

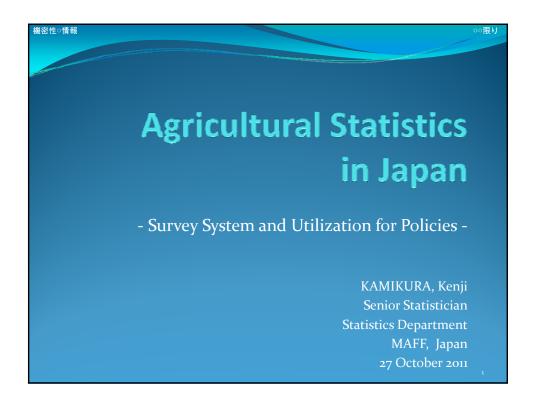
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Agricultural Statistics in Japan - Survey System and Utilization for Policies

Submitted by: Japan



Workshop to Assess and Improve Agricultural Data Collection and Dissemination by APEC Member Economies Manila, Philippines 27-28 October 2011



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Challenge of Japan after WW 2

- Because of serious food shortage, Japan had to make an accurate supply and demand plan for providing people with rice.
- In 1945, the statistics showed the production of rice was 5.9 million tons which was far shorter than real production.
- The fact is that farmers declared less production than real one because they did not want to deliver rice to government under the compulsory delivery system.
- The government had to cope with the problem.

Challenge of Japan after WW 2

- Establishment of New Organization to Conduct Survey by the Staff of the Ministry of Agriculture and Forestry
 - The Ministry of Agriculture and Forestry directly controlled crop survey.
 - The Ministry established Statistics
 Department within the Ministry which
 was independent from other
 departments.
 - The Ministry established offices all over Japan which collected data directly from farmers or fields.

Challenge of Japan after WW 2

- Providing Accurate Data
 - The Ministry of Agriculture and Forestry introduced the sampling survey with actual measurement
 - Production of rice were estimated based on the result of yield survey through crop cutting and area survey where number of samples were decided to satisfy the aimed precision.

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Present Situation of Statistical **Survey** (in the case of Crop Survey) **Organization of Statistics Department** (As of September 1, 2011) Central Local organizations organization (Regional level) (Prefecture / Sub-Prefecture level) Regional **Statistics** Agricultural Area Center / Branch Department Administration MAFF (69 centers* + 38 branches) Office (Head Office) (9 offices*)

Present Situation of Statistical Survey (in the case of Crop Survey)

Flowchart of Area Survey

To prepare population, i.e. three million "<u>Area Survey Units</u>" one size of which is about 2 ha.



To select sample Area Survey Units to survey



To conduct field survey



To estimate the area by using the ratio of registered area of Area Survey Units and surveyed area of sample Area Survey Units

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Present Situation of Statistical Survey (in the case of Crop Survey)

Flowchart of Yield Survey of Paddy Rice

To prepare Area Survey Unit (same as that for an area survey)

To select sample Area Survey Unit



To select sample lots



To harvest rice in sample lots



To weigh rice after threshing, drying



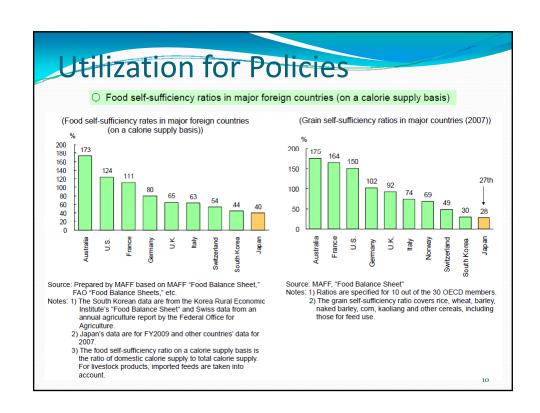
To estimate average yield

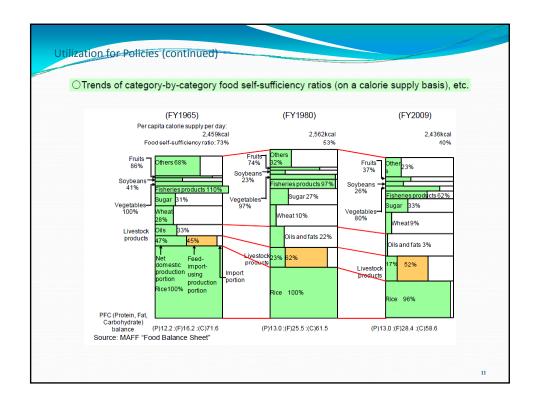
Present Situation of Statistical Survey (in the case of Crop Survey)

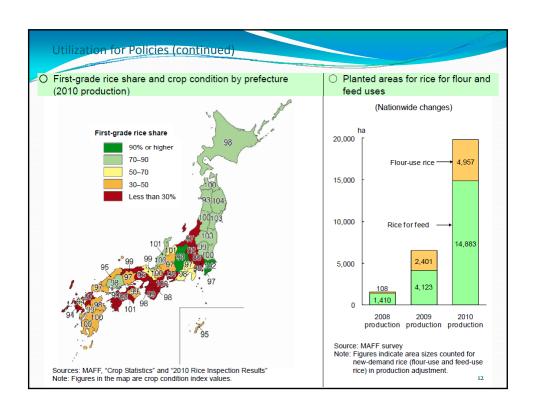
Production Surveys of Other Crops

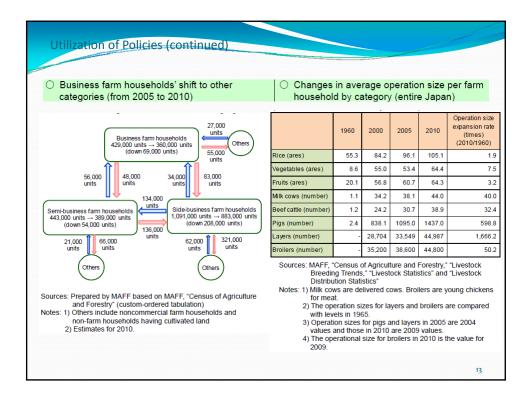
- Wheat, barley, soybean
 Questionnaires in the mail to relevant organizations and sample farmers
- Vegetable, Fruit
 Questionnaires in the mail to shipping organizations and sample farmers
 Checking through patrol
- Tea
 Questionnaires in the mail to sample factories

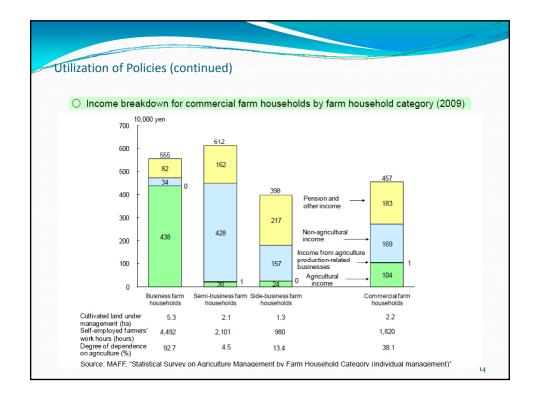
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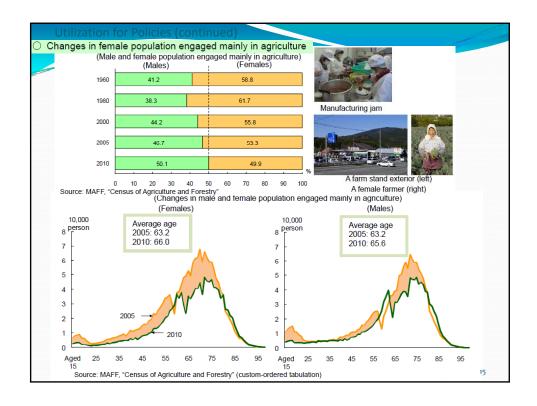


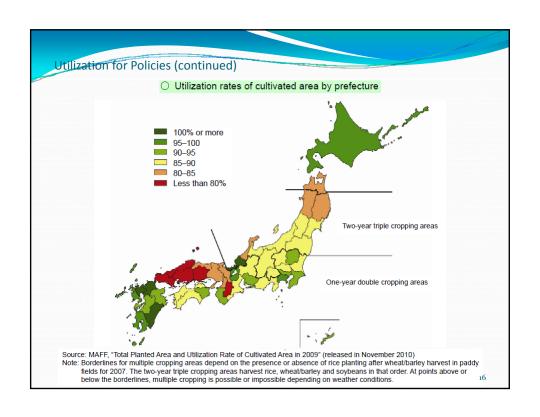












ajor indicators			
	(FY1960)		(FY2009
■ Food self-sufficiency ratio (on a calorie supply basis)	79%	\Rightarrow	40%
■ Food self-sufficiency ratio (on a production value basis)	93%	\Rightarrow	70%
■ Annual per capita net food supply		\Rightarrow	
Rice	114.9kg	\Rightarrow	58.5kg
Meat	5.2kg	\Rightarrow	28.6kg
Milk and dairy products	22.2kg	\Rightarrow	84.8kg
Oils and fats	4.3kg	\Rightarrow	13.1kg%
	(1975)		(2005)
■ Share for non-home meals	28%	\Rightarrow	42%

	(1960)		(2009)
Total agricultural output	1,914.8 billion yen	\Rightarrow	8,049.1 billion yen
Agricultural income	230,000 yen	\Rightarrow	1.04 million yen
Agricultural income/pension and other income	220,000 yen	\Rightarrow	3.52 million yen
Number of farm households	6.06 million	\Rightarrow	1.63 million*1
Population engaged mainly in farming	14.54 million	\Rightarrow	2.61 million ^{*1}
Share for elderly people aged 60 and more	17%	\Rightarrow	74%"1
Share of total working population	33%	\Rightarrow	4%
Cultivated area	6.07 million hectares	\Rightarrow	4.59 million hectares
Abandoned cultivated area	130,000 hectares*2	\Rightarrow	400,000 hectares*1
	(1970)		(2005)
Current status of developing rural living environment			
Paved road ratio	5%	\Rightarrow	68%
Garbage collection ratio	47%	\Rightarrow	93%
Water supply coverage	63%	\Rightarrow	93%
Sewage coverage	1%	\Rightarrow	47%
urces: Ministry of Internal Affairs and Communications, "Popula Production Income Statistics," "Statistical Survey on Far "Cultivated and Planted Land Statistics" te: "1 for 2010 and "2 for 1975			

List of Surveys

Structure

Census of agriculture and forestry
Survey on movement of agricultural structure
Survey of new farmers
Survey of community farming etc.

Economic activities
 Survey on farmers' management and economy
 Survey on prices etc.

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List of Surveys (continued)

- Production
 - Survey on crop

Survey on livestock etc.

- Distribution of food from processing to consumption
 - Survey on food waste

Survey on milk and dairy products

Survey on food prices at various stage of distribution

Survey on wholesale market

Survey on promoting "Sixth Industry" etc.

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List of Surveys (continued)

Forestry

Census of agriculture and forestry
Survey on forestry household economy
Survey on lumber etc.

Fisheries

Census of fisheries

Survey on Fisheries economy

Survey on fisheries production

Survey on marketing of fisheries products etc.

Thank you for your attention

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