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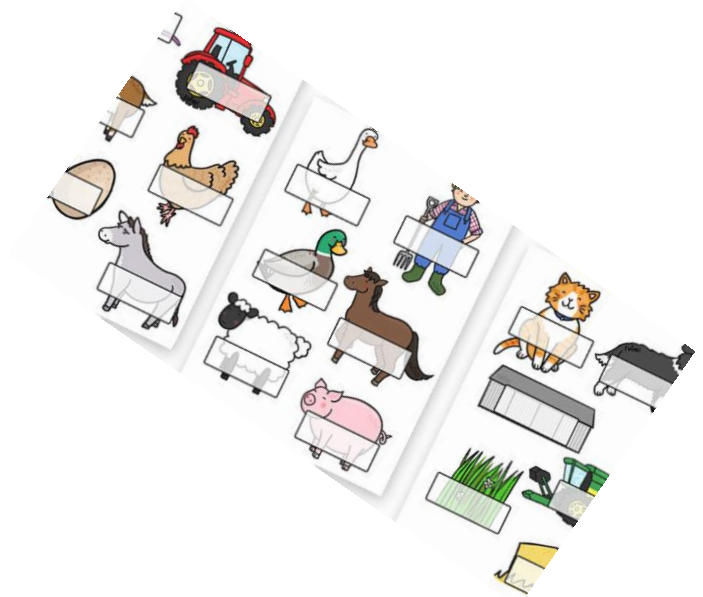
Central Bureau of Statistics

دائرة الإحصاء المركزية

Establishing a Farm Register in Israel

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Definition

- Farm Register (FR) is an integrated file that unites data from administrative, census and surveys sources about farm units (FU) in the Israel.

The main objectives of FR

- FR should cover the FU as far as it is possible

- FR should contain updated information about main characteristics of FU

- FR should be a reliable source for research purposes in farm statistics

- FR serves as a frame for a census and future surveys

Administrative sources for FR

1. **Insurance Fund for Natural Risks in Agriculture File** - A list of FU that insured their crops. The 2013 year file contains 28,945 records for different crops regarding **10,754 FU**.

2. **Foreign Labor file** – obtained from Ministry of Agriculture. A list of FU that requested foreign workers. The 2012 file contains 27,590 records organized by crop and/or activity type for **5,327 FU**.

3. **Beef Cattle Growers Association** - 8,042 FU (2014)

4. **Diary Cattle Growers Association** - 867 FU (2014)

Administrative sources for FR (2)

5. Plants Board file - 19,442 records by crop from 8,707 FU (2012).

6. Land plots file – an integrated file from different sources, that contains FU data by their agricultural land plots. The file was obtained from the Ministry of Agriculture in 2014 and contains 27,486 records. The identification field is very poor.

7. Farm animals Buildings file – from the Ministry of Agriculture and contains 14,280 records without identification field.

8. Business Registry (BR) file – businesses that are classified in the Agriculture industry: 14,557 FU in 2014.

Building of an Integrated Administrative File (IAF)

1. Eliminating certain duplicates in each file (Multiple crops etc.).

2. Integrating all of the files except BR. Eliminating certain duplicates and finding additional suspected duplicates in the integrated file. The process is complicated and has many steps.

3. Record linkage of the integrated file (from 2) with BR file (not only agricultural businesses) in order to add the economic data to the FU.

4. Adding the records from the BR file of agricultural businesses, that were not linked to the integrated file in step 3.

Finally, a file of ~47,000 records was obtained, of which ~45,500 records were not suspected as duplicates.

Conclusions from the Integrated Administrative file (IAF)

- The IAF might contain **duplicate records** that were not found (overestimation).

- The IAF might contain records of **non-active** FU and might **not be from agricultural** businesses (overestimation).

- The IAF might have lack of records that belong to active FU (underestimation).

The bottom line conclusion:

The IAF can't serve as the frame for agricultural census or survey.

It may be a tool for carrying out the Preliminary Collection Survey.

Preliminary Collection Survey (PCS)

- The main objective of PCS is to identify and collect contact information about **active** FU around the country.

- PCS was conducted in 2015 for the organized sector in agricultural localities that have Water/Agricultural Associations, and maintain centralized information about FU.

- PCS provided information about ~19,000 active FU from 483 localities.

Conclusions from PCS

- As it was assumed the administrative data has huge amount of overestimated and underestimated FU:

  ○ overestimation in: Jewish sector – 62.1%, Arab sector – 59.2%, Druze (Golan) – 37.8%.

  ○ underestimation in: Jewish sector – 13.4%, Arab sector – 23.1%, Druze (Golan) – 77.0%.

- Conclusion: The best way for creating the Farm Register is to conduct a full Agricultural Census.

Census Frame (CF)

- The CF is a result of integrating the IAF and PCS file.

- CF contains all the data that gathered from IAF and PCS about localities where the PCS was conducted, and contains only the IAF data for other localities.

- CF will be improved by adding missing contact information from the phone companies.

- On the basis of CF, the expected number of interviews is about 28,000, and the expected number of FU is ~ 24,000. By sectors: Jewish – 18,500 and 16,200; Arab – 9,200 and 7,100, respectively.

Thank You for Your Attention!