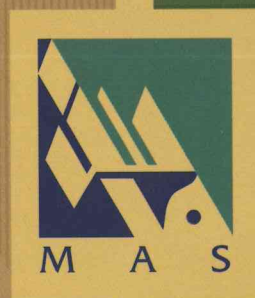


الأجور والإنتاجية في القطاع الصناعي الفلسطيني

معهد أبحاث السياسات الاقتصادية الفلسطيني (ماس)



2006



()

2006

()

1994

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() () () () ()

()

2006 ©

2426 . . 19111 . .

info@pal-econ.org : 2987055 : 2987053/4 :

<http://www.pal-econ.org> :



()

2006

i

(IDRC) -

()

2006

() ©



(IDRC)

1		-1
5		-2
9		-3
10	1-3	
11	2-3	
12	3-3	
13	4-3	
14		-4
26		-5
26	1-5	
26	2-5	
27	<i>1-2-5</i>	
27	<i>2-2-5</i>	
28	<i>3-2-5</i>	
30	()	-6
34		-7
35	1-7	
36	2-7	
37	3-7	

	-1996) (15)	:1
12	(2004	:2
15	(2004-1996)	:3
18		:4
20	(2004-1996)	:5
22	(2004-1996)	:6
24	(2004-1996)	:7
		:8
32	()	:9
35		

.15 %
%5

%10
%40

%25

2004-1996

(2004-1996)

(2004-1996)

(4-digit ISIC)

40

2004-1996

:

)

(

:

(Embodied technology)

Growth)

(TFP)

.(accounting

)

(Perpetual Inventory Method)

(16

(%0.33)

(%0.66-)

.(%0.91-)

.(%0.44)

19

21

.(%0.40)

2004-1996

Wage)

(Productivity

%2.02

.(Embodied technical progress)

(NGO)

%60

:()

()

(%0.66-)

-1

. %13 2003
%13
-1996) %6
(2004
(1996)
(UNCTAD 1996)
(UNCTAD 1998)
(Dutch Disease)
(Traded (Nontraded goods)
goods)

%5

.¹%1.5

.1993

%6.18-

%1.89-)

.(2003 2001

2004

%10

%25

%40

.(2006) .%1.5

(TFP)

(2004-1996)

(Factors)

(Growth accounting)

(Parameters)

2.()

(Technical Progress) :
(Efficiency)

)) (

3.(

(R & D)

(Shop-floor) (R & D)

2

(Software)

()

(Embodied technological progress)

()

()

(Weil, 2005)

3

()

:

:

✧

(...)

(Rent-

seeking activities)

)

⁴.(...

:

✧

(Underemployment)

.

:

✧

()

()

4

.(Public goods)

.()

(TFP)

$$1. Y(t) = A(t)K(t)^\alpha H(t)^\beta L(t)^{1-\alpha-\beta}$$

Y
K
H
L
A
 α
 β

$$L \quad (1)$$

$$2. y = Ak^\alpha h^\beta$$

$$h = \frac{H}{L}, k = \frac{K}{L}, y = \frac{Y}{L} \quad :$$

$$t \quad (2)$$

$$3. g_y = g_A + \alpha g_k + \beta g_h$$

.x g_x
 .(TFP)

4. $g_A = g_y - \alpha g_k - \beta g_h$

. $\beta \alpha h k y$ (4)

1-3

(2004-1996)

(Perpetual Inventory Method)

: t

5. $K(t) = I(t) + (1 - \delta)K_{t-1}$

(Gross Investment)

I

(Depreciation)

δ

(1996)

(2004-1996)

: 1996

6. $K(1996) = \frac{I(1996)}{\alpha + \delta}$

5.

α

(Capital-Output

1996 Ratio)

:

$$7. \frac{\Delta K}{\Delta Y} = \frac{I}{\Delta Y}$$

.1997 1996

1996

. δ

(5)

:

δ

$$8. \delta = \frac{D}{K} = \frac{D}{Y} \frac{Y}{K}$$

(3.4)

1996

δ

D

2-3

$$K(1996) = \sum_{i=1996}^{\infty} I_{i-1} (1-\delta)^i = \frac{I(1996)}{\delta + \alpha} \quad (7) \quad 5$$

(15) .
) .

(1).

:1
(2004-1996) (15)

H/L	السنة
8.6	1996
8.65	1997
8.77	1998
8.95	1999
9.02	2000
9.06	2001
8.92	2002*
9.07	2003
9.26	2004
0.87%	النمو السنوي

:H/L

*

3-3

(P) (W) (VA)

$$VA=W+P$$

$$9. \alpha = \frac{P}{VA} = 1 - \frac{W}{VA}$$

$$.0.48 \quad (9) \quad \alpha$$

4-3

$$\alpha \quad (1-\alpha) \quad (\quad) \quad ^6.($$

(MW)

(AW)

$$\beta \quad (1-\alpha)$$

$$10. \beta = \frac{AW - MW}{AW} (1-\alpha)$$

0.32

⁷.0.43

0.33

⁶ .P. 169 (Weil,2005) ⁷

40 ISIC

2004-1996

:2

(2004-1996)

W/L %	K/L %	VA/L %	
-5.67%	-1.63%	-2.69%	
-0.03%	11.44%	4.25%	
2.54%	-6.11%	-2.51%	
-1.80%	2.38%	-2.92%	
-1.24%	0.10%	-3.76%	
-2.65%	9.37%	-2.59%	
-0.81%	0.50%	-0.34%	
-1.55%	-5.75%	-3.47%	
-1.20%	-2.89%	0.89%	
-5.94%	1.46%	-3.34%	
-0.74%	4.49%	-4.80%	
-1.63%	-2.35%	8.04%	
-2.25%	-5.24%	8.59%	
6.94%	0.41%	24.14%	
0.68%	-0.91%	-2.24%	
0.07%	1.97%	-3.88%	

W/L %	K/L %	VA/L %	
-5.30%	6.23%	29.20%	
0.14%	5.36%	3.10%	
-3.66%	-0.66%	-2.05%	
-3.07%	1.82%	-1.55%	
11.92%	5.35%	1.49%	
1.62%	1.34%	23.70%	
0.69%	-0.52%	0.51%	
3.28%	-17.77%	3.60%	
1.55%	-3.77%	3.58%	
-4.96%	-0.93%	-2.20%	
4.38%	1.90%	17.04%	
-1.86%	1.48%	3.09%	
5.12%	-4.47%	-11.32%	
-0.12%	2.74%	-4.28%	
-2.06%	-1.46%	-0.63%	
2.28%	-5.13%	3.52%	
5.94%	-3.39%	4.11%	()
-0.51%	-2.97%	-10.42%	
-0.95%	-3.26%	-3.68%	
1.65%	3.10%	4.25%	
4.70%	4.89%	7.45%	
-22.79%	6.53%	-13.86%	
5.65%	-6.67%	11.54%	
4.55%	22.26%	16.42%	

:VA/L
 :K/L
 :W/L
 :%

(20) (2)

.(4) .(%0.33)

%0.91- %0.26-

.(%0.66-) (%0.44)

(g_A) (4)

19 (3)

21

.(%0.40)

(%-1.06)

(%0.98) (6) ((%2.02)

() β (1) ⁸

gA	
-2.04%	
-2.51%	
0.46%	
-4.07%	
-4.16%	
-7.03%	
-0.87%	
-1.01%	
1.52%	
-4.25%	
-7.10%	
8.99%	
9.60%	
23.60%	
-1.65%	
-5.02%	
25.73%	
0.05%	
-1.82%	
-2.69%	
-0.88%	
22.72%	
0.48%	
13.01%	
4.38%	
-2.05%	
15.81%	

gA	
2.25%	
-11.00%	
-6.20%	
-0.43%	
5.50%	
6.02%	()
-9.04%	
-3.40%	
2.61%	
4.98%	
-16.87%	
14.91%	
1.45%	

.(TFP)

:gA

(2004-1996)

VA%* VA/L%	VA%* K/L%	VA%* W/L%	VA%	
-0.19%	-0.12%	-0.40%	7.14%	
0.08%	0.23%	0.00%	2.00%	
-0.08%	-0.20%	0.08%	3.24%	
-0.34%	0.28%	-0.21%	11.71%	
-0.16%	0.00%	-0.05%	4.39%	
-0.04%	0.15%	-0.04%	1.62%	
-0.03%	0.04%	-0.06%	7.81%	
-0.39%	-0.64%	-0.17%	11.14%	
0.05%	-0.15%	-0.06%	5.33%	
-0.04%	0.02%	-0.08%	1.32%	
-0.04%	0.03%	-0.01%	0.74%	
0.03%	-0.01%	-0.01%	0.40%	
0.50%	-0.31%	-0.13%	5.87%	
0.60%	0.01%	0.17%	2.47%	
-0.23%	-0.09%	0.07%	10.35%	
-0.01%	0.00%	0.00%	0.15%	
0.05%	0.01%	-0.01%	0.18%	
0.00%	0.00%	0.00%	0.09%	
-0.04%	-0.01%	-0.08%	2.15%	
0.00%	0.00%	-0.01%	0.20%	
0.00%	0.00%	0.01%	0.05%	
0.34%	0.02%	0.02%	1.44%	
0.00%	0.00%	0.01%	0.78%	
0.05%	-0.25%	0.05%	1.39%	
0.12%	-0.13%	0.05%	3.33%	
0.00%	0.00%	-0.01%	0.20%	

VA%* VA/L%	VA%* K/L%	VA%* W/L%	VA%	
0.07%	0.01%	0.02%	0.39%	
0.01%	0.00%	0.00%	0.16%	
-0.04%	-0.02%	0.02%	0.36%	
-0.03%	0.02%	0.00%	0.67%	
-0.01%	-0.02%	-0.03%	1.54%	
0.01%	-0.02%	0.01%	0.35%	
0.13%	-0.11%	0.19%	3.19%	()
-0.39%	-0.11%	-0.02%	3.77%	
-0.01%	-0.01%	0.00%	0.20%	
0.03%	0.02%	0.01%	0.70%	
0.03%	0.02%	0.02%	0.35%	
-0.05%	0.02%	-0.09%	0.37%	
0.05%	-0.03%	0.02%	0.44%	
0.31%	0.41%	0.08%	1.86%	
0.33%	-0.91%	-0.66%		

:VA%
:VA%*W/L%
:VA%*K/L%
:VA%*VA/L%

(2004-1996)

:5

VA%*Gap	VA%*gA	VA%*W/L%	
-0.26%	-0.15%	-0.40%	
0.05%	-0.05%	0.00%	
0.07%	0.01%	0.08%	
0.27%	-0.48%	-0.21%	
0.13%	-0.18%	-0.05%	
0.07%	-0.11%	-0.04%	
0.00%	-0.07%	-0.06%	
-0.06%	-0.11%	-0.17%	
-0.15%	0.08%	-0.06%	
-0.02%	-0.06%	-0.08%	
0.05%	-0.05%	-0.01%	
-0.04%	0.04%	-0.01%	
-0.70%	0.56%	-0.13%	
-0.41%	0.58%	0.17%	
0.24%	-0.17%	0.07%	
0.01%	-0.01%	0.00%	
-0.06%	0.05%	-0.01%	
0.00%	0.00%	0.00%	
-0.04%	-0.04%	-0.08%	
0.00%	-0.01%	-0.01%	
0.01%	0.00%	0.01%	
-0.30%	0.33%	0.02%	
0.00%	0.00%	0.01%	
-0.14%	0.18%	0.05%	
-0.09%	0.15%	0.05%	
-0.01%	0.00%	-0.01%	
-0.04%	0.06%	0.02%	

VA%*Gap	VA%*gA	VA%*W/L%	
-0.01%	0.00%	0.00%	
0.06%	-0.04%	0.02%	
0.04%	-0.04%	0.00%	
-0.03%	-0.01%	-0.03%	
-0.01%	0.02%	0.01%	
0.00%	0.19%	0.19%	()
0.32%	-0.34%	-0.02%	
0.00%	-0.01%	0.00%	
-0.01%	0.02%	0.01%	
0.00%	0.02%	0.02%	
-0.02%	-0.06%	-0.09%	
-0.04%	0.07%	0.02%	
0.06%	0.03%	0.08%	
-1.06%	0.40%	-0.66%	

.(TFP)

:VA%*gA

:VA%*Gap

(2004-1996)

:6

VA%*VA/W	VA/W	VA%	
0.21%	2.98%	7.14%	
0.09%	4.28%	2.00%	
-0.16%	-5.05%	3.24%	
-0.13%	-1.13%	11.71%	
-0.11%	-2.53%	4.39%	
0.00%	0.06%	1.62%	
0.04%	0.47%	7.81%	
-0.21%	-1.92%	11.14%	
0.11%	2.09%	5.33%	
0.03%	2.60%	1.32%	
-0.03%	-4.07%	0.74%	
0.04%	9.67%	0.40%	
0.64%	10.84%	5.87%	
0.42%	17.20%	2.47%	
-0.30%	-2.92%	10.35%	
-0.01%	-3.96%	0.15%	
0.06%	34.50%	0.18%	
0.00%	2.96%	0.09%	
0.03%	1.60%	2.15%	
0.00%	1.52%	0.20%	
-0.01%	-10.43%	0.05%	
0.32%	22.09%	1.44%	
0.00%	-0.18%	0.78%	
0.00%	0.32%	1.39%	
0.07%	2.03%	3.33%	
0.01%	2.76%	0.20%	
0.05%	12.66%	0.39%	

VA%*VA/W	VA/W	VA%	
0.01%	4.94%	0.16%	
-0.06%	-16.45%	0.36%	
-0.03%	-4.16%	0.67%	
0.02%	1.42%	1.54%	
0.00%	1.23%	0.35%	
-0.06%	-1.83%	3.19%	()
-0.37%	-9.91%	3.77%	
-0.01%	-2.73%	0.20%	
0.02%	2.60%	0.70%	
0.01%	2.74%	0.35%	
0.03%	8.93%	0.37%	
0.03%	5.89%	0.44%	
0.22%	11.86%	1.86%	
0.98%			

:VA/W
:VA%*VA/W

2000

2000

9

()

.(Makhool,2004)

9

-5

(3)

1-5

(D&R)

Embodied

)

(technology

(1996)

(2004)

()

2-5

1-2-5

(NGO's)

10.

2-2-5

(7) .2000

%35

10

27

%35	
%60	
%60	
%60	
%60	
%90	
%70	
%50	

3-2-5

()

-6

.(%25.3)

.(%56.7)

.(8) (%1.84-)

.(%0.66-)

%10

¹² .

(World Bank,2007)

¹²

() :8

1.6%	-0.05%	-0.8%	77.8%	22.2%	89,133.8	7.1%	
0.4%	-0.02%	-0.9%	81.7%	18.3%	17,780.2	2.0%	
0.8%	-0.06%	-1.9%	76.5%	23.5%	36,584.8	3.2%	
5.4%	-0.71%	-6.1%	53.5%	46.5%	119,990.2	11.7%	
1.1%	-0.10%	-2.3%	75.9%	24.1%	72,457.9	4.4%	
0.3%	-0.02%	-1.3%	78.9%	21.1%	15,869.9	1.6%	
1.2%	-0.06%	-0.8%	84.3%	15.7%	138,144.3	7.8%	
3.1%	-0.18%	-1.6%	72.6%	27.4%	172,897.6	11.1%	
1.2%	-0.01%	-0.2%	76.8%	23.2%	95,875.5	5.3%	
0.5%	-0.01%	-0.4%	64.8%	35.2%	13,559.3	1.3%	
0.2%	-0.02%	-3.2%	73.3%	26.7%	10,429.1	0.7%	
0.2%	-0.07%	-16.6%	43.3%	56.7%	3,419.9	0.4%	
1.6%	-0.07%	-1.2%	72.9%	27.1%	84,460.2	5.9%	
1.1%	-0.04%	-1.7%	56.9%	43.1%	15,098.5	2.5%	
1.3%	-0.11%	-1.1%	87.2%	12.8%	111,670.8	10.3%	

0.1%	0.00%	1.3%	62.5%	37.5%	1,382.9	0.2%	
0.1%	0.03%	16.2%	64.7%	35.3%	850.5	0.2%	
0.0%	0.00%	-2.7%	68.1%	31.9%	631.7	0.1%	
0.4%	0.04%	1.8%	81.8%	18.2%	18,743.0	2.2%	
0.1%	0.01%	5.9%	73.1%	26.9%	2,461.0	0.2%	
0.0%	0.00%	-1.3%	69.9%	30.1%	949.7	0.0%	
0.2%	-0.02%	-1.4%	87.0%	13.0%	22,973.8	1.4%	
0.1%	0.01%	0.7%	89.1%	10.9%	22,846.6	0.8%	
0.1%	-0.01%	-0.5%	93.3%	6.7%	45,969.1	1.4%	
0.9%	-0.05%	-1.5%	72.2%	27.8%	46,154.6	3.3%	
0.1%	-0.01%	-3.6%	74.5%	25.5%	3,192.4	0.2%	
0.1%	-0.01%	-2.1%	79.4%	20.6%	3,550.5	0.4%	
0.1%	-0.01%	-6.2%	49.7%	50.3%	1,340.9	0.2%	
0.1%	-0.03%	-8.5%	59.1%	40.9%	6,462.2	0.4%	
0.1%	-0.01%	-1.1%	85.5%	14.5%	12,212.2	0.7%	
0.3%	-0.02%	-1.5%	81.2%	18.8%	29,984.1	1.5%	
0.1%	0.01%	2.4%	67.4%	32.6%	2,767.8	0.4%	

0.8%	-0.06%	-1.8%	75.3%	24.7%	32,571.9	3.2%	()
0.7%	-0.06%	-1.5%	81.9%	18.1%	50,348.5	3.8%	
0.1%	0.00%	1.3%	57.7%	42.3%	2,507.2	0.2%	
0.2%	-0.03%	-4.6%	76.3%	23.7%	12,115.1	0.7%	
0.1%	-0.01%	-1.7%	78.2%	21.8%	4,448.7	0.4%	
0.1%	0.01%	2.0%	76.6%	23.4%	8,178.2	0.4%	
0.1%	0.00%	0.1%	73.5%	26.5%	3,894.8	0.4%	
0.6%	-0.08%	-4.4%	69.8%	30.2%	37,421.2	1.9%	
25.3%	-1.84%						

-7

(9)

:9

13

5.9	8.1	1970
2.6	8.1	1980
6.7	13.8	1990
2.2	14.7	2000-2004

(%5.9)

1994

13

(%8.1)

14

2000

1-7

14

(Chenery, 1988)

35

()

:

(Product Development)

◇

◇

◇

◇

3-7

(%60) (%30)

: .
 .1996 .()
 .() : .
 .2004
 : . :2006
 .2006 .()

- Chenery, Hollis., Hand book of development economics: Structural transformation Chapter 7. North-Holland. 1988.
- Romer, David. Advanced macroeconomics. The McGraw-Hill companies Inc. 1996.
- UNCTAD. Prospects for sustained development of the Palestinian economy: strategies and policies for reconstruction and development.UNCTAD /CDC/SEV/12/1996.
- UNCTAD. The Palestinian economy and proposals for regional cooperation.:UNCTAD/GDS/SEV/Z.1998.
- Weil, David. Economic growth. Addison Wesley.2005.
- World Bank. Doing Business 2007. Washington D.C.: World Bank. 2007.

