

#### Nations Economic and Social Commission for Western Asia













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### Statistical Frameworks for water data compilation

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# **Data Sources for Water and Sanitation**

### **Census and Surveys for Official Statistics**

- •Population and Household Census: Source for Drinking Water, Type of Sanitation (Use of GIS and PDA Jordan)
- •HH Income, Expenditure, and Consumption Survey
- •Agriculture/Economic/business/industrial: cost of Water and Electricity combined (Need for intermediate and final consumption of water values , quantities, quality)
- Specialized/Ad Hoc Surveys: Mining, Water and Sewerage Utilities, Waste, Environment Expenditures
  DHS MICS

Scope, Coverage, Details National level for rural and urban population, subnational disaggregation by sex, age. Administrative records: Civil and Business registers, water and electricity utilities, financial reports of government and companies, on supply and consumption, prices, investments, Monitoring Systems and Modelling



# **Other Surveys**

Multiple Indicator Cluster Survey (MICS) to monitor situation TARGETS Children and Women (UNICEF) 6.1

6.3 Demographic and Health Surveys (DHS) household surveys provide data for a wide range of monitoring and impact evaluation indicators in the areas of population, health, and 6.6 nutrition. (USAID i.e. Egypt 2014, 2015 by Ministry of Health 6.b

WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (JMP) monitors universal sustainable access to safe water and basic sanitation, uses the above surveys plus World Health Surveys (WHS), Living Standards Measurement Surveys (LSMS) in addition to Census

Water Global Annual Assessment (GLAAS)

WATER AND SANITATION				
MICS Indicator		Indicator	Description	Value
4.1	MDG 7.8	Use of improved drinking water sources	Percentage of household members using improved sources of drinking water	68.0
4.2		Water treatment	Percentage of household members in households using unimproved drinking water who use an appropriate treatment method	4.1
4.3	MDG 7.9	Use of improved sanitation	Percentage of household members using improved sanitation facilities which are not shared	32.9
4.4		Safe disposal of child's faeces	Percentage of children age 0-2 years whose last stools were disposed of safely	53.0
4.5		Place for handwashing	Percentage of households with a specific place for hand washing where water and soap or other cleansing agent are present	25.8
4.6		Availability of soap or other cleansing agent	Percentage of households with soap or other cleansing agent	55.4

6.a





## Sample of Economic Survey Questionnaire

#### Table 4.1 Cost of Sales

Value in AED

جدول 4.1 تكلفة المبيعات

القيمة بالدرهم

1	2	1	
Item	القيمة Value	البيان	الرمز Code
Employee Compensation		تعويضات العاملين	1
Wages, salaries and Bonuses in cash		رواتب وأجور ومكافآت نقدية	1.1
Benefits granted to employees/workers		المزايا الممنوحة للعاملين	1.2
Row Material		المواد الأولية المستخدمة فى الإنتاج	2
Fuel, Gas and Oils		وقود ومحروقات وغاز	3
Water & Electricity		مياه وكهرباء	4
Wrapping & Packing Materials		مصاريف تعبئة وتغليف	5
Buildings Rents		إيجارات الأبنية	6
Machineries, Equipments, and Transportation Means Rentals		ايجارات الالات والمعدات ووسائل النقل	7
Land Rentals		إيجارات الأراضي	8
Current Maintenance of Machineries & Equipments and Transport Means		الصيانه الجارية للالات والمعدات ووسائل النقل	9
Curent Maintenance of Buildings & Constructions		الصيانة الجارية للمبانى والانشاءات	10
Transportation, Storing Goods & Cargo Services		خدمات النقل والتخزين والشحن	11
Computers & IT Services Charges		خدمات الحاسب الالى ونظم المعلومات	12
Depreciation		استهلاك رأس المال الثابت	13
Government Taxes and Fees		الضرائب والرسوم الحكومية	14
Others; (not included above), and Attach a Detailed Statement,		أخرى؛ (غير المدرجة أعلاه). إرفاق كشف تفصيلي	97
Total Sales Cost		مجموع تكلفة المبيعات	99

# Samples of PHC and Income Exp Surveys

STALENAL TONIC TO

(تابع) الجدول الرابع

إنفاق الأسره على المسكن ومستلزماته

الاسكوا ESCWA

> التعداد العام للسكان والمساكن تشرين ثاني 2015 دائرة الاحصاءات العامة

استمادة عد السكان

(٤ - ٤) قيمة المنفق على المياه والخدمات المتنوعة المتصلة بالمسكن خلال شهر البحث وخلال السنة المنتهية بنهاية فترة البحث

ـة بالجنيــه	القيم	tatati	ા રેપ્સાય નાં
سنة	شهر	الدليل	أوجـــه الإنفــاق
		• £ £ 1 1	۱ _ إمدادات المياه :
		• \$ \$ 1 1 • 1	إستهلاك المياه
		• \$ \$ 1 1 • 7	تركيب عداد المياه
			۲ - جمع القمامة :
		• 5 5 7 1 • 1	مدفو عات الزيالة (*)
		. : : " 1	٣ ـ الصرف الصحى :
		• \$ \$ \$ 1 • 1	جمع مياه المجاري والتخلص منها ( ترنش )
		• £ £ £ 1	٤ - خدمات أخرى متصلة بالمسكن وغير مصنفة تحت بند آخر:
		• \$ \$ \$ 1 • 1	المدفو عات لليواب
		• \$ \$ \$ 1 • 7	المدفو عات للجنايني
		• \$ \$ \$ 1 • 5	أقساط التأمين على المسكن ( ضد الحريق، السرقة ، الخسائر الناجمة عن المياه ••• إلخ )
		• \$ \$ \$ 1 • \$	إِسْتَراكَ إِتّحاد الملاك أو أي مصارَيْفُ مُسْتَركَة للمبنى ككل ( * *)
		<u>• ť ť</u>	جُملة إمدادات المياه والخدمات المتنوعه المتصلة بالمسكن (۱+۲+۳+؛)

#### Income and Expenditure HH Survey Egypt

استمارة عد السكان				
		4. خصاتم		
403 ←1	ملك للأسرة أو أحد أفرادها	نوع حيازة المسكن:	401	
2	مســَنْجر دون فرسً			
	مستأجر مفروش			
4	ملك لأحد الأقارب			
403 5	مقابل عمل			
6	دون مقابل			
L7.	أخرى (حدد)			
	الايجار الشهري	الايجار الشهري للمسكن المستأجر بالدينار؟	402	
	مدة إسّغال المسكن ــــــــــــــــــــــــــــــــــــ	مدة إشغال المسكن المأهول (بالمنوات)؟	403	
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3				
	بئر جمع/ مياه أمطار			
5	مياه معدنية/ منقاة			
6	بئر ارتوازي			
8	أخرى (حدد)			
	لايوجد	نوع الصرف الصحي؟	408	
	السَّبِكَة العامة			
	حفرة امتصاصبية			
-	أخرى (حدد)	نوع التدفئة الرئيسي؟		
	لايوجد. مركزية	يوري ، ـــــــــــــــــــــــــــــــــــ	409	
	مز خریه مدفأة کاز / سو لار			
_	مدفاة كار / سو لار مدفأة كهر بائبة			
	مىكە چرپىپ. مدفأة غاز			
	مكرف			
	حطب/ فحم			
	أخرى (حدد)			
8	لا حاجة للتنفئة.			
	نعم	هل تستخدم الأسرة الطاقة الشمسية في توليد الكهرياء مُالَّ عَبَدَ	410	
2	У	في المسكن؟		

PHH Census Jordan 2015





### Water Statistics and the FDES Framework for Development of Environment Statistics



#### Water related statistics

Meteorology, climate Hydrographic conditions Ecosystems, biodiversity Water quality Water resources and use Aquatic resources and use

Wastewater generation and management Water related disasters

Water and sanitation Water borne diseases Water protection expenditure Water related regulations and



## Information system for integrated policy

### Vision

National Development Goals National Economic Development Plan / Planning and Budgetary Processes Supporting Evidence Integrated Information System SNA and SEEA

integrated economic, environmental, and social dimensions

**Sector Strategies and Plans** 

**Sector statistics** 

Water Energy Trade Agriculture Tourism Health Education Rural Development Fisheries Forests Biodiversity Oceans / Marine Resources Climate Change Disaster Reduction

### الاسکوا ESCWA

## International Standards and Guidelines





## **Standard Framework for Compilation**





# **SEEA-Water**

 The SEEA-Water is a conceptual framework for organizing hydrological and economic information in a coherent manner

It can provide an information system for water policy by bringing together and organizing information relevant to four main quadrants of water policy

Main accounts in SEEA-Water provide information on;
1.Flows of water between the environment and economy
2.Stocks of water resources (and changes in stocks)
3.Environmental pressures on water stocks from economy
4.The water economy



- International Recommendations for Water Statistics IRWS and Compilation Guide
- provides guidance for the collection of coherent comparable water statistics
- principles, concepts and definitions
- Statistical units
- classifications,
- Water data items
- Data collection Strategy
- Data sources and methods
- Metadata and data quality



الاسكوا ESCWA	

إلأطر الرئيسية	اللغاهيم و
مقدمة	ألف –
المغاهيم الرئيسية	باء –
۱ – اللياء	
۲ - البيئة والمياه	
٣ - الاقتصاد والمياه	
٤ - المحتمع واللياه	
<ul> <li>م – الإدارة للتكاملة للموارد المائية</li></ul>	
اللوارد المائية الداخلية	
<ul> <li>١</li> <li>١</li></ul>	
<ul> <li>۲ – الموارد المائية المتجددة الداخلية</li></ul>	
٣ – التدفّق الداخلي	
<ul> <li>٤</li> <li>٤</li></ul>	
<ul> <li>م – الموارد المائية المتحدّدة الطبيعية والفعلية</li> </ul>	
٦ – الموارد المائية القابلة للاستغلال	
٧ - الصلة بين الموارد المائية وحسابات المياه	
نظام الحماسبة البيئية والاقتصادية في بحال المياء	دال –
۱ – الأرصدة (الأصول)	
۲ – التدفقات	
۳ – استهلاك المياه	
هاء- المراجع للكانية والزمانية	
١ - المراجع للكانية	
۲ – المراجع الزمانية	
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11 A	الوحدات الإحصائية للاقتصاد .	جيم –
_	۱ – المؤسسات والمنشآت .	
	٢ – الأُسَر المعيشية	
	٣ – مبدأ الإقامة	
	تصنيف للنشآت	ال –
لجميع	<ul> <li>١ – التصنيف حسب الصناعة: التصنيف الصناعي الدولي للوحد، جا</li> <li>١ الأنشطة الاقتصادية، التنقيح ٤</li></ul>	
	۲ - المنتجات والتصنيف المركزي للمنتجات، الإصدار ۲۲	
	<ul> <li>۳ – الصناعات الهامة لإحصاءات المياه</li></ul>	
	٤ - تصنيف الوحدات حسب القطاعات المؤسسية	
	خصائص الوحدات الإحصائية	ناء –
	۱ - خصائص موارد (كُتَل) المياه الداخلية	
	٢ - خصائص الوحدات الاقتصادية	
	ات المتعلقة بالمياه	نود البيانا



بنود بيانات المياه

Physical data items for inland water resources         The volume of water contained in surface water, groundwater, and soil water regardless of salinity levels, within the territory or reference as a particular point in time. This includes water of all types of guality. In consumption activities, for example, for desalination, cooling or impation of salt resistant corps. Countries may disaggregate inland water resources into classes based on salt resistant corps.         Outries           A.1. Surface water         The volume of water that flows over, or relats on the guands's surface within the territory of reference at a particular point in time. This includes water in artificial reservoirs, lakes, rivers, snow, ice and glaciers.           A.1.1. Artificial reservoirs         The volume of water frame flows over, or relats on the guands's surface within the territory of reference at a particular point in time. This includes water in artificial reservoirs, subservice without and control reservoirs           A.1.2. Lakes         The volume of water contained in particular point in time. A.1.3. Rivers         The volume of water contained in bodies of subardity water outputs at depression in the territory of reference at a particular point in time. A.1.4. Wettlands           A.1.4. Wettlands         The volume of water fowning continuously or periodically in choosed and include wamps, marshes, playas and bogs for example within the territory of reference at a particular point in time. The volume of water fower states and example within the territory of reference at a particular point in the mean quantities of water to water and particular point in time. The volume of water for a stage and bogs for example within the territory of reference at a particular point in the mean quater as a particular point in time. The volume of w	Physical Data Items	0
within the territory of reference at a particular point in time. This includes water of all types of quality. In some cases bracksh and saline inland water resources are used significantly for production and content quality.           A.1. Surface water         The volume of water that flows over, or rests on the ground's surface within the territory of reference at a particular point in time. This includes water or auticular point in time.           A.1. Artificial         The volume of water contained in man-made surface water bodies, used for storage, regulation and control of water within the territory of reference at a particular point in time.           A.1.2. Lakes         The volume of water contained in man-made surface water bodies, used for storage, regulation and control of water within the territory of reference at a particular point in time.           A.1.3. Rivers         The volume of water contained in generally large bodies of standing water occupying a depression in the territory of reference at a particular point in time.           A.1.4. Wetlands         The volume of water found in transitional areas where sola are frequently saturated or flooded and include swater flowing through articlal water discover particlar point in time.           A.1.5. Snow, ice and glaciers         The volume of water found in transitional areas where sola are frequently saturated or flooded and include swater flowing continuously or particular point in time.           A.2. Groundwater         The volume of water found in a naturally frozen state (ice and place, seasonal layers of snow and ice on the ground surface and accumulations of ice (i.e. glaciers) which more slowly over land.           B.1. Inflow of water to a terr	Physical data items for inland water resource	0
A.1.1 Artificial         particular point in time. This includes water in artificial reservoirs, lakes, rivers, anow, ice and glaciers.           A.1.1 Artificial         The volume of water contained in generally large bodies of tancing water occupying a depression in the carify surface within the territory of reference at a particular point in time.           A.1.2. Lakes         The volume of water contained in generally large bodies of tancing water occupying a depression in the carify surface within the territory of reference at a particular point in time.           A.1.3. Rivers         The volume of water contained in generally large bodies of tancing water occupying a depression in the carify of water within the territory of reference at a particular point in time.           A.1.4. Wetlands         The volume of water found in transitional areas where soils are frequently saturated or flooded and include swater flooded and include state state and system state and system territory flooded and include state state and system state anoticici protent in time.           A.2	A. Inland water resources	within the territory of reference at a particular point in time. This includes water of all types of quality. In some cases brackish and saline inland water resources are used significantly for production and consumption activities, for example, for desalination, cooling or irrigation of salt resistant crops. Countries may disaggregate inland water resources into classes based on salinity level or other aspects of water
reservoirs         of water within the territory of reference at a particular point in time.           A.1.2. Lakes         The volume of water contained in generally large bodies of standing water occupying a depression in the earth's surface within the territory of reference at a particular point in time.           A.1.3. Rivers         The volume of water contained in bodies of water flowing continuously or periodically in channels within the territory of reference at a particular point in time.           A.1.4. Wetlands         The volume of water flowing continuously or periodically in channels within the territory of reference at a particular point in time.           A.1.5. Snow, ice and guardings.         The volume of water flowing or online (ca and ice crystals) measured in water equivalent within the territory of reference at a particular point in time.           A.2. Groundwater         The volume of water in porous and permeable underground layers, known as aquifers, that can yield significant quantities of water flow into a territory's inland water resources in a particular point in time.           B. Inflow of water to a territory's inland water resources via rain, snow, sileet, hail, dew, meta, etc. per year.         The volume of water that flows into a territory's inland water resources via rain, snow, sileet, hail, dew, meta, etc. per year.           B.1. Precipitation         The volume of water that flows from the atteritory and a portion of the water moving into artificial reservoirs, lakes, rivers or aquifers that leading the territory so freference from other territories per year. This includes all water crossing into a territory and a portion of the water moving into artificial reservoirs, lakes, rivers or aquifers	A.1. Surface water	
A.1.3. Rivers         Learth's surface within the territory of reference at a particular point in time.           A.1.3. Rivers         The volume of water contained in bodies of water flowing continuously or periodically in channels within the territory of reference at a particular point in time. This includes water flowing through artificial watercourses such as canals for irrigation, drainage, or avanple within the territory of reference at a particular point in time.           A.1.4. Wetlands         The volume of water found in a naturally frozen state (ice and ice crystals) measured in water equivalent within the territory of reference at a particular point in time. This includes seasonal layers of snow and ice on the ground surface and accumulations of ice (i.e. glaciers) which move stowy over land.           A.2. Groundwater         The volume of water in porous and permeable underground layers, known as aquifers, that can yield significant quantities of water to wells and springs within the territory of reference at a particular point in time.           Physical data items for environmental flows from quester form of a territory's inland water resources consisting of precipitation and inflows from upstream territories per year.           B. Inflow of water to a territory sintand water resources via rain, snow, sleet, hall, dev, misl, etc. per year.           B.2. Inflow of water form a diver or sintand water crossing into a territory of reference from other territories per year. This includes all water crossing into a territory of reference from other territories per year. This includes all water crossing into a territory of reference from other territories per year. This includes all water crossing into a territory of reference from other territories per year. This includes all water crossi		of water within the territory of reference at a particular point in time.
Ministic action       territory of reference at a particular point in time. This includes water flowing through artificial watercourses such as canabia for infigation, drainage, or navigation.         A.1.4. Wetlands       The volume of water found in transitional areas where soils are frequently saturated or flooded and include swamps, marshes, playas and bogs for example within the territory of reference at a particular point in time.         A.1.5. Snow, ice and glaciers       The volume of water found in a naturally frozen state (ice and ice crystals) measured in water equivalent within the territory of reference at a particular point in time.         A.2. Groundwater       The volume of water in provis and permeable underground layers, known as aquifers, that can yield significant quantities of water to wells and springs within the territory of reference at a particular point in time.         Physical data items for environmental flows into a territory's inland water resources consisting of precipitation and inflows from upstream territories per year.       Image: construct of the territory of reference in a particular point in time.         B. Inflow of water to a territory of water that flows from the atmosphere to inland water resources via rain, snow, sleet, hail, dew, inflex tic, per year.       Image: construct of the territory's border.         B.2. Inflow of water from neighbouring territories       The volume of water and groundwater that moves into a territory of reference from other territories per year. This includes all water crossing into a territory so border.         B.2.1.1. Inflow of water from neighbouring territories.       The volume of surface water and groundwater that moves into a territory of reference	A.1.2. Lakes	
A.1.5. Snow, ice and glaciers       swamps, marshes, playas and bogs for example within the territory of reference at a particular point in time.         A.1.5. Snow, ice and glaciers       The volume of water found in a naturally frozen state (ice and ice crystals) measured in water equivalent within the territory of reference at a particular point in time. This includes seasonal tayers of snow and ice on the ground surface and accumulations of ice (i.e. glaciers) which move slowly over land.         A.2. Groundwater       The volume of water in porous and permeable underground layers, known as aquifers, that can yield significant quantities of water to wells and springs within the territory of reference at a particular point in time.         Physical data items for environmental flows into and out of the territory's inland water resources       The volume of water that flows into a territory's inland water resources consisting of precipitation and inflows from upstream territories per year.         B.1.1 Precipitation       The volume of surface water and groundwater that moves into a territory of reference. from other territories prevent, its includes all water crossing into a territory and a portion of the water moving into artificial reservoirs, lakes, rivers or aquifers that lie along the territory's border.         B.2.1.1 Inflow of water from neighbouring       The volume of surface water and groundwater that moves into a territory of reference from other territories per year. This includes all water crossing into a territory is border.         B.2.1.1. Secured       The volume of surface water and groundwater that moves into a territory of reference from other territories or along its border, that is protected by formal agreements with upstream territories	A.1.3. Rivers	territory of reference at a particular point in time. This includes water flowing through artificial watercourses
glaciers       within the territory of reference at a particular point in time. This includes seasonal layers of snow and ice on the ground surface and accumulations of ice (i.e. glaciers) which move slowly over land.         A.2. Groundwater       The volume of water in porous and permeable underground layers, known as aquifers, that can yield significant quantities of water to wells and springs within the territory of reference at a particular point in time.         Physical data items for environmental flows into a territory's inland water resources consisting of precipitation and inflows from upstream territories per year.       0         B. Inflow of water to a territory's inland water resources consisting of precipitation and inflows from upstream territories per year.       0         B.1. Precipitation       The volume of water that flows from the atmosphere to inland water resources via rain, snow, sleet, hail, dew, mist, etc. per year.         B.2. Inflow of water from neighbouring territories       The volume of surface water and groundwater that moves into a territory of reference from other territories per year. This includes all water crossing into a territory and a portion of the water moving into artificial reservoirs, lakes, rivers or aquifers that le along the territory's border.         B.2.1. Inflow of water from neighbouring territories       The volume of surface water and groundwater that moves into a territory of reference from other territories in allows all water crossing into a territory of reference from other territories reservoirs, lakes, rivers or aquifers that le along the territory of reference from other territories or along its border, that is protected by formal agreements with upstream territories per year.	A.1.4. Wetlands	
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Physical data items for environmental flows into and out of the territory         Inflow of water to a territory's inland water         The volume of water that flows into a territory's inland water resources consisting of precipitation and inflows from upstream territories per year.           B. Inflow of water to a territory's inland water         The volume of water that flows from the atmosphere to inland water resources consisting of precipitation and inflows from upstream territories per year.           B.1. Precipitation         The volume of water that flows from the atmosphere to inland water resources via rain, snow, sleet, hail, dew, mist, etc., per year.           B.2. Inflow of water from neighbouring territories         The volume of surface water and groundwater that moves into a territory of reference, from other territories from neighbouring territories           B.2.1. Inflow of water from neighbouring territories         The volume of surface water and groundwater that moves into a territory of reference, from other territories reservoirs, lakes, rivers or aquifers that lie along the territory's border.           B.2.1.1. Secured through treaties         The volume of surface water and groundwater that moves into a territory of reference from other territories, or along its border, that is protected by formal agreements with upstream territories per year.           B.2.1.2. Not secured through treaties         The volume of surface water and groundwater that moves into a territory of reference that is not protected by formal agreements with upstream territories per year.           C. Outflow of water from a territory's inland water resources         The volume of water that flows out of a territory's inland wate	A.2. Groundwater	significant quantities of water to wells and springs within the territory of reference at a particular point in
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## **SEEA-Water: Informing the SDGs**

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Target Issue	Policy relevant information on SEEA-Water Account	
-	<b>Physical:</b> Supply of water to households relative to economy, generation of wastewater by households and water-system characteristics affecting households (e.g. portion lost/treated) <b>Monetary:</b> expenditure on household water supply and sanitation (incl. sources of funding), governments expenditures and investment in fixed capital for water supply and sanitation	PSUT
re-use	<b>Pollution Release:</b> pollutants by different economic activities (i.e. households and industry type) and the pathway of release <b>Within-economy water cycle</b> : flows of wastewater between economic units and to the environment, including flows for treatment and re-use	Emissions Accounts PSUT
sustainable	<ul> <li>Water Use: Water abstraction and use by economic activity (households and industry sectors)</li> <li>Sustainability of withdrawals: Evolution of water stocks over time and sustainability of current pattern</li> <li>SEEA-Water is a tool for IRWM by bringing together different types of water information into one framework</li> </ul>	PSUT Asset Accounts
<b>6.6</b> Water- related ecosystems	<b>Biophysical information:</b> on areas and changes in areas of various types of water-related ecosystems, including their extent, condition and provisions of services.	Ecosyst ems Account



The Physical Water Flows and Stocks Waterborne Pollution Accounts The Sequence of Economic Accounts for Drinking Water Supply and Sewerage Water-Related Social-demographic Data Items

Data items required(see Excel Sheet) Availability of estimates, Availability of reliable Statistics Sources of data Relevant agencies