

Economic and Social Commission for West Asia الأمم المتحدة - اللجنة الاقتصادية والاجتماعية لغربي آسيا



ESCWA Work and SEEA Implementation in ESCWA Countries

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Introduction

- ESCWA countries depend on non-renewable resources to support economic growth
- Constraints to achieve sustainable development: fast growing populations, overexploitation of scarce water resources, deteriorating water quality, land degradation, exploitation of oil and gas.
- Wastewater treatment insufficient and handles only 40% of the domestic wastewater in 2000.
- Urgent need to integrate water and environment issues into development and to account for the manifold interactions between all sectors of the economy and water needs to ensure sustainable development in the region.

Frameworks, Classifications, Methods

WATER SCACITY in the ESCWA region requires data on water in the most efficient way

Frameworks

International Classification

Organize Store Assess quality/ Manage Present data into information

Water Statistics

Quantities, Quality, Flow, Access

Water Indicators

CSD-WRI-PSIR

IWRM

Accounting Framework SEEAW

Derive Most Indicators

Environment Statistics, Indicators and Accounts Project (ESIAP)

for ESCWA-Arab Region and ECLAC



- Home
- Background
- About ESIAP
- Expected Results
- ESCWA Activities
- ECLAC Activities
- ESIA Docubase
- ESIA Forum.
- ESIS Database
- ESIA Network
- Questionnaires
- •To strengthen **National ESCWA** Capacities of countries in the collection. dissemination coverage, and exchange of reliable, timely and comparable environment statistics. indicators, and accounts (ES)
- •To take advantage of an integrated environmental statistical system approach in support of progress toward achieving national and internationally agreed development goals.

Home

"Strengthening National Capacities in Environment Statistics, Indicators and Accounts Project" (ESIAP) in support of progress toward achieving the internationally agreed development goals in the ESCWA and ECLAC Regions" is a development account project that aims to strengthen National Capacities of ESCWA and ECLAC countries in the collection, coverage, dissemination and exchange of reliable, timely and comparable environment statistics, indicators, and accounts taking advantage of an integrated environmental statistical system approach (IESS) to provide policy makers with tools to monitor and ensure environmental sustainability in line with national and internationally agreed development goals (IADGs) such as WSSD and MDGs.

The 2-years project includes missions to countries, expert group meetings, regional and subregional workshops, fellowships, development of database and docubase, and the development of a network for experts and institutions in the field to learn from their peers and exchange success stories and lessons learned.

News

⊞ Fellowship

Strengthening National Capacities in Environment Statistics, Indicators and Accounts in support of progress toward achieving the internationally agreed development goals in the ESCWA and ECLAC Regions

Training Workshop

- Training Session on the System of Environmental - Economic Accounting for Water (SEEAW) for the Arab Gulf Countries
- MEDSTAT II Environment Sector / UNESCWA / UNSD Joint Sub-regional Training Session on the System of Environmental-Economic Accounting for Water (SEEAW)

Links

Beijer Institute of Ecological Economics

European Association of Environmental and Resource Economists (EAERE)

South Asian Network for Development and **Environmental Economics**

- International and Regional Resources
- Hational Statistical Offices in Arab Western Asia

Info Corner

Brochure



Strengthening National Capacities in Environment Statistics, Indicators and Accounts (ESIA) in the ESCWA and ECLAC Regions



Compendium





























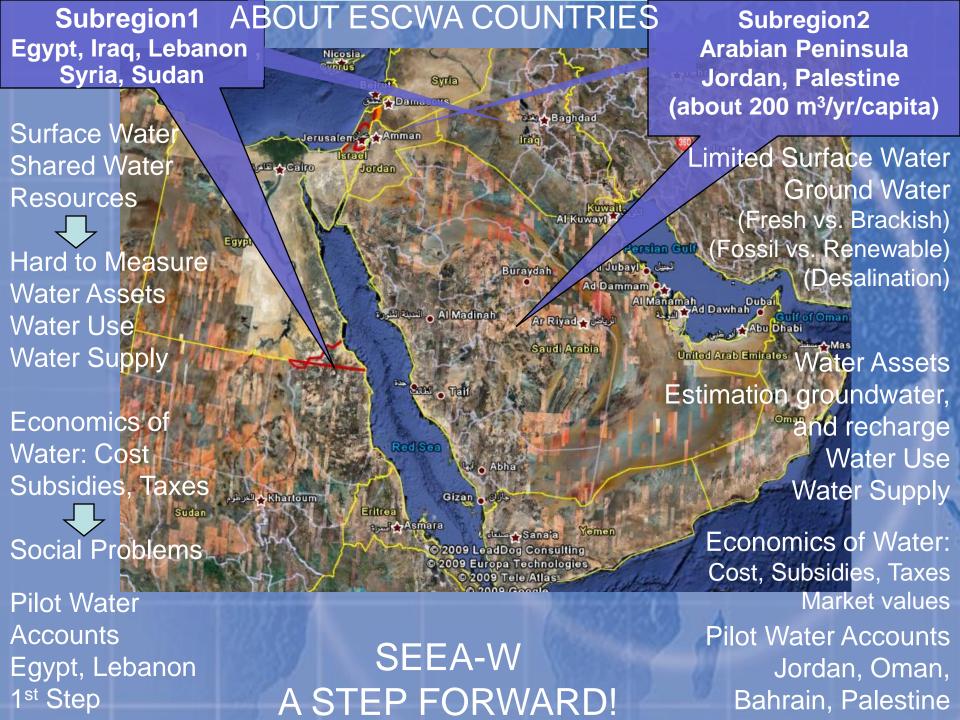


Activities of the Project

- Regional training sessions
- Subregional workshops
- Technical assistance missions
- Expert group meetings
- Methodological documents on integrated environmental statistical systems
- Database, docubase, and expertbase on environment information
- Study tours

Natural resources by type of accounts of priority in the ESCWA region

	Water	Soil	Mineral and Energy	Ecosyste ms
Flow and pollution accounts				
Physical Flows	\mathbf{X}	\mathbf{X}	X	
(Hybrid accounts)				
Monetary flows				
Pollution (waste, emissions)				
Asset accounts				
Physical Stocks	X		X	
Monetary Stocks				
Economic information on the				
Environment				
Expenditures	X		X	
Revenues/Taxes				
Etc				



REGIONAL AGENDA FOR DEVELOPMENT OF FOR WATER ACCOUNT AND ENVIRONMENT ACCOUNTS

Three groupings of ESCWA countries are distinguished:

- •Group 1: Bahrain, Egypt, Jordan, Lebanon, Oman, Palestine. More advanced in Environment Statistics, Possibility of producing water accounts in one year according to the work plan below.
- •Group 2: Saudi Arabia, United Arab Emirates, Kuwait, Qatar. Need to establish environment statistics. Possibility of compiling water accounts in two years. Financial and human resources available.
- •Group 3: Iraq, Sudan, Syria, Yemen. Need to establish environment statistics. Financial and human resources not available. Possibility of compiling water accounts in 3 years.

REGIONAL AGENDA FOR DEVELOPMENT OF FOR WATER ACCOUNT AND ENVIRONMENT ACCOUNTS

Five phases for development according to the advancement of the country in environment statistics.

Phase I: Setting the ground

Phase II: Institutional Framework, Coordination

Phase III. Technical Support

Phase IV. Production of Pilot Sub-Accounts

Phase V. Dissemination

SEEA Pilot Studies

- 1. Jordan
- 2. Lebanon
- 3. Oman
- 4. Bahrain
- 5. Egypt

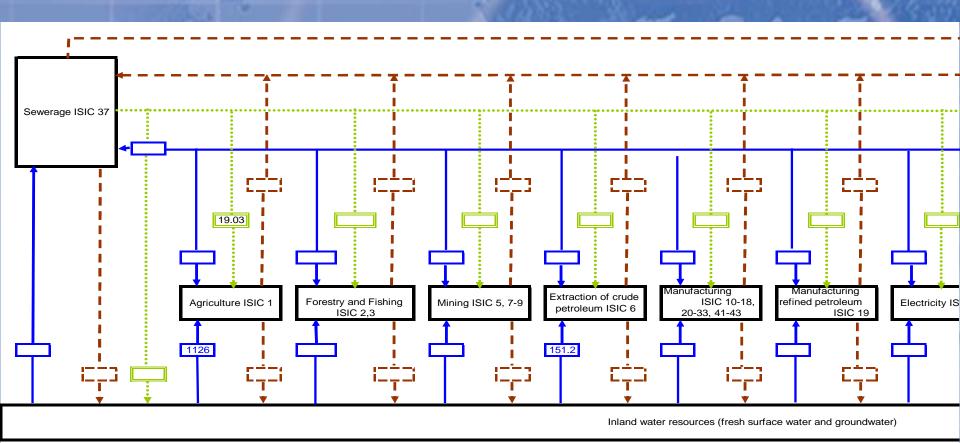
JORDAN Physical use table,2007

		Industries (by ISIC categories)					6	
		1	36	37	others	Total	Househol ds	Total
939	U1 - Total abstraction	506	294	0.0	49.0	849	0.0	849
130	a.1- Abstraction for own use	506	0.0	0.0	49.0	555	0.0	555
13	a .2- Abstraction for distribution	0.0	294	0.0	0.0	249	0.0	249
From the	b.1- From water resources:	506	294	0.0	49.0	849	0.0	849
a my dire n ma a	* Surface water	261	80	0.0	4.0	345	0.0	345
environme nt	* Groundwater	245	214	0.0	45.0	504	0.0	504
10.00	*Soil water	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	b.2- From other sources	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/02	* Collection of precipitation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	* Abstraction from the sea	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Within the economy	U2 - Use of water received from other economic units	91	0.0	113	0.0	202	147	351
	of which:		×	MAX	HI'DS	4		
	Reused water	91	0.0	0.0	0.0	91	0.0	91
	Wastewater to sewerage	0.0	0.0	113	0.0	113	0.0	113
Total use of	Total use of water = U1+U2=				10	10		1200

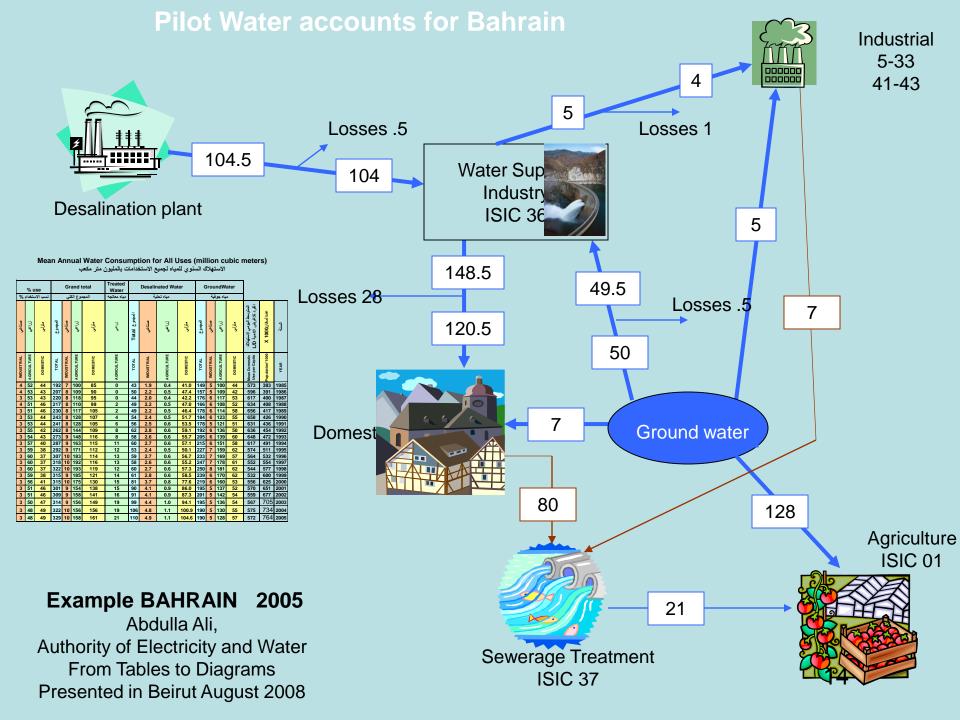
JORDAN Physical Supply table,2007

		Industries (by ISIC categories)				1		
		1	36	37	other s	Total	Househol ds	Total
Within the economy	S1- Supply of water to other economic units	0.0	147	91	23	271	90	351
	of which: Reused water	91	0.0	0.0	0.0	91	0.0	91
15-0	Wastewater to sewerage	0.0	0.0	0.0	23	23	90	113
To the Environment	S2- total returns= (D1+D2)	60	140	6	5	211	0.0	211
	D1- to water resources	60	140	6	5	211	0.0	211
1/1/200	* surface water	5	10	6	5	23	0.0	23
21110000	* ground water	50	10	0.0	0.0	60	0.0	60
100	* soil water	5	120	0.0	0.0	125	0.0	125
1176	D2- to other sources	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total supply of water = S1+S2=				63	1000	3 4		562
Water consumption= total use - total supply				18				638

Pilot Water accounts for Oman Trial population of standard physical supply and use diagram



Water Wastewater Reuse water



Challenges in SEAA-W Implementation in MSs

- 1. Institutionalization and legal provisions on official water statistics and accounts
- Establish sustainable system for national coordination
- 3. Strengthening human, technical and financial resources for water statistics
- 4. Use of common concepts, definitions and classifications within and across countries according to International Standards
- 5. Ensuring Quality of data
- 6. Need for aggregate Indicator

Challenges in SEAA-W Implementation

- 5. Installing monitoring stations and conducting environment and water surveys
- Implementing Water Quality Accounts and Valuation
- 7. Communication and Dissemination
- 8. Technical Problems:
 - 1. Water Accounts at the watershed levels (Lebanon, Oman, Egypt)
 - 2. Supply by water tankers, cooling water, desalination
 - 3. Soil water, brackish water...

Opportunities in SEEAW

WHAT WAS ACCOMPLISHED UNTIL NOW!

- Countries can use available data and put it into the system allowing gaps to be identified and addressed.
- 2. Improved data quality by cross- checking the different standard tables
- 3. Strengthening coordination among national statistical offices and water and environment ministries
- 4. SEEA-W as agent in creation of regional networks

WAY FORWARD

LONGER TERM APPLICATIONS!

- Integrating information for water policy and management
- 2. Developing Environmental Accounts
- 3. Flexibility and expansion to accommodate regional needs (i.e. inclusion of tourism industry, separate identification of oil industries etc)



Role of Organizations



ESCWA, UNSD, UNEP, MEDSTAT, ECLAC

- 1. Sharing Water Data (UNSD-UNEP Questionnaire)
- 2. Verifying and checking data, contacting and followingup with countries for clarifications and corrections
- 3. Conducting joint trainings and missions on Water Accounts (training material, coordinated assistance)
- 4. Adding countries concerns and comments in manuals and recommendations
- 5. Sharing lessons learned with other regions
- Web Portal on Environmental Accounting for ESCWA Countries ESIAP.escwa.org.lb
- 7. Engaging other major partners mainly DSD, UNDP, UNEP, WB, FAO

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