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# SUPPLY AND USE TABLES...


## PALESTINIAN CASE



National Accounts Department of the Palestinian Central Bureau of Statistics (PCBS) began preparing supply and use tables in 1997, due to the existence of a strong database based on the 1997 census.



Since 1997, three supply and use tables have been prepared

- SUT<sub>1997</sub>
  - SUT<sub>2004</sub>
  - SUT<sub>2017</sub>
- 



# SUT1997

## Classifications and data source

- There were 73 activities, were classified based on ISIC<sub>3</sub> level 2.
- There were 91 products, were classified based on ISIC<sub>3</sub> level 5.

## Methodology

- 1997 the first Palestinian census was performed.
- The SUT was prepared using excel sheet.
- Balancing done for Palestine as whole, and no sectors were available.



# SUT2004

## Dimensions and classifications

- There were 74 activities, were classified based on ISIC<sub>3</sub> level 2.
- There was 88 products, were classified based on ISIC<sub>4</sub> level 5 to capture the products.

## Methodology

- There was a separation between west bank and Gaza strip since they are treated as a different economies. (to facilitate the balancing process)
- The SUT were prepared using excel sheet.
- SUT was classified by sectors.
- The PECS survey was carried out with an expanded sample.
- There were an establishment census for 2004.
- 2004 was a stable year with a better data coverage.



# SUT2004

## Data sources

- Surveys
- Establishment census

## Challenges and developments

- The necessity of using software to prepare SUT instead of excel which needs manual balancing
- Development of classifications
- The necessity to update classifications (using ISIC<sub>4</sub> for activities and CPC2.1 for products)
- The necessity to develop the agriculture data sources as there were many challenges in balancing it.



## Dimensions and classifications

- There were 90 products, Selected based on the availability of data sources, and classified based on CPC2 then to ERETES classification (olives)
- There were 77 activities selected according to Palestinian economy.
- Import and export product were classified based on HS (harmonized system) then to ERETES.

## Methodology

- Based on census 2017
- ERETES program was used, which made it more easy to balance
- Transport and trade margins were distributed in proportions based on economic survey.
- There was some products has no margins, It was resolved by reference to an expert opinion, or treated like a related products.



## Data sources

- Surveys
- Census 2017

## Challenges and developments

- The balancing methodology was developed especially in the agricultural products, where we calculated quantities not values, which led to better correlation between price data and agriculture data, as we will show later on the olive good.



# classifications

## Transaction

	A	B	C	D	E	F	G	H
1	transaction_id	transaction_name	transaction_label	transactiofamily	operation_display_ord			
2	OD1	Compensation of employees	comp_emp	1 TRE				
3	OD1001	Salaries	salaries	2 TRE				
4	OD100100A	Salaries of declared employees	sal_dec_em	3 TRE				
5	OD100100B	Salaries of undeclared employees	sal_und_em	3 TRE				
6	OD1002	Employers' social contributions	emplsc	2 TRE				
7	OD1002001	Employers' actual social contributions	emplactsc	3 TRE				
8	OD1002002	Employers' imputed social contributions	emplmpsc	3 TRE				
9	OD2	Taxes on production and imports	tax_pr_imp	1 TRE				
10	OD200A	Value-added type taxes	vat	2 TRE				
11	OD200B	Taxes on imports (excluding VAT)	tax_import	2 TRE				
12	OD200B001	Customs duty	c_duty	3 TRE				
13	OD200B002	Fiscal Entry Duty	fe_duty	3 TRE				
14	OD200B003	Statistical Duty	stat_duty	3 TRE				
15	OD200C	Export taxes	exp_taxes	2 TRE				
16	OD200D	Other taxes on products	oth_tx_prt	2 TRE				
17	OD200E	Other taxes on production	oth_tx_prn	2 TRE				
18	OD3	Subsidies	subsidies	1 TRE				
19	OD3001	Subsidies on products	sub_procdt	2 TRE				
20	OD3009	Other subsidies on production	sub_prodn	2 TRE				
21	OD4	Property income	propty_inc	1 INT				
22	OD4001	SNA Interests	interest	2 INT				
23	OD400100A	FISIM Correction	fisimc	3 INT				
24	OD400100B	Gross interests	grossint	3 INT				
25	OD4002	Distributed income of corporations	dis_inc_co	2 INT				
26	OD4002001	Dividends	dividends	3 INT				
27	OD4002002	Withdrawals from income of quasi-corporations	wth_inc_qc	3 INT				
28	OD4003	Reinvested earnings on foreign direct investment	reime_dfe	2 INT				
29	OD4004	Investment income disbursements	inv_in_dis	2 ASS				
30	OD4004001	Invest. income attributable to ins. policyholders	inv_in_ins	3 ASS				
31	OD4004002	Invest. income payable on pension entitlements	inv_in_pen	3 ASS				
32	OD4004003	Invest inc attr to coll invest fund share holders	inv_in_fsh	3 ASS				
33	OD4005	Rents (natural resources: land, subsoil assets...)	rents	2 INT				
34	OD5	Current taxes on income, wealth, etc.	cur_tax_in	1 IMP				
35	OD5001	Taxes on income	tax_inc	2 IMP				
36	OD5009	Other current taxes	&curtax	2 IMP				
37	OD6	Social contributions and benefits	soc_con_be	1 COT				

## Source

	A	B	C
1	source_id	source_name	source_label
2	CENSPHE	Population, Housing, Establishments Census	CENSPHE
3	CENSEST	Establishments Census	CENSEST
4	GOVLOC	Local Government	GOVLOC
5	GOVCEN	Central Government	GOVCEN
6	GOVEXBUG	Extra Budgetary	GOVEXBUG
7	GOVABR	Government Abroad	GOVABR
8	TAXES	TAXES	TAXES
9	PECS	Household Survey	PECS
10	BOP	Balance of Payment	BOP
11	DAGRI	Department of Agriculture Statistics	DAGRI
12	ESP1	Economic Surveys P1	ESP1
13	ESP2	Economic Surveys P2	ESP2
14	OILPRESS	Oil Presses Survey	OILPRESS
15	FINSUR	Finance and Insurance Survey	FINSUR
16	TRNINFSUR	Transportation Outside Establishments	TRNINFSUR
17	FTS	Foreign Trade Statistics	FTS
18	UNRWA	Administrative Records For UNRWA	UNRWA
19	DPRINX	Department of Prices and Indices	DPRINX
20	CompEmp	Compensation and No. of employees	CompEmp
21	InfCON	Construction- Informal	InfCON
22	ConOwn	Construction- Own Account	ConOwn
23	NTRENT	Net Rent	NTRENT
24	SerNp	Services NonProfit	SerNp
25	GFCF	Capital Formation	GFCF
26	ChanInv	Changes In inventories	ChanInv
27	GvEdu	government education	GvEdu
28	GvHealth	government health	GvHealth
29	TTM	Trade and Transport Margin	TTM
30	CIFFOB	CIF and FOB Adjustments	CIFFOB
31	FISIM	Financial intermediation services indirectly measured	FISIM
32	Other	Other	Other



# classifications

## Industry

	A	B	C	D
1	Table: branche			
2	Industry_id	industry_name	industry_lab	industry_L
3	AAA	Agriculture, forestry and fishing		1
4	AAA001	Growing cereals, vegetables, and fruits		2
5	AAA002	Live animals and animal products		2
6	BBB	Mining and quarrying		1
7	BBB001	Quarrying Stone, sand, and clay		2
8	CCC	Manufacturing		1
9	CCC001	Processing and preserving of meat and fish		2
10	CCC002	Manufacturing of vegetable and fruits		2
11	CCC003	Manufacturing of oils and fats		2
12	CCC004	Manufacturing of dairy products		2
13	CCC005	Manufacture of starches, starch products and grain mill product		2
14	CCC006	Manufacture of food products including bakery		2
15	CCC007	Manufacture of prepared animal feeds		2
16	CCC008	Manufacture of beverages		2
17	CCC009	Manufacture of tobacco products		2
18	CCC010	Manufacture of textiles		2
19	CCC011	Manufacture of clothes		2
20	CCC012	Manufacture of leather		2
21	CCC013	Manufacture of Footwear		2
22	CCC014	Manufacture of wood except furniture		2
23	CCC015	Manufacture of paper		2
24	CCC016	Printing and reproduction of recorded media		2
25	CCC017	Manufacture of refined petroleum products		2
26	CCC018	Manufacture of basic chemicals, fertilizers and nitrogen compounds, plastics		2
27	CCC019	Manufacturing of medical care products		2
28	CCC020	Manufacture of rubber and plastics products		2
29	CCC021	Manufacture of other non-metallic mineral products		2
30	CCC022	Manufacture of basic metals, and fabricated metals products		2
31	CCC023	Manufacture of machinery and equipment		2

## products

	A	B	C	D	E	F
1	product_id	product_name	product_label	product_level	transitional_indic	
2	AAA	Agriculture, forestry and fishing		1		
3	AAA001	Growing cereals, vegetables, and fruits		2		
4	AAA001001	Cereals and rice		3		
5	AAA001002	Vegetables and Flowers		3		
6	AAA001003	Fruits		3		
7	AAA001004	Olives		3		
8	AAA001005	Other products and support activities for agriculture production		3		
9	AAA002	Live animals and animal products		2		
10	AAA002001	Raw milk		3		
11	AAA002002	Poultry		3		
12	AAA002003	Live animals		3		
13	AAA002004	Fish and sea products		3		
14	AAA002005	Eggs, honey, wool and other animal products not classified elsewhere		3		
15	BBB	Mining and quarrying		1		
16	BBB001	Quarrying Stone, sand, and clay		2		
17	BBB001001	Quarrying stone, sand, and clay		3		
18	BBB001002	Other ores and minerals		3		
19	CCC	Manufacturing		1		
20	CCC001	Processing and preserving of meat and fish		2		
21	CCC001001	Processed meat and fish		3		
22	CCC002	Manufacturing of vegetable and fruits		2		
23	CCC002001	Processed fruit and vegetables		3		
24	CCC003	Manufacturing of oils and fats		2		
25	CCC003001	Olive oil		3		
26	CCC003002	Vegetable and animal oils and fats other than olive oil		3		
27	CCC004	Manufacturing of dairy products		2		
28	CCC004001	Dairy products		3		
29	CCC005	Manufacture of starches, starch products and grain mill product		2		
30	CCC005001	Wheat flour		3		
31	CCC005002	Starches and grain mill products except flour		3		
32	CCC006	Manufacture of food products including bakery		2		
33	CCC006001	Bread and other bakery products and Sweets, kunfa, baqlwh, and eastern		3		



# classifications

## sector

	A	B	C	D	E	F	G
1	sector_id	sector_name	sector_label	sector_level	sector_display_ord	SECT_CTRL	
2	OS1	Total Economy	Tot Eco		1		
3	OS1001	Non-financial corporation	NFC		2		
4	OS1002	Financial corporations	FC		2		
5	OS1003	General government	GG		2		
6	OS1003001	Central Government	CG		3		
7	OS1003002	Local administrations	LA		3		
8	OS1003003	Government Abroad	GA		3		
9	OS1004	Households	HH		2		
10	OS1005	Non profit institutions serving	NPISH		2		
11	OS1008	Unallocated sector	US		2		
12	OS2	Rest of the world	ROW		1		
13	OS2000	Rest of the world	ROW		2		
14	OS2000001	Israel	IROW		3		
15	OS2000002	Other countries	OROW		3		
16							

## Location

	A	B	C
1	place_id	place_name	place_label
2	0	Palestine	PLSTN
3	1	West Bank	WB
4	2	Jerusalem	J1
5	3	Gaza	GZ

# ERETES, EX: raw olive

SUB (SNA 2008) in Value in Benchmark year- New						
File	Data	Tools	Poste Restante ?			
AAA001004	Olives	No prod. ch.	Domestic + importe	PLSTN2017	No Quantity Unit	
	Completed basic price	Transport margins	Trade margins	Net taxes	Non deductible VAT	Purchaser's price
TOTAL SUPPLY	166173					166173
TOTAL USE						52457
Princ. Market OUTPUT.	166103					
Princ. Non-Market OUTPUT						
Secnd. Market OUTPUT						
Secnd. Non-Market OUTPUT.						
IMPORTS CIF	70					
TAX on Imports						
Transport MARGIN						
Trade MARGIN						
TAX on exports						
TAX on products						
Subsidies on products						
Non deductible VAT						
Intermed. Consumption						46737
Purchased Final Cons						5720
FCEXP NMO Household						
FCEXP NMO Ggov						
FCEXP NMO NPISH						
GFCF						
Ch. Inv. In-pqiss.						
Ch. Inv. Fnshd						
Ch. Inv. Gds. RESALE						
Ch. Inv. MAT&Supp.						
Chq. Inv. Military						
Acquis. Valuab.						
EXPORTS						

11-00000

1111

# Use side and Industry Account

Update of a cell

File Edit Showing Data ?

Cell

Transaction: OP2 Debtor sector: Acc. Year: 1

Industry: Creditor sector: Prod prin./sec.:

Product: AAA001004 Meth. Attribut: 1 Production mode:

Val method: 7 Product origin: Asset qualifier :

Economic data

Value	Active	Year	Transaction	Industry	Product	Debited Sector	Credited Sector	Princ./Sec.	Meth. Attrib
34 258,000	Oui	1	OP2	CCC003	AAA001004 OS1001			1	
12 479,000	Oui	1	OP2	CCC003	AAA001004 OS1004			1	

Nb: 2 Total values: 46.737,000 Copy Add Delete Modify RESULTS...

Work table

New cell value: 46.737,000 Initial value of cell: 46.737,000

Industry Account - New

File Data Tools Window Poste Restante ?

AAA001 Growing cereals, vegetables, and fruits No prod. chain PLSTN2017 Base Current price

Current	1	2	3	4	5	9	Total
OP100A Pr				1054510			1054510
OP100B Pr				10822			10822
OP100A Sec							
OP100B Sec							
OP2				585878			585878
B01				479454			479454
00100100A							
00100100B							
001002001							
001002002							
00200E							
00300S							
B0A				479454			479454
AN1001							
0E1001001							
0E1001002							
0E1002001							
0E1002002							
0E1003							
Ratios							
P1/E1							
B1/E1							
D11A/E111							
D11B/E112							
P2/P11->P13				0.550			0.550
BA/E1							
BA/E12+E13							
D12/D11A							

# Olive balanced

File Data Tools Poste Restante ?

AA001004 Olives No prod. ch. Domestic + importe PLSTN2017 No Quantity Unit

Accounting equations				Transport margins	Trade margins	Net taxes	Non deductible VAT	Purchaser's price
Supply Use equations								104960
	Supply	Uses	Diverg.					104960
Trade margin								
Transport margin								
Net taxes								
VAT								
Trans. at basic price	104960		104960					
TOTAL	104960	104960	0					
Purchaser's price equations								
	Screen Purch. price	Calc. Purch.'s price	Diverg.					
Intermed. Consump.	99240		99240					
Final consum. exp.	5720		5720					
GFCF								
C.I. Gds resale								
C.I. MAT.&Supp.								
Chq.Inv.Military								99240
Acquis.Valuab.								5720
Exports								

Close

Ch. Inv. In-pgrss.



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**THANKS FOR YOUR ATTENTION**