Country Presentation Paper
(China)
The 10th Session of the Technical Committee of CSAM & Regional Workshop on Establishing a Regional Database of Agricultural Mechanization in Asia and the Pacific
17-19 November 2014
Siem Reap, Cambodia

By Chang Xiongbo
China Agricultural Machinery Testing Centre

Overview of the statistics system for agricultural mechanization in China

a) Responsible agency

- **In China, The responsible agency of the statistics system for agricultural mechanization is the Department of Agricultural Mechanization Management, Ministry of Agriculture.**

- **At the same time, China also has respective divisions and staff responsible for agricultural mechanization statistics in each province, area city, county, and town.**

- **The perfect statistics sections and staff built a perfect basis for agricultural mechanization statistics.**

b) Channels, ways and frequency to collect, report and disseminate the agricultural mechanization statistics

- **In China, agricultural mechanization statistics is implemented by responsible sections according to the statistic template, the contents, dimensions, definitions etc regarding statistics are very clear, identical and easy understanding.**

- **The procedure of statistics in China is from low level to middle level, and then to the top level, the statistic road like the shape of Pyramid.**

- **China implements agricultural mechanization statistics once every year, statistics of current year will start in the second quarter of next year.**

Step 1, the staff in each town operate local area statistics in accordance with the template, the statistics data of each town was founded.

Step 2, the staff in each town submits local statistics data to the department of agricultural mechanization management of Local County; the county level department collects each town's statistics data and builds the county level statistics data.

Step 3, the staff in each county submits county data to the department of agricultural mechanization management of local city, the city level department collect each county's data and build the city data.

Step 4, the staff in each city submits local statistics data to the department of agricultural mechanization management of local province, the province level department collect each city's data and build the province data.

Step 5, the staff in each province submits local statistics data to the department of agricultural mechanization of MoA, MoA collect each province's data and build the nationwide data.

Step 6, the department of agricultural mechanization of MoA check and verify the whole statistics data, and then publish statistic data book.

C) Quantity and quality of agricultural mechanization statistics

- In china, the content of agricultural mechanization statistics is very wide and particularity, it includes 9 aspects

- 1. The amount of institution and staff of agricultural mechanization system

- 1.1 the amount of administration institution and staff (province level, city level, county level, town level)

- 1.2 the amount of agricultural mechanization education & training institution and staff (including colleges and schools)

- **1.3 The amount of agricultural mechanization scientific research institution and staff (province level, city level)**

- **1.4 The amount of agricultural mechanization test station and staff (province level, city level)**

- **1.5 The amount of agricultural mechanization extension institution and staff (province level, municipal level, county level)**

- **1.6 The amount of agricultural machinery safety supervision institution and staff**

- **2. Amount of agricultural mechanization service organization and staff**
- **2.1 The amount of agricultural mechanization organization and staff for agriculture production service**
- **2.2 The amount of agricultural mechanization organization and staff for medium service**
- **2.3 The amount of agricultural machinery maintenance and repair station and staff**
- **2.4 The amount of agricultural machinery dealer and staff**
- **2.5 The amount of agricultural machinery fuel station and staff**
- **2.6 The amount of tractor driver training school and staff**
- **2.7 The amount of agricultural machinery staff work in village**

- **3. Amount of agricultural machine**
- **3.1 Total power of agricultural machine**
- **3.2 The amount of tractor and its mating tools**
- **3.3 The amount of planting and seeding machine**
- **3.4 The amount of machine for agricultural products pre-process**
- **3.5 The amount of animal feeding machine**
- **3.6 The amount of fish feeding machine**
- **3.7 The amount of forestry and fruit machine**
- **3.8 The amount of transportation machine**

- **4. Data of agricultural mechanization area**
- **4.1 Area of agricultural mechanization**
- **4.2 Area of agricultural mechanization for main crops**
- **5. Data of agricultural mechanization management and service**
- **5.1 The amount of trainee for agricultural mechanization**
- **5.2 The amount of maintained or repaired machine**
- **5.3 The amount of certification for agricultural machinery homologation**
- **5.4 The equipment amount for agricultural machinery supervision**

- **6 Investment data for agricultural mechanization**
- **6.1 The amount of total investment**
- **6.2 The amount of money invested by government**
- **6.3 The amount of money invested by institutions and communities**
- **6.4 The amount of money invested by private**
- **7.Data of agricultural mechanization interest**
- **7.1The amount of total income**
- **7.2 The amount of total cost**
- **7.3The amount of total interest**
- **8.The data of fuel consumption for agriculture production**
- **9.The data of accident caused by agricultural machine**
- **In china, agricultural mechanization statistics is taken the method of statistics staff responsible for data; the statistics quality is believable and reliable.**

C) Does agricultural census cover component of agricultural mechanization?

- In china, agricultural census covers some important data of agricultural mechanization, but not all data. Compare with agricultural census, the agricultural mechanization statistics data is more detail and comprehensive.

Gaps and Needs
a) What are the challenges and constraints for the statistics collection and management?

- **China started agricultural mechanization statistics several decades ago, after long time development and improvement, China has established a perfect and suitable statistics system including institutions, staff, and template etc, the statistics system works smoothly and efficiency.**

- **On the other hand, Chinese government pays more attention and devotes great effort, finance and time to statistic work.**

- **The statistics data of agricultural mechanization provides great help to government, enterprise, farmer and agriculture production.**

Solutions and Suggestions
a) How to improve the current statistics collection and management?

- **Firstly CSAM should have the right to share or use the statistic data from member country.**

- **Secondly CSAM should build a simple statistics template, identify the statistic content and dimension.**

- **Thirdly the statistics template from CSAM should be similar to member countries' in order to avoid data collected again.**

- **The statistics template should be from simple to complex, from small to big, improve and perfect step by step.**

b) Needs and feasibility of establishing a regional database of agricultural mechanization in Asia and the Pacific

- A regional data of agricultural mechanization in Asia and the Pacific is helpful to know other country's agricultural mechanization development status, to promote agricultural trade and to promote the level of agricultural mechanization.

- At the same time to implement such task needs great support from all member countries, financial support also is necessary.

- At beginning, we had better build a simple and small template and develop it later.

- It is a great challenge if we start with a wide range and large content.

- **C)** How you could contribute to the proposed regional database of agricultural mechanization?

- I am willing to contribute my effort to build the statistic template and frame.

Thanks for your attention

16th Nov. 2014