

## Institutionalization of environment statistics

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#### Legislation

a general statistical law. It includes by indirect way the environment statistics.

adjustments in the statistical law

In 2004 a new statistical law was released

The importance of law

The first step of the work

in 1994 that the DOS initiate a new unit for environment statistics

#### **Preparatory team**

A team of two DOS employees were located to start in the preparatory stage



#### The agencies deal with environment

- -The DOS team specify the main agencies that deal with environmental information and environment statistics
- -Three type of agencies deal with environment
- -About 45 agencies were specified
- -The DOS team visit all agencies to specify there needs in
- ---environment statistics and to study there activity and available data in environment statistics
- -the DOS mad a complete set of all data available in each agency



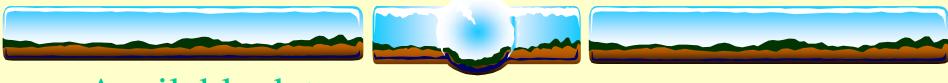
#### Workshop and technical assistance

- -The DOS received assistance form international expert
- A workshop was conducted
- -The objectives of environment and main elements of environment to be covered were specified



#### Sources of environmental data and statistics

- 1. administrative records:
  - Governmental agencies
  - Available data in different directorate in DOS.
- Data available in international and regional agencies
- 2- the data was collected through questionnaires, which are attached to other surveys
- 3- For special studies like hazardous waste. The surveys are conducted by the environmental section



#### Available data

**Meteorological Department** 

**Ministry of Agriculture** 

**Laboratory of Residual Pesticides** 

Ministry of Health: Environmental Health.

Ministry of Agriculture: Directorate of

**Forestation And Range** 

**Water Authority** 

**Annual Report of National Electric Power** 

**Company** 

Report of Ministry of Energy and Natural

resources.



**Annual Report of the Jordanian Phosphate Mining Company** 

**Ministry of Agriculture** 

**Department of Statistics** 

The Jordan Cement Factories.

**National Cancer Registry** 

Ministry of health-disease control directorate

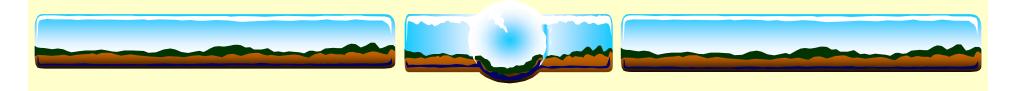
**Traffic Department** 

.Royal Society For The Conservation Of Nature



#### **Activities in environment statistics**

- 1- Collects the available data from different governmental agencies
- 2- Data are also collected by adding a page to surveys already conducted by DOS
- 3-The environmental section conducts surveys like hazardous waste survey and artesian wells survey.



#### Basic principles to apply environment survey

- 1- specify the objectives of the survey
- 2- Dummy tables
- 3- Questionnaire design
- 4- concepts and definitions
- 5- survey population
- 6- Sampling design
- 7- Methods of data collection



- 8- Training of enumerators and other field workers
- 9- The time reference
- 10- Pilot survey
- 11- Field work
- 12- Data processing and data entry
- 13- Preparation of tabulation report
- 14- Analysis of results

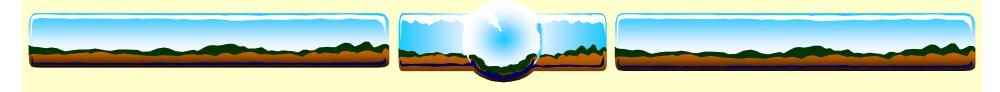


# Classifications, methodologies, standards and coding systems

The DOS uses international classifications such as ISIC for economic activities, CPC for commodities, and FAO for land use

## Data collection estimation compilation methods applied in data collection

- 1- Laboratory data sheet
- 2-Annual reports
- 3- Monthly reports
- 4- questionnaire attached to the economic enterprises survey
- 5- special questionnaires



#### Frequency of data production

Publications and databases

Frequency, characterization of databases, compatibility Future improvement

- 1-To cover water statistics in more detail
- 2-Land cover and a more detailed survey on land use
- 3-Improvement of the work on waste statistics
- 4-Initiation of a GIS database
- 5-It is very important to start environmental accounting conduct some data analysis
- **6-Improve the environmental indicators**



### Case study Main difficulties

- 1- sensitive
- 2-expensive
- 3- it is a complex field
- 4- The manuals and tools used for this type of statistics are still incomplete
- 5-statistics needs experience and expertise in many fields



#### Recommendations

- 1- creation of a committee and to foster teamwork including NGOs that are active in this field
- 2- build a complete environmental statistical system including manuals, classifications, and guidelines
- 3-financial support

The cooperation of the countries in the region is 4- required