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## MACEDONIA - Census of Agriculture 2007- Explanatory notes

### 1. Historical Outline

The State Statistical Office of the Republic of Macedonia carried out the 2007 Census of Agriculture in the Republic of Macedonia, which, as specific statistical operation, was carried out for the first time in about 40 years.

### 2. Legal Basis and Organization

The Government has given the State Statistical Office of the Republic of Macedonia, the authority to collect and compile information for statistical purposes. The Census was carried out according to the Law on Census of Agriculture in the Republic of Macedonia, 2007 ("Official Gazette of the Republic of Macedonia" No 39/06 and 113/06).

### 3. Reference Period or Date

The reference date was the 31 May 2007, and for certain questions the reference period was the one-year period June 1 2006 to the 31 May 2007.

### 4. Enumeration Period

The enumeration period was June 1 to 15 2007,

### 5. Definition of the Statistical Unit

The following units were covered by the Census:

- Individual agricultural holdings
- Households that own forest
- Households that own fish pond
- Business entities and the local units which in accordance to the National Classification of Activities, by main activity are distributed in the sector of Agriculture, hunting and forestry and
- Business entities and the local units which in accordance to the National Classification of Activities, by main activity are not distributed in the sector of Agriculture, hunting and forestry, but which perform activities in this sector (agricultural schools, borstals, agricultural scientific institutes, religious communities and other).

Individual agricultural holdings are economic units of agricultural production which meet the following requirements:

- (1) One hectare of agricultural area or more or,
- (2) Use less than a hectare of agricultural land or do not use any at all but they own certain minimum number of livestock, poultry or beehives:
  - 1 cow and 1 calf, or
  - 1 cow and 1 heifer, or
  - 1 cow and two adult heads of small livestock, or
  - 5 adult sheep or goats, or
  - 3 adult pigs, or
  - 4 adult sheep or goats and pigs together, or
  - 50 numbers of adult poultry, or
  - 20 beehives.

There are also exceptions for households that have agricultural production, but do not meet the requirements for individual agricultural holding, if the agricultural production is the unique source of income for those households.

The definitions and the standards for this Census were harmonized with the Recommendations of the Statistical Office of the European Union (Eurostat) and the Food and Agriculture Organization of the United Nations.

### 6. Geographic Coverage

Covered the entire country.

### 7. Exclusions and Cut-Off Thresholds

None noted other than those stated as the minimum threshold of agricultural activity in the national definition of an agricultural holding.

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## 8. Methodology

### ***Use of the FAO Modular Approach***

No

### ***Frame***

The frame includes all agricultural holdings that comply with the definition of a statistical unit.

### ***Complete or Sample Enumeration Methods***

The Census was organized according to the concept of complete coverage ("door to door"), which means that during the Census all households in the territory of the Republic of Macedonia were visited and recorded.

### ***Sample Design***

Not applicable.

### ***Collection Method***

The Census was carried out by trained enumerators interviewing (face to face interviews) and the data were recorded in printed census forms (questionnaires). Data on business entities and the local units that are engaged in agricultural activity and production are filled in by an authorised person, verified by the responsible person - manager/head of the business entity and delivered by post to the State Statistical Office.

### ***Questionnaire(s)***

Macedonia made note of the fact that content complies to some extent with Eurostat recommendations.

The Macedonia Census of Agriculture requested information regarding holding location, legal description, land use and crop production, ownership and tenancy, leased areas and rents (total individual plots of land leased), irrigation, livestock, facilities on the holding (surface, capacity) labour force, mechanization and equipment, areas treated with fertilisers and pesticide, irrigated areas, area under forests, timber harvested, surface and capacity of the fishponds.

There were two forms used in the Census:

- (1) Questionnaire for Individual Agricultural Holdings (Form ZEM.P.1) - for each individual agricultural holding, as well as for a household that owns forest or fish pond;
- (2) Questionnaire for Business Entities (Form ZEM.P.2) - for each business entity and local unit covered by the Census.

### ***Controls to Minimize Non-Sampling Errors***

Not available.

### ***Innovative Methodologies***

Not available.

## 9. Data Entry, Edits and Imputations, Estimation and Tabulation

Data entry was done on the traditional way and online and bech control were done. The imputation and estimations were not used as the toat population was covered.

## 10. Data Dissemination and Use

The State Statistical Office announced the availability of initial release of the 2007 Census of Agriculture results, 16 July 2007. The final results were prepared and published in a publication that contains 27 tables with data on agriculture in the Republic of Macedonia, according to topics covered by the Census. The data are presented on national and on regional level, according to the Nomenclature of Territorial Units for Statistics, NUTS, from 2001, separately for the two sectors-the individual agricultural holdings and the business entities.

The results and publications of the 2007 Census of Agriculture are available on the website of the State Statistical Office of the Republic of Macedonia, [http://www.stat.gov.mk/Default\\_en.aspx](http://www.stat.gov.mk/Default_en.aspx).

## 11. Census Data Quality

According to the Law and Methodology on Census of Agriculture, after the enumeration period, the post-enumeration survey was performed with aim to check the quality of the Census data.

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The sample survey of 50 enumerations areas was chosen and around 2% of the total number of individual agricultural holdings were interviewed for the second time by the post-enumerators.

### **12. Data Sources**

Census of Agriculture: [http://www.stat.gov.mk/OblastOpsto\\_en.aspx?id=33](http://www.stat.gov.mk/OblastOpsto_en.aspx?id=33)

Book I: [http://www.stat.gov.mk/PrikaziPublikacija\\_en.aspx?id=51&rbr=205](http://www.stat.gov.mk/PrikaziPublikacija_en.aspx?id=51&rbr=205)

Book II: [http://www.stat.gov.mk/PrikaziPublikacija\\_en.aspx?id=51&rbr=208](http://www.stat.gov.mk/PrikaziPublikacija_en.aspx?id=51&rbr=208)

Book III: [http://www.stat.gov.mk/PrikaziPoslednaPublikacija\\_en.aspx?id=51](http://www.stat.gov.mk/PrikaziPoslednaPublikacija_en.aspx?id=51)

### **13. Contact**

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