

TWINNING CONTRACT

JO/13/ENP/ST/23

Strengthening the capabilities of the Department of Statistics in Jordan



MISSION REPORT

on

Activity: 1.15: Satellite Accounts (agricultural accounts) - I

Mission carried out by
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List of Abbreviations

DoS	Department of Statistics of Jordan
ToR	Terms of Reference
EAA	Economic Agricultural Accounts
SUT	Supply and Use Tables
FADN	Farm Accountancy Data Network

1. General comments

This mission report was prepared within the Twinning Project "Strengthening the capabilities of the Department of Statistics in Jordan". It was the first mission to be devoted to satellite accounts for agriculture within Component 1 of the project.

The purposes of the mission were:

- To present satellite accounts for agriculture.
- Data requirements, methodologies as well as compilation techniques.
- To introduce the DoS staff to how satellite accounts for agriculture can be used as an input to the Supply and Use tables (SUT).
- Special focus on changes needed in order to comply with the ESA10/SNA08

The consultant would like to express his/her thanks to all officials and individuals met for the kind support and valuable information which he/she received during the stay in Jordan and which highly facilitated the work of the consultant.

This views and observations stated in this report are those of the consultant and do not necessarily correspond to the views of EU, DoS or Statistics Denmark.

2. Assessment and results

In order to ensure a common understanding of the Satellite accounts in general and with a special focus on agriculture, workshop sessions were delivered on:

- Introduction to satellite accounts in the ESA2010 chapter 22 and a special focus on agriculture, hereunder a special sector account for agriculture FADN.
- Introduction to EAA and all its components.
- Discussion of the data needs to compile an EAA together with the data requirements for input to the SUT.

To reach a level of understanding of the data on agriculture, in relation to the National Accounts, the DoS staff and the experts went through the existing data.

Despite some language challenges, because many of the Excel worksheet names including many column and row names were written in Arabic, the experts managed to get a good impression of the work done so far with excellent help from the interpreter. Amongst other things we noticed, that:

- Good and sufficient agricultural and fishery data coverage for the year 2010 were found alongside with being well documented.
- It was possible to make a detailed EAA, which compiles their agricultural products and services and intermediate consumption together with capital formation.
- Possible to relate agricultural and fishery production values and intermediate consumption to products and industry through CPC ver.1.1 and National Account codes also in relation to SUT.

For the compiled data on EAA please see annex 3.

For the compiled data on agriculture and fishery distributed on CPC ver.1.1 and National Account codes please see annex 4.

All figures presented in this report is temporary and does not represent final results.

3. Conclusions and recommendations

After this first mission on satellite accounts with focus on agriculture, the experts believe that the continued work would be:

- To put the compiled data on agriculture and fishery for the National Account into the SUT.
- The EAA can be used in the future to make a sector analysis giving an excellent overview of the agricultural sector.
- Creation of linkage directly from the EAA to the SUT is possible since the product values and intermediate consumption data needed for the SUT is in the EAA.
- Generate unique National Account product names and codes according to relevance for the Jordanian National Account.

Overall it can be concluded that DoS have comprehensive data to create a satellite account on agriculture and the experts think that the EAA gives a good overview of the agricultural sector compared to the economy as a whole.

Annex 1. Terms of Reference

Terms of Reference

EU Twinning Project JO/13/ENP/ST/23

22-26 June 2014

Component 1: National Accounts

Activity 1.15: Satellite Accounts (agricultural accounts) - I

0. Mandatory results and benchmarks for the component

- The national accounts system in Jordan updated to SNA 2008 (Apr 2015)
- The national accounts system in Jordan will cover the informal sector (Apr 2015)
- Assessment report on current situation (Jan 2014)
- Review of the GDP methodology (Apr 2014)
- Plan for how to change base year in the fixed price calculations (Jan 2015)
- Plan for how to improve the current accounts (Jan 2015)
- Present and discuss the concept of different types of agricultural accounts (Jan 2015)
- Data sources, compilation methods, and balancing in relation to supply and use tables reviewed and updated towards SNA08 principles (Apr 2015)
- Provide recommendations on how to update input-output tables (Apr 2015)
- Update the methodology for calculation the informal sector (Apr 2015)

1. Purpose of the activity

- Presentation of satellite accounts for agriculture.
- Data requirements, methodologies as well as compilation techniques.
- To introduce the DoS staff to how satellite accounts for agriculture can be used as an input to the Supply and Use tables (SUT).
- Special focus on changes needed in order to comply with the ESA10/SNA08

2. Expected output of the activity

- DoS staff introduced to the concept of satellite accounts for agriculture.
- Based on DoS' needs and the data sources available, recommendations prepared on how to compile satellite accounts for agriculture.
- Linked to the supply and use tables framework, recommendations prepared on how to use the satellite accounts for agriculture as input into the supply and use tables including on how to update the agriculture accounts to comply with the ESA10/SNA08.
- DoS staff introduced to the Danish and in general European experiences in compiling satellite accounts for agriculture
- Deciding on a preferred timing of the next mission: activity 1.16
- A lining up of work programme for the next activity (1.16)

Programme for the mission

Time		Place	Event	Purpose / detail
Sunday, morning	08.30 – 10.00	Hotel /DoS	Meeting with RTA	To discuss the programme of the week
Sunday, morning	10.00 – 12.00	DoS	Meeting with BC Component Leader and BC Experts	Presentation and discussion of the current situation and needs in DoS regarding the Satellite Accounts for Agriculture.
	12.00 – 01.00		Break / Preparations / Report writing	Break / Preparations / Report writing
Sunday, afternoon	01.00 – 03.30	DoS	Meeting with BC Component Leader and BC Experts	Presentation of the Framework for Satellite Accounts - ESA 2010, chapter 22 - EAA short introduction
	03.30 – 04.00		Preparations / Report writing	Preparations / Report writing
Monday, morning	08.30 – 09.00	DoS	Preparations / Report writing	
	09.00 – 12.00		Meeting with BC Component Leader and BC Experts	Discussions of data requirements for compiling satellite accounts for agricultural accounts.
	12.00 – 01.00		Break / Preparations / Report writing	Break / Preparations / Report writing
Monday, afternoon	01.00 – 03.30	DoS	Meeting with BC Component Leader and BC Experts	Presentation of the Danish Satellite Accounts for Agriculture and their role as an input into the Supply and Use Tables system of the Danish National Accounts. - EAA - FADN - Agri-folder / Bridge table
	03.30 – 04.00		Preparations / Report writing	Preparations / Report writing
Tuesday, morning	08.30 – 09.00	DoS	Preparations / Report writing	Preparations / Report writing
	09.00 – 12.00		Meeting with BC Component Leader and BC Experts	Review of data for agriculture and the calculations behind them. - Output - Intermediate consumption - Procedures for enumeration - Correction for informal sector? - Break down by which products?
				Link to SUT – Bridge table
				Meeting with Bassam Al-Zain on the Agricultural survey

	12.00 – 01.00		/ Report writing	Break / Preparations / Report writing
Tuesday, afternoon	01.00 – 03.30	DoS	Meeting with BC Component Leader and BC Experts	Continued form Tuesday morning
	03.30 – 04.00		Preparations / Report writing	Preparations / Report writing
Wednesday, morning	08.30 – 09.00	DoS	Preparations / Report writing	Preparations / Report writing
	09.00 – 12.00		Meeting with BC Component Leader and BC Experts	Continued from Tuesday afternoon Break / Preparations / Report writing
	12.00 – 01.00		Break / Preparations / Report writing	
Wednesday, afternoon	01.00 – 03.30	DoS	Meeting with BC Component Leader and BC Experts	Continued from Wednesday morning
	03.30 – 04.00		Preparations / Report writing	Preparations / Report writing
Thursday, morning	08.30 – 09.00	DoS	Preparations / Report writing	Preparations / Report writing
	09.00 – 11.30		Meeting with BC Component Leader and BC Experts	Discussions of work programme until next mission
			Ad-hoc meetings	Final clarifications with BC Experts, preparation of report and presentation for BC Project Leader
Thursday, morning	11.30 – 12.30	DoS	Meeting with BC Component Leader	Presentation for BC Project Leader
Thursday, noon	12.30 – 01.00	DoS	Debriefing with BC Project Leader	Conclusions and decisions and their consequences for the next activity and the implied work programme for BC Experts

Annex 2. Persons met

DoS:

Mr Moawiah Alzghoul Director of National Accounts Directorate, and component leader

Annual national accounts

Amal Abu Afeefeh - Head of the Annual Accounts Division

Khairallah Almarzoug

Farhan Mohammad

Loay Alrawashdeh

Ali Zaitoun

Ayman Nasir

Aysha Aby Shaira

Input-output division

Murad Bani-Hamad

Murad Al Omari

Quarterly accounts division

Walid Battah - Head of the Quarterly Accounts Division

Jaber Alfazza

Walaa Gharram

Directorate of Agricultural statistics

Bassam Al-Zain

Ghada Al Shoubk

Mumid Al Basti

Mohammed Al-Jawarneh

MS experts

Mr. Mads Meyer-Dissing, Head of Section, Food Industries division, Statistics Denmark

Mr. Dennis Hansen, Head of Section, Food Industries division, Statistics Denmark

RTA Team:

RTA, Thomas Olsen,

RTA Assistant Amal Aliah

Annex 3. EAA

	2010
OUTPUT OF THE AGRICULTURAL 'INDUSTRY'	1.656.760
AGRICULTURAL GOODS OUTPUT (Animal+Crop)	1.601.379
CROP OUTPUT TOTAL	707.060
CEREALS (including seeds)	21.236
wheat القمح	6.214
maize ذره صفراء	6.790
sorghum ذره بيضاء	5.023
bareley الشعير	2.617
other cereals حبوب اخرى	5
sesame سمسم	587
FORAGE PLANTS	44.478
clover trifol برسيم	43.515
vetch الكرسة	237
vetch-common بيقيا	726
VEGETABLES AND HORTICULTURAL PRODUCTS	339.515
tomatoes بندورة	123.712
cucumbers خيار	49.083
snak cucumber فقوس	7.973
watermelons بطيخ	23.978
string beans فاصوليا	5.329
okra باميا	7.538
broad beans فول اخضر	8.695
squash كوسا	20.813
eggplants باذنجان	

		20.761
hot peppers	فلفل حار	5.600
green peppers	حلو فلفل	9.905
cauliflower	زهرة	10.974
lettuce	خس	7.389
sweet melons	شمام	6.456
radish	فجل	788
other vegetables	خضروات اخرى	4.741
onion dry	بصل جاف	3.434
onion green	بصل اخضر	1.683
cabbages	ملفوف	2.619
peas	بازيلا	1.912
cow-peas	لوبيا	428
carrots	جزر	1.570
turinp	لفت	329
spinach	سبانخ	701
garlic	ثوم	507
Jew's mallow	ملوخية	10.944
parsley	بقونس	666
chick-peas	الحمص	826
lentils	العدس	162
POTATOES (including seeds)		50.013
Potatoes		50.013
FRUITS		138.686
bananas	موز	21.277
oranges	البرتقال	17.252

kind of orang	بوملي	1.596
(kalmatina(kind of citrus fruit	كلمنتينا	7.360
(mandalina(kind of citrus fruit	مندلينا	4.018
nectarines	نكتارين	5.180
grapes	عنب	15.456
apples	تفاح	15.674
peaches	دراق	14.674
lemons	اليمون	11.898
apricots	مشمش	6.248
dates	نخيل	5.819
almonds	لوز	2.557
guava	جوافة	1.921
plums,pruns	خوخ وبرقوق	1.655
pears	اجاص	1.606
other fruit	فواكه اخرى	1.503
pomegranates	رمان	934
cherry	كرز	903
(kind of citrus fruit)	جريب فروت	773
figs	تين	381
OLIVES		113.132
olives	زيتون	113.132
OTHER CROP PRODUCTS		-
Vegetable materials used primarily for planting		-
Seeds		-
TOTAL ANIMAL OUTPUT		894.319
ANIMALS		625.643
new born cattle	مواليد ابقار	12.294

new born sheep مواليد ضان	167.883
new born goats مواليد ماعز	66.369
broiler دجاج لاحم	307.140
chicks صوص	71.267
queen bees ملكات	130
be parcel طرود نحل	561
ANIMAL PRODUCTS	268.676
cattle milk حليب بقر	76.119
sheep and goats milk حليب اغنام	74.236
dairy product منتجات البان	18.744
hatchery eggs بيض تفقيس	51.516
table eggs بيض مائده	45.641
honey عسل	2.340
propolis بروبوليس	3
royal jelly غذاء ملكات	70
pollen حبوب لقاح	6
PROCESSING OF AGRICULTURAL PRODUCTS	2.586
wool صوف	2.547
mohair شعر	13
wax شمع	26
AGRICULTURAL SERVICES OUTPUT	48.936
industrial activity النشاط الصناعي	48.928
Agricultural service provided خدمات زراعية مقدمة للغير	6
Technical service provided خدمات فنيه مقدمة للغير	2
OTHER INSEPARABLE SECONDARY ACTIVITIES (GOODS AND SERVICES)	3.859
organic manure سماد عضوي	3.584

water revenue from إيرادات مياه-نتائج مدخلات	271
other revenue اخرى	5
NON-AGRICULTURAL SECONDARY ACTIVITIES (INSEPARABLE)	-
????	-
CHANGES IN STOCK:	-
GFCF IN AGRICULTURAL PRODUCTS	
GFCF IN PLANTATIONS	
GFCF IN ANIMALS	
TOTAL INTERMEDIATE CONSUMPTION	971.944
SEEDS AND PLANTING STOCK	33.964
seeds بذور نباتية	9.763
saplings اشغال	13.647
Grafting تقاوي	10.554
ENERGY; LUBRICANTS	94.364
electricity كهرباء	22.395
electricity for cows كهرباء	4.555
gas غاز	697
fuel وقود ومحروقات	27.681
gasoline بنزين	1.210
diesel سولار	35.049
oils زيوت معدنية	2.287
lubricants شحوم	220
kerosine كاز	270
FERTILISERS AND SOIL IMPROVERS	33.625
or plant based) manure fertilisers (animal اسمدة حيوانية او نباتية	6.334
potasium fertilisers اسمدة بوتاسية	932
phosphates fertilisers اسمدة فوسفاتية	2.670
nitrogen fertiliser اسمدة نيتروجينية	16.069

compound fertilisers	اسمدة مركبة	7.556
other fertilisers	اسمدة اخرى	64
PLANT PROTECTION PRODUCTS AND PESTICIDES		11.776
herbicides	مبيدات اعشاب	522
insecticides	مبيدات حشرات	6.252
spiders insecticides	مبيدات عنكب	2.008
insecticide multi purpose	مبيدات متعددة الاغراض	21
fungous insecticides	مبيدات فطرية	2.846
soil sterilisers	معقمات تربة	-
other chemicals	علاجات اخرى	25
lime	شيد	104
VETERINARY EXPENSES		27.798
Veterinary medicaments	علاجات	27.798
ANIMAL FEEDINGSTUFFS		594.088
<i>- feedingstuffs supplied by other agricultural holdings</i>		72.890
green forage	اعلاف خضراء	16.494
roughage	عليقه ملنه	56.396
<i>- feedingstuffs purchased from outside the agricultural 'industry'</i>		521.198
Fodder compounds	اعلاف مركزه	467.824
other	اخرى	5.773
industry activity	Physical input for مستلزمات النشاط الصناعي	47.600
MAINTENANCE OF MATERIALS		4.247
machinery and equipment	Maintenance of صيانة واصلاح الالات والمعدات	2.047
Machinery maintenance	صيانة واصلاح الالات والمعدات	2.200
MAINTENANCE OF BUILDINGS		976
construction	Maintenance of buildings and صيانة ابنيه	724

Building maintenance صيانة واصلاح الابنية	252	
AGRICULTURAL SERVICES	9.846	
Technical services خدمات فنية	5.376	
technical supervision اشراف فني	663	
Rent of machines اجور الات	3.598	
rent of machinery for leasing اجور الات	66	
Storage costs and freightage تكاليف نقل وتخزين وشحن	143	
FINANCIAL INTERMEDIATION SERVICES INDIRECTLY MEASURED (FISIM)		-
OTHER GOODS AND SERVICES	161.260	
Transportation costs تنقلات	140	
Telephone, mail, telegram برق وبريد وهاتف	755	
postal services telecommunication and shipping,transportation and storage expenses	673	
برق بريد هاتف تكاليف نقل وشحن وتخزين	1.592	
premiums vehicles insurance اقساط تأمين على المركبات	2.203	
AUDITING تدقيق حسابات	4	
Advertisement اعلانات		-
Other services expenditures اخرى	3	
broiler دجاج لاحم	62.353	
water مياه	10.303	
water for cows مياه	10.650	
Other services اخرى	16	
packages كرتون البيض	1.595	
Saw dust نشارة خشب	4.267	
hatchery eggs بيض تفقيس	46.650	
plastic hoses برابيش بلاستيك		-
plastic for covering plantation ملش	3.986	
Transportation of production اجور النقل		

	9.726
Rent of building	57
rent of building	13
rent of farm	4.040
medical services	635
Medical supervision	43
wax	3
queen bees	140
bee parcel	565
honey	153
pollen	23
electricity	9
water	6
posters	10
containers	63
fuel	137
vitamins	17
sugar	180
kandy	11
wax basis	92
vaccine	68
flavors	0
propolis	0
construction mintenance of buildings and	0
transportation	39
rent of machinery	1

medical services خدمات طبية	0	
services telecommunication and postal برق بريد هاتف	7	
equipment mintenance of machinery and صيانة الات	4	
premiums vehicles insurance اقساط تامين على المركبات	26	
other اخرى	-	
rent of building ايجار مباني	2	
rent of farm ايجار المزرعه المستاجره	0	
GROSS VALUE ADDED AT BASIC PRICES	684.816	
FIXED CAPITAL CONSUMPTION	-	
Equipment		
Buildings		
Plantations		
Others		
NET VALUE ADDED AT BASIC PRICES	684.816	
COMPENSATION OF EMPLOYEES	-	
Salaries to employees	-	
OTHER TAXES ON PRODUCTION	-	
Property tax ضريبة الأبنية	-	
Technical licences fees رسوم الرخص المهنية	67	
Fees for licencing vechicles رسوم ترخيص المركبات	1.254	
OTHER SUBSIDIES ON PRODUCTION	-	
FACTOR INCOME	684.816	
OPERATING SURPLUS / MIXED INCOME		
RENTS AND OTHER REAL ESTATE RENTAL CHARGES TO BE PAID	4.513	
Rent of land ايجار المزرعة المستأجرة	4.456	
INTEREST PAID	-	
-		
INTEREST RECEIVED	-	
-		
ENTREPRENEURIAL INCOME	680.303	

Annex 4. Input to National Accounts

Production value in 1000 JOD

Output: Agriculture, hunting,rel. serv.	Product	Trans	Indust	BasicPrice
Leasing or rental services without operator	73000	0100	01	48936
Fertilizers and pesticides	34600	0100	01	3584
Natural water	18000	0100	01	271
Forage products	01910	0100	01	44478
Dried beans,peas, lentils,pulses, n.e.c.	01700	0100	01	989
Spice and aromatic crops, raw	01650	0100	01	666
Potatoes	01510	0100	01	50013
Oilseeds and oleaginous fruits	01400	0100	01	113719
Fruit and nuts	01300	0100	01	138686
Cotton, jute, other fibre crops	01239	0100	01	10944
Vegetables	01200	0100	01	326917
Other cereals	01190	0100	01	5
Barley	01150	0100	01	2617
Sorghum	01140	0100	01	5023
Maize (corn)	01120	0100	01	6790
Wheat	01110	0100	01	6214
Other not accounted for	99999	0100	01	5
Other dairy products	22200	0100	02	18744
Other animal products	02990	0100	02	26
Raw animal materials used in textiles	02940	0100	02	2560
Natural honey	02910	0100	02	2419
Eggs of hens or other birds in shell, fresh	02300	0100	02	97157
Raw milk	02200	0100	02	150355
Other live animals	02190	0100	02	691
Poultry	02150	0100	02	378406
Sheep, goats, other ruminants	02120	0100	02	234251
Bovine animals, live	02110	0100	02	12294
Agriculture, hunting,rel.serv.	! Total			1656760

Production value in 1000 JOD

Output: Fishing, fish farms, rel.serv.	Product	Trans	Indust	BasicPrice
Fish, live, fresh or chilled	04100	0100	05	2139
Fishing, fish farms, rel.serv.	! Total			2139

Intermediate consumption in 1000 JOD

Input Agriculture, hunting,rel. serv.:	Product	Trans	Indust	BasicPrice
Vegetables	01200	2000	01	9763
Forage products	01910	2000	01	588314
Living plants; cut flowers and flower buds; flower seeds	01960	2000	01	24201
Poultry	02150	2000	01	62353
Other live animals	02190	2000	01	705
Eggs of hens or other birds in shell, fresh	02300	2000	01	46650
Natural honey	02910	2000	01	177
Other animal products	02990	2000	01	95
Non-metal wastes or scraps	39200	2000	02	4267
Other non-metallic mineral products n.e.c.	37900	2000	14	104
Pulp, paper and paperboard	32100	2000	21	1605
Motor spirit (gasolene), including aviation spirit	33310	2000	23	1210
Jet fuel	33320	2000	23	270
Petroleum and medium oils, gas-, fuel- and oils nec.	33390	2000	23	66071
Fertilizers and pesticides	34600	2000	24	45297
Plastics in primary forms	34700	2000	25	3986
Rubber and plastics products	36000	2000	25	63
Electrical energy	17100	2000	40	26959
Natural water	18000	2000	40	20959
General construction services of other non- residential buildings	54800	2000	45	976
Maintenance, repair and installation (except construction) services	87000	2000	50	4251
Taxi services	64050	2000	60	140
Road transport services of freight	65110	2000	60	9726
Supporting transport services	67000	2000	60	1773
Internet, data transmission, telecom.nec.	84290	2000	64	1434
Non-life insurance services	71390	2000	66	2229
Legal and accounting services	82000	2000	67	4
Rental services of residential real estate	72010	2000	70	4112
Leasing or rental services without operator	73000	2000	71	3664
Other professional, technical and business services	83000	2000	74	27867
Pharmaceutical products	35200	2000	85	208
Human health and social care services	93000	2000	85	678
Support services to agriculture, hunting, forestry, fishing, mining and utilities	86000	2000	93	6042
Other services	97000	2000	93	5790
Agriculture, hunting,rel. serv.			TOTAL	971.944

Intermediate consumption in 1000 JOD

Input Fishing, fish farms, rel.serv.	Product	Trans	Indust	BasicPrice
Soft drinks; bottled mineral waters	24400	2000	15	1
Motor spirit (gasolene), including aviation spirit	33310	2000	23	33
Petroleum and medium oils, gas-, fuel- and oils nec.	33390	2000	23	71
Rubber and plastics products	36000	2000	25	7
Musical instruments, Sports goods, Games and toys	38400	2000	29	647
Electrical energy	17100	2000	40	140
Natural water	18000	2000	40	3
Maintenance, repair and installation (except construction) services	87000	2000	50	3
General construction services of other non-residential buildings	54800	2000	60	0
Taxi services	64050	2000	60	0
Road transport services of freight	65110	2000	60	1
Internet, data transmission, telecom.nec.	84290	2000	64	0
Non-life insurance services	71390	2000	66	2
Rental services of residential real estate	72010	2000	70	0
Other professional, technical and business services	83000	2000	74	6
Human health and social care services	93000	2000	85	1
Fishing, fish farms, rel.serv.			TOTAL	915