



**SCREENING CHAPTER 18
STATISTICS**

**AGRICULTURAL STATISTICS
General Overview**

**Country Session: The Republic of TURKEY
17-18 July 2006**



CONTENT

- Responsible Institutions and Stakeholders
- Present agricultural information system
- Future agricultural information system



Responsible Institution and Stakeholders

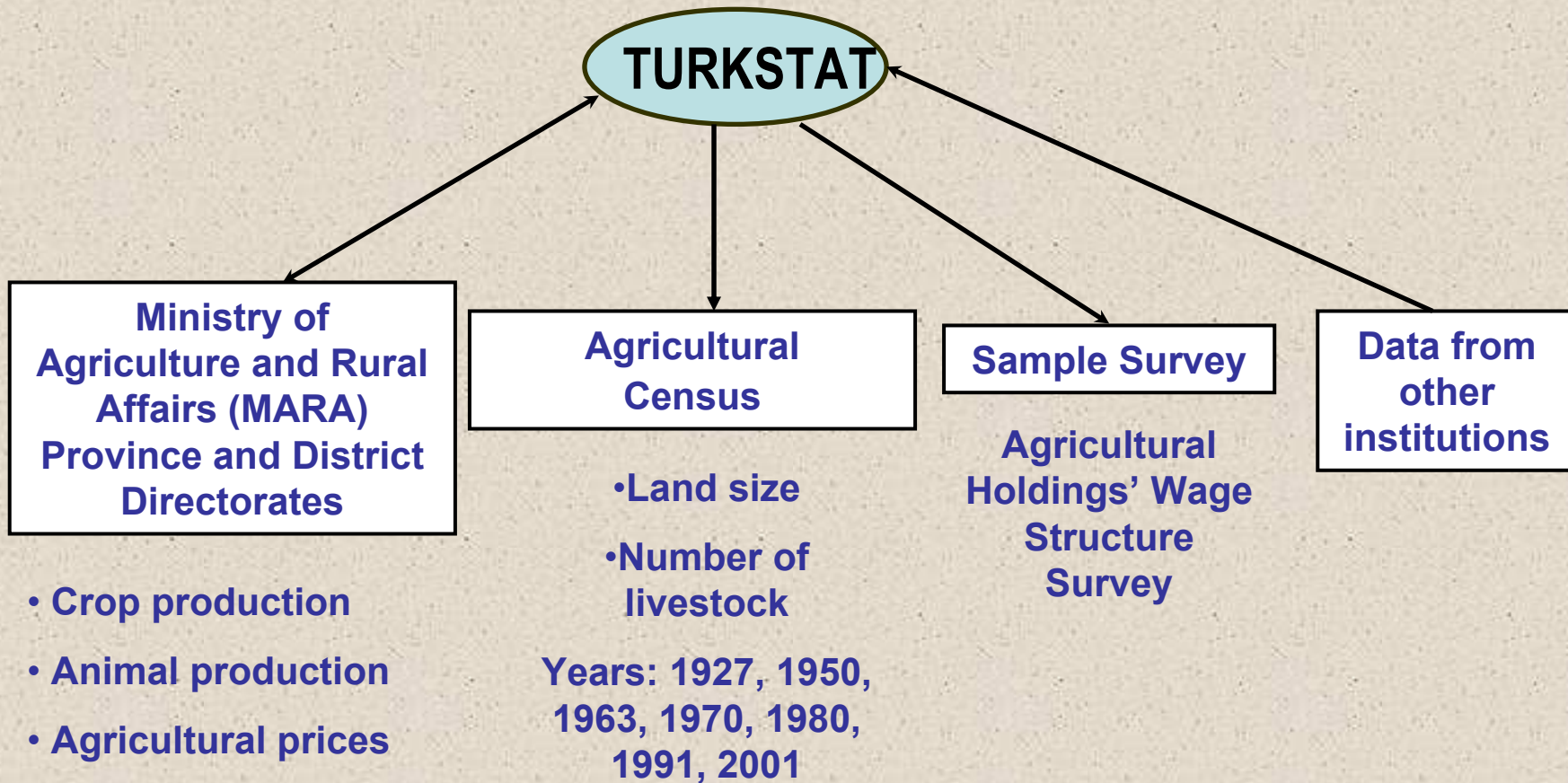
The elaboration of Agricultural Statistics is a joint task of TURKSTAT and Ministry of Agriculture and Rural Affairs (MARA)

- Statistical programme
- Protocols
- Field applications
- Data exchange

Other relevant institutions

- Ministry of Industry and Trade
- Ministry of Environment and Forestry
- Tobacco, Tobacco Products and Alcoholic Beverages Market Regulatory Authority
- Turkish Sugar Authority
- Union of Chambers and Commodity Exchanges of Turkey
- Producer unions

Present agricultural information system





Future agricultural information system

Farm register as the backbone for field applications at holding level for:

- Farm Structure Survey/Census of Agriculture
- Crop Production (Field crops, vineyards and fruit)
- Animal Production
- Agricultural Holdings' Wage Structure Survey



SCREENING CHAPTER 18 STATISTICS

AGRICULTURAL STRUCTURE

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CONTENT

- Agricultural structure statistics
 - Methodology
 - Variables
 - Dissemination
- Current activities
- Setting up farm registers
- Future plans



Agricultural Structure Statistics

Data on the structure of agricultural holdings were obtained from the agricultural census through 2001 Agricultural Holdings (Households) Survey

2001 Agricultural Holdings Survey adopted Farm Structure Survey characteristics in EU regulation as well as FAO recommendations

2001 Agricultural Holdings (Household) Survey

Methodology

- In 2001, a survey was conducted with 50,000 agricultural holdings, selected from the 2001 Agricultural Holdings List (in 5,000 sample villages and district centers having less than 5,000 inhabitants)
- A complete enumeration method was followed for the holdings exceeding a pre-determined threshold (land size and number of livestock) in the province and district centers (more than 5,000 inhabitants)
- The data was compiled from agricultural holdings through face to face interviews



2001 Agricultural Holdings (Household) Survey (cont'd)

Variables

- Legal status of households
- Other activities of households together with crop production and animal husbandry
- Use of land
- By parcel, cultivated land, type of crops, type of seeds, production system, successive cropping, crops under contract and insurance of crops
- Irrigated land and irrigation systems



2001 Agricultural Holdings (Household) Survey (cont'd)

Variables (cont'd)

- Type of fertilizers and pesticides by crop
- Number of agricultural equipment and machinery
- Cultivated land with tractors or animals
- Harvested land with combine harvester
- Number of livestock
- Yield of animal production and fodder consumption
- Buildings and other structures
- Employment status of household members and number of occasional workers in agricultural holdings



2001 Agricultural Holdings (Household) Survey (cont'd)

Dissemination

The results of the survey in provincial level are available in the publication “2001 Census of Agriculture - Agricultural Holdings Survey”



Current activities

- FSS studies have been carried out within the framework of the harmonisation with the EU norms.
- The questionnaire, data entry program, handbook and tabulation have been prepared for FSS, which will be realised by the second half of 2006. In this survey, all of the variables in characteristics list for 2005 will be covered.

Setting up farm registers

- Farm registers are the source of sampling frame for agricultural holdings surveys
- In the 2001 Census of Agriculture, an agricultural holdings list was produced (all villages with less than 25 000 inhabitants). This “Agricultural Holding List” is the first major step in setting up a farm register
- Direct Income Support and a pilot Farm Register System (2001-2004)

Setting up farm registers (cont'd)

- **Farm Register System:** MARA has started to combine and integrate administrative databases since 2005 (e.g. different subsidies, livestock), envisaging the establishment of an IACS → administrative farmers list
- **Transition register:** Currently a “transition” statistical farm register is under construction which is a combination of existing databases (2001 Agricultural Holding Lists, MARA’s Direct Income Support and Farm Register System) and additional specific data collection



Future plans

- Field application for FSS will be conducted in September-October 2006
- The date and format of the next Census of Agriculture is currently under discussion in the context of Official Statistical Program



SCREENING CHAPTER 18 STATISTICS

CROP PRODUCTION STATISTICS

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CONTENT

- Overview
- Responsible Institution and Stakeholders
- Methodology
 - Data Collection
 - Variables
 - Supply Balance Sheets
 - Dissemination
- Future Plans



Overview

Data is available for the period 1926-2005 in crop production statistics

- Data is compiled by TURKSTAT in close cooperation with MARA
- MARA's district directorates estimate total productions for each crop and deliver directly to TURKSTAT, which analyses and publishes the results annually



Responsible Institution

TURKSTAT

Stakeholders

- Ministry of Agriculture and Rural Affairs
- Ministry of Industry and Trade
- Tobacco, Tobacco Products and Alcoholic Beverages Market Regulatory Authority
- Turkish Sugar Authority
- General Directorate of Tea Establishments (Çaykur)



Methodology

Data collection

- Data on cereals and other crops are collected in collaboration between TURKSTAT and MARA
- Data is produced at district level via administrative sources and regional observation by agricultural staff of MARA directorates
- There are three estimations in a year:
 - 1st in August
 - 2nd in November
 - 3rd (final) in March of the following year
- For wheat and barley, area and production are estimated in February for winter sown
- The data is presented to the “Agriculture Statistics Committee” in every estimation period

Methodology (cont'd)

Data collection (cont'd)

- Data on agricultural equipment and machinery are compiled
- Following statistics are directly obtained from MARA annually:
 - Organic crop products
 - Fertilizer and pesticide uses
- Data related to certain crops are directly compiled:
 - Tea from General Directorate of Tea Establishments, Rize Trade Stock Exchange Market and private tea companies
 - Sugar beet, tobacco and poppy from related institutions

Methodology (cont'd)

Variables

- For Field Crops
 - Sown and harvested area
 - Production
 - Yields

- For Fruits
 - Number of bearing and non-bearing fruit trees
 - Fruit production
 - Fruit garden area
 - Yields



Methodology (cont'd)

Variables (cont'd)

- For Vegetables
 - Area and production of vegetables
 - in open field
 - under protective cover
- For Flowers and Ornamental Plants
 - Area and production



Methodology (cont'd)

Variables (cont'd)

In the framework of the 2001 Census of Agriculture (2001 Agricultural Holdings Survey) additional detailed data were obtained for all crops, vineyards and fruits:

- Parcel numbers
- Age of fruit tree
- Irrigated and non-irrigated land
- Production system
- Use of fertilizers (chemical and manure) and pesticides



Supply Balance Sheets

The Supply Balance Sheets for crop products:

- made for the years 1989 and 1995 including technical conversion coefficients
- revised for the period 2000-2004 by considering Eurostat's methodology for selected 70 products



Dissemination

Cereals and other crop production statistics:

- The database for crop production statistics is available for years 1991-2005
- Eurostat standard data transmission table since 2000
- Respects Eurostat time table for data transmission

Dissemination (cont'd)

- Agricultural Structure (Production, Price, Value)
 - Annual
 - Province level
- The Summary of Agricultural Statistics
 - Time series for the latest 20 years
 - National level



Future Plans

New surveys will be conducted on crop products, fruits and vineyards in September-October 2006 at agricultural holding level