



הלשכה המרכזית לסטטיסטיקה
Central Bureau of Statistics
دائرة الإحصاء المركزية

Environmental Statistics and Publications

Dr. Moshe Yanai
Agriculture, Environment and Energy Sector

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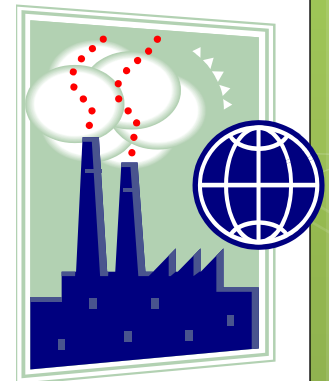
Main Activities in Environmental Statistics



- Air pollution and GHG data
- Water resources and wastewater
 - Water Account
- Municipal, industrial and Hazardous waste
- Environmental expenditure and taxes
- Biodiversity
- Agri-environmental indicators
- Environmental accounts(In development)

Air Pollution

- **Emission of air pollutants from fuel combustion (calculated by consumer/fuel type)**
 - Manufacturing industry and Electricity
 - Transportation
 - Households
 - Sources: Ministry of Energy(fuel consumption), Ministry of Transport (vehicle inventory and Km traveled), ICBS Surveys
 - **Air pollutants concentrations in selected monitoring stations**
 - Commercial Urban centers
 - Industrial areas
 - Residential areas
 - Traffic Stations
 - Source: MoEP



GHG Sectors

- National greenhouse gases inventory
 - **Energy**
 - Energy Industries (Electricity, Oil Refining, Natural gas)
 - Manufacturing industry Transport
 - Agriculture, Residential, Commercial etc.
 - **Industrial Processes**
 - Cement production
 - Nitric acid production
 - Other industrial production
 - F-gases
 - **Agriculture**
 - soil emissions, fertilizers and manure treatment
 - Livestock

GHG Sectors (cont.)

➤ **Waste and Wastewater**

- waste treatment
- Domestic and industrial wastewater treatment

➤ **Land Use and Forestation**

- Sinks from forests
- Emissions from organic soils

○ Main Data Sources

- Ministry of Energy
- MoEP
- Ministry of Agriculture
- Ministry of Ministry of Industry, Trade and Labor
- JNF
- Customs
- ICBS data and surveys

Water and Wastewater

- Quality of drinking water –
 - Source: Ministry of Health
- Quality of seawater at beaches
 - Source: Ministry of Health
- Quantity/quality of treated effluents
 - Source: MoEP and The Shafdan project
- Water levels and salinity of aquifers and surface Water
 - Sources:
 - Water Authority
 - Kinneret Limnological Laboratory



National water account- detailed flows by industry (2009-10)

- Economic flows by Sources:
 - Survey of water industry
 - Administrative data
 - Reports from the tax authority
- Physical flows
 - Sources: Mainly the water Authority
- Pollutants flows
 - Sources: Water Authority and waste survey (ICBS Survey in the manufacturing industries)

waste and Hazardous waste

- Solid domestic and commercial waste by locality
 - Sources: Local authorities survey and MoEP
- Recycling by material type
 - Sources: Local authorities survey, Recycling Plants survey and MoEP
- Hazardous waste by material and treatment types
 - Sources: MoEP and the Environmental Services Company (ESC), Ramat Hovav
- Hazardous materials incidents
 - Source: Ministry of Public Security



Environmental Survey in the Industrial Sector

Detailed data regarding the industrial sector (every 2 years):

- Waste generated by industry and type (dry, mixed, hazardous)
- Recycling by material
- Fuel and electricity consumption and GHGH and air emissions by industry
- Water consumption, Wastewater quantities and quality by industry

Industrial Waste and Wastewater Survey(Cont.)

- Current expenditure and investment by industry
- Expenditure by environmental domain (air and climate, waste, wastewater etc.)
- Investment in “end of pipe” vs. “clean technology”

Biodiversity

➤ Risk of Extinction

➤ Animals

- Vertebrates
- Invertebrates

➤ Plants

- Source: NPA and the Academia

➤ Protected Areas

- Natural Reserves at different stages of declaration
- National Parks
 - Source: NPA



Agri-Environmental Indicators

- Pesticides supply (survey every 3 years, annual data)
- N and P balances
- GHG emissions from agriculture
- Freshwater and effluents use in agriculture
- Ammonia emissions from livestock

Environmental Accounts

- Environmental expenditure
 - Manufacturing industry and electricity (survey)
 - Public sector
 - Construction
 - Agriculture
 - Households and commercial
- Environmental taxes
 - Energy
 - Transport
 - Pollution
 - Natural resources

Environmental Accounts (Cont.)

Future Accounts

- GHG account
- Waste account
- Material Flow account

Dissemination

- Yearly abstract
- ICBS website (dedicated webpage, new website soon)
- Online database (selected series)
- Special publications
- Reports to International organizations (UN, OECD, Eurostat, ENP-SEIS)

Further information:

http://www.cbs.gov.il/reader/?Mlval=cw_usr_view_SHT_ML&ID=441

Challenges in Environmental Statistics

- Missing information in various fields (e.g. biodiversity, construction waste,)
- Adjusting to changing circumstances and methodologies (natural gas, F-gases)
- Development of new and regional statistics with the growing demand for environmental statistics
- Cooperation from data providers
- Limited resources
- Confidentiality

**Thank
you!**

