- Sown area, by types of plants

Questions on agriculture included in the form for listing of the Population and Housing Census.

Form for listing of housegolds engaged in agricukture and its manual prepared, tested and approved.

**1. Do your household have livestock and household animals?**

- Yes
- No

**2. Did your household sow crops in 2010?**

- Yes

**YES**

хөдөө аж ахуйн үйлдвэрлэл эрхэлдэг  
ӨРХИЙН БҮРТГЭЛ

А/А	Өрхийн тэргүүлэгчийн эхдүгжийн нэр, өөрийн нэр	Регистрийн дугаар	Нийт малын тоо, толгойгоор	ТЭХЭЭВЭР АМЬТДЫН ТОО, толгойгоор							2010 онд тариалсан талбай, метр квадрат				Өрхийн дугаар	Тоологчийн дугаар	Тоологчийн хуудалын дугаар
				ТЭХЭЭВЭР АМЬТДЫН ТОО, толгойгоор		ТЭХЭЭВЭР АМЬТДЫН ТОО, толгойгоор		ТЭХЭЭВЭР АМЬТДЫН ТОО, толгойгоор		ТЭХЭЭВЭР АМЬТДЫН ТОО, толгойгоор		ТЭХЭЭВЭР АМЬТДЫН ТОО, толгойгоор					
				Галыг	Шуугуу	Цага Буяа	Илэвэг	Зөлий (Буя)	Туулай	Бусад	Урвас:	Урвас:	Урвас:	Урвас:			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
1																	

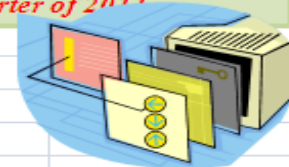
Listing of households engaged in agriculture done during the household listing of the Population and Housing Census. It verified and coded.

### Activities to be undertaken

**To link collected data with "Livestock Census"**

- Name and code of baghs, soums, and aimags;
- Household number; and
- Register number of household heads.

*within 1st quarter of 2011*



**To prepare sampling frames for agricultural census and survey, by households**

*within 2nd quarter of 2011*

**To prepare sampling frames for agricultural census and survey, by enterprises**

*within 2nd quarter of 2011*



## II. DIRECTIONS IN IMPROVEMENT OF AGRICULTURAL STATISTICS

### *II.1 Recommendations from UNFAO*


- ▶ According to a World Programme for the Census of Agriculture 2010, countries are encouraged to conduct their agricultural censuses within the framework of the system of integrated agricultural censuses and surveys.

Two elements in the system of integrated agricultural censuses and surveys. They are as follows:

- (1) the agricultural census: the nucleus of the system; and
  - (2) the programme of agricultural sample surveys based on the agricultural census.
- ▶ A modular approach is recommended to those that wish to meet the need for a wider range of data from the agricultural census while minimizing the costs of the census-taking.



## II. DIRECTIONS IN IMPROVEMENT OF AGRICULTURAL STATISTICS

- ▶ As the agricultural census taking is a resource-intensive exercise, the World Programme for the Census of Agriculture recommends that the agricultural census should be conducted in conjunction with or during other censuses and in the particular population and housing census.
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## II. DIRECTIONS IN IMPROVEMENT OF AGRICULTURAL STATISTICS

### II.2 Strategy for improving the agricultural statistics of the country

- ❖ Study and employ new methods and techniques for collecting data and update the system of indicators

***Conduct the agricultural census***