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Working Paper

財団法人 国際東アジア研究センター
ペンシルベニア大学協同研究施設

*

personal distribution

functional distribution

1975

1990

*

803-0814

-

E-mail: shondai@icsead.or.jp

1.

personal distribution

20

Tinbergen [1975]

functional distribution

3

1970

3

1

2

3

2.

[1974], 134

Ohkawa and Rosovsky [1973], 254-271 1952-1964

1

Denison and Poullier [1964]

1955-59

79.2

75.8

1960-62

79.9

76.5

77.5

77.2

Ohkawa and Rosovsky [1973], 268

[1975], [1978a], [1978b]

2

1950

1960

1

Ohkawa and Rosovsky

1

1970

Papanek [1985], 24-50

1970-80

3.

$$\alpha = \frac{wL}{Y} = \frac{w}{Y/L} \quad (1)$$

Y

Y

(1)

$w \quad L$

wL

unpaid family workers

wL

Statistik Industri Besar dan

Sedang

20

4

5

20

20

20

GDP

1975

1

1975

23

1992

2002

15

GDP

1980

GDP

GDP

[1973], 285

GDP

[1978a], [1978b]

1929

(1)

2

6

1929

1942

1950

1967

25

18

35

40

1

9

7

3

10 15

2

3

2

3

8

3

1992

(1)

2

w

4

4-1 1999

1999

4-2 1992

1992

$$G(\beta) = G(w) + G(L) - G(Y)$$

(2)

G()

1977-91

1991-2001

1

1977-91

1991-2001

2

4.18

5

9

1

(1)

5

1990

2000

1990-99

(1)

4

1

1980

10

11

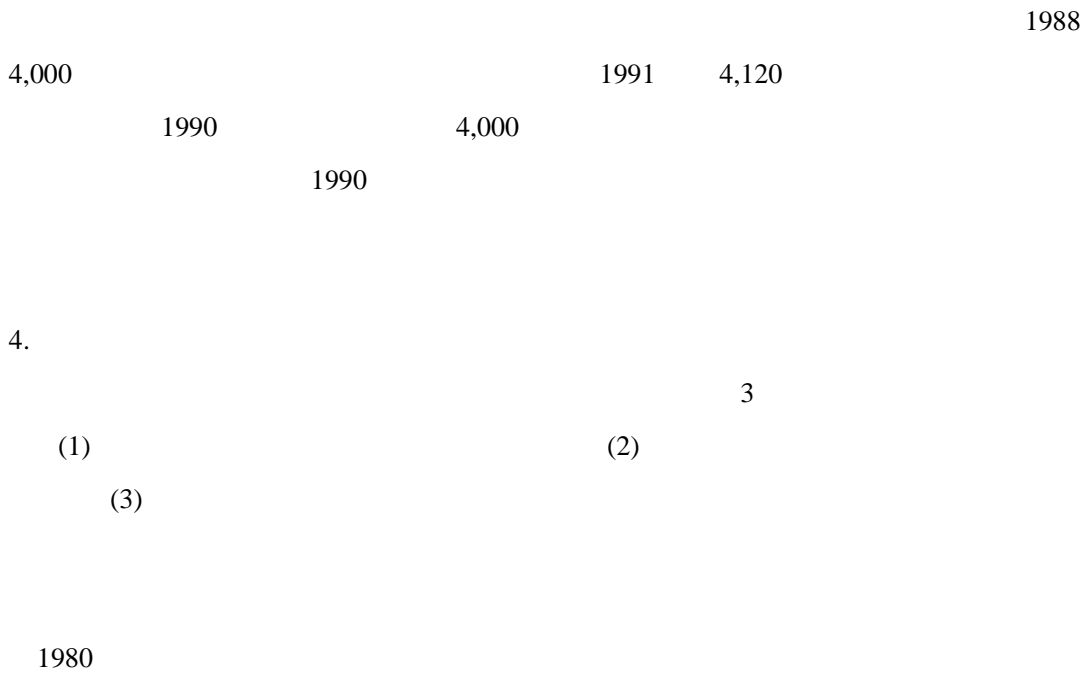
300

300

6

1980

8



Alisjahbana and Purnagunawan [2004]¹²

$$\ln\left(\frac{Y}{L}\right) = A + \beta_1 \ln\left(\frac{K}{L}\right) + u \quad (3)$$

Y L K A β_1
 u \ln A

$$A = \beta_0 + \beta_2 m + \beta_3 FDI + \beta_4 CG + \beta_5 LG + \beta_6 D_1 \quad (4)$$

m

3 100 100

¹³

¹⁴

K

500

FDI

100

15

FDI = 1

0

4

CG

1

2

3

4

100

1

FDI = 1

CG = 0

2 3

4

CG = 1

0

5

LG

1

100

2

LG = 1

0

6

D_1

16

100

20-99

$D_1 = 1$

0

3

1990

1995

1997

17

Statistik Industri Besar dan Sedang

18

27

2

m 1%
 19
FDI
 1995 1997
 1% 1990 1995
 1995
 1990 1997 1997
 D_1 1997
 m *FDI* *CG* *LG*
 D_1
 1%
 3
 3
 Hill [1997]. pp. 256-257 0.478
 1995 0.480 1990 0.497 1997
 0.508
 Chamarbagwala et al. [2000]. pp. 393-398
 0.572 1995 0.586 1997 0.600 Hayashi
 2002 0.20
 2 $\alpha = 1 - \beta$ 3
 2
 0.07

1990

20

3

unpaid family workers

20

21

20

1.0

1.0

22

12

CES

3

[1974],

[1975],

[1978a],

[1978b],

[2003]

[2000], 35; [2004], 150

[1999], 1-17

23

6

[1980], 156-163

6.

functional distribution

1970

1990

1990

1990

[]

G [2003]

[1974].

[1973].

[1966 1978].

[2000].

34 4

[2004].

[1982].

[1961].

[1976 1997].

[1973].

[2004].

[1999].

, 7 2 , 12

[1997].

[1975].

- [1978a]. , 29
2 , 143-169 .
- [1978b]. , 29 3 , 230-241 .
- [1995].
36 4
- [1980]. ,
- []
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- c-[1980, 1982, 1983, 1984, 1986, 1989, 1991, 1993, 1994, 1995, 1997, 1999, 2001, 2003]. *Statistik Indonesia*, Jakarta.
- d-[1888-1994, 1993-1999, 1994-2000, 1995-2001]. *Statistic Upah Buruh Tani di Pedesaan (Farmer Labour Statistics in Rural Area)*, Jakarta.
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The World Bank [2001c]. *World Development Indicators on CD-ROM, 1998*, Washington, D.C.

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2 Minami and Ono [1979]

3 w L

4 *Statistik Industri Besar dan Sedang* 20 100 100

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6 1943 5 1948

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39

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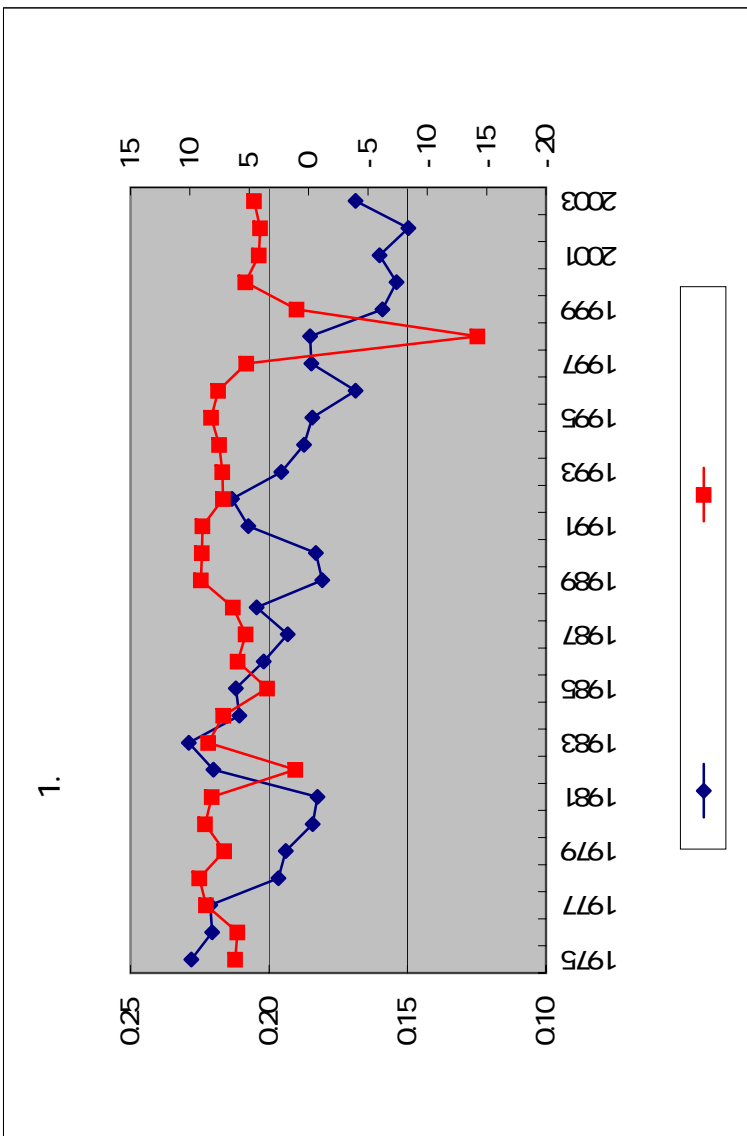
$$\beta = \sum_i s_i \beta_i$$

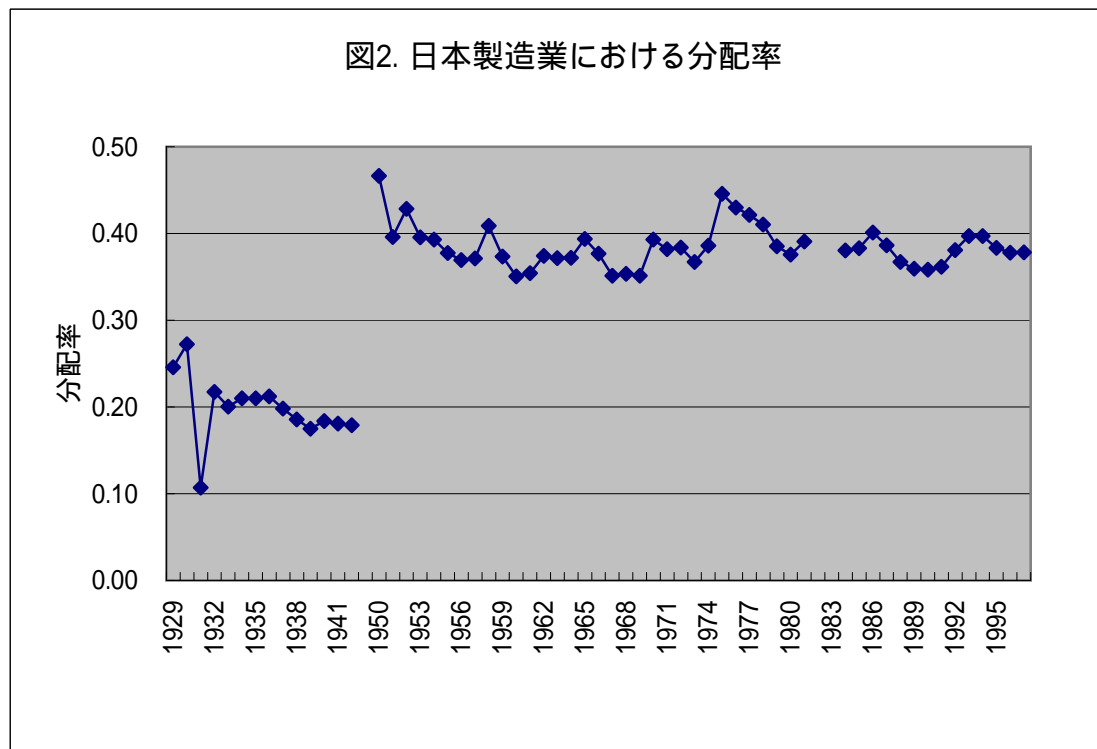
s_i i

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BPS-a-

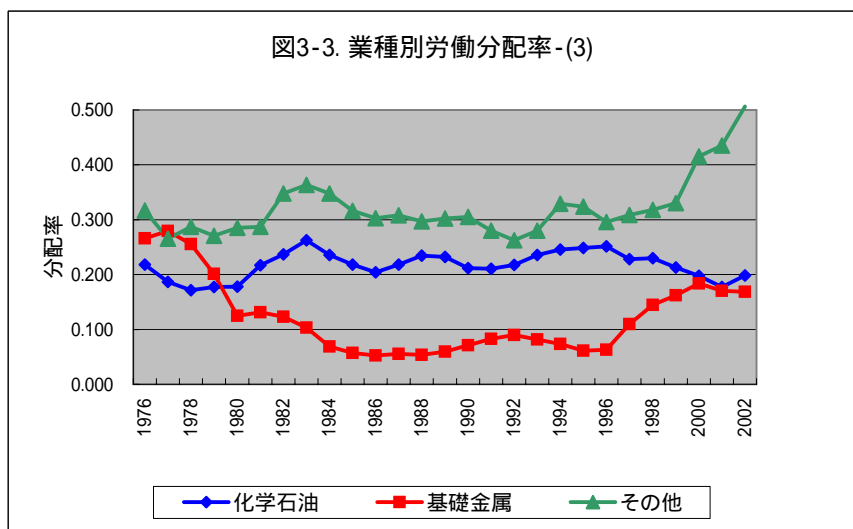
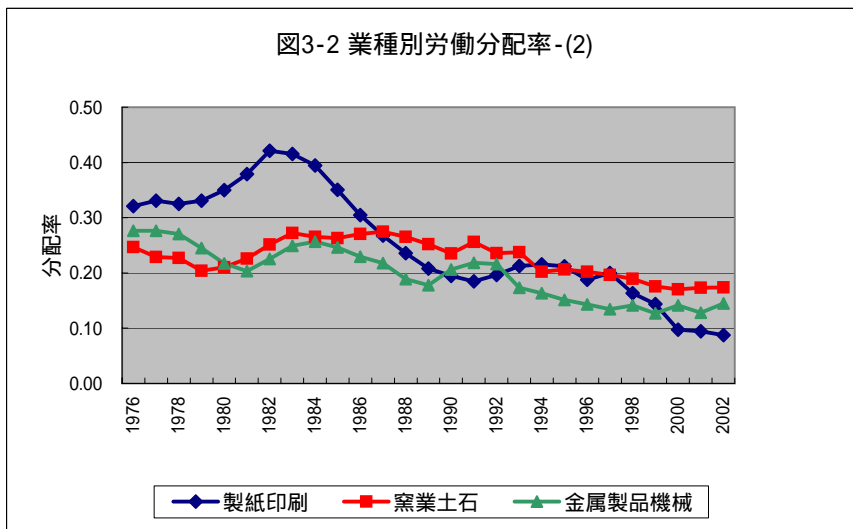
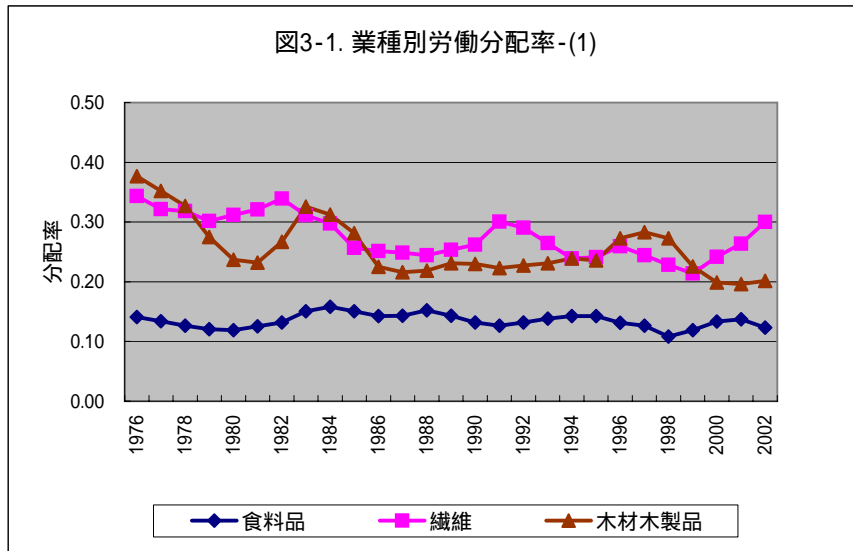
				1970	1970	15
1999	180	20		1993		
	14					
10		5	6			
	7	12				
11						
12		BPS-b-. <i>Statistic Upah Buruh Tani di Pedesaan</i>				
13						
	100					
14		Bautista et al. [1981]. pp. 31-46.				
15		[1976 1997]				
16		[2004], 121-124				
17		1997	7	11		
18					BPS	
19						
20		[1995]. p.9				
						Alisjahbana and Purnagunawan (2004)
21	<i>Statistik Industri Besar dan Sedang</i>		20	100		100
			20			
22					Hill [1997], 258	
		1.5435				
23						
			0.288		[2004]	
	0.558					
		[1999], 1-17				
0.57	1960					1930
		0.375		[1973], 89	Shintani [2003], 73	
			0.36			





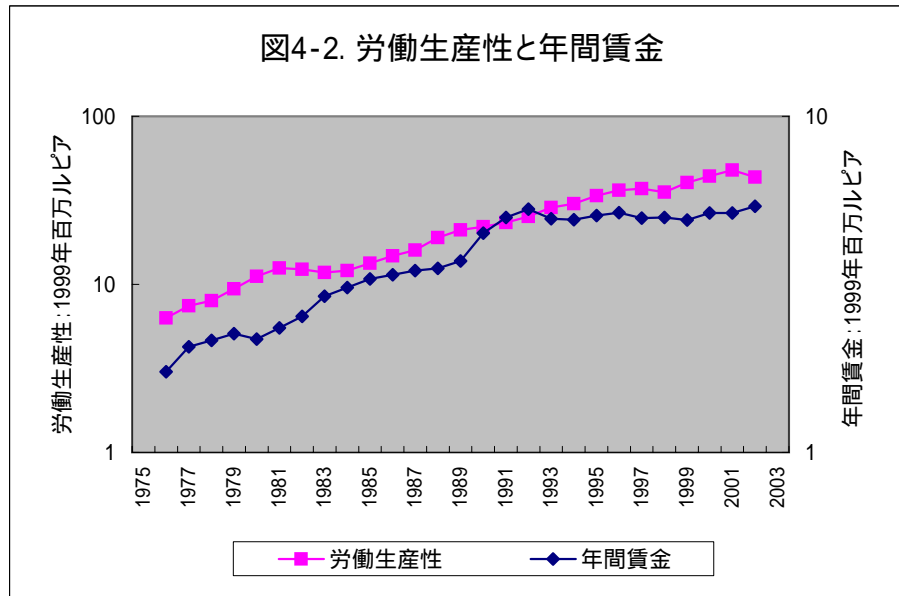
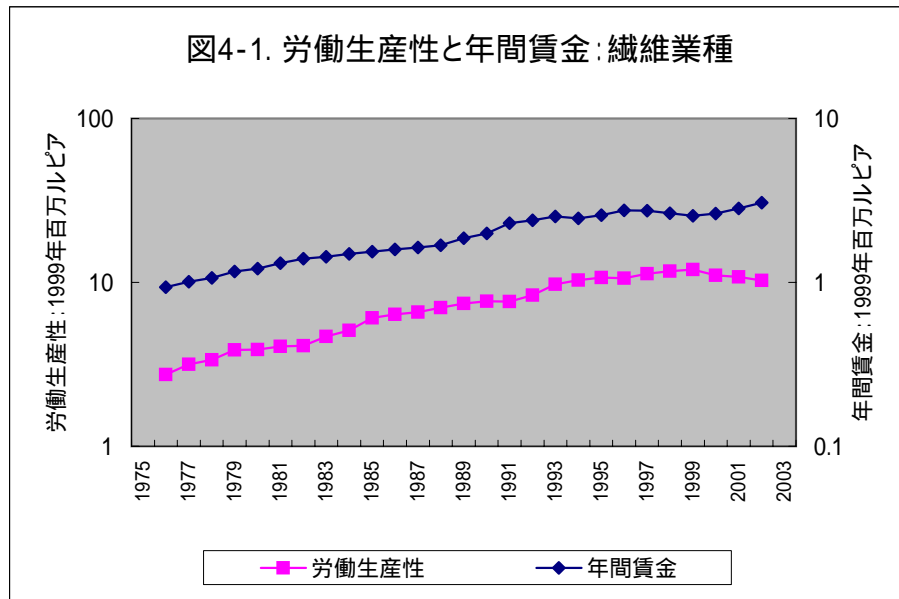
出所: 1) 1945年以前、通商産業大臣官房調査統計部[1961].
 2) 1950-75年、通産統計協会[1982].
 3) 1976-97年、通商産業大臣官房調査統計部[1984 ~ 1997]

図3 製造業業種別労働分配率



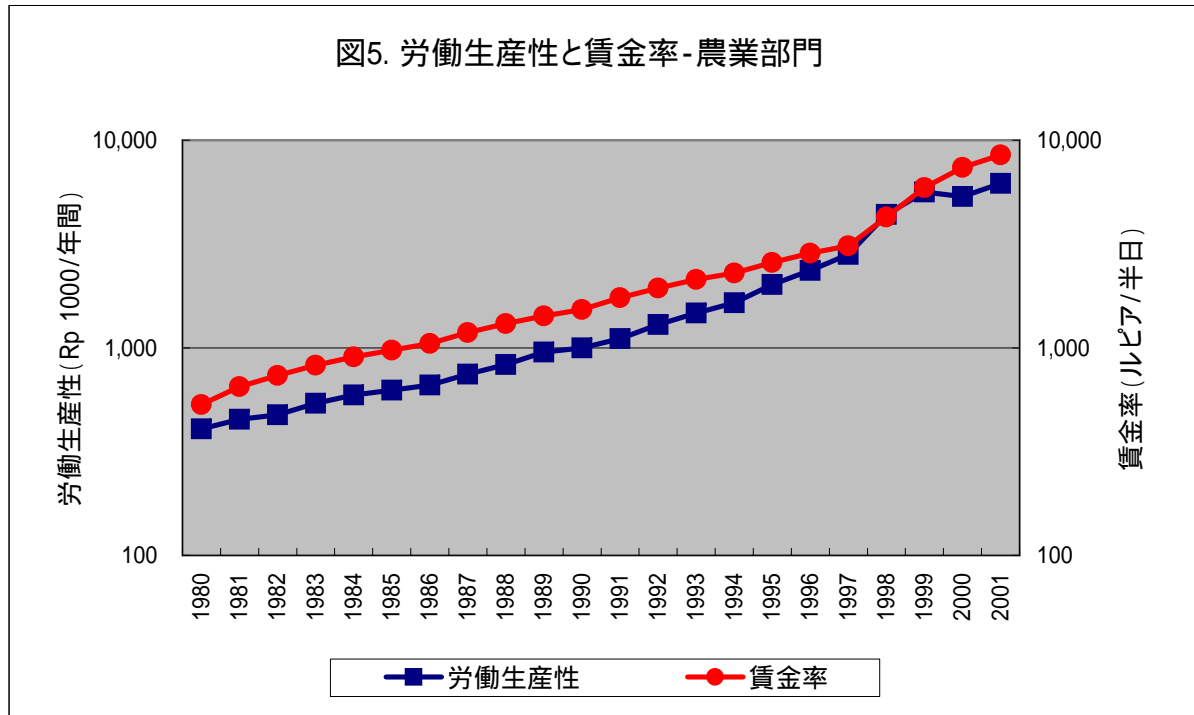
出所: BPS-c.

図4. 労働生産性と年間賃金



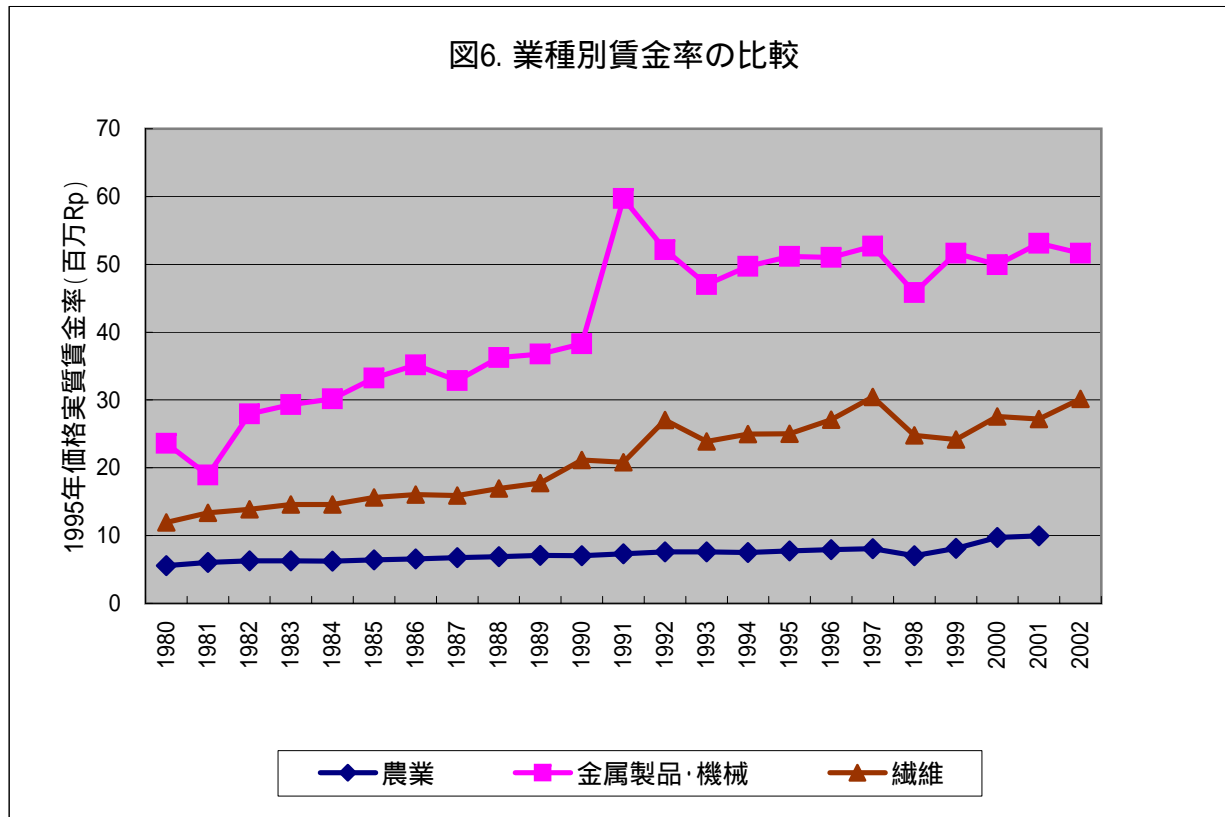
出所：BPS-c.

図5. 労働生産性と賃金率-農業部門



出所: 1) The World Bank [2001]
2) BPS-b.
3) BPS-d.

図6. 業種別賃金率の比較



出所：1) 繊維、金属製品・機械：BPS-c, BPS-g.
 2) 農業：BPS-d.

表1. 分配率変化の分解

期間	金属・機械					繊維				
	G(w)	G(L)	G(Y)	G()	変化	G(w)	G(L)	G(Y)	G()	変化
1977-1991	4043	5024	9.39	0.28		4.07	5.91	9.18	0.80	
1991-2001	-1.69	0.29	2.78	-4.18		-1.08	-0.43	0.75	-2.26	

出所：BPS-c.

表2. 生産関数計測結果

業種	定数	ln(k)	m	FDI	CG	LG	D ₁	R ² -adj	観測数		
繊維	1990	4.03	0.497 (32.42)	0.025 (12.57)	0.251 (2.85)	-0.386 (-1.88)	0.289 (1.09)	-0.199 (-5.77)	0.444	1,557	0.503
	1995	4.52	0.480 (30.13)	0.017 (9.28)	0.300 (4.62)	-0.960 (-2.54)	0.289 (0.59)	-0.249 (-6.95)	0.401	1,667	0.520
	1997	4.51	0.508 (27.32)	0.006 (4.79)	0.359 (4.99)	-0.729 (-1.00)	0.485 (1.15)	-0.356 (-8.21)	0.443	1,230	0.492
紙・印刷	1990	3.85	0.554 (13.38)	0.051 (5.51)	0.716 (2.72)	0.338 (1.06)	-1.270 (-2.00)	-0.367 (-3.89)	0.523	229	0.446
	1995	3.51	0.621 (15.30)	0.058 (6.12)	0.177 (0.99)	-0.394 (-0.90)	-0.202 (-0.56)	-0.239 (-2.91)	0.548	259	0.379
	1997	3.36	0.624 (12.93)	0.059 (6.44)	0.274 (1.37)	0.269 (0.67)	-1.414 (-2.15)	0.042 (0.43)	0.519	197	0.376
窯業・土石	1990	2.92	0.654 (24.36)	0.034 (8.89)	0.631 (6.62)	0.680 (3.79)	0.220 (0.42)	-0.214 (-3.51)	0.621	669	0.346
	1995	3.10	0.669 (26.96)	0.036 (9.14)	0.522 (5.58)	0.369 (1.93)	-0.087 (-0.25)	-0.231 (4.00)	0.608	773	0.331
	1997	2.79	0.714 (25.71)	0.035 (8.43)	0.503 (5.33)	0.140 (0.63)	-0.805 (-1.02)	-0.215 (-3.27)	0.621	611	0.286
金属・機械	1990	3.83	0.537 (18.62)	0.080 (10.75)	0.497 (5.02)	0.144 (0.59)	0.055 (0.09)	-0.314 (-4.77)	0.471	720	0.463
	1995	4.00	0.586 (23.76)	0.026 (8.09)	0.326 (4.12)	0.641 (1.72)		-0.338 (-6.02)	0.542	777	0.414
	1997	3.95	0.600 (23.03)	0.007 (3.80)	0.288 (3.48)	0.110 (0.31)	1.000 (1.76)	-0.178 (-2.77)	0.527	674	0.400

出所: BPS-e.

表3 これまでの生産関数の推計結果

データの種類	推計者	業種	推計対象年	資本生産弾力性	備考
クロスセクション	Hill	繊維(衣服)	1985	0.478	西ジャワのデータ
クロスセクションと 時系列の混合	Chamarbagwala, et al.	機械	1975 ~ 1990	0.572	インドネシア、フィリピン、インド、マレーシアのデータ
クロスセクション	Hayashi	機械(部品下請生産業)	1996	0.20	ジャカルタ、スカブミ、バンドン、スラバヤの54小規模企業

出所: 1) Hill [1997]. p. 257.
 2) Chamarbagwala, et al. [2000]. pp.393-398.
 3) Hayashi [2002]. pp. 1-26.