

98-5

:
:

1997

80

가 IMF

가

가
21

가

가

가

가

가

가

가

II

가, III

가, IV

가, V

가

[]

1.

1970 1997 7.7 %
가 3.1%
IMF 2.5%
IMF 가
가

(macro economic policy

implications)

World Bank, ILO

가

가

가 , 2010

(30)
(10)

가
가

가 , 가 ,

3가

. 1)

가

. 2)

50)

(

. 3)

II , III , IV

(Reverse tracer survey)

(Match)

500

1)

‘ ,

. 2)

(Based on Job Based on Competence)

. 3)

가

. 4)

(Skill Market)

. 5)

가 (失機)

.

가

,

.

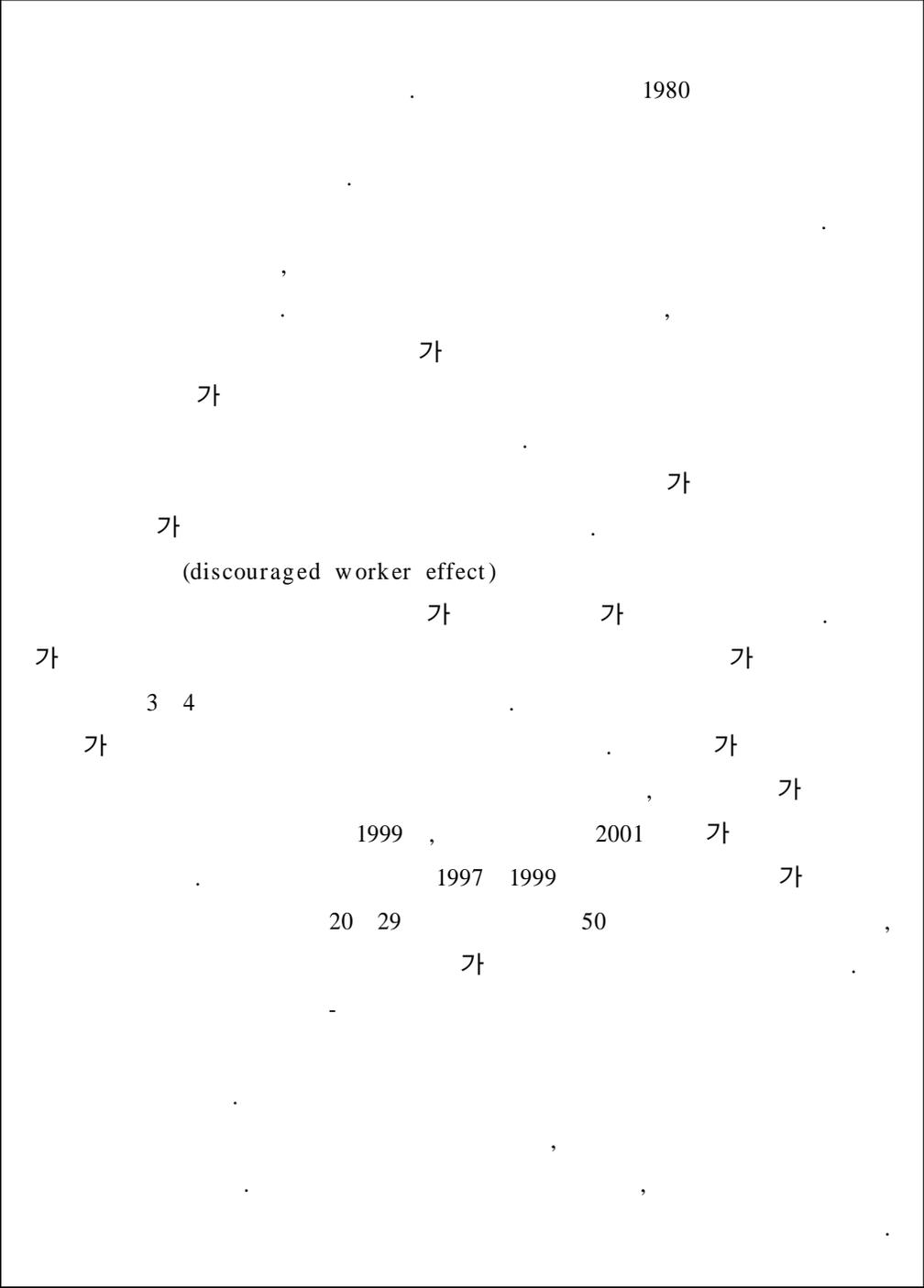
2.

.

.

.

.



1998

가

가

가

가

가

,

가

가

가

가

가

가

가

가

가

,

가

가

(skill mismatch)

OECD

가

1980

가

가

3.

가

가

가

가 가

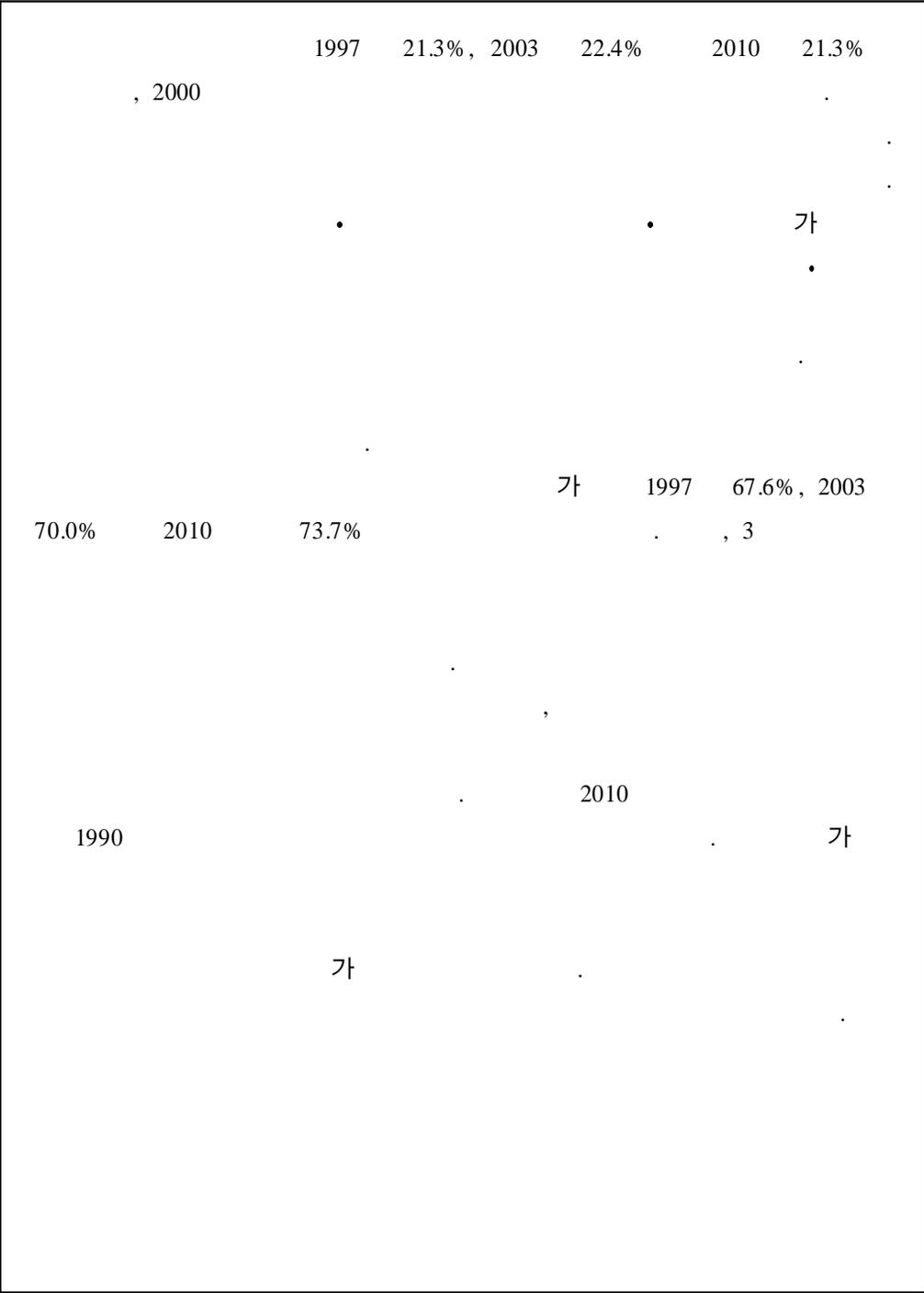
가

가

가

가

가



4.

가.

< IV - 10 >

8.9% , 12.5% ,

16.2% . <

IV - 9 > 1986

8.8% 1986

1.4%p .

가가

, 가

가가 가 가

. 가

. 가

< IV - 19 >

가 가 가

. 가 가

, 가 가

. 가 가

, R&D 가 . 가 가

가

가

가 가

< IV - 20 >

産業內(intra industries), 産業間(between industries)

가가

가,

가,

가

가,

가,

가

가

< IV - 21 >

가

가

가

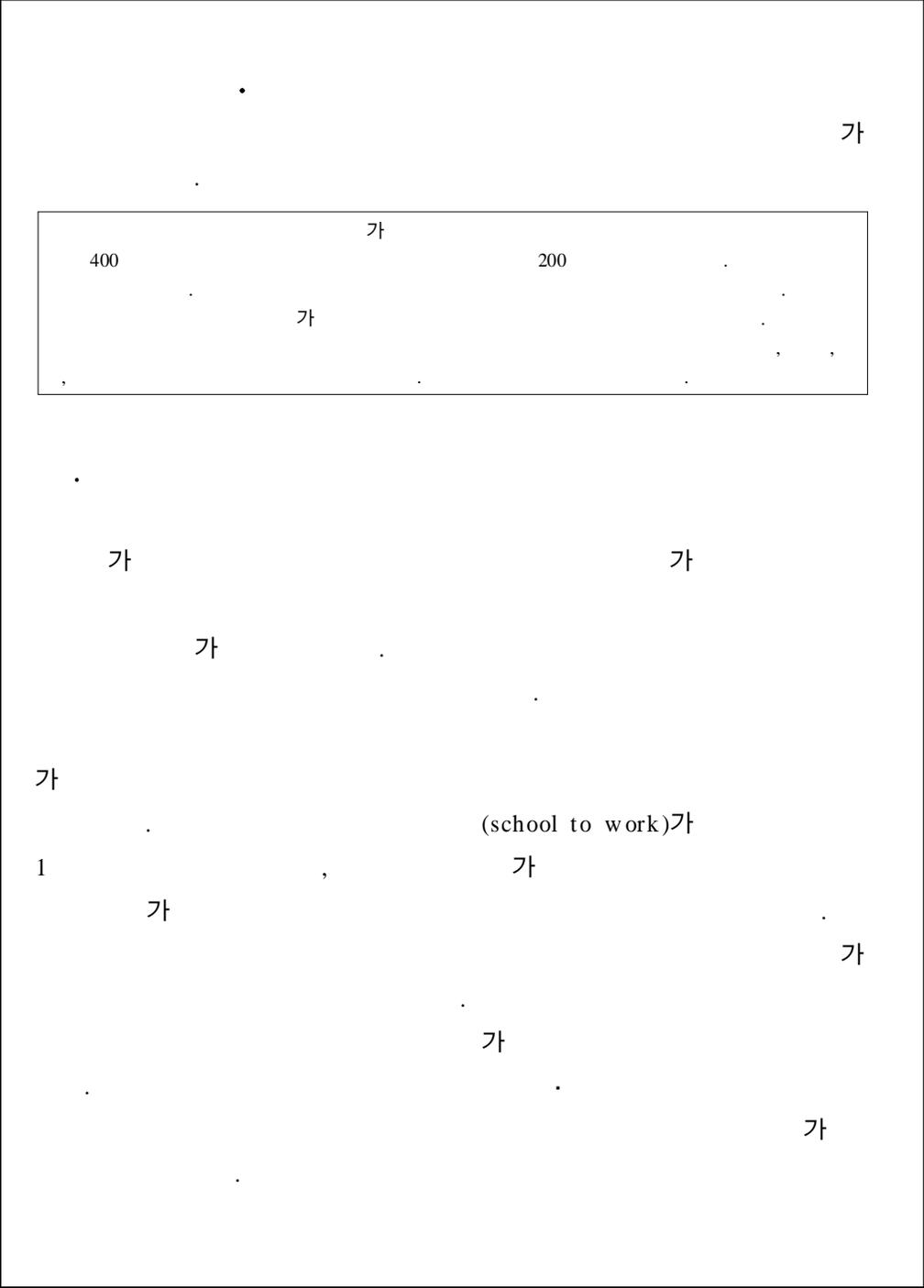
가

.(412)

가

.(315:)

가 .
()
5.
가.
' ,
가가 ,
가가 . 가
2 가 가
가 .
' ,
가 .
가 가



가

가

1992 93	MBA	景氣
	MBA가	60 景氣外的
	MBA	70%
MBA 1	MBA	6 MBA MBA

30

가

가

가

I.	.....	1
1.	.....	1
2.	.....	3
3.	.....	4
4.	.....	7
•	.....	9
1.	.....	9
2.	가	17
3.	.....	35
•	.....	69
1.	.....	69
2.	.....	82
3.	.....	100
IV.	.....	115
1.	.....	115
2.	.....	116
3.	.....	122
4.	, ,	124
5.	.....	132
6.	.....	145
7.	가 , 가 ,	163

8.	.....	177
V.		..... 181
1.		..... 181
2.	.....	194
3.	.....	196
	.....	215
	.....	225
	.....	229

< I- 1>		.....	3
< I- 2>	가 , 가 ,	.....	4
< II- 1>	『 』 「 」 15	.....	10
< II- 2>	· (1995 )	.....	10
< II- 3>	15	.....	11
< II- 4>	15	.....	13
< II- 5>		.....	14
< II- 6>		.....	14
< II- 7>		.....	16
< II- 8>		.....	17
< II- 9>	가	.....	18
< II- 10>		.....	19
< II- 11>	가	.....	22
< II- 12>	(15- 29 )	.....	23
< II- 13>	가	.....	24
< II- 14>	가	.....	27
< II- 15>	가	.....	29
< II- 16>	가	.....	30
< II- 17>	가	.....	31
< II- 18>	가	.....	31
< II- 19>	가	.....	32
< II- 20>		.....	33
< II- 21>	가	.....	34
< II- 22>		.....	35
< II- 23>		.....	36
< II- 24>		.....	37
< II- 25>	(25 )	.....	37
< II- 26>	(25- 64 , 1995)	.....	38

< II- 27>	(1995)	38
< II- 28> 18- 25	(1995)	39
< II- 29>	.....	40
< II- 30>	()	41
< II- 31>	.....	42
< II- 32>	.....	43
< II- 33>	(1995)	43
< II- 34>	.....	44
< II- 35>	.....	45
< II- 36>	(1996)	46
< II- 37> 25- 64	.....	47
< II- 38> 25	.....	47
< II- 39>	.....	50
< II- 40>	.....	51
< II- 41>	.....	52
< II- 42>	.....	53
< II- 43>	.....	54
< II- 44>	.....	55
< II- 45>	(1997)	56
< II- 46>	.....	57
< II- 47>	.....	58
< II- 48>	.....	58
< II- 49>	.....	59
< II- 50>	(1996)	62
< III- 1> 가	.....	74
< III- 2>	.....	83
< III- 3>	.....	87
< III- 4>	.....	88
< III- 5> 가	(1992)	90
< III- 6>	.....	94
< III- 7>	.....	95

< III- 8>	.....	96
< III- 9>	.....	100
< III- 10>	.....	102
< III- 11>	가	105
< IV- 1>	.....	122
< IV- 2>	, ,	127
< IV- 3>	가 가 30 ()	129
< IV- 4>	가 가 30 ()	130
< IV- 5>	가 가 30 ()	131
< IV- 6>	, (1996)	133
< IV- 7>	(3 digit) ,	135
< IV- 8>	(3digit) ,	140
< IV- 9>	(B/C)	146
< IV- 10>	, , (1996)	147
< IV- 11>	, ..	148
< IV- 12>	..	150
< IV- 13>	.	152
< IV- 14>	.....	153
< IV- 15>	.....	155
< IV- 16>	.....	157
< IV- 17>	, 1/2 .	160
< IV- 18>	, 1/2 ..	162
< IV- 19>	가	167
< IV- 20>	가	171
< IV- 21>	.....	176
< - 1>	.	183
< - 2>	(1)	185
< - 3>	(7)	186
< - 4>	(7)	187
< - 5>	....	188
< - 6>	.....	191

< -7>	.....	192
< -8>	.....	194

[II- 1]	.....	12
[II- 2]	.....	15
[II- 3]	가 () (: %)	21
[II- 4]	가 () (: %)	21
[II- 5]	(1997)	60
[II- 6]	(1985)	61
[II- 7]	.....	66
[II- 8]	.....	67
[II- 9]	.....	68
[III- 1]	.....	92
[III- 2] OECD	.....	97
[III- 3]	.....	99
[III- 4] 가	.....	106
[V- 1]	가	213

I.

1.

가.

	1970	1997	7.7 %	
				가 3.1%
IMF			2.5%	
		IMF		가
		가	1)	
	가			
		가		
				가

1) *The East Asian Miracle: Economic Growth and Public Policy*. The World Bank (1993).

가
가 (reference indicator)

(macro economic policy implications)

World Bank, ILO

(time lag) 21
가

가

가

2.

가 2008

가 , 가
(30)
(10)

< I-1 >

	/
	, , ,
	(가가)
가	, , 가 ,
	, ()
	, , ,
	, ()
	가 , ,
	, (,)

가 , 가 , .

< I-2> 가 , 가 ,

	/
ㄱ	
ㄴ	
Mincer	(,), (,),
	, (,), (,),
), /
가	가
가	가

3가

3.

1) 가

RAS

2)

50)

(

가

가

가

(1996),

(1996)

1992 (

), 1994- 1995 (

)

가

2)

2)

(Job Vacances)가 가 ,

가

가

가

가

가

가

III

, (BLS)

2,000 , 『96

』

『96

』 가 가

』 『96

』

J. Mincer

3) II , III , IV

(reverse tracer survey)

(Match)

500

4.

(精度),

가 ('91. , 92')
가

가
()

(Market Signal Approach Method)

가
가 (raw data tape) , survey
)

가 가 『96

』

가

(skill market)

x

가
(Message)

•

1.

가.

15 가

가

15

(1995 2030)』(, 1996)가 『 』 1995 『
 』() 1995 2030 . 『
 『
) 3). 『 (15
 『 』 15 < II-1>

가

1995 『
 『 < II-2> . 『 /

1995 2010

3) 『 』, 1997.

< II-1> 『 』 『 』 15 (:)

	(A)			(B)			A - B		
1995	34,556	17,168	17,388	33,558	16,251	17,307	998	917	81
1996	35,135	17,456	17,679	34,182	16,590	17,593	953	866	86
1997	35,700	17,737	17,963	34,736	16,870	17,866	964	867	97

: 『 』 『 』, 1996.
『 』 『 』 『 』

< II-2> . (1995) (: , %)

15- 19	3,863	3,798	98.3	1,987	1,922	96.7	1,876	1,876	100.0
20- 24	4,304	3,713	86.3	2,238	1,648	73.6	2,066	2,065	99.9
25- 29	4,138	4,110	99.3	2,078	2,051	98.7	2,059	2,059	100.0
30- 34	4,230	4,221	99.8	2,146	2,137	99.6	2,084	2,083	100.0
35- 39	4,134	4,126	99.8	2,103	2,096	99.6	2,031	2,030	100.0
40- 44	3,071	3,065	99.8	1,580	1,574	99.6	1,491	1,491	100.0
45- 49	2,464	2,460	99.8	1,262	1,258	99.7	1,203	1,202	100.0
50- 54	2,065	2,062	99.8	1,030	1,027	99.7	1,035	1,035	100.0
55- 59	1,913	1,912	99.9	924	923	99.9	990	990	100.0
60+	4,135	4,134	100.0	1,648	1,647	99.9	2,487	2,487	100.0
	34,319	33,601	97.9	16,996	16,283	95.8	17,323	17,318	100.0

: 『 』 『 』, 1 () , 5 () , 1995.

< II-3> 4).

, 1995 . ‘ , ’

4) 1995 1997 『 』 『 』 가 『 』가 1995 『 』가 『 』가 3 『 』가 『 』가 1990 『 』가 『 』가

< II-3> 15

(: , %)

	(A)	(B)	(A - B)
1998	36,213 (1.4)	35,540 (1.5)	673
1999	36,656 (1.2)	35,995 (1.3)	661
2000	37,042 (1.1)	36,385 (1.1)	657
2005	38,703 (0.9)	38,068 (0.9)	635
2010	40,538 (0.9)	39,980 (0.9)	558
2015	42,162 (0.7)	41,551 (0.7)	611
2020	43,345 (0.5)	42,736 (0.5)	609

: 가 .
: , 『 』, 1996

1) 15

가

15

가

,

가

. 1960

15

가

가

[II-1]

1990

가

가

가

1960

2 3%

1970

1%

1985

1%

, 0.9%

1995-2000

0.9%,

2000-2005

0.8%,

2005-2010

0.6%,

2010-2015

0.4%,

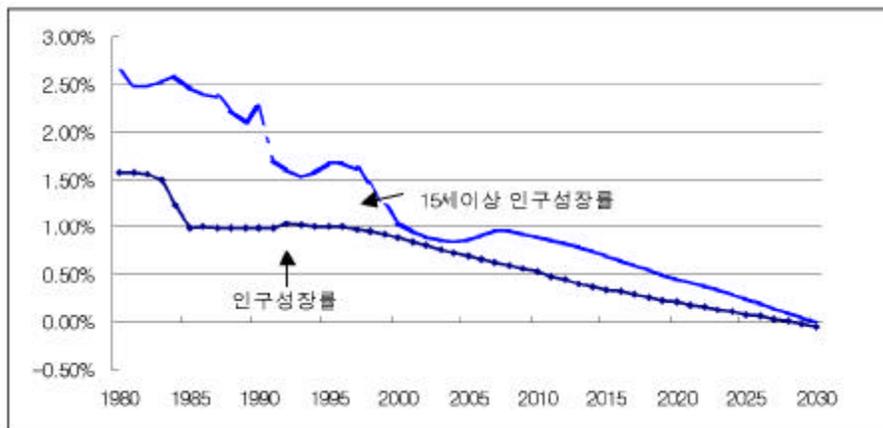
2020-2025

0.1%

, 2028

0.0%

가 , .
 15 가 1990 .
 가 1980 2% 가 .
 , 1980 1% .
 가 1995 49.7 2010 32.5
 15 가 , 가



[II-1]

< II-4> 15

(: , %)

		15	
			가
1990	42,869,283 (1.02)	31,895,691 (1.62)	532,094
1995	45,092,991 (0.95)	34,556,163 (1.40)	497,113
2000	47,274,543 (0.77)	37,041,730 (0.88)	332,158
2005	49,123,386 (0.60)	38,702,522 (0.93)	367,056
2010	50,617,752 (0.42)	40,537,803 (0.79)	324,844
2015	51,677,306 (0.26)	42,162,025 (0.56)	236,688
2020	52,358,327 (0.13)	43,345,463 (0.34)	146,615

: 1) 가
 2) 가 가 5
 : , 『 , 1996.

2)

가

< II-5>

, 0 14

1995 23.4%
 2000 21.7%, 2005 21.2%, 2010 19.9%, 2020 17.2%
 . 15 64 가
 1995 70.7% 1999 71.4% 가 2000 71.2%,
 2005 2010 70.1%, 2020 69.6%
 . 65 1995
 5.9% 2000 7.1%
 2005 8.7%, 2010 10.0%, 2020 13.2%

< II-6>

25 39 2000 30 40

(30-54)

. 1998 25 39 15

35.8% , 25 39
 2000 34.7%, 2005 31.9%, 2010 29.0%
 . 30 54 2005
 가 , 1998 46.8% 2000
 48.1%, 2005 50.5%, 2010 49.9% 가 , 가

< II-5>

(: , %)

		0-14	15-64	65	
1980	38,124	34.0	62.2	3.8	6.1
1990	42,869	25.6	69.3	5.1	7.4
1995	45,093	23.4	70.7	5.9	8.3
2000	47,275	21.7	71.2	7.1	10.0
2005	49,123	21.2	70.1	8.7	12.3
2010	50,618	19.9	70.1	10.0	14.2
2020	52,358	17.2	69.6	13.2	18.9

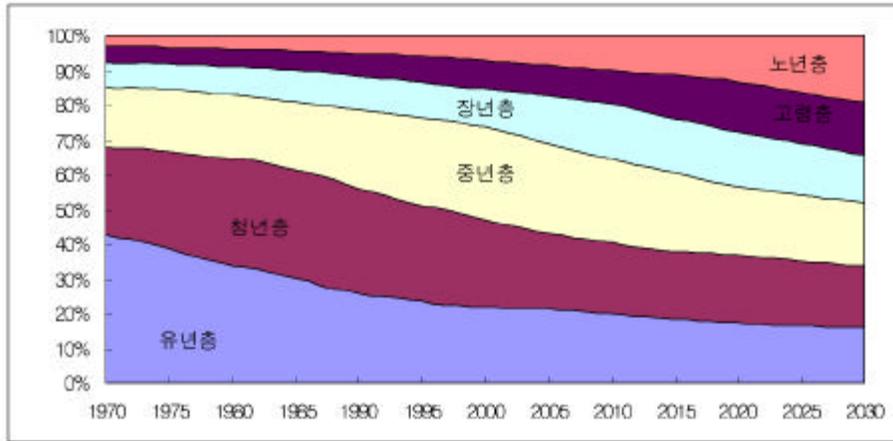
: (65 / 15-64) × 100 .
 : , 『 , 1996

< II-6>

(: , %)

	1995	1998	2000	2005	2010
(15-29)	12,589 (36.4)	12,454 (34.4)	12,005 (32.4)	10,713 (27.7)	10,312 (25.4)
(25-39)	12,689 (36.7)	12,970 (35.8)	12,849 (34.7)	12,335 (31.9)	11,774 (29.0)
(30-54)	15,894 (46.0)	16,955 (46.8)	17,833 (48.1)	19,555 (50.5)	20,243 (49.9)
(55)	6,073 (17.6)	6,804 (18.8)	7,203 (19.4)	8,434 (21.8)	9,984 (24.6)

: 15
 : , 『 , 1996.



[II-2]

: 0-14 , 15-29 , 30-44 , 45-54 , 55-64 ,
 65 .
 : 『 『 』, 1996.

3)

15-29 1991 가 1995
 1,259 2000 1,201 , 2005 1,071 , 2010 1,031
 . 2000-2004 -2%

가

15-17 1998 243
 2004 186 , 1998-2004
 57 .

18-21 가
 1998 310 2000 323
 2007 248 .

< II-7 >

(: , %)

1980	11,685,893 (1.8)	2,670,705 (0.3)	3,631,634 (-1.3)
1985	12,780,005 (0.5)	2,708,942 (-0.9)	3,394,665 (1.5)
1990	13,111,170 (-0.8)	2,594,656 (-2.0)	3,663,317 (-2.5)
1995	12,589,284 (-0.9)	2,349,375 (-1.8)	3,224,693 (0.0)
2000	12,005,391 (-2.3)	2,149,921 (-2.6)	3,230,715 (-4.2)
2005	10,713,178 (-0.8)	1,879,969 (-2.5)	2,610,236 (0.0)
2010	10,311,545 (-0.6)	2,124,622 (-0.3)	2,615,121 (1.5)

: 1) 15-29 , 15-17 ,
18-21 .
2) 5 .
: , 『 』, 1996.

4)

가
15-64
가 1995 70.7% (69.6%),
(68.8%), (65.5%), (65.4%) ,
2010 . 65 1995
5.9% (15.5%), (15.2%), (14.1%), (12.6%)
, 2020 가
. 15-64 가 가
1995 8.3% (23.8%),
(22.7%), (22.1%), (19.3%)
가

< II-8 >

(: %)

							1995	2010
	1995			2010				
	0-14	15-64	65+	0-14	15-64	65+		
	22.0	65.4	12.6	20.3	66.8	12.9	19.3	19.3
	19.5	65.0	15.5	18.1	66.2	15.7	23.8	23.7
	16.0	68.8	15.2	13.1	67.7	19.2	22.1	28.4
	19.6	65.5	14.9	17.6	66.2	16.2	22.7	24.5
	20.8	67.4	11.8	19.5	67.2	13.3	17.5	19.8
	19.0	63.7	17.3	18.9	63.2	17.9	27.2	28.3
	16.3	69.6	14.1	15.3	64.2	20.5	20.3	31.9
	23.4	70.7	5.9	19.9	70.1	10.0	8.3	14.2

: = 65 / 15-64
 : 『 』, 1996, p. 54

2. 가

가. 가

1) 가

가 가 (15)

,
 가 가
 가

1980 . < II-9 >

가 1985 56.6% 1997 62.2%

가

가 , 1963 78.4% 1984

72.1% 가 1986 1997

75.6% . 1963 37.0%

가 1997 49.5% 12.5% 가 .

가 1980 . 80
 가 43% ,
 1987 가

< II-9> 가
 (: , %)

	1963	1970	1975	1980	1985	1990	1995	1997
	8,230	10,062	12,193	14,431	15,592	18,539	20,797	21,604
가	56.6	57.6	58.3	59.0	56.6	60.0	62.0	62.2
	5,395	6,447	7,822	9,019	9,617	11,030	12,433	12,761
가	78.4	77.9	77.4	76.4	72.3	74.0	76.5	75.6
	2,835	3,615	4,371	5,412	5,975	7,509	8,364	8,843
가	37.0	39.3	40.4	42.8	41.9	47.0	48.3	49.5
가	41.4	38.6	37.0	33.6	30.4	27.0	28.2	26.1

: , 『 』, .

< II-10> , 가
 1963 65.6% 1997 59.1% ,
 34.4% 40.9% 가 가가
 , 15-24
 가 1963 26.0% 1997
 11.5% , 25-54
 65.4% 72.4% . 55 1963 8.6%
 1997 16.0% 가 .

< II- 10>

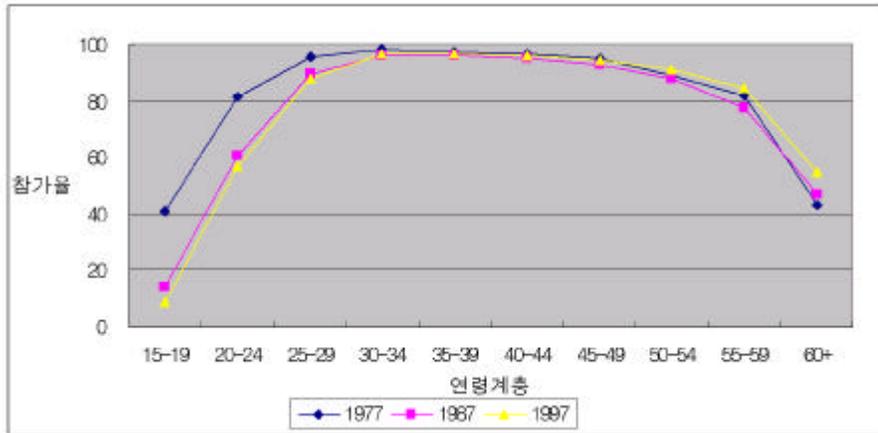
(: , %)

	1963	1973	1983	1993	1997
	8,230 (100.0)	11,389 (100.0)	15,118 (100.0)	19,802 (100.0)	21,604 (100.0)
	5,395 (65.6)	7,189 (63.1)	9,305 (61.5)	11,890 (60.0)	12,761 (59.1)
	2,835 (34.4)	4,200 (36.9)	5,814 (38.5)	7,913 (40.0)	8,843 (40.9)
15- 24	2,142 (26.0)	2,801 (24.6)	2,814 (18.6)	2,690 (13.6)	2,495 (11.5)
25- 54	5,383 (65.4)	7,441 (65.3)	10,672 (70.6)	14,328 (72.4)	15,649 (72.4)
55	705 (8.6)	1,147 (10.1)	1,632 (10.8)	2,784 (14.1)	3,460 (16.0)

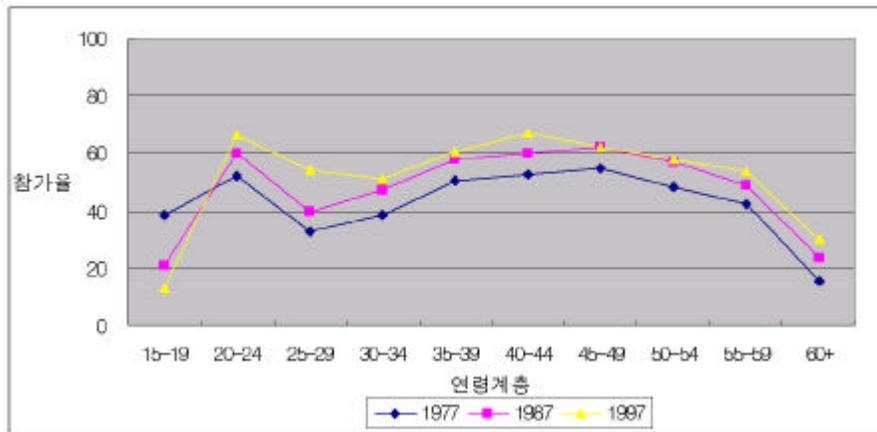
:
: , 『 30 』, 1994; , 『 』, 1997.

2) 가
가 가
가 < II-9> 가 1980
1997 , 가 76.4% 75.6%
, 42.8% 49.5%
가 가
가
[II-3] 가 , 15
가 가 30
U 가
[II-4] M ,
가 15- 19 가 20- 24 1
25- 29 . .
가 가

. 40 2 .
 가 [II-3] ,
 15-24 가 24-54
 , 55 가 가
 . 15-29 가
 15-19 가 ,
 가 20-24 가
 , 25-29 가 . ,
 1990 20
 가 30-44
 가 96% , 45-54 93%
 가
 55 가
 가 [II-4]
 , 15-19 가
 , 가
 1980 20-24 25-29
 가 . 1990
 35-44 가
 가 2 45 -49 90
 40-44 .



[II-3] 가 () (: %)



[II-4] 가 () (: %)

3) 가
 (15-24) 가 가
 , 가
 70% , 가
 , 30%

가
30
20

< II-11>
가 가

< II-11> 가 (: %)

	가 (1997)			(1995)	
	15-24			18-21	22-25
	65.4	68.2	62.6	34.7	20.7
	70.5	74.6	66.1	25.8	9.3
	52.1	56.1	47.8	10.6	17.0
OECD	51.5	56.8	46.2	-	-
	34.4	28.2	39.8	34.1	16.3

: = /
: OECD, *Employment Outlook*, 1998
OECD, *Education at a Glance: OECD Indicators*, 1997, p. 172.

1997
13.5% (< II-12>).

. 20-24
가 , 25-29

가 .

< II- 12> (15- 29)

(: , %)

	15- 19	3,937	3,512	89.2	85.7	3.5
	20- 24	3,313	1,243	37.5	25.1	12.5
	25- 29	4,165	1,189	28.5	4.9	23.6
		11,415	5,944	52.1	38.6	13.5
	15- 19	1,996	1,824	91.4	87.3	4.1
	20- 24	1,368	590	43.1	34.0	9.1
	25- 29	2,128	253	11.9	8.2	3.7
		5,492	2,667	48.6	43.4	5.2
	15- 19	1,941	1,688	87.0	84.0	2.9
	20- 24	1,945	653	33.6	18.8	14.8
	25- 29	2,037	935	45.9	1.4	44.5
		5,923	3,276	55.3	34.2	21.1

- 1)
- 2) 가 , , .
: , 『 , 1997.』

4) 가

15 가 1997
62.2% 1995 (62.9%), (66.6%)
가 . OECD 15- 64
가 , 1997 가 65.3%
, (77.4%), (76.8%), (72.6%), (76.2%)
, OECD 가
69.7% 가
가
10% 가
가 80 가

가
가
가
가
가

< II- 13> 가

(: %)

가								OECD	
15 ¹⁾	66.6	62.2	53.1		64.3	62.9			62.2
15- 64 ²⁾	77.4	76.2	70.4	74.9	76.8	72.6	69.7		65.3
		84.2	84.4	79.3	81.8	79.1	85.4	81.0	78.1
		70.7	68.0	61.4	68.0	74.5	59.7	58.5	52.7
	15- 24	65.4	70.5	52.1	61.2	46.8	48.6	51.5	34.4
	25- 54	84.1	83.3	83.3	83.8	86.8	82.2	80.2	76.6
	55+	58.9	51.7	43.7	48.4	67.6	66.9	50.2	63.4

1) 1995 가 , 1997 가 .

2) 1997 가

: , 『KLI 』, 1996; OECD, *Employment Outlook*, 1998.

. 가

1) 가

가

가 .

가
(,
1996; , 1995; , 1990)
가
가
(24
)
가
가
가
(
, 1996; , 1996; , 1997)
가
80
, 1980
가가 , 가가
1997
가
가 ,

가

가

가 가

가

< II- 14>

가 . 1998

1-8

가 60.7% , 1.5%p가

, 0.3%p, 2.6%p가

가

가

가

가

< II- 14 >

가

(: %)

가									
	1997	1998 1- 8		1997	1998 1- 8		1997	1998 1- 8	
15- 19	10.8	11.0	0.2	8.6	9.3	0.7	13.0	12.7	- 0.3
20- 24	62.5	58.8	- 3.7	56.9	54.5	- 2.4	66.4	61.7	- 4.7
25- 29	71.5	69.5	- 2.0	88.1	87.4	- 0.7	54.1	51.6	- 2.5
30- 34	74.7	72.0	- 2.7	96.8	96.4	- 0.4	50.9	47.1	- 3.8
35- 39	79.2	77.8	- 1.4	96.9	96.1	- 0.8	60.5	58.2	- 2.3
40- 44	81.7	79.6	- 2.1	96.2	95.4	- 0.8	67.0	63.3	- 3.7
45- 49	78.7	78.1	- 0.6	94.7	94.1	- 0.6	62.2	61.1	- 1.1
50- 54	75.0	73.6	- 1.4	91.2	92.1	0.9	58.0	55.0	- 3.0
55- 59	68.9	65.8	- 3.1	84.8	81.4	- 3.4	53.8	50.3	- 3.5
60+	40.2	37.7	- 2.5	54.7	52.0	- 2.7	30.1	27.4	- 2.7
	62.2	60.7	- 1.5	75.6	75.3	- 0.3	49.5	46.9	- 2.6

: , 『 』, 1997; 『 』, 1998 raw data.

1998 가 1.5%p
 , 가 1998 1 8 .
 가 1999
 , 2.0%
 가
 (1985- 1997) 1999 . 가
 .
 가 2000 가 , 1980
 1997 . 가
 가 . i 가

$$EPR_{i,t} = a_0 + a_1 EPR_{i,t-1} + a_2 \log(GDP)_t + a_3 HR + a_4 UR$$

EPR : 가 , GDP : ,

HR : , UR :

가 (1996) .
 (1995)
 (= / × 100) .

가
 , 『 』() . 15 24
 가가 가 가 .
 15 19 가 『 』()
 , 20 24
 5).

가
 < II- 15>, < II- 16> .
 99% 15 19 가
 , 20 24
 가
 가 , 가

2000 가
 5) 가
 가
 가 15 17 , 18 21
 15 24 가
 , 公刊 『 』

가 2002

가

1997

< II- 15 > 가 (1980 1997)

		EPR _{t-1}	LGDP	MU	MH	R ²	DW
EPR ¹⁵⁻¹⁹	9.531 (0.826)	0.891 (12.071)			-0.090 (-0.841)	0.969	2.013
EPR ²⁰⁻²⁴	6.037 (1.537)	0.943 (22.161)		-0.054 (-2.112)		0.972	1.468
EPR ²⁵⁻²⁹	41.318 (2.546)	0.701 (5.396)	-1.191 (-2.651)			0.840	1.447
EPR ³⁰⁻³⁴	34.1 (2.741)	0.661 (5.095)	-0.102 (-0.771)			0.519	1.720
EPR ³⁵⁻³⁹	34.213 (2.425)	0.642 (4.309)	0.034 (0.227)			0.458	1.681
EPR ⁴⁰⁻⁴⁴	39.409 (2.609)	0.562 (3.377)	0.222 (1.093)			0.443	1.758
EPR ⁴⁵⁻⁴⁹	24.819 (2.001)	0.704 (4.972)	0.255 (0.969)			0.596	1.545
EPR ⁵⁰⁻⁵⁴	40.157 (2.902)	0.490 (2.847)	0.498 (1.348)			0.432	1.749
EPR ⁵⁵⁻⁵⁹	20.025 (1.762)	0.671 (4.550)	0.593 (0.886)			0.551	1.615
EPR ⁶⁰⁺	-5.449 (-0.768)	0.672 (4.482)	1.844 (1.865)			0.818	2.258

: () t

< II- 16 >

가

(1980 1997)

		EPR ₁	LGDP	FU	FH	R ²	DW
EPR ¹⁵⁻¹⁹	26.445 (2.399)	0.744 (7.502)			-0.249 (-2.454)	0.978	1.668
EPR ²⁰⁻²⁴	-60.278 (-4.556)	0.400 (2.863)	8.430 (4.687)	-0.078 (-2.942)		0.976	2.092
EPR ²⁵⁻²⁹	-26.085 (-3.481)	0.855 (9.475)	2.773 (3.102)			0.971	1.940
EPR ³⁰⁻³⁴	-15.677 (-2.124)	0.527 (3.003)	3.167 (2.630)			0.906	1.967
EPR ³⁵⁻³⁹	-19.474 (-2.829)	0.265 (1.619)	5.113 (3.981)			0.946	2.150
EPR ⁴⁰⁻⁴⁴	-13.753 (-1.693)	0.523 (3.133)	3.612 (2.556)			0.914	2.038
EPR ⁴⁵⁻⁴⁹	3.156 (0.507)	0.671 (5.064)	1.419 (1.391)			0.882	2.215
EPR ⁵⁰⁻⁵⁴	0.327 (0.047)	0.506 (3.626)	2.331 (2.173)			0.853	1.934
EPR ⁵⁵⁻⁵⁹	-18.012 (-1.828)	0.420 (2.371)	3.992 (2.690)			0.883	2.146
EPR ⁶⁰⁺	-24.772 (-2.267)	0.624 (3.935)	2.867 (2.387)			0.915	2.327

: () t .

2)

가

가 , 1997 62.2% 1998 60.7% ,
1999 61.0% 가 2000 61.9% , 2005 64.3% , 2010
64.5% . 1998 가

가

가

가

3 4

가

가

가

가

가

가

< II- 17 >

가

(: , %)

			가
1997	34,736	21,604	62.2
1998	35,540	21,563	60.7
1999	35,995	21,941	61.0
2000	36,385	22,524	61.9
2005	38,068	24,470	64.3
2010	39,980	25,790	64.5

(discouraged worker effect)가

1997

75.6% 1998 75.2% 0.4%p

1997

49.5% 1998 47.0% 2.5%p 가

가

1999 , 2001 가

가 76%

가 가

< II- 18 >

가

(: %)

가			
1997	62.2	75.6	49.5
1998	60.7	75.1	47.0
1999	61.0	75.2	47.4
2000	61.9	75.6	48.9
2005	64.3	76.6	52.5
2010	64.5	75.7	53.7

1996 2,156 2000 2,252

, 2005 2,447 , 2010 2,579 가 ,
 가 . 가
 가 .

< II- 19> 가 (: , %)

	1998	2000	2005	2010	가		
					1998- 2000	2000- 2005	2005- 2010
	21,563 (100.0)	22,524 (100.0)	24,470 (100.0)	25,790 (100.0)	2.2	1.7	1.1
	13,004 (60.3)	13,417 (59.6)	14,265 (58.3)	14,891 (57.7)	1.6	1.2	0.9
	8,558 (39.7)	9,107 (40.4)	10,205 (41.7)	10,899 (42.3)	3.2	2.3	1.3

가

,
 , 가
 (ΔL) ($\sum \Delta N A_i R_i$)
 ($\sum N \Delta A_i R_i$), 가 ($\sum N A_i \Delta R_i$)
 (, 1990, p. 43).

$$L = \sum N A_i R_i$$

$$\Delta L = \sum \Delta N A_i R_i + \sum N \Delta A_i R_i + \sum N A_i \Delta R_i + \text{㉞}$$

N : 15

N_i : i

$A_i = (N_i/N)$

R_i : i

가

가 1997- 1998 가
 . 2000
 가
 가 가 . 2000
 가 가 ,
 가

< II- 20>

(: %)

	1997- 1998	1998- 2000	2000- 2005	2005- 2010
	- 100.0	100.0	100.0	100.0
가	1242.3	53.3	53.6	93.1
	373.6	14.3	17.9	- 20.4
가	- 1688.0	30.4	24.5	25.8

가 < II- 21> , 1997 1999
 가 20 29 50
 가 ,
 가

가
 가 2000 , 15- 19 , 20- 24
 가
 가
 . 25- 54 가

가 . 가
 . 20 30 가
 가 . 가
 가 .

< II-21> 가 (: %)

	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	
1997	10.8	62.5	71.5	74.7	79.2	81.7	78.7	75.0	68.9	40.2	62.2
1998	11.0	58.6	69.8	72.3	77.6	79.6	77.8	73.6	65.5	37.5	60.7
1999	10.0	58.7	70.2	72.5	77.7	79.8	77.8	73.7	65.8	38.3	61.0
2000	9.1	59.2	70.9	73.4	78.8	80.7	78.4	74.6	67.7	39.0	61.9
2005	6.6	58.4	73.7	75.2	80.3	82.5	79.9	76.2	70.4	41.6	64.3
2010	5.5	57.1	75.9	76.0	81.2	83.6	80.7	77.0	71.6	43.7	64.5
1997	8.6	56.9	88.1	96.8	96.9	96.2	94.7	91.2	84.8	54.7	75.6
1998	9.3	54.5	87.4	96.4	96.1	95.4	94.1	92.1	81.4	52.0	75.1
1999	8.3	54.3	87.3	96.4	96.1	95.4	94.1	92.2	81.6	52.4	75.2
2000	7.6	52.4	87.5	96.5	96.4	95.8	94.4	91.6	82.3	53.0	75.6
2005	4.9	44.3	87.2	96.7	96.9	96.5	95.0	91.3	83.9	55.1	76.6
2010	3.4	37.9	86.2	96.7	97.0	96.6	95.3	91.5	84.5	56.6	75.7
1997	13.0	66.4	54.1	50.9	60.5	67.0	62.2	58.0	53.8	30.1	49.5
1998	12.7	61.7	51.6	47.1	58.2	63.3	61.1	55.0	50.3	27.4	47.0
1999	11.8	62.1	52.4	47.4	58.5	63.6	61.2	55.2	50.6	28.3	47.4
2000	10.8	64.4	53.7	49.2	60.5	65.0	62.1	57.6	53.6	29.0	48.9
2005	8.4	69.3	59.6	52.6	63.0	68.1	64.5	61.1	57.2	31.5	52.5
2010	7.8	72.9	65.1	54.4	64.7	70.1	65.8	62.4	59.0	33.6	53.7

3.

가.

1)

1980

가 ,
 . < II- 22> , 1997
 99.1% , 99.9% ,
 97.7% , 99.4% .

가

< II- 22>

(: , %)

1980	874,329	94.1	95.8	741,618	97.0	84.5	92,256	22,874	115,098
1985	939,727	96.8	99.2	855,627	96.9	90.7	37,834	27,690	79,183
1990	763,694	98.7	99.8	835,699	97.6	95.7	11,524	20,727	36,150
1995	813,387	98.5	99.9	819,246	97.9	98.5	13,529	17,831	12,391
1997	651,153	99.1	99.9	824,518	97.7	99.4	6,368	19,631	4,678

: = (/) × 100
 = (/) × 100
 : , 『 』 .

1990 가 가

1965 116 가

1990 762 가 1996
 1997 671 . 1990 가
 가

< II-23 >

(:)

1965	115,776	79,247	36,529
1970	145,062	93,477	51,585
1975	263,369	161,311	102,058
1980	467,388	274,311	193,077
1985	642,354	352,982	289,372
1990	761,922	407,086	354,836
1995	649,653	338,115	311,538
1997	671,614	346,648	324,966

: , 『 』 .

(, ,)

가 . 1980 102 1981
 1985 195 가 ,
 가 .

2)

. 1970

73.4% , 1995 6

가 가 ,
 20% .

< II- 24>

(: , %)

1970	7,838	4,713	23,515	36,066
1975	12,323	5,841	33,610	51,774
1980	49,567	2,494	49,735	101,796
1985	73,927	2,252	118,584	194,763
1990	87,131	4,965	165,916	258,012
1995	143,075	3,722	180,664	327,461
1997	175,965	4,020	192,465	372,450
가				
1970- 1974	9.5	4.4	7.4	7.5
1975- 1979	32.1	- 15.7	8.2	14.5
1980- 1984	8.3	- 2.0	19.0	13.9
1985- 1989	3.3	17.1	6.9	5.8
1990- 1994	10.4	- 5.6	1.7	4.9
1995- 1996	10.9	3.9	3.2	6.6

: , 『 』, .

< II- 25>

(25)

(: %)

1970	73.4	11.5	10.2	4.9
1975	65.5	14.8	13.9	5.8
1980	55.3	18.1	18.9	7.7
1985	43.4	20.5	25.9	10.2
1990	33.4	19.0	33.5	14.1
1995	26.6	15.7	38.0	19.7

: , 『 』, 『 』; , 『 』, 1997, p. 214.

< II- 26>

< II- 27>

, 25- 34

가

< II-26> (25-64, 1995)
(: %)

가					
	11	52	9	28	100
	19	57	10	14	100
	12	62	11	15	100
	25	54	9	12	100
	39	41	20		100

: OECD, *Education at a Glance: OECD Indicators*, 1997, p. 42.

< II-27> (1995)
(: %)

가	25-34	35-44	45-54	55-64
	< >			
	86	89	85	76
	86	80	72	59
	89	88	84	72
	86	74	62	42
	86	61	39	23
	< >			
	32	36	33	24
	23	24	21	16
	21	27	24	18
	25	20	17	9
	29	16	11	7

: 1994 .

: OECD, *Education at a Glance: OECD Indicators*, 1997, p.39, p. 42.

< II-28> , 18 21 22 25
 가 34.1% 16.3% OECD 가
 , 100% , 34%
 OECD 가 6).

< II-28> 18-25 (1995)
 (:%)

가	18-21	22-25
	34.7	20.7
	25.8	9.3
	10.6	17.0
	34.2	17.7
	37.9	21.7
	34.1	16.3
OECD	21.1	15.5

: = /
 : OECD, *Education at a Glance: OECD Indicators*, 1997, p. 172.

가 , 가
 . , ,
 가 . < II-29> 1997
 95.1%가 , 81.4%가
 47.4%가
 , 29.2%가
 1997 535,795 , 671,614
 79.8% , 508,061 2 7
 6) 35%
 (, 『21』, 1998, p. 28).

가

7).

< II-29>

(: %)

1970	26.9	40.2	9.6	45.3	64.0	20.9	37.6	83.0
1975	25.8	41.5	8.8	48.4	72.6	22.0	31.3	64.6
1980	32.8	34.0	31.2	45.8	72.8	10.1	44.0	96.1
1985	36.4	53.8	13.3	60.1	82.8	30.0	41.4	68.9
1990	33.2	47.2	8.3	63.0	86.0	22.1	43.3	68.8
1995	51.4	72.8	19.2	69.4	91.8	35.6	72.9	105.1
1997	60.1	81.4	29.2	75.6	95.1	47.4	79.8	105.5

- 1) , , .
 - 2) = (/) × 100
 - 3) = (/) × 100
- : (1997), 『 』

3)

< II-30>

7) , 『OECD 가 』, 1997, p. 39 .

가 가
 가 『 』 가
 가 가
 가 가
 < II-30>
 1990
 가 ,

< II-30> ()
 (:)

1985	37,834	27,690	79,183	56,339	238,213	441,244
1990	11,524	20,727	36,150	47,928	251,186	369,505
1995	13,529	17,831	12,391	39,482	97,663	182,891
1997	6,368	19,631	4,678	45,597	74,087	152,358

: 『 』 , 『 』

4)

1997

40.8 : 59.2

1997 34.9%
(49.4%)

8)

가

< II-31 >

(: , %)

					(%)		
1970	144,937	82,208	15,995	46,734	56.7	11.0	32.2
1975	263,369	137,228	33,519	92,622	52.1	12.7	35.2
1980	467,388	266,331	59,518	141,539	57.0	12.7	30.3
1985	642,354	365,819	71,647	204,888	56.9	11.2	31.9
1990	761,922	487,772	65,494	208,656	64.0	8.6	27.4
1995	649,653	390,520	78,699	180,434	60.1	12.1	27.8
1997	671,614	397,702	95,509	178,403	59.2	14.2	26.6

: , 『 』, .

8) 「 II₁(, 1996)
50 : 50

< II-32>

(: , %)

									가		
1981	217,980	21,557	64,650	50,331	14,319	107,749	3,310	768	18,884	1,062	
1986	280,814	19,966	70,082	49,869	20,213	155,668	3,064	1,325	30,641		
1990	274,150	17,566	65,494	51,183	14,311	154,538	3,455	221	31,900	976	
1995	259,133	9,244	78,699	64,986	13,713	134,761	1,992	741	33,571	125	
1997	273,912	9,362	95,509	79,399	16,110	135,293	2,168	1,287	30,053	240	
1981	100.0	9.9	29.7	23.1	6.6	49.4	1.5	0.4	8.7	0.5	
1986	100.0	7.1	25.0	17.8	7.2	55.4	1.1	0.5	10.9	0.0	
1990	100.0	6.4	23.9	18.7	5.2	56.4	1.3	0.1	11.6	0.4	
1995	100.0	3.6	30.4	25.1	5.3	52.0	0.8	0.3	13.0	0.0	
1997	100.0	3.4	34.9	29.0	5.9	49.4	0.8	0.5	11.0	0.1	

: , 『 』, .

< II-33>

. OECD 가

, ,

가 .

< II-33>

(1995)

(: %)

	42	58		
	23	77	24	53
	47	53	43	10
	35	65		
	44	53		
	72	28		
	57	43	43	
OECD	47	53	37	17

: OECD, *Education at a Glance: OECD Indicators*, 1997, p. 157.

. 1979

1981 5 1997 17 3 ,
 가 가 가
 가 1981 8.4% 1997
 29.0% 가 , 가
 61.5% 38.1%

< II-34 >

(: , %)

1981	4,349 (8.4)	31,918 (61.5)	15,668 (30.2)	51,935 (100.0)
1986	15,891 (21.0)	26,920 (35.6)	32,761 (43.4)	75,572 (100.0)
1990	18,630 (21.4)	28,328 (32.5)	40,173 (46.1)	87,131 (100.0)
1995	39,307 (27.5)	52,832 (36.9)	50,936 (35.6)	143,075 (100.0)
1997	50,967 (29.0)	67,036 (38.1)	57,962 (32.9)	175,965 (100.0)

: , 『 』, .

1981 가
 1981 5.7 1986 13.8
 1.6 5.6
 가 28.7%
 40.4% 가 가

1981 28.7% 1997
 40.6% 가
 가 80

< II-35 >

(: , %)

1981	16,310 (28.7)	18,484 (32.5)	22,047 (38.8)	56,846 (100.0)
1986	55,641 (40.4)	37,986 (27.6)	44,221 (32.1)	137,848 (100.0)
1990	73,626 (44.4)	43,601 (26.3)	48,689 (29.3)	165,916 (100.0)
1995	74,490 (41.2)	57,205 (31.7)	48,969 (27.1)	180,664 (100.0)
1997	78,165 (40.6)	65,036 (33.8)	49,264 (25.6)	192,465 (100.0)

: , 『 』

5)

가

(employability)

< II-36 > 1996 , 1
 () ,
 1 17.4%

3.5%, 3.1%, 2.2%, TV, 9.1%, 3.8%

< II-36> (1996)

									TV,			
	(%)	()	(%)	()	(%)	()	(%)	()	(%)	()	(%)	()
17.4	9.1	12.3	3.5	78.2	3.1	17.1	2.2	8.9	3.8	28.2	0.4	27.3

: 『 』, 1997, pp. 412-413.

OECD

< II-37>

OECD 가

< II-38>

25

20.1% , 45.9% 가

가

< II-37> 25-64

(: %)

가		
	1995	34
	1993	28
	1995	12
	1994	33
	1994	40
	1995	38
	1996	42
	1996	17.4

1) , , , , .

2) , 1996 OECD , 1997, p. 141

3) , , , , 1 , 6 , 4

: OECD, *Education at a Glance: OECD Indicators*, 1997, p. 157; 『 , 『 , 1997, p. 412.

< II-38> 25

25	()	(%)
500,446		20.1
9,683,064		45.9

: (1997), 『21 『 , p. 25.

•

가 『 『 4 1

가
 가 , 가
 가 가 9)
 가 가 가 .
 가 . ,

가
 가 가
 가 , 3 2
 가 가 10). 가 ,
 , .
 가 .

1)
 1997 가
 22% , 90%
 (< II-39>). 가

9) 『 』 ‘ / (- /)
) × 100²
 × 100² (『 』)
 10) 『 』, 1998. 7. 27.

1997 80%

가 가 1/5 , 4/5

90%

가 가 가

1990

가

4

< II-40 >

90%

가

1997
(56.9%)가 가
(31.6%)가

가
(37.0%), 가

93.9%

1990

가

가

가 3 가

1

가 . 1980

가

1997

96.2%

< II-39 >

(: , %)

	(A)	(B)							
		(C)	(C/A)	(D)	(D/A)	(B/A)			
1970	82,208	33,040	23,094	28.1	2,710	3.3	40.2	8,394	17.3
1975	137,228	57,007	41,306	30.1	9,730	7.1	41.5	13,368	16.9
1980	266,331	90,575	66,245	24.9	18,295	6.9	34.0	25,291	15.7
1985	365,819	196,827	137,239	37.5	52,875	14.5	53.8	27,190	16.2
1990	487,772	230,121	149,459	30.6	74,936	15.4	47.2	47,792	18.7
1995	390,520	284,251	202,019	51.7	75,596	19.4	72.8	27,892	26.4
1996	395,465	307,791	220,810	55.8	80,722	20.4	77.8	21,630	24.8
1997	397,702	323,830	243,385	61.2	74,358	18.7	81.4	16,204	22.0
1970	62,854	6,033	3,615	5.8	1,018	1.6	9.6	31,569	56.4
1975	126,141	11,048	4,715	3.7	4,869	3.9	8.8	63,437	56.1
1980	201,057	62,678	8,104	4.0	11,023	5.5	31.2	102,812	58.2
1985	276,535	36,910	11,842	4.3	24,386	8.8	13.3	143,214	60.4
1990	274,150	22,710	7,261	2.6	14,989	5.5	8.3	210,113	84.0
1995	259,133	49,699	15,957	6.2	33,070	12.8	19.2	190,148	90.9
1996	274,696	60,373	19,225	7.0	40,171	14.6	22.0	196,403	91.8
1997	273,912	79,961	24,751	9.0	54,163	19.8	29.2	177,532	91.7

: = / (- -) × 100

: , ₩ , .

< II-40 >

(: , %)

					()	()				

1981	101,579	55.4	30,665	61.7	23,468	61.2	7,197	63.4	59,889	61.3
1986	156,330	64.3	49,135	81.7	35,815	82.7	13,320	79.0	92,416	64.3
1990	210,113	84.0	54,451	92.5	43,113	92.7	11,338	91.5	130,800	87.3
1995	190,148	90.9	62,046	97.0	52,145	97.0	9,901	97.0	112,943	92.8
1997	177,532	91.7	65,600	96.4	56,129	96.7	9,471	95.2	101,046	92.3

1981	50,272	49.5	28,114	59.8	23,190	61.0	4,924	54.8	13,473	50.2
1986	68,709	59.6	45,124	81.0	35,664	82.7	9,460	75.1	11,943	38.2
1990	94,383	81.0	53,715	92.5	42,583	92.7	11,132	91.5	21,237	73.2
1995	86,000	90.8	59,255	97.1	49,807	97.0	9,448	97.4	16,444	83.3
1997	79,327	92.5	59,041	96.5	50,770	96.8	8,271	95.2	13,065	85.0

1981	51,307	62.7	2,551	95.2	278	89.4	2,273	96.0	46,416	65.5
1986	87,621	68.6	4,011	90.9	151	95.6	3,860	90.7	80,473	71.6
1990	115,730	86.7	736	93.9	530	96.4	206	88.0	109,563	90.7
1995	104,148	91.1	2,791	95.2	2,338	96.5	453	88.8	96,499	94.6
1997	98,205	91.1	6,559	95.5	5,359	95.6	1,200	95.1	87,981	93.5

$$: = / (- -) \times 100$$

,
.
: , 『 』, .

2)

1980

. 1980

. 1980

가 3

가
 가 . 1997
 75.5% 52.5% 1.4
 가

< II- 41>

(: , %)

1970	6,947	1,244	632	3,462	1,609		68.3
1975	12,323	882	1,987	5,555	1,399	2,560	58.8
1980	49,567	3,586	11,490	17,428	8,959	8,104	50.5
1985	73,927	6,991	15,282	29,556	11,035	11,063	57.2
1990	87,131	6,718	14,840	47,094	12,330	6,149	71.8
1995	143,075	9,972	13,339	88,843	21,017	9,904	74.2
1996	155,326	13,874	10,135	102,648	20,564	8,105	78.2
1997	175,965	14,671	8,901	115,096	25,405	11,892	75.5

: = / (- -) × 100

: 『 』,

< II-42 >

(: %)

	I						II						
	1981	1986	1990	1995	1996	1997	1981	1986	1990	1995	1996	1997	
	41.2	59.7	71.8	74.2	78.2	75.5	34.0	53.1	65.1	68.5	70.7	68.9	
		41.5	73.9	71.0	75.3	77.3		36.1	66.7	63.4	63.9	66.2 66.2	
	42.6	59.0	71.5	71.8	78.5	76.6	32.6	50.8	64.7	66.1	70.7	69.4	
	44.8	61.7	74.7	75.7	78.8	74.4	36.1	54.1	66.1	69.1	70.8	67.4	
							35.9	59.4	71.9	72.0	71.9	59.8	64.2
							35.1	48.1	59.5	66.2	65.3	66.2	69.0
							48.2	71.5	78.4	94.2	81.8	71.9	
가							36.3	33.9	48.2	55.3	58.6	58.9	
	31.0	54.0	60.7	79.4	81.0	76.7	28.5	48.9	57.6	75.7	76.6	74.2	
	26.5	51.4	67.3	61.5	68.0	69.1	24.5	46.5	60.7	57.3	61.8	63.1	
							44.4	52.8	58.5	58.9	61.5	56.3	
							22.2	46.2	60.8	57.1	61.8	63.8	
	47.7	71.6	84.7	91.0	91.5	90.2	44.9	68.0	79.9	87.5	87.4	86.3	

I = / (- -) × 100

II = / (-) × 100,

가 .

: , 『 』, .

3)

,

『 』 4 1

가

1997 61.8% 가
1/3

가 1990 , 1997
52.5% , 68.7%
가

< II-43 >

(: , %)

1970	23,515	13,743	70.6	17,442	10,791	79.3	6,073	2,952	50.5
1975	33,610	19,635	71.8	23,893	14,493	80.2	9,717	5,142	55.4
1980	49,735	28,349	73.0	33,923	20,402	83.4	15,812	7,947	55.2
1985	118,584	48,552	52.1	75,813	35,820	67.6	42,771	12,732	31.7
1990	165,916	79,975	55.0	104,627	57,099	65.1	61,289	22,876	39.7
1995	180,664	97,290	60.9	105,853	62,627	69.2	74,811	34,663	50.0
1996	184,212	101,911	63.3	107,896	65,318	71.6	76,316	36,593	52.4
1997	192,465	102,245	61.8	114,261	65,216	68.7	78,204	37,029	52.5

: = / (- -) × 100

: , 『 』 , 『 』

< II-44 >

(: %)

	I						II					
	1981	1986	1990	1995	1996	1997	1981	1986	1990	1995	1996	1997
	68.9	45.7	55.0	60.9	63.3	61.8	58.2	41.6	50.6	55.2	56.5	54.2
	67.0	32.7	44.8	52.8	54.1	53.2	54.4	29.5	40.9	47.8	48.6	47.1
							55.6	30.8	42.6	50.6	51.1	49.1
							51.0	24.2	34.5	38.9	40.7	41.3
	72.4	52.9	57.1	61.3	63.1	59.2	59.5	48.4	53.8	58.1	59.4	55.2
	67.1	50.3	59.4	64.6	67.0	65.0	56.0	44.6	53.3	56.6	57.3	54.3
							41.0	36.7	41.5	48.0	50.0	48.4
							62.9	51.8	63.4	64.7	65.0	59.0
							51.4	42.3	45.3	52.0	51.8	53.8
							90.2	51.3	71.1	56.6	60.2	54.3
가							44.1	21.7	32.0	44.0	41.0	42.1
	42.7	35.1	46.1	55.6	59.6	61.4	37.8	32.1	42.0	50.1	51.8	52.7
							36.5	32.7	42.2	50.1	49.6	50.4
							44.4	29.3	41.3	50.1	59.5	60.0
	87.8	88.4	87.2	79.9	82.0	88.8	80.9	82.5	83.3	73.4	77.1	82.4
							84.6	89.8	87.5	73.9	77.8	85.8
							70.7	64.7	66.9	71.4	73.8	67.3
	70.6	33.5	45.4	52.0	56.9	58.9	62.5	31.9	42.7	48.3	52.4	53.5

$$I = \frac{\text{가}}{\text{가} - \text{가}} \times 100$$

$$II = \frac{\text{가}}{\text{가} - \text{가}} \times 100$$

: , 『 』 , .
 .
 1997 11.7% 가
 , 가 가
 (, 49.2%) 가 가
 (, 52.6%) .

< II- 45 >

(1997)

(: , %)

			(%)			(%)				
	192,465	102,245	54.2	114,261	65,216	59.1	78,204	37,029	47.3	11.7
	29,027	13,449	47.1	10,947	5,508	52.6	18,080	7,941	43.9	8.7
	21,554	10,437	49.1	7,338	4,029	57.1	14,216	6,408	45.1	12.1
	7,473	3,012	41.3	3,609	1,479	43.2	3,864	1,533	39.7	3.5
	49,138	26,614	55.2	33,160	19,376	60.1	15,978	7,238	45.3	14.8
	79,908	42,470	54.3	57,843	32,718	58.3	22,065	9,752	44.2	14.1
	21,562	10,250	48.4	12,179	6,130	51.9	9,383	4,120	43.9	8.0
	43,474	24,992	59.0	39,337	22,956	60.1	4,137	2,036	49.2	10.8
	8,165	4,281	53.8	5,061	2,892	59.7	3,104	1,389	44.7	14.9
	1,095	589	54.3	881	534	61.4	214	55	25.7	35.7
가	5,612	2,358	42.1	385	206	55.8	5,227	2,152	41.2	14.7
	15,308	7,915	52.7	5,421	3,062	59.6	9,887	4,853	49.1	10.5
	11,518	5,796	50.4	3,058	1,691	55.8	8,460	4,105	48.5	7.3
	3,790	2,119	60.0	2,363	1,371	65.1	1,427	748	52.4	12.7
	6,609	5,245	82.4	3,462	2,707	84.1	3,147	2,538	80.6	3.4
	5,396	4,443	85.8	3,150	2,534	86.5	2,246	1,909	85.0	1.5
	1,213	802	67.3	312	173	59.7	901	629	69.8	- 10.2
	12,475	6,552	53.5	3,428	1,845	57.7	9,047	4,707	52.0	5.6

: 가 , = / (-) * 100 가

: 『 』, 1997.

60.0% 가 10

59.0%

가

55.1% - 67.2%

31.1- 60.2%

가

< II-46 >

(: %)

	59.0	43,474		60.1	39,337		49.2	4,137
	60.4	4,625		60.8	4,360		60.2	447
	59.9	3,603		60.1	3,581		31.1	431
	66.2	3,226		64.0	2,837		58.4	361
	64.0	2,882		67.2	2,779		45.3	267
	61.5	2,739		61.8	2,717		53.6	265
	55.8	2,533		57.0	2,266		54.2	201
	59.8	2,334		60.1	2,163		55.6	171
	59.7	1,804		60.0	1,443		52.9	136
	39.6	1,313		55.4	1,015		51.5	130
	54.9	1,035		55.1	944		44.2	113

1) 1,000

2) 가 , = / (-) *

100

: , 『 』, 1997.

54.2%

48.4%

가

55.2%

15%

< II-47 >

(: , %)

	48.4	21,562		51.9	12,179		43.9 9,383
	45.4	3,351		42.0	2,136		44.3 1,600
	49.1	3,067		48.4	1,819		41.8 1,532
	41.3	2,806		64.0	1,517		36.3 1,432
	61.9	2,388		54.4	1,467		58.3 871
	39.6	2,376		44.8	944		46.9 757
	54.7	1,529		62.4	772		39.3 670

1) 1,000

2) 가 , = / (-) *

100

: , ₩ , 1997.

< II-48 >

(: , %)

	55.2	49,138		60.1	33,160		45.3 15,978
	63.0	9,698		66.6	7,591		50.1 2,107
	61.4	5,463		65.7	4,175		49.7 1,360
	60.2	5,005		64.6	3,803		47.9 1,288
	46.5	4,515		50.2	3,611		35.5 1,280
	46.5	4,276		51.4	2,996		46.8 1,202
	56.5	3,597		60.6	2,237		47.3 968
	47.2	1,804		52.3	1,133		32.0 904
	51.8	1,291		52.6	588		48.5 771
	49.3	1,190		29.3	582		39.0 671
	48.1	1,044		62.2	567		38.0 623

1) 1,000

2) 가 , = / (-) *

100

: , ₩ , 1997.

4)

1991 44 , 1980 가
 71.0% , 29.0%
 가 57.0%
 1997 56.0% 가
 24.7 1996
 가 가

< II-49 >

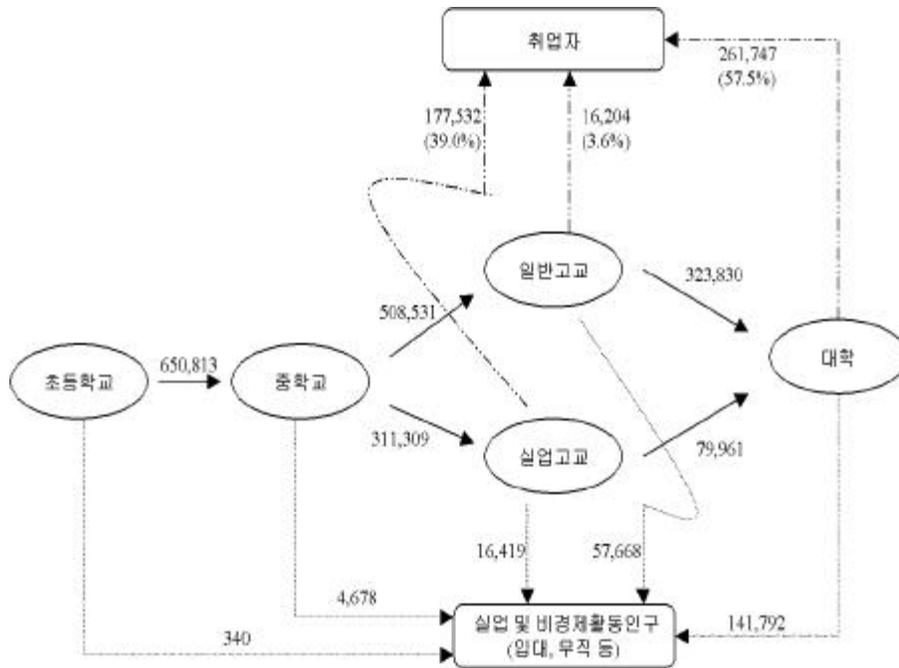
(: , %)

1980	25,291 (14.0)	102,812 (57.0)	17,428 (9.7)	28,349 (15.7)	2,354 (1.3)	4,042 (2.2)	180,276 (100.0)
1985	27,190 (10.3)	143,214 (54.4)	29,556 (11.2)	48,552 (18.4)	1,192 (0.5)	13,479 (5.1)	263,183 (100.0)
1990	47,792 (11.8)	210,113 (51.9)	47,094 (11.6)	79,975 (19.7)	4,683 (1.2)	15,477 (3.8)	405,134 (100.0)
1995	27,892 (6.5)	190,148 (44.1)	88,843 (20.6)	97,290 (22.6)	2,795 (0.6)	24,033 (5.6)	431,001 (100.0)
1997	16,204 (3.7)	177,532 (40.3)	115,096 (26.1)	102,245 (23.2)	3,034 (0.7)	26,594 (6.0)	440,705 (100.0)

: , 『 』 ,

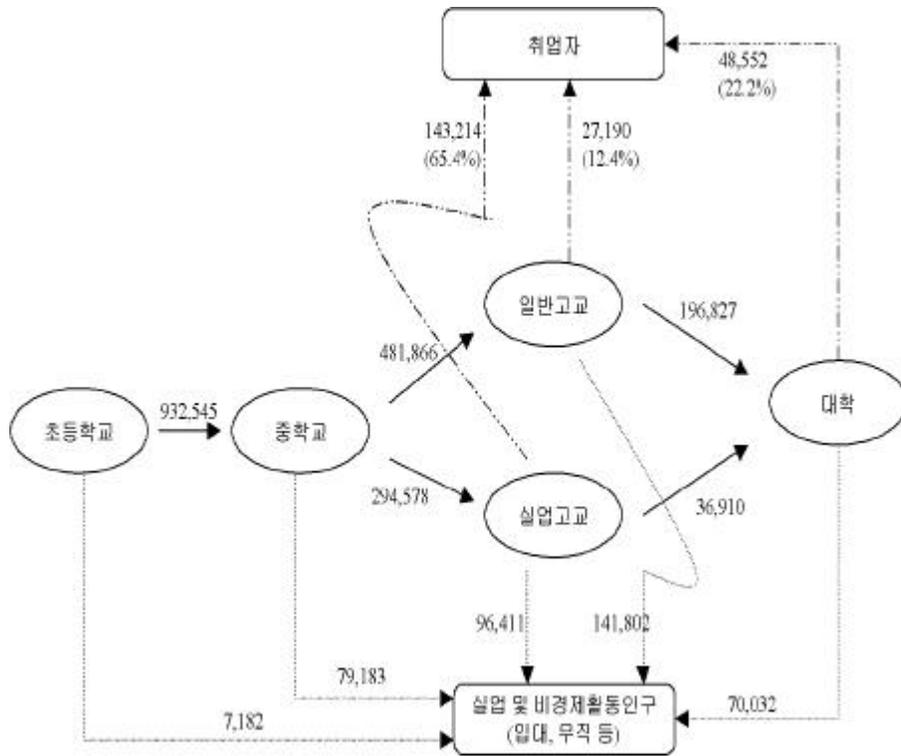
[II-5] [II-6]

. 1985 1997 , 가



자료 : 교육부, 교육통계연보, 1997

[II-5] (1997)



[II-6] (1985)

5)

1996

(43.1%)

가

가

가

24.7% p, 2.3% p

가

(35.7%)

가

60.6%가

가

71.9%가

< II- 50>

(1996)

(: %)

	100.0	11.4	24.3	21.3	23.8	19.3
15 19	100.0	5.7	26.6	24.1	22.4	21.3
20 29	100.0	12.2	26.1	21.2	22.7	17.8
30 39	100.0	10.9	23.3	20.6	25.0	20.1
40 49	100.0	10.9	22.8	22.0	24.5	19.9
50 59	100.0	11.2	23.0	20.7	24.2	20.8
60	100.0	14.3	23.1	24.3	19.8	18.5
	100.0	4.1	22.0	23.1	27.1	23.7
	100.0	16.3	23.4	18.4	23.6	18.4
	100.0	20.6	28.2	19.7	18.8	12.8
	100.0	28.6	32.0	16.8	14.6	8.0
	100.0	7.4	32.6	28.7	21.2	10.1
	100.0	1.7	9.6	16.9	34.4	37.5
	100.0	6.2	20.1	15.0	25.3	33.4
	100.0	3.8	19.7	20.7	28.6	27.3

: , 『 』, 1997, p. 403.

1)

가 15 ,

1998-2000 (II-1) 1997 3 1

1998-2000

2001-2006 (II-2) 1997
6 1

, 2007-2010 (II-3)

1 (1993-1997 5

1997

) ,

『 』

99%

11)

, 5

$$(II-1) \quad MG_t = MS_{t-3} * M \widehat{GR}_t$$

$$(II-2) \quad MG_t = PS_{1997} * P \widehat{GR}_t * M \widehat{AR}_t * M \widehat{GR}_t$$

$$(II-3) \quad MG_t = POP_{t-9} * P \widehat{AR} * P \widehat{GR}_t * M \widehat{AR}_t * M \widehat{GR}_t$$

, MG : , MS :

11)

$$\frac{\quad}{\quad} \times 100^{\quad} \quad (\quad)$$

$$\frac{\quad}{\quad} \times 100^{\quad}$$

$PS :$,
 $POP_t : t$,
 $PAR :$, $MAR :$
 $PGR :$, $MGR :$

, 1998-2000 (II-4) 1997 3 1
 2001
 (II-5)

1993-1997 5 12).

$$(II-4) \quad HG^i_t = HS^i_{t-3} * H\widehat{GR}^i_t$$

$$(II-5) \quad HG^i_t = MG^i_t * H\widehat{AR}^i_t + H\widehat{GR}^i_t$$

$, HG : i$, $HS : i$, $HGR : i$

$MG^i_t :$, $HAR : i$

12) (, 1995, , 1996).

1994 가 ,

ARIMA 가 , 5

, , 4 ,

1993- 1997 5

/

(II-6) $UG^i_t = HG'_t * U\hat{A}R^i_t * \overline{U\hat{G}R^i_t}$
 , $UG^i : i$,
 $HG' :$,
 $UAR^i : i$,
 $\overline{UGR^i} : i$ 5

. (II-7)

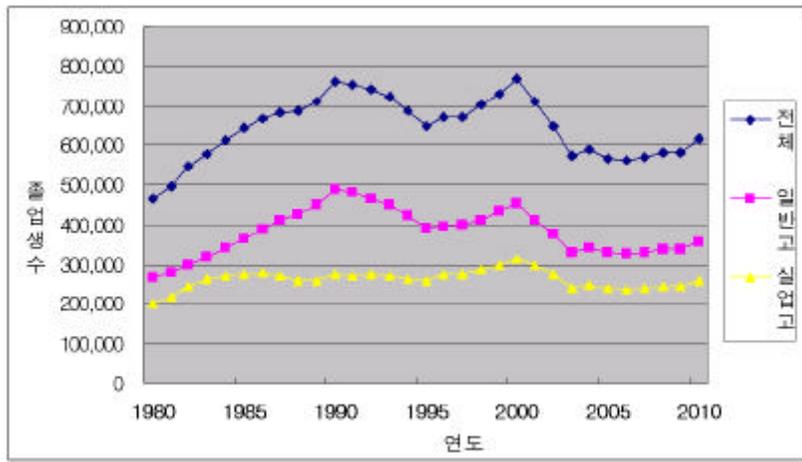
1993- 1997 5

(II-7) $LS_{t,j} = G^k_t \times ER^k$
 $LS_j : j$
 $G^k : k$
 $ER^k : k$

2)

, 1997 67

2000 77 가 , 2000 2003
 57
 25.5% 20 가



[II-7]

, 2002 ()

13).

가

13)

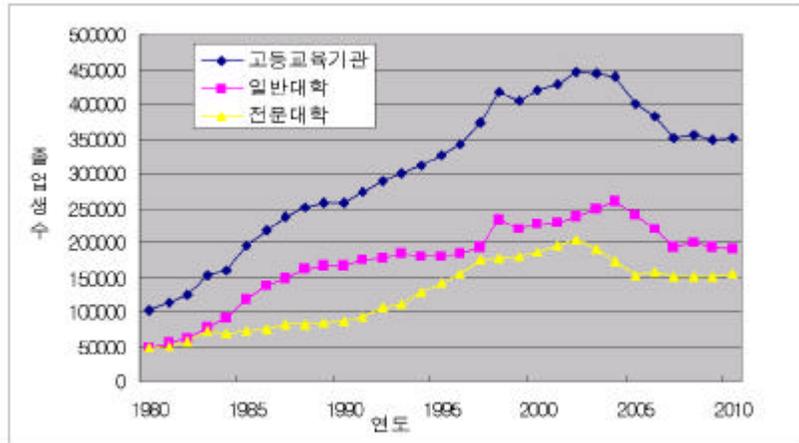
가

가

가 가 2002

2002	44	2005	40
2010	35		

가



[II-8]

3)

1993-1997 5

가

, 1997	44.1	2000	52.7
--------	------	------	------

가 2007 42

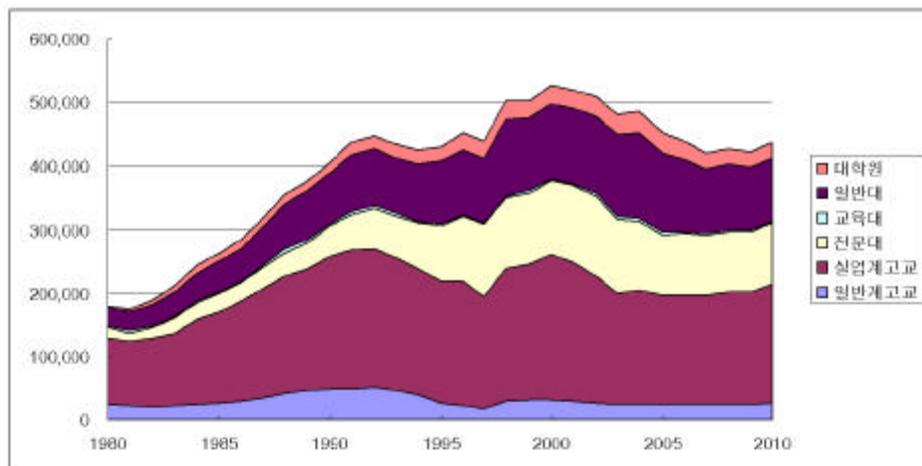
2000 26

2003 20

가 2002 25.4

2005

2010 20



[II-9]

•

1.

가

21

. 60

가

가

IMF

21

가 21

가?

21

21

가

가

가

가 가,

IMF

가

IMF

IMF

21

21

가 . 6가

- (innovation), (information and communication technology)
- (globalization of markets)
- : (deindustrialization)
- (knowledge - based economy)
- (ecological problem)
- 가 가 가
- 가

가.

.14)

가 가 가

14)
 (Ricardo) (Marx) , (Schumpeter) ,
 (Solow) , (Denison) (growth
 accounts), (Lucas) 가 . OECD 가
 (Job Study)

가
가

가

21

가

가

「 」가

「 」가

「 」가

가

(

R&D management system 가

M&A)

가

.15)

가

가

.16)

가

, 가

(:

)

(enabling technology)

‘ (heartland)

(Gill et al. 1992).

가

(advanced manufacturing technology:

CAD/ CAM/ CAE/)

가

가

가 가

OECD

15) , 『2005

16) (information technology)

.(OECD(1994)).

가, , 가 ,

가

가

가

가,

(flow process)

가

가

(OECD, 1994).

< III-1> 가

(: %)

가	51	55	45
	23	20	43
	25	25	29
	19	18	30
	15	12	16
	11	28	18
	18	15	13
	4	14	8
	8	13	9
	16	14	7
	(726)	(943)	(776)

: OECD, STI Review No. 12, 1993 (Special Issue on Microelectronics and Advanced Manufacturing Technologies).

(upskilling)

(deskilling)

가

17)

17) Eliasson & Ryan (1987), OECD(1988), Zuboff,1988) Howell & Wolff(1992) BLS(1986) 가 .

(the globalization of markets)

가 가

(internationalization)가

가 (globalization)

가

(international sphere)

가

(triad economy)

가

가

가

가

가

가

가

가 가

(communication infrastructure) 가

가

가

가

가

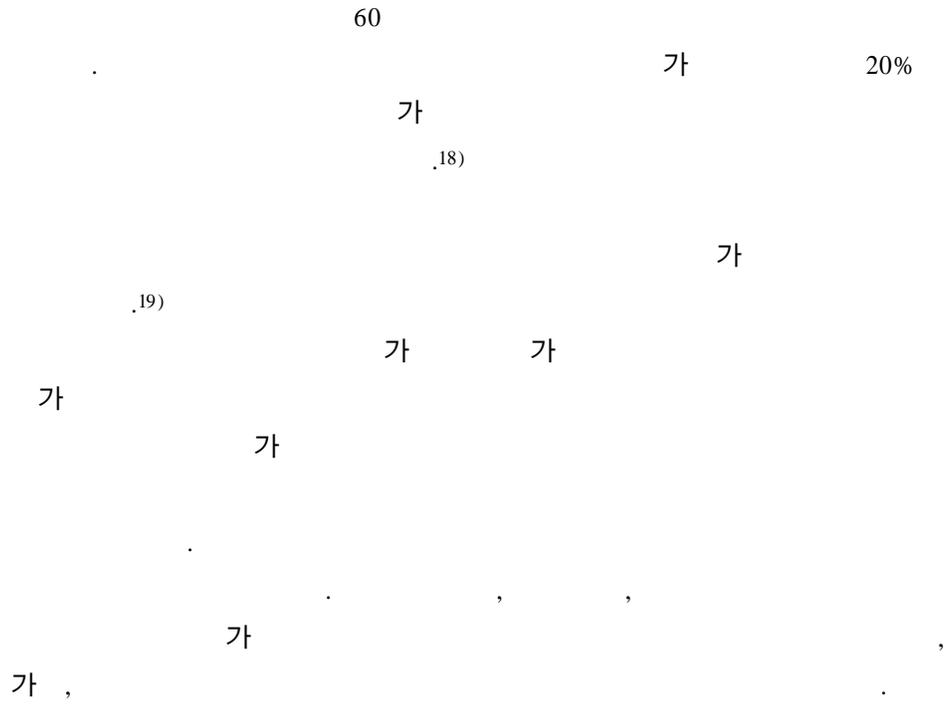
(job mobility)

, IMF

가

가

: (deindustrialization)
(knowledge-based economy)



18) 가 (:%)

	(1960)	(1966)	(1965)	(1970)	(1973)	(1989)
	35.1	33.7	35.0	49.3	27.4	27.8
1994	16.4	14.7	19.3	27.0	23.2	23.7

: , OECD (CD-ROM), 1998.

19) OECD(1994) vol I p156-157 .

(routine) 가
가
가
) 가
OECD
가
, .
(information society)가
(learning
economy)가 /
(knowledge-based
economy) .20)
가 가 가 ,
, 가 가 .
가
가
가 .
" "

.21)

20) (1998) p58.

21) OECD 가 (1998) p58-61 .

· (ecological problem)

(sustainable development)

22)

가 가

가

가

가 가

가

22)

180

가

가

가

가 가
가

가

가

가

2

가

(?)

가 가

가

가

가

가

(Fordism) 가 . 가
가 . 가
가
가

가 1960
가 .

(humanization of work)
(job enrichment), (job enlargement),
(job rotation)

, ,23)
,

가

가

가
가

23)

(quality of working life)

.(, 1993 p100)

가
가

2.

. IMF

가
가

가.

가
가
가

1 80 3.0% 2010
(가) 1970 26.8%
2010 3.0% , 가가
가 가가 1

가
가
가 가
70 15.9% 80 11.9%, 90
8.2%, 2000 5.8% 2010
, 2010
가
1970 21.1%, 2010 33.6%
1980 가
가 2000
2000 가

< III- 2>

(:%)

	1997	1999	2003	2010	가	
					1997- 2003	2003- 2010
	5.6	5.2	4.1	3.0	-3.2	-0.9
	31.7	32.3	34.1	33.7	3.3	3.4
()	31.4	32.0	33.9	33.6	3.3	3.5
-	6.6	6.1	5.3	4.0	-1.6	-0.5
-	24.9	25.9	28.6	29.6	4.5	4.1
	62.6	62.5	61.8	63.3	1.8	4.0
-	10.3	9.2	9.3	8.6	0.4	2.4
	100.0	100.0	100.0	100.0	2.0	3.6

: KDI

1970 , 1980

2000

가
 (가)
 가
 가
 가
 (가)
 가
 70 7.9%, 80 9.2%, 90 7.7%

1997 62.6%, 2010 63.3%
 가
 가

가

KDI

$$\log(L_{it}) = f(\log(P_{it}^w/P_{it}^k), \log(K_{it}), \log(GDP_{it}))$$

$L_{it} : i$
 $K_{it} : i$
 $P_{it}^k : i$ 가
 $P_{it}^w : i$
 $GDP_{it} : i$

가가

$$E_{jt} = a_1 + a_2 V_{it} + a_3 E_{j,t-1}$$

$E_{jt} : t$ j
 $V_{it} : t$ j 가가
 $E_{j,t-1} : t-1$ j

IMF

2000

5 (93-97)

가

『 』

(Time Series)

Matrix RAS Matrix가

Matrix RAS Matrix가

97 『 』 92

Matrix

1

2002

가 . 1 1997 11.0%, 2003 7.5%, 2010 4.9%

, 1997 21.3%, 2003

22.4%, 2010 21.3% 가 80

2002

가

73.7% 가 1997 67.6%, 2003 70.0%, 2010 가가 가 가 가 가 가

< III- 3 >

(: , %)

	1997	1999	2003	2010	가	
					1997- 2003	2003- 2010
	2324	2126	1684	1201	- 5.2	- 4.7
	27	25	22	17	- 3.0	- 3.4
	4474	4232	5043	5282	2.0	0.7
가	76	80	103	149	5.1	5.4
	2004	1909	1937	1777	- 0.6	- 1.2
	5798	5407	5546	6408	- 0.7	2.1
	1165	1141	1306	1319	1.9	0.1
	1908	1844	2410	3434	4.0	5.2
	3272	3590	4430	5168	5.2	2.2
	21047	23044	22485	24758	1.1	1.4

< III-4 >

(: , %)

	1997	1999	2003	2010	가	
					1997-2003	2003-2010
	2209.7	2014.8	1584.2	1111.7	- 5.4	- 4.9
	5.3	4.6	3.3	2.0	- 7.3	- 6.8
	108.8	106.7	97.1	87.9	- 1.9	- 1.4
	5.0	2.7	0.6	0.0	- 29.6	- 32.0
가	0.0	0.0	0.0	0.0		
	0.1	0.1	0.1	0.1	2.0	- 1.6
	1.0	0.7	0.2	0.0	- 21.7	- 24.4
	20.6	22.2	21.3	17.4	0.6	- 2.9
	387.7	384.8	488.9	499.3	3.9	0.3
	5.3	4.1	3.2	1.4	- 8.2	- 11.4
	351.5	305.0	296.1	188.9	- 2.8	- 6.2
	509.2	455.8	471.0	335.0	- 1.3	- 4.7
가 , 가	135.5	97.2	64.6	21.2	- 11.6	- 14.7
(가)	65.7	51.3	40.4	17.8	- 7.8	- 11.0
	83.7	71.7	67.8	41.3	- 3.5	- 6.8
	209.8	199.0	230.8	201.0	1.6	- 2.0
	10.1	6.7	3.8	1.0	- 14.9	- 17.8
	159.3	145.5	156.7	119.8	- 0.3	- 3.8
	148.1	138.7	157.1	131.2	1.0	- 2.5
	177.4	157.9	161.3	112.4	- 1.6	- 5.0
1	115.5	115.5	149.1	156.4	4.3	0.7
()	326.7	302.6	334.9	268.7	0.4	- 3.1
NEC	465.9	518.0	826.1	1255.9	10.0	6.2
	41.7	38.2	41.6	32.3	0.0	- 3.5
NEC	142.7	153.4	228.6	308.6	8.2	4.4
	330.3	307.8	344.8	282.5	0.7	- 2.8
	60.0	56.8	65.6	56.7	1.5	- 2.1
	316.4	327.9	454.6	540.6	6.2	2.5
	124.8	126.4	167.3	183.6	5.0	1.3
가	300.3	255.8	239.5	143.3	- 3.7	- 7.1
가	7.0	12.4	50.0	383.3	38.6	33.8
, 가	63.8	68.2	88.9	132.1	5.7	5.8
	12.7	12.7	14.5	17.0	2.2	2.3
	2003.5	1909.6	1937.4	1777.4	- 0.6	- 1.2

	379.1	434.3	557.9	899.7	6.7	7.1
	1128.8	1216.7	1383.1	1801.2	3.4	3.8
()	2410.2	2343.4	2167.7	1967.9	- 1.8	- 1.4
	1880.1	1413.5	1437.8	1739.8	-4.4	2.8
	741.6	706.4	751.4	659.6	0.2	- 1.8
	42.0	35.8	30.5	19.8	-5.2	- 6.0
	19.0	16.6	14.9	6.6	-4.0	- 11.0
	202.9	227.7	336.3	474.9	8.8	5.1
	159.1	155.3	173.4	158.3	1.4	- 1.3
	326.6	311.6	366.5	402.2	1.9	1.3
	390.7	387.7	493.3	689.4	4.0	4.9
	43.9	38.9	39.5	57.5	- 1.8	5.5
	277.2	238.6	250.0	209.4	- 1.7	- 2.5
	70.2	55.2	48.2	29.4	- 6.1	- 6.8
	96.2	117.2	246.1	695.8	16.9	16.0
	60.4	66.8	115.4	232.4	11.4	10.5
	642.3	628.6	851.5	1118.6	4.8	4.0
	648.3	1114.2	1649.3	1692.3	16.8	0.4
	1102.8	945.6	1004.1	1218.2	- 1.6	2.8
	328.1	354.4	434.3	594.6	4.8	4.6
	31.1	31.8	39.8	56.7	4.2	5.2
	197.4	194.0	222.8	273.6	2.0	3.0
	315.3	318.0	384.6	517.1	3.4	4.3
	406.0	403.7	474.9	608.0	2.6	3.6
가	229.8	219.9	216.6	206.9	- 1.0	- 0.7
	13.1	8.4	3.7	0.9	- 18.8	- 18.5

가

가

가가

2000
2010
1990
(, ,)
1980

< III-5> 가 (1992)
(: %)

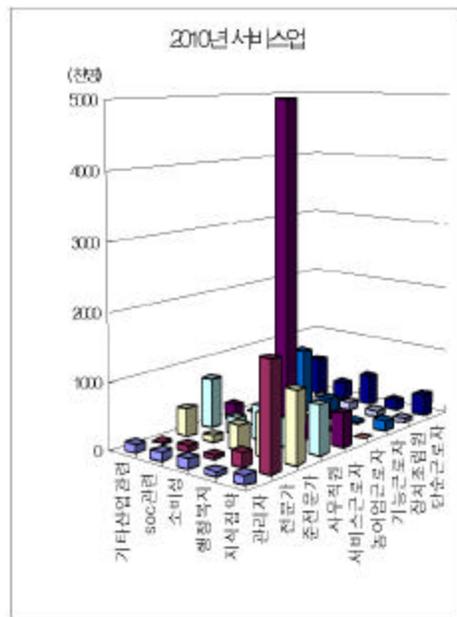
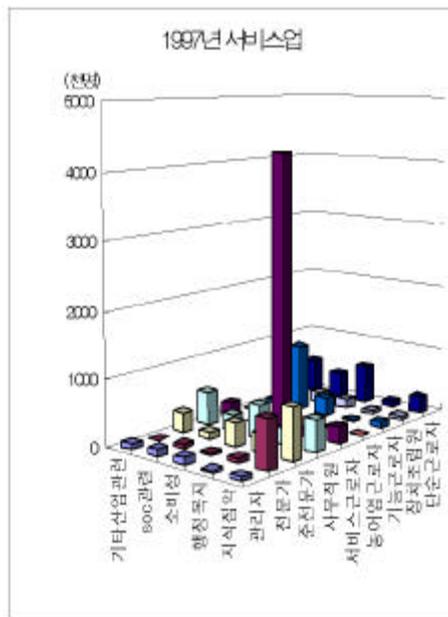
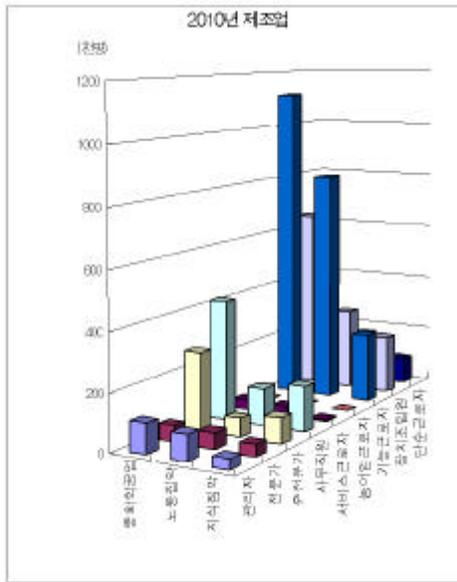
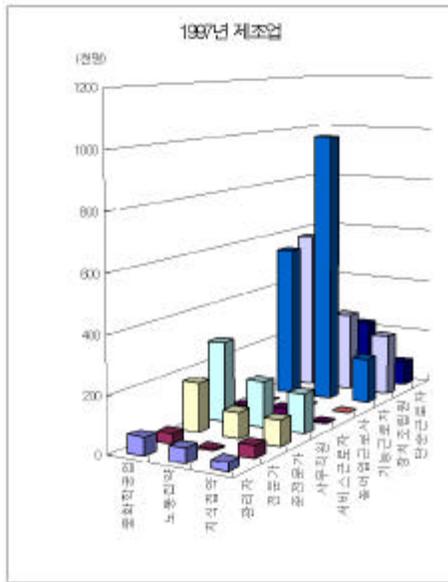
				가	
	4.9	6.4	12.8	0.3	5.3
	0.1	0.1	0.2	0.0	1.2
	21.3	24.5	31.1	27.5	14.9
가	0.6	0.5	0.4	0.5	1.3
	7.2	9.7	9.3	6.5	7.3
	25.9	22.4	21.3	22.6	20.8
	5.3	6.0	5.4	10.0	6.4
	13.9	8.5	3.0	10.9	11.5
	20.9	21.9	16.5	21.5	31.4
	100.0	100.0	100.0	100.0	100.0
	5.1	3.0	3.2	2.2	2.9
	0.3	0.6	0.3	-	0.6
가	20.2	28.2	19.1	26.5	17.0
	0.9	0.8	0.8	-	1.3
	7.1	5.9	6.4	-	6.4
	16.7	15.6	14.2	71.3	20.7
	6.4	5.5	7.2	-	5.5
	10.2	7.9	9.4	-	10.5
	33.1	32.5	39.3	-	35.2
	100.0	100.0	100.0	100.0	100.0

) 2010 1992
: , , 1995

가 24) 1990 가
 , (1) ,
 / (2) ,
 , , , , ,
 , , (3) 25)
 가 가

24) .

25) (1998).



< III- 1 >

1)

	1986	1985	1997
가	15.1%	10.5%	가
가	14.7%	22.4%	가
가	23.1%	22.4%	1997
가	25.9%	22.4%	1997
가	28.2%	22.4%	1997
가	15.6%	10.5%	1997

< III- 6 >

(: , %)

	1986	1996	2006	1986	1996	2006
	111,375	132,353	150,927	100	100	100
	13,589	18,173	22,998	12.2	13.7	15.2
가	3,724	4,618	5,558	3.3	3.5	3.7
	10,568	13,542	15,866	9.5	10.2	10.5
	20,871	24,019	25,825	18.7	18.1	17.1
	11,496	14,633	16,897	10.3	11.1	11.2
	17,427	21,294	25,147	15.6	16.1	16.7
	3,661	3,785	3,823	3.3	2.9	2.5
	13,832	14,446	15,448	12.4	10.9	10.2
	16,206	17,843	19,365	14.6	13.5	12.8

	1985	1995	2005	1985	1995	2005
	58,217	64,270	65,600	100.0	100.0	100.0
	6,095	8,344	11,133	10.5	13.0	17.0
	2,304	3,373	3,816	4.0	5.2	5.8
	10,740	13,159	14,231	18.4	20.5	21.7
	8,109	8,582	8,531	13.9	13.4	13.0
	792	765	697	1.4	1.2	1.1
	4,136	5,301	5,500	7.1	8.2	8.4
	5,373	3,610	2,158	9.2	5.6	3.3
,	61	33	16	0.1	0.1	0.0
	2,376	2,589	2,291	4.1	4.0	3.5
	18,127	18,438	17,162	31.1	28.7	26.2
	104	86	64	0.2	0.1	0.1

	1993	1995	1997	1993	1995	1997
	19253	20377	21048	100.0	100.0	100.0
가	886	971	997	4.6	4.8	4.7
가	1490	1840	2184	7.7	9.0	10.4
,	523	525	531	2.7	2.6	2.5
	2414	2510	2574	12.5	12.3	12.2
	4029	4464	4857	20.9	21.9	23.1
	2546	2389	2213	13.2	11.7	10.5
	2801	3219	3163	14.5	15.8	15.0
,	2451	2175	2173	12.7	10.7	10.3
	2112	2284	2355	11.0	11.2	11.2

: , , , 1997.

, , 勞働力需給の長期豫測, 1995.

, website(www.bls.gov) database

2)

1 3 가
 , , , 가 , , , 가
 가 가 가
 2000 IMF 가
 가 가가 가
 가가

< III-7 >

(: , %)

	1997	1999	2003	2010	가	
					1997-2003	2003-2010
,	531.4	498.5	692.2	846.6	4.5	2.9
가	997.5	1250.1	1661.2	2105.7	8.9	3.4
가	2183.3	2041.4	2802.5	3004.2	4.2	1.0
	2574.2	2413.5	2838.7	3410.4	1.6	2.7
	4857.0	4737.1	5133.3	6116.5	0.9	2.5
	2212.9	2170.9	1558.1	970.3	-5.7	-6.5
	3162.5	3052.8	3279.7	3713.8	0.6	1.8
,	2173.5	2016.1	2221.3	2271.6	0.4	0.3
	2354.8	2178.7	2297.9	2319.4	-0.4	0.1

< III-8 >

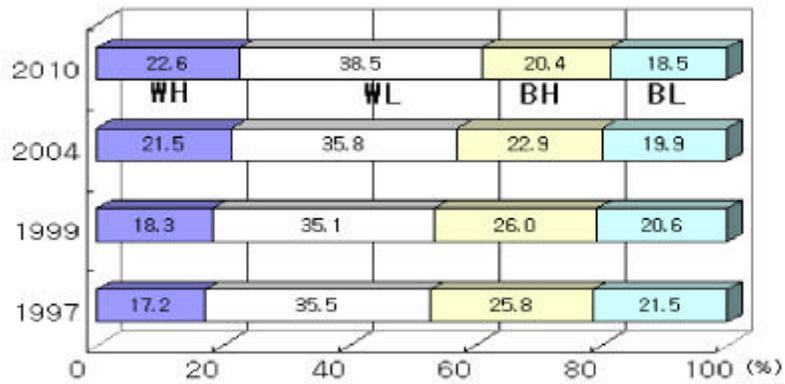
(: , %)

	1997	1999	2003	2010	가	
					1997-2003	2003-2010
	4.0	3.6	4.0	7.1	0.1	8.5
	88.0	84.8	94.3	196.5	1.2	11.1
	439.4	410.1	593.8	643.0	5.1	1.1
가	270.7	380.0	556.4	632.4	12.8	1.8
가	124.5	147.4	181.2	321.8	6.5	8.5
가	451.8	562.9	733.8	758.4	8.4	0.5
가	150.4	159.7	189.8	393.0	4.0	11.0
	374.5	408.5	637.4	974.5	9.3	6.3
가	87.9	82.4	99.6	107.9	2.1	1.1
가	413.7	399.4	519.5	640.9	3.9	3.0
가	1307.2	1151.2	1546.0	1280.9	2.8	-2.7
	1750.8	1643.4	1948.7	2388.0	1.8	2.9
	823.3	770.1	889.9	1022.4	1.3	2.0
	2625.9	2684.1	3440.3	5055.8	4.6	5.7
가	2231.0	2053.0	1693.0	1060.7	-4.5	-6.5
	2211.4	2169.4	1557.1	969.7	-5.7	-6.5
	1.5	1.5	1.0	0.7	-5.7	-6.5
	989.2	961.2	1000.6	1127.3	0.2	1.7
가	1020.1	990.5	1112.3	1361.6	1.5	2.9
가	227.5	216.7	213.5	206.1	-1.1	-0.5
가	925.7	884.4	953.4	1018.8	0.5	1.0
	156.0	144.0	154.3	153.8	-0.2	0.0
	909.4	833.6	900.1	895.0	-0.2	-0.1
	1108.0	1038.5	1166.9	1222.7	0.9	0.7
	1397.3	1304.9	1366.2	1459.9	-0.4	1.0
	90.3	47.5	96.0	141.7	1.0	5.7
가	867.3	826.2	835.6	717.9	-0.6	-2.1

가 ,

가 ,
가 , , , , , ,

가 , , 가
 가 .
 가
 . OECD
 26)
 가
 가가
 가가
 가가



[III-2] OECD

26) OECD : - (white collar high skill) 1.
 , 2. 가, 3. 가/ -
 (white collar low skill) 4. , 5. / -
 (blue collar high skill) 6. , 7.
 / - (blue collar low skill) 8. ,
 , 9.

3) : , , ,

4 10

가가

(Networking),

가

가

가

가

,
가

27)

가

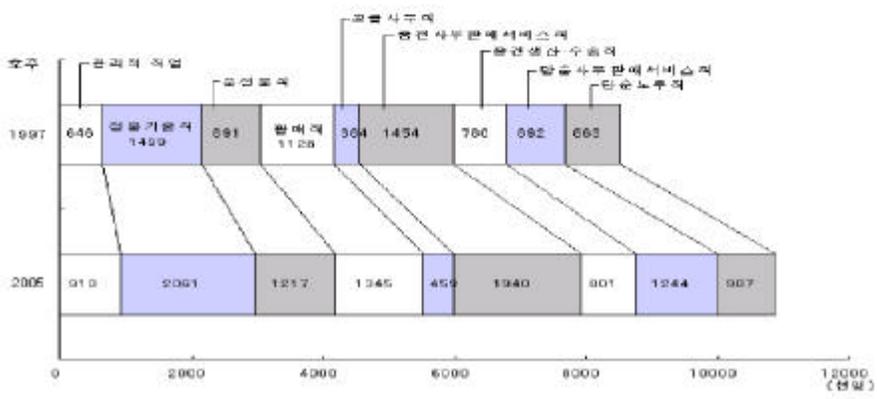
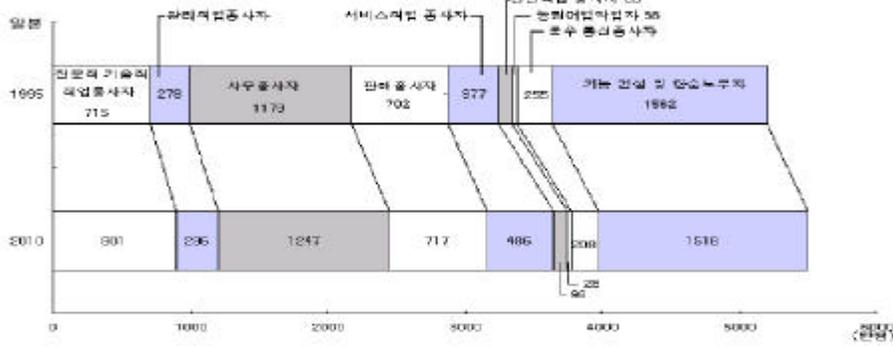
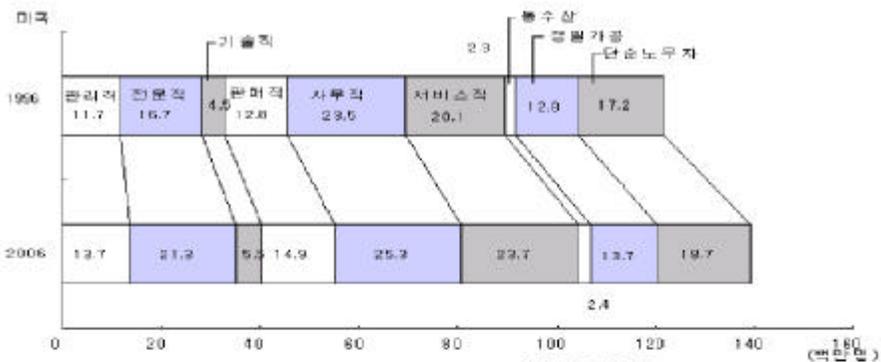
가 가

,

27)

가

(Taetigkeit)



- : 1) : 日本労働研究機構 編 「職業 ハンブック」
- 2) : WWW.bls.gov
- 3) : www.defta.gov.au

. [III-3]

< III-9 >

(: , %)

	1995	2010	가
	2,332	2,378	0.1
	4,492	3,539	-1.6
	1,680	1,668	0.0
	2,701	2,637	-0.2
	4,385	4,379	0.0
	1,525	1,756	0.9
	1,769	2,138	1.3
	3,999	4,055	0.1
	3,639	4,192	0.9
	1,112	1,252	0.8
	27,633	27,995	0.1

: Institut fuer Arbeitsmarket - und Berufdforschung der Bundesanstalt fuer Arbeit(1992)
Arbeitslandschaft bis 2010.

3.

가.

(labor flexibility)

.28)

28)

(1994)

(process innovation)

(just-in-time)

(Hammer and Champy, 1993).

가

가

가

< III-9 >

(high trust and high-skill organization)

(minimum qualification)

가

< III- 10>

(The New Organization of Work)	
(strategy)	(Organization)
<ul style="list-style-type: none"> · (core activities) · (·) (· ,) · 	<ul style="list-style-type: none"> · · · · (hierarchical models of authority) · ·
(Human Resource)	(Wage and Conditions)
<ul style="list-style-type: none"> · , , · · (multi- skilling) · 	<ul style="list-style-type: none"> · , · , (quality)

: Vickery, G. and Wurzburg, G.(1996) Flexible Firms, Skills and Employment, The OECD OBSERVER No. 202 P. 18.

. 가

가

가

(knowledge), (skill) (competence),
(cognitive and normative orientations)

. (Frenkel et al. 1995) (theoretical knowledge),
(technical knowledge) (practical or tacit
knowledge) (theoretical knowledge)

가

(technical knowledge) (key qualification)

가가

(digital knowledge)

(practical or tacit knowledge)

가 가

가

가

(learning by doing)

가

(professional skills), (social skills), (management skills), (international skills), (multiskilling)

가

(despecialization)

(group work)

가

가

(international skills)

가

< III- 11>

가

(qualification)	
(knowledge)	
(theoretical knowledge) (technical, digital knowledge) (practical, tacit knowledge)	가
(skills)	
(professional skills :multiskilling) (international skills) (social skills) (management skills)	, (despecialization), (customization),
(cognitive and normative orientations)	
(leadership) , 가 (creativity, entrepreneurship) (new type of worker)	, (commitment), (industrial citizenship)

: M. Kautonen , P. Roponen, and Gerd Schienstock, What overall qualifica- tions will be needed in future? (<http://www.reg.fi/epere/>)

(social skills and competences)

(management skills)

가

(cognitive and normative orientations)

가

가

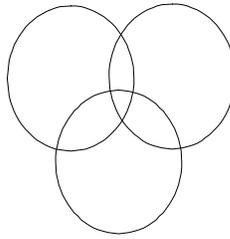
가

가

(1997).

(academic skill)

-
-
-



(personal management skill)

-
-
-

(teamwork skills)

[III-4] 가

:National Business and Education Centre(Canada)

가 (ILO) 가

가 (Reich) 가

production services) 「 」 (in-person services) 「 」 (routine
」 (symbolic-analytic services) .(Reich, 1994)

가

(Reich)

75%

(Dent)

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가

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(Dent, 1995).

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勞動市場 構造變化

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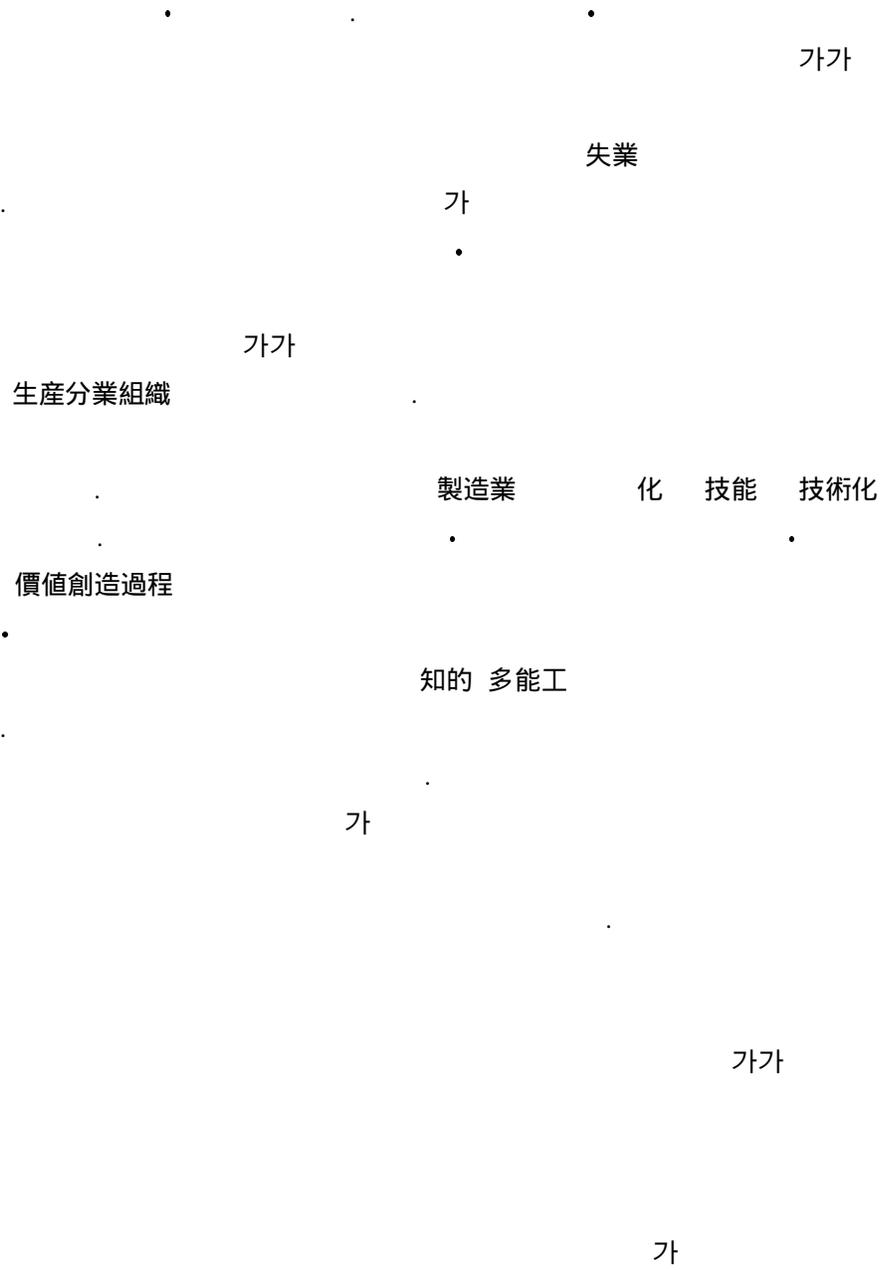
資産

가가

가가

産業空洞化

가가



가

가

가

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4)

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5) 가 (employ able)

가 가

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가 (employable person)

가 (qualification)

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IV.

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30

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IMF

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(needs)

(catch up)

(embodiment)

29) *The East Asian Miracle: Economic Growth and Public Policy*, The World Bank (1993)

本 章

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2.

가.

Richter (1984) Psacharopoulos (1984, 1991)

(labor market signals)

(1987)

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7

Amjad

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Amjad

McMahon, Boediono,

Gozail (1991)

가

Adams, Goldfarb, Kelly (1992) . Murphy, Schleifer,
Vishny (1991) “ ”
. Adams,
Middleton, Ziderman (1992)
(human capital stock)
(enrolment rate)
(international production function)
. (Mankiw, Romer, Weil, 1990, Benhabib Spiegel 1993)
McMahon (1994) ILO 가 ,
Jung(1990), Jang(1995)
Pissarides Mortensen (1994) (job creation)
(job destruction)
Millard Mortensen (1994)
가
가 가
가 ,

(market failure)가
가

(Extrapolation)

(equity) 가

가
가
가

(physical investment)

가 (Benhabib and

Spiegel 1993, McMahon and Norimon 1993, McMahon, Holsinger, and Jang 1993)

(social rate of return) / (benefit/cost)

,
.
,
.

.(McMahon 1994)

“ (/) (direct
Jacob

method)
Mincer

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,

, 가 . <

IV - 6> < IV - 7> 1980 1996

가

- (cross check) 가 J.

Mincer

가

.(Jang, 1995,

pp.100- 101)

.

가

가

가

.(McMahon 1987)

가

.(McMahon, Jung, and Boediono, 1992)

線型

.(Psacharopoulos, 1991, p460)

가가

가

가

(OJT)

가

.()

(educational

ladder)

가

가 (Hollister 1965, Hirschliffe 1987).

가 , 가 , 가 가

(ILO) 2가 “ 超短期 ” (Richter 1984, p.682)

< IV-1 >

3.

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(policy implications)

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(KSIC)

(3 digit)

(4 digit)

(5 digit)

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(KSCO)

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III

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(BLS)

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『96

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가

3)

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J. Mincer

$$\ln W = \beta_0 + \beta_1 s + \beta_2 s^2 + \beta_3 sx + \beta_4 x + \beta_5 x^2 \quad \text{---- (IV-1)}$$

(, ln w

log, s

, x

(- -9)

(- -6)

, t

, wh

, r^{i*}

)

4)

F-

t-

LnW

$$r^{i*} = \frac{\partial \text{Ln } W}{\partial s} = \beta_1 + 2\beta_2 s + x\beta_3 \quad \text{--- (IV-2)}$$

5) (式 IV-2)

가

『96

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$$r = r^{f*} * (1 - u) \quad \text{-----} \quad (\text{ IV-3})$$

, r u

6) ,
(criterion)

가 가

1) 가 가

, 가 (BLS)

, III '98 가 ,

가 ,

2) 가 , 가

『'96 』

'97 '96

530

42 4 . < IV-2 >

1,202,604 , 가 72% , 28%

, 6.2% , 13.9% , 49.5% ,

9.4% , 21%

10 28.5% , 5-10 22.7% , 1 1-2

< IV - 2> , , (1996)

	()	(%)
=1,202,604	424,865	100
	26,342	6.2
	59,056	13.9
	210,308	49.5
	39,937	9.4
	89,222	21.0
1	49,284	11.6
1- 2	46,735	11.0
2- 3	42,062	9.9
3- 4	35,264	8.3
4- 5	33,989	8.0
5- 10	96,444	22.7
10	121,087	28.5
	307,003	72.0
	117,862	28.0

: , 96] .

3) 가
 , , 가

30)

(BLS) 1996- 2006
14% (1860) 가 1986- 1996 19%

30) : Bureau of Labor Statistics, *Monthly Labor Review*, Nov. 1997.

가 . 500
 , 가
 가 118% 가
 75% , 가 가
 , 가 가
 가,
 가
 2 가
 가 가 30
 3 가 20
 , 가
 가 30
 가 가 3
 가 가 30 1/3
 , , ,
 ,
 10 가

< IV-3> 가 가 30 (, 1996-2006)
(: , %)

	1996	2006	가	가
	3146	3677	530	17
가	506	1025	520	103
	3210	3677	467	15
	1971	2382	411	21
()	4072	4481	408	10
/	2719	3123	404	15
가	495	873	378	76
	981	1352	370	38
	1312	1645	333	25
	1074	1392	318	30
	1406	1718	312	22
	830	1129	299	36
	1369	1630	262	19
가	212	461	249	118
,	2316	2562	246	11
	1362	1608	246	18
	1720	1963	243	14
	407	648	241	59
	216	451	235	109
	1253	1487	234	19
	986	1208	222	23
	955	1175	221	23
	3111	3326	215	7
	1957	2163	206	11
가	585	772	188	32
	401	584	183	46
	804	978	174	22
가	202	374	171	85
	589	757	168	28
	225	391	166	74

: Bureau of Labor Statistics, *Monthly Labor Review*, Nov. 1997, p. 78.

< IV-4> 가 가 30 (, 1996-2006)
(: , %)

	1996	2006	가	가
가	212	461	249	118
	216	451	235	109
가	506	1025	520	103
/ 가	202	374	171	85
/	84	151	66	79
가	495	873	378	76
	225	391	166	74
가	30	53	22	74
	115	196	81	71
	16	26	11	69
	113	189	76	68
	57	95	38	66
	407	648	241	59
	178	276	98	55
	80	121	42	52
	87	132	44	51
	87	131	44	51
	133	197	64	48
/	288	426	138	48
	64	93	30	47
	82	119	37	46
	401	584	183	46
, ,	343	498	155	45
	150	217	67	45
	43	62	19	45
	269	381	112	42
	180	254	74	41
, ,	303	427	123	41
	202	278	77	38
	263	363	100	38

: Bureau of Labor Statistics, *Monthly Labor Review*, Nov. 1997, p. 77.

< IV-5> 가 가 30 (, 1996- 2006)
 (:)

	1996	2006	
	453	334	- 118
	1109	997	- 112
	2250	2147	- 102
()	653	552	- 100
(,)	2881	2794	- 87
,	505	421	- 84
()	258	181	- 77
	873	798	- 75
, ,	196	149	- 47
	109	76	- 34
	183	155	- 28
가 /	37	10	- 27
,	275	250	- 25
,	634	610	- 24
	48	26	- 23
,	127	105	- 22
	26	7	- 20
	33	17	- 17
	33	18	- 16
	87	73	- 15
	41	27	- 14
	171	158	- 14
	78	65	- 13
	217	205	- 12
	15	4	- 11
	14	3	- 10
,	46	36	- 10
	26	16	- 10
	71	61	- 10
	161	151	- 10

: Bureau of Labor Statistics, *Monthly Labor Review*, Nov. 1997, p. 80.

5.

가.

J. Mincer

『96

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< IV-6>

(sign) t- (significance) .31)

(interaction term)가 가

< IV-6> (s) () - .1542

(s²) () (sx), (x),

(x²) .0093 .

準對數(semi log form) 가 가

15.4%가

.93%가

16 6

, 2.46% ,

2.38%가 , * .14% 가 .

.6%가

除

t- 가

31) 가

가 (s²)가 (s)

(dominate) . (Jang, 1995)

< IV-6> , (1996)

	t - v value			t - v value			t - v value		
	R^2			R^2			R^2		
(constant)		13.9992	735.709		14.7112	680.955		14.1389	427.11
(s)	0.438	-0.1542	-58.754	0.4209	-0.2233	-76.368	0.2916	-0.1874	-39.33
$2(s^2)$	a- R^2	0.0093	102.027	a- R^2	0.0110	109.063	a- R^2	0.0109	62.778
* (sx)	0.438	0.0015	52.978	0.4209	0.0019	58.488	0.2915	0.0014	25.98
(x)		0.0460	97.409		0.0410	76.759		0.0140	16.092
$2(x^2)$		-0.0012	-243.688		-0.0013	-223.125		-0.0005	-60.662

: , 『96 』

•

1) 가 (3 digit) , 가
 가
 (BLS) 가가 ,
 III 가 가
 , 『96 』
 가
 < IV-7> 가
 , 5節 가項
 가 가
 가 가
 .
 (KSIC)

3 (3digit) .
 723 .
 가 (723), (851),
 (630), (853), (749), (920),
 (930), (923), (659), (924),
 (502), (921), (713), (651)

2) (3 digit) ,

(BLS) 가가 ,
 III
 가 , 『'96 가 』
 가
 < IV - 1 >
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 , 計量 分析的
 (251),
 (332), (312), (232), 가 가 (293), 1

(271), (101), (333), (192), (331),
, 가 (111, 191), (160), (342), (155),
(131), (181) .

< IV-7> (3 digit) , (1996)

(723)	t-value			t-value			t-value		
(constant)	R^2	8.1367	5.754	R^2	12.5799	7.437	R^2	11.7640	4.516
(s)	0.8668	0.5116	2.505	0.6482	0.0313	0.135	0.7319	0.0291	0.076
$2(S^2)$	a- R^2	-0.0083	-1.14	a- R^2	0.0044	0.555	a- R^2	0.0078	0.558
* (sx)	0.8658	-0.0095	-9.531	0.6431	-0.0038	-2.377	0.7274	-0.0076	-1.846
(x)		0.2503	16.405		0.1635	5.86		0.1479	2.873
$2(x^2)$		-0.0022	-8.916		-0.0025	-7.911		0.0013	1.917
(851)									
(constant)	R^2	13.5316	94.496	R^2	14.2918	53.018	R^2	13.0508	72.597
(s)	0.45	-0.1466	-7.544	0.4172	-0.2382	-6.713	0.4085	-0.0806	-3.257
$2(S^2)$	a- R^2	0.0108	16.168	a- R^2	0.0132	11.099	a- R^2	0.0088	10.178
* (sx)	0.4498	0.0005	2.564	0.4166	0.0012	3.64	0.4082	-0.0004	-1.555
(x)		0.0550	18.146		0.0584	10.302		0.0564	14.026
$2(x^2)$		-0.0011	-36.125		-0.0014	-26.361		-0.0009	-23.63
(630)									
(constant)	R^2	13.5481	85.575	R^2	13.8750	87.362	R^2	13.6143	36.678
(s)	0.3575	-0.0777	-3.708	0.3312	-0.0962	-4.65	0.216	-0.0983	-1.908
$2(S^2)$	a- R^2	0.0055	7.693	a- R^2	0.0055	7.957	a- R^2	0.0066	3.637
* (sx)	0.357	0.0007	2.568	0.3305	0.0007	2.702	0.2128	0.0008	1.2
(x)		0.0600	13.938		0.0551	12.292		0.0180	1.847
$2(x^2)$		-0.0012	-27.092		-0.0011	-24.343		-0.0003	-3.484
(853)									
(constant)	R^2	12.8601	30.074	R^2	12.6985	14.638	R^2	12.6156	27.243
(s)	0.2489	0.0113	0.198	0.2807	0.0029	0.026	0.2057	0.0748	1.18
$2(S^2)$	a- R^2	0.0022	1.061	a- R^2	0.0033	0.855	a- R^2	-0.0010	-0.441
* (sx)	0.2396	0.0001	0.119	0.2514	-0.0006	-0.543	0.1912	0.0001	0.205
(x)		0.0292	2.755		0.0620	2.661		0.0172	1.531
$2(x^2)$		-0.0004	-3.98		-0.0010	-4.061		-0.0002	-1.659
(749)									
(constant)	R^2	14.1464	123.82	R^2	14.9412	114.127	R^2	13.8048	74.863
(s)	0.2772	-0.1855	-11.802	0.2581	-0.2987	-16.549	0.2674	-0.1157	-4.427
$2(S^2)$	a- R^2	0.0108	19.074	a- R^2	0.0149	22.935	a- R^2	0.0068	7.156
* (sx)	0.277	0.0002	1.01	0.2578	0.0000	-0.207	0.2667	0.0000	0.138
(x)		0.0221	7.828		0.0323	10.163		-0.0021	-0.465
$2(x^2)$		-0.0006	-27.966		-0.0008	-31.851		-0.0001	-2.856

	t- value			t- value			t- value			
(900)										
(constant)	R^2	13.7784	52.67	R^2	14.2883	71.704	R^2	13.6482	8.092	
(s)		0.0907	-0.0816	-2.419	0.079	-0.0809	-3.206	0.2335	-0.1515	-0.648
$2(S^2)$	a- R^2	0.0061	5.193	a- R^2	0.0046	5.298	a- R^2	0.0101	1.235	
* (sx)		0.0886	-0.0001	-0.274	0.0767	0.0007	1.842	0.212	-0.0003	-0.103
(x)			0.0377	4.275		0.0052	0.752		0.0131	0.258
$2(x^2)$			-0.0006	-6.718		-0.0002	-2.346		-0.0004	-0.848
(930)										
(constant)	R^2	15.4177	30.781	R^2	14.8708	29.862	R^2	13.3104	12.234	
(s)		0.2197	-0.3770	-5.538	0.3201	-0.2499	-3.663	0.1005	-0.0370	-0.25
$2(S^2)$	a- R^2	0.0177	7.021	a- R^2	0.0126	4.967	a- R^2	0.0025	0.492	
* (sx)		0.2122	0.0023	2.91	0.3079	0.0011	1.44	0.0817	-0.0001	-0.026
(x)			-0.0035	-0.264		0.0215	1.703		0.0188	0.61
$2(x^2)$			-0.0003	-2.529		-0.0006	-5.182		-0.0003	-1.189
(923)										
(constant)	R^2	8.7124	8.481	R^2	8.5292	7.411	R^2	9.0396	3.092	
(s)		0.725	0.5566	4.158	0.6797	0.6236	4.409	0.6936	0.4553	1.187
$2(S^2)$	a- R^2	-0.0160	-3.664	a- R^2	-0.0191	-4.258	a- R^2	-0.0098	-0.793	
* (sx)		0.7147	-0.0015	-1.018	0.6629	-0.0018	-1.07	0.6458	-0.0043	-0.742
(x)			0.1073	4.277		0.0979	3.064		0.1226	1.425
$2(x^2)$			-0.0014	-5.733		-0.0011	-3.206		-0.0014	-2.113
(659)										
(constant)	R^2	12.8889	25.749	R^2	12.0363	20.989	R^2	14.6840	9.131	
(s)		0.529	-0.0105	-0.153	0.4298	0.1065	1.415	0.198	-0.1887	-0.838
$2(S^2)$	a- R^2	0.0051	2.141	a- R^2	0.0014	0.556	a- R^2	0.0083	1.065	
* (sx)		0.5274	-0.0009	-1.792	0.4271	-0.0024	-3.766	0.1873	0.0008	0.327
(x)			0.0972	10.972		0.1171	9.828		0.0514	1.48
$2(x^2)$			-0.0016	-16.792		-0.0016	-14.387		-0.0015	-5.226

	t- value			t- value			t- value		
(924)									
(constant)	R^2	13.8070	60.342	R^2	13.8357	55.738	R^2	13.8483	25.131
(s)	0.4557	-0.1109	-3.516	0.4198	-0.0846	-2.498	0.2613	-0.1134	-1.46
$2(S^2)$	a- R^2	0.0072	6.563	a- R^2	0.0057	4.852	a- R^2	0.0070	2.578
* (sx)	0.455	0.0010	3.159	0.4185	0.0006	1.904	0.2584	0.0006	0.703
(x)		0.0592	11.774		0.0611	10.839		0.0382	3.012
$2(x^2)$		-0.0014	-28.498		-0.0014	-24.225		-0.0009	-9.531
(502)									
(constant)	R^2	12.7734	73.525	R^2	12.7582	74.583	R^2	11.2673	9.297
(s)	0.4475	0.0502	2.076	0.4519	0.0559	2.362	0.2477	0.3274	1.782
$2(S^2)$	a- R^2	0.0013	1.445	a- R^2	0.0011	1.247	a- R^2	-0.0117	-1.633
* (sx)	0.4467	-0.0019	-5.759	0.4511	-0.0020	-5.78	0.2302	-0.0035	-2.254
(x)		0.1029	21.027		0.1027	20.476		0.0898	4.147
$2(x^2)$		-0.0017	-34.752		-0.0017	-33.595		-0.0009	-5.155
(921)									
(constant)	R^2	12.8910	60.834	R^2	12.6574	60.591	R^2	15.9671	29.259
(s)	0.6517	-0.0310	-1.059	0.664	-0.0024	-0.085	0.4004	-0.4069	-5.304
$2(S^2)$	a- R^2	0.0064	6.308	a- R^2	0.0058	5.911	a- R^2	0.0173	6.48
* (sx)	0.6514	-0.0006	-2.299	0.6636	-0.0020	-7.693	0.3982	0.0046	6.547
(x)		0.1054	24.741		0.1289	28.784		-0.0116	-1.018
$2(x^2)$		-0.0017	-32.768		-0.0019	-36.068		-0.0007	-4.926
(713)									
(constant)	R^2	13.4184	6.212	R^2	13.6975	5.615			
(s)	0.8255	-0.0587	-0.19	0.6291	-0.1083	-0.33			
$2(S^2)$	a- R^2	0.0067	0.62	a- R^2	0.0091	0.801			
* (sx)	0.8077	0.0002	0.083	0.5712	-0.0003	-0.114			
(x)		0.0753	2.985		0.0693	1.39			
$2(x^2)$		-0.0015	-3.411		-0.0011	-1.974			
(671)									
(constant)	R^2	13.0898	44.649	R^2	13.9779	42.561	R^2	13.2280	18.861
(s)	0.6444	0.0154	0.376	0.6088	-0.0472	-1.04	0.3691	0.0480	0.488
$2(S^2)$	a- R^2	0.0030	2.149	a- R^2	0.0036	2.313	a- R^2	-0.0006	-0.165
* (sx)	0.644	0.0001	0.328	0.6083	0.0013	4.034	0.3657	0.0030	2.31
(x)		0.0838	17.275		0.0624	11.437		0.0279	1.499
$2(x^2)$		-0.0016	-28.041		-0.0016	-27.005		-0.0011	-5.963

: 『96

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1) 가 (3 digit) ,
 가
 (BLS) 가가 ,
 가 가 III 가 가
 , 『'96 』
 가 , 가
 가 ,
 < IV-8> 가
 ,
 (KSCO) 3
 ,
 가
 가 * 가 ,
 가 反映 *
 가
 가 有意性
 가 *
 가 가
 (123), (131), (212), 가(213), 가
 (214), (223), (232), (244), 가

(245), 가(246), (311), (322),
(347), (412), (419), (421), (422),
 (511), (513), (516), (522),
(724), (832), (834), (932) .

	t- value			t- value			t- value		
(123)									
(constant)	R^2	13.2259	46.913	R^2	13.3923	47.253	R^2	5.5829	1.604
(s)		0.1776	0.0214	0.606	0.1754	0.0045	0.127	0.3091	0.9962
$2(S^2)$	a- R^2	0.0029	2.551		a- R^2	0.0033	2.922	a- R^2	-0.0281
* (sx)		0.1769	-0.0017	-5.665	0.1747	-0.0015	-4.876	0.2474	-0.0068
(x)			0.0774	13.697		0.0730	12.718		0.1563
$2(x^2)$			-0.0010	-19.143		-0.0009	-18.319		-0.0011
(131)									
(constant)	R^2	14.2665	24.536	R^2	14.2395	24.471	R^2	20.3351	0.95
(s)		0.1394	-0.1058	-1.525	0.1447	-0.1023	-1.474	0.1626	-1.0848
$2(S^2)$	a- R^2	0.0068	3.074		a- R^2	0.0067	3.023	a- R^2	0.0454
* (sx)		0.1357	-0.0006	-0.85	0.141	-0.0005	-0.821	-0.099	-0.0077
(x)			0.0449	3.37		0.0446	3.352		0.1305
$2(x^2)$			-0.0006	-5.328		-0.0006	-5.248		-0.0006
(212)									
(constant)	R^2	-2.9637	-0.302	R^2	-3.2470	-0.304			
(s)		0.9278	2.0502	1.446	0.9278	2.0895	1.357		
$2(S^2)$	a- R^2	-0.0601	-1.201		a- R^2	-0.0614	-1.13		
* (sx)		0.8762	-0.0347	-8.751	0.8676	-0.0348	-7.996		
(x)			0.4840	7.097		0.4839	6.588		
$2(x^2)$			0.0022	1.335		0.0023	1.244		
가(213)									
(constant)	R^2	15.6790	23.034	R^2	16.2779	21.035	R^2	16.0335	10.987
(s)		0.5188	-0.4122	-4.512	0.5066	-0.4769	-4.621	0.467	-0.4562
$2(S^2)$	a- R^2	0.0187	6.099		a- R^2	0.0206	5.97	a- R^2	0.0195
* (sx)		0.5184	-0.0022	-3.416	0.5062	-0.0018	-2.405	0.4641	-0.0001
(x)			0.1337	12.398		0.1223	10.087		0.0995
$2(x^2)$			-0.0022	-26.72		-0.0022	-23.313		-0.0021
가(214)									
(constant)	R^2	12.9512	55.27	R^2	13.1926	55.923	R^2	19.5217	11.377
(s)		0.5495	0.0105	0.339	0.5479	-0.0062	-0.199	0.4762	-0.9308
$2(S^2)$	a- R^2	0.0030	2.828		a- R^2	0.0031	3.023	a- R^2	0.0351
* (sx)		0.5495	-0.0017	-6.681	0.5478	-0.0012	-4.555	0.4741	0.0046
(x)			0.1124	26.745		0.1022	23.671		0.0246
$2(x^2)$			-0.0017	-73.805		-0.0017	-72.628		-0.0020
(223)									
(constant)	R^2	12.6800	19.191	R^2	0.2422	0.027	R^2	12.7030	19.11
(s)		0.3025	-0.0588	-0.681	0.3161	1.7936	1.497	0.3047	-0.0643
$2(S^2)$	a- R^2	0.0093	3.307		a- R^2	-0.0589	-1.478	a- R^2	0.0096
* (sx)		0.3018	-0.0024	-3.199	0.2665	-0.0093	-1.069	0.304	-0.0024
(x)			0.0824	7.246		0.1865	1.458		0.0811
$2(x^2)$			-0.0008	-10.999		-0.0013	-2.642		-0.0008

(232)										
(constant)	R^2	10.3943	21.857	R^2	10.0858	20.862	R^2	20.1188	6.167	
(s)		0.6097	0.3084	4.991	0.6221	0.3648	5.804	0.5621	-1.1125	-2.476
$2(S^2)$	a- R^2	-0.0056	-2.68		a- R^2	-0.0078	-3.665	a- R^2	0.0451	2.924
* (sx)		0.6092	-0.0024	-4.138	0.6214	-0.0024	-4.109	0.5603	-0.0020	-1.007
(x)			0.0888	9.768		0.0898	9.507		0.0833	2.689
$2(x^2)$		-0.0006	-16.615		-0.0006	-14.851		-0.0006	-8.338	
(244)										
(constant)	R^2	26.6571	4.898	R^2	18.6704	1.223	R^2	20.4665	3.495	
(s)		0.5409	-2.0357	-2.725	0.5961	-0.9490	-0.437	0.4444	-1.0279	-1.287
$2(S^2)$	a- R^2	0.0764	2.992		a- R^2	0.0398	0.521	a- R^2	0.0375	1.38
* (sx)		0.5302	0.0027	1.095	0.5812	0.0003	0.087	0.4063	0.0049	1.569
(x)			0.0521	1.248		0.1029	1.667		-0.0322	-0.591
$2(x^2)$		-0.0018	-6.436		-0.0022	-6.979		-0.0004	-1.025	
7(245)										
(constant)	R^2	13.7274	32.448	R^2	14.0571	32.716	R^2	12.4248	10.092	
(s)		0.4374	-0.1792	-3.061	0.4159	-0.2021	-3.42	0.399	0.0219	0.129
$2(S^2)$	a- R^2	0.0120	5.791		a- R^2	0.0125	5.976	a- R^2	0.0036	0.616
* (sx)		0.4366	-0.0015	-2.907	0.4148	-0.0011	-2.077	0.3949	-0.0012	-0.632
(x)			0.1194	13.319		0.1078	11.296		0.1075	3.368
$2(x^2)$		-0.0019	-24.572		-0.0018	-22.958		-0.0018	-6.179	
7(246)										
(constant)	R^2	-13.713	-0.652							
(s)		0.6459	3.3730	1.213						
$2(S^2)$	a- R^2	-0.1021	-1.107							
* (sx)		0.5527	-0.0170	-1.085						
(x)			0.2666	1.119						
$2(x^2)$		0.0010	1.144							
(311)										
(constant)	R^2	13.2459	63.484	R^2	13.4790	64.066	R^2	13.3003	14.639	
(s)		0.5385	0.0208	0.708	0.5224	-0.0022	-0.074	0.4561	0.0372	0.281
$2(S^2)$	a- R^2	0.0008	0.816		a- R^2	0.0015	1.431	a- R^2	-0.0021	-0.427
* (sx)		0.5383	-0.0008	-2.704	0.5222	-0.0006	-2.043	0.4521	0.0058	3.791
(x)			0.0844	20.214		0.0786	18.577		-0.0016	-0.075
$2(x^2)$		-0.0014	-45.05		-0.0013	-43.117		-0.0012	-4.607	
(322)										
(constant)	R^2	11.4220	13.68	R^2	9.7430	3.928	R^2	12.4334	14.293	
(s)		0.3966	0.1736	1.591	0.4133	0.4248	1.368	0.3606	0.0503	0.439
$2(S^2)$	a- R^2	-0.0022	-0.62		a- R^2	-0.0106	-1.088	a- R^2	0.0013	0.334
* (sx)		0.3931	-0.0057	-4.602	0.3943	-0.0061	-1.997	0.3561	-0.0021	-1.104
(x)			0.1510	7.93		0.1425	3.024		0.1051	3.809
$2(x^2)$		-0.0014	-8.406		-0.0008	-2.637		-0.0018	-8.857	
(347)										
(constant)	R^2	15.5097	27.181	R^2	14.7206	22.021	R^2	16.5320	18.62	
(s)		0.47	-0.3696	-4.614	0.4859	-0.2369	-2.519	0.4275	-0.5024	-4.047
$2(S^2)$	a- R^2	0.0161	5.749		a- R^2	0.0115	3.488	a- R^2	0.0199	4.612
* (sx)		0.4688	0.0032	5.026	0.4837	0.0017	2.417	0.4248	0.0069	5.979
(x)			0.0425	4.15		0.0607	5.113		-0.0237	-1.255
$2(x^2)$		-0.0016	-14.396		-0.0017	-13.855		-0.0011	-5.076	

	t- value			t- value			t- value			
(412)										
(constant)	R^2	13.8195	66.652	R^2	14.5444	61.464	R^2	14.2648	31.855	
(s)		0.4952	-0.1228	-4.193	0.404	-0.1707	-5.217	0.4223	-0.1688	-2.618
$2(S^2)$	$a-R^2$	0.0079	7.689		$a-R^2$	0.0082	7.273	$a-R^2$	0.0082	3.605
* (sx)		0.495	-0.0013	-6.028	0.4037	0.0003	1.319	0.4216	-0.0003	-0.475
(x)			0.1037	30.69		0.0718	16.971		0.0858	10.105
$2(x^2)$			-0.0018	-44.671		-0.0015	-34.488		-0.0017	-18.01
(419)										
(constant)	R^2	13.0827	147.793	R^2	13.6349	125.667	R^2	13.3366	80.039	
(s)		0.5617	-0.0425	-3.451	0.44	-0.0803	-5.506	0.3796	-0.0448	-1.892
$2(S^2)$	$a-R^2$	0.0054	12.772		$a-R^2$	0.0059	11.9	$a-R^2$	0.0040	4.779
* (sx)		0.5617	-0.0009	-8.387	0.4399	-0.0002	-1.173	0.3793	0.0005	2.085
(x)			0.0953	56.96		0.0784	35.123		0.0626	17.814
$2(x^2)$			-0.0016	-88.735		-0.0015	-68.48		-0.0014	-35.506
(421)										
(constant)	R^2	12.8756	53.056	R^2	12.1332	30.959	R^2	13.0999	41.249	
(s)		0.412	-0.0103	-0.299	0.4448	0.1176	2.171	0.2198	-0.0024	-0.051
$2(S^2)$	$a-R^2$	0.0040	3.323		$a-R^2$	-0.0009	-0.491	$a-R^2$	0.0022	1.324
* (sx)		0.4117	-0.0004	-1.308	0.4437	-0.0030	-6.239	0.2192	0.0009	1.775
(x)			0.0840	17.324		0.1360	17.664		0.0481	6.731
$2(x^2)$			-0.0016	-31.116		-0.0022	-27.801		-0.0013	-19.053
(422)										
(constant)	R^2	11.7317	42.424	R^2	11.7854	17.894	R^2	11.7357	37.18	
(s)		0.5416	0.1243	3.221	0.4163	0.1352	1.499	0.5877	0.1388	3.142
$2(S^2)$	$a-R^2$	0.0002	0.132		$a-R^2$	-0.0004	-0.115	$a-R^2$	-0.0011	-0.701
* (sx)		0.5411	-0.0037	-8.753	0.4137	-0.0027	-3.368	0.5871	-0.0035	-6.514
(x)			0.1262	19.817		0.1094	8.767		0.1196	15.054
$2(x^2)$			-0.0014	-20.987		-0.0014	-12.271		-0.0012	-14.426
(511)										
(constant)	R^2	10.5813	8.815	R^2	17.1202	13.434	R^2	-2.9037	-1.285	
(s)		0.3555	0.3952	2.376	0.6149	-0.6265	-3.483	0.3728	2.3663	7.7
$2(S^2)$	$a-R^2$	-0.0108	-1.883		$a-R^2$	0.0278	4.415	$a-R^2$	-0.0817	-7.848
* (sx)		0.3524	0.0067	5.813	0.6098	0.0031	2.529	0.3682	0.0178	6.051
(x)			-0.0458	-2.368		0.0107	0.523		-0.2005	-4.37
$2(x^2)$			-0.0008	-4.128		-0.0009	-4.253		-0.0005	-1.459
(513)										
(constant)	R^2	10.7822	25.954	R^2	10.3770	15.676	R^2	10.9075	17.156	
(s)		0.2685	0.3227	5.42	0.1885	0.4230	4.614	0.2486	0.3016	3.24
$2(S^2)$	$a-R^2$	-0.0090	-4.179		$a-R^2$	-0.0136	-4.157	$a-R^2$	-0.0081	-2.374
* (sx)		0.2673	-0.0036	-5.267	0.1811	-0.0042	-3.649	0.2471	-0.0033	-3.259
(x)			0.0924	10.083		0.0981	5.888		0.0833	6.475
$2(x^2)$			-0.0009	-14.599		-0.0011	-7.929		-0.0008	-10.021

(516)										
(constant)	R^2	13.6210	36.05	R^2	14.1003	35.669	R^2	22.8120	4.39	
(s)		0.3435	-0.1260	-2.517	0.2283	-0.1595	-3.097	0.6038	-1.4891	-1.945
$2(S^2)$	a- R^2	0.0085	5.014		a- R^2	0.0089	5.145	a- R^2	0.0576	2.075
* (sx)		0.342	-0.0009	-1.343	0.2265	0.0000	0.047	0.5913	0.0119	2.263
(x)			0.0775	7.894		0.0543	5.014		-0.1021	-1.579
$2(x^2)$			-0.0011	-13.014		-0.0009	-8.759		0.0001	0.426
(522)										
(constant)	R^2	13.0537	46.898	R^2	11.7011	29.238	R^2	12.4085	31.698	
(s)		0.1197	0.0091	0.229	0.226	0.2378	4.252	0.0517	0.1296	2.272
$2(S^2)$	a- R^2	0.0025	1.811		a- R^2	-0.0065	-3.361	a- R^2	-0.0029	-1.394
* (sx)		0.1191	-0.0019	-4.072	0.2238	-0.0026	-3.892	0.0509	-0.0034	-5.399
(x)			0.0646	10.025		0.0932	9.545		0.0697	8.161
$2(x^2)$			-0.0011	-21.613		-0.0015	-18.45		-0.0010	-15.377
(724)										
(constant)	R^2	13.4116	90.079	R^2	13.5374	93.536	R^2	13.5709	18.099	
(s)		0.3979	-0.0093	-0.446	0.4361	-0.0240	-1.183	0.1084	-0.0534	-0.504
$2(S^2)$	a- R^2	0.0024	3.252		a- R^2	0.0028	4.002	a- R^2	0.0046	1.204
* (sx)		0.3976	-0.0001	-0.566	0.4358	-0.0004	-1.397	0.1027	0.0013	0.887
(x)			0.0641	17.098		0.0671	18.558		0.0095	0.425
$2(x^2)$			-0.0011	-34.747		-0.0011	-36.989		-0.0003	-1.406
(832)										
(constant)	R^2	13.4686	107.232	R^2	13.4538	106.7	R^2	13.6628	8.675	
(s)		0.1058	0.0128	0.695	0.1064	0.0148	0.799	0.0958	-0.0808	-0.374
$2(S^2)$	a- R^2	-0.0005	-0.619		a- R^2	-0.0005	-0.712	a- R^2	0.0066	0.804
* (sx)		0.1055	-0.0008	-3.334	0.1062	-0.0008	-3.414	0.0371	-0.0017	-0.598
(x)			0.0443	11.751		0.0449	11.869		0.0140	0.307
$2(x^2)$			-0.0006	-15.667		-0.0006	-15.837		0.0004	0.73
(834)										
(constant)	R^2	11.4243	12.605	R^2	11.4473	12.593				
(s)		0.0844	0.2640	2.043	0.08	0.2625	2.027			
$2(S^2)$	a- R^2	-0.0052	-1.009		a- R^2	-0.0052	-1.007			
* (sx)		0.0665	-0.0050	-3.055	0.0618	-0.0050	-3.001			
(x)			0.0993	3.773		0.0978	3.686			
$2(x^2)$			-0.0009	-4.222		-0.0009	-4.059			
(932)										
(constant)	R^2	12.2623	50.319	R^2	12.5015	49.858	R^2	12.4135	37.683	
(s)		0.1266	0.0610	1.532	0.2651	0.0803	2.06	0.0653	0.0440	0.772
$2(S^2)$	a- R^2	0.0030	1.732		a- R^2	0.0002	0.143	a- R^2	0.0028	1.093
* (sx)		0.1257	-0.0040	-9.427	0.2638	-0.0029	-6.316	0.0631	-0.0041	-7.509
(x)			0.0971	15.766		0.0933	13.906		0.0707	9.163
$2(x^2)$			-0.0012	-22.189		-0.0013	-22.947		-0.0007	-9.745

: 『96

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2)

(3 digit) ,

(BLS) 가가
 가
 III , 『96
 가
 < IV-2>
 (KSCO)
 가
 * 가
 * 가
 가 가
 가
 *
 (*412),
 (414), (*419), (*244), 가
 (312), (315), (411), (714), (721),
 (*422), (*513), (611), (612), (711),
 (722), (723), (*724), (732), (734), 가 (741),
 (743), (822), (823), (826), (913) (931) .
 가

* 가 (4 digit)
 (5 digit) 가

6.

가.

가 B/C

(direct method)

. < IV-9>

1967	12.0%	1980	2.9%			
				1967	1971	9%
14.6%	가	1971	1980	14.6%	8.1%	
		1980				
			1967	1986	20	
			가			
		1967	5%	1986	15.5%	
				가		

가가 가

가

.(Jang, 1995)

< IV-9> (B/C)

(: %)

1967	12.0	9.0	5.0
1971	8.2	14.6	9.3
1980	2.9	8.1	11.7
1986	-	8.8	15.5

: Jang (1995), p. 97

1)

< IV-10>

가

16.2%

가 가

16.2%

가

가

16.2%

32)

가

2)

'96

3

11.9%

32)

11.9%

가

11.9%

가

< IV - 10> 5 J. Mincer

(式

IV - 2) (式 IV - 3)

6節 項

가 가 ,
(reference value)

8.9%,

12.5%,

16.2%

6節 가項 < IV - 9>

1986

8.8%

1986

1.4%p.

< IV - 10>

(1996)

(: %)

	8.9	6.5	9.2
	12.5	10.8	13.3
	16.2	15.1	17.6

: < IV - 6>

1) ,

(1 digit)

< IV - 11>

가

. 3

< IV - 11> ,

(8.9%)	(12.5%)	(16.2%)
(8.9%)	(12.6%)	(18.8%)
(10.2%)	(13.8%)	(17.4%)
(10.3%)	(12.8%)	(25.6%)
(11%)	(18.3%)	(18.9%)
(11.6%)	(15.3%)	(18.3%)
(8.9%)	(13.6%)	

2)

本 目

項 1)目

가 가

8.9% < IV-7> 8.9%
 12.5%,
 16.2% < IV-12>
 < IV-3> , 가
 (KSIC) 3
 (723) 17.3%
 가 가
 (923)
 14.6% (851)
 11.5%, (921) 11.2%, (332) 11.2%, (312) 11.2%
 가 가
 (human health activities, 851) 15.7%
 가 가 가
 , , , ,
 (930) 14.6%
 , (723) 14.4%, (181) 13.8%,
 (921) 13.6%
 16.2%
 (other service activities, 930) 21.4%
 , 가

가

가가

19.9%, 16.9%, 16.6%, 16.1%

< IV - 12 >

(8.8%)		(12.5%)		(16.2%)	
(17.7%)	723	(15.7%)	851	(21.4%)	930
(14.6%)	923	(14.6%)	930	(19.9%)	851
(11.5%)	851	(14.4%)	723	(16.9%)	181
(11.2%)	921	(13.8%)	181	(16.6%)	192
(11.2%)	332	(13.6%)	921		
(11.2%)	312	(12.8%)	713		
(10.8%)	181	(12.7%)	192		
(10.7%)	331				
가	(10.5%) 293				
	(10.2%) 713				
	(9.6%) 659				
	(8.9%) 192				
	(8.8%) 160				

:< IV - 7 >

3) ,

本目 6節 項 2)目

< IV - 7 >

가 11.9% 11.9%

2

가 , 11.9%

IV-4> , < IV-13> <
(KSIC) 3

項 2)目
가 가
가
(personnel supply services 749) 15.8%

가
(renting of general goods 713)

(251), (659), (312), (101),
(924), (331), (131)
< IV-13 >

< IV - 13 >

(17.7%)	723	(15.7%)	851	(21.4%)	930
(14.6%)	923	(14.6%)	930	(19.9%)	851
		(14.4%)	723	(16.9%)	181
		(13.8%)	181	(16.6%)	192
		(13.6%)	921	(16.1%)	921
		(12.8%)	713	(15.8%)	749
		(12.7%)	192	(15.4%)	713
				(13.8%)	251
				(13.5%)	659
				(13.4%)	312
				(13.0%)	101
				(12.9%)	924
				(12.7%)	331
				(12.1%)	131

: < IV - 7 >

.

1) (2 digit)

(2 digit)

< IV - 14 > . 가,

, 가, 가, ,

가, 가, ,

가 .

가

가

가 가

< IV - 14 >

(8.9%)	(12.5%)	(16.2%)
가(13.2%)	가(17.6%)	가(22%)
(9.3%)	가(12.8%)	가(17.2%)
(10.1%)	22(17.3%)	22(29.1%)
	(13.7%)	(17.3%)

2)

가가 가

8.9%

< IV - 8 >

8.9%

12.5%,

16.2%

< IV - 15 >

< IV - 5 >

(KSCO) 3

가(religious professionals, 246)가 66.8%

가

가 가 가
가 가 가
(511) 22.3%

(851) 11.5%, (921) 11.2%, (332) 11.2%,
(312) 11.2% 가 가

가가 27.0% 가
가

(741) 19.5%
, 가 , , 가
, , , 가
18.1%, 16.4% .
13.8%, 가(245), (732) 12.5%

가
16.2%

가 (social science and related professionals) 43.6%

, , , 가 가 , , 가, 가
, 가 , , 가
가 , ,

< IV - 15 >

(8.9%)		(12.5%)		(16.2%)	
가(66.8%)	246	가(27.0%)	246	(43.6%)	244
(22.3%)	511	가 (19.5%)	741	가 (26.2%)	741
(13.9%)	232	(18.1%)	511	(20.1%)	223
가 (12.8%)	741	(16.4%)	223	(18.4%)	347
(12.8%)	223	(13.8%)	244	가(17.8%)	245
(11.9%)	212	가(13.1%)	245		
(11.8%)	732	(12.6%)	732		
(10.2%)	826				
(9.1%)	823				

:< IV-8>

3)

本 目

< IV - 8 >

11.9%

11.9%

11.9%

가

가

가

가

. < IV - 16 >

< IV - 7 >

가 가

(KSCO)

3

가

가(artistic entertainment and sports associate professionals 347)
12.2% 가 가
가 . 가
, 가 , 가, 가 .
가 가
(213)가 15.1%, (734) 14.2%, (511) 13.9%, (732)
13.5%, (516) 13.1%, (411) 11.9% 가 .
가(computing professionals)
가, 가,
, ,
, 가 (potters, glass-makers, 732)
, 가 , , ,
가 .
가 (protective services workers) 13.1%
, , , , , ,
가

< IV - 16 >

가(66.8%)	246	가(27.0%)	246	(43.6%)	244
(22.3%)	511	가 (19.5%)	741	가 (26.2%)	741
(13.9%)	232	(18.1%)	511	(20.1%)	223
가 (12.8%)	741	(16.4%)	223	(18.4%)	347
(12.8%)	223	(13.8%)	244	가(17.8%)	245
(11.9%)	212	가(13.1%)	245	가(15.1%)	213
		(12.6%)	732	(14.2%)	734
		(12.2%)	347	(13.9%)	511
				(13.5%)	732
				(13.1%)	516
				(11.9%)	411

< IV - 8 >

.

1)

1/2

本 目

,
가

가
가 가

가

1/2

가 가

가 가

가

1/2 가 가
 8.9%
 < IV-2>
 4.5%
 1/2 6.3%
 1/2 8.1%
 < IV-17> 가 , < IV-6> 가
 가 가 가
 (KSCO) 3
 (244) 가 - 16.0%, (832)
 - 9%, 가(213) .5%, (611) 1.1%, (714) 1.9%,
 (721) 2.2%, (612) 3.2% 3%
 . 3%
 (931) 3.2%, , ,
 (miners, shoterfiers, stone cutters and carvers)
 3.6%, (414) 3.7%, (322) 4.0%, ,
 - 16%
 가 가 가
 가 가 가 가

가
가

가, (modern health associate professionals
except nursing) 4.0%

1/2 가
(212)가 - 11.5% 가

- 1.1%, , , ,

가 3% . 3 6%

(blacksmiths, toolmakers and related trades workers, 722), , ,
(743), , (723), ,
(315)

가가

가

가

가

1/2

가

가

가(312), , , ,

4% . 4 8%

(422), 가(214)

가가 가

< IV-17> , 1/2 (1996)

(4.5%)				(8.1%)	
(4.5%)	724	(6.1%)	315	가(7.9%)	214
(4.2%)	522	(6.1%)	711	(7.6%)	422
(4.0%)	322	(6.0%)	723	(7.3%)	315
(3.7%)	414	(5.4%)	724	(6.3%)	724
(3.6%)	711	(5.2%)	522	(6.2%)	522
(3.2%)	931	(5.1%)	743	(6.2%)	414
(3.2%)	612	(5.0%)	414	(4.5%)	611
(2.9%)	311	(4.7%)	834	(4.1%)	743
(2.2%)	721	(4.7%)	311	(3.7%)	612
(1.9%)	714	(4.3%)	722	(3.6%)	311
(1.1%)	611	(3.5%)	612	(3.5%)	722
가(0.5%)	213	(3.1%)	322	(2.7%)	834
(-0.9%)	832	가(3.0%)	312	(2.2%)	322
(-16.0%)	244	(2.8%)	611	(1.9%)	931
		(2.6%)	931	가(1.3%)	312
		(1.9%)	513	(-0.4%)	714
		(0.8%)	714	(-0.7%)	721
		(0.8%)	721	(-1.3%)	832
		(-1.1%)	832	(-1.6%)	513
		(-11.5%)	212	가(-12.8%)	246
				(-34.9%)	212

: < IV-9>

2)

1/2

가

1/2

1/2

11.9%

<

IV-2>

6%

6%

. < IV-18>

, < IV-6>

가

(KSCO) 3

(244) 5.9%,

가(214) 5.6%,

(513) 5.4%,

(772) 5.0%,

가 ,

1/2 6%

前目

가

,

가

< IV - 18 > ,

1/2

(1996)

(5.9%)	347	(6.0%)	723	(4.5%)	611
가(5.6%)	214	(5.4%)	724	(4.1%)	743
(5.4%)	513	(5.2%)	522	(3.7%)	612
(5.3%)	723	(5.1%)	743	(3.6%)	311
(5.0%)	722	(5.0%)	414	(3.5%)	722
(4.9%)	315	(4.7%)	834	(2.7%)	834
(4.8%)	131	(4.7%)	311	(2.2%)	322
(4.7%)	411	(4.3%)	722	(1.9%)	931
(4.7%)	412	(3.5%)	612	가(1.3%)	312
가(4.6%)	312	(3.1%)	322	(-0.4%)	714
(4.5%)	724	가(3.0%)	312	(-0.7%)	721
(4.2%)	522	(2.8%)	611	(-1.3%)	832
(4.0%)	322	(2.6%)	931	(-1.6%)	513
(3.7%)	414	(1.9%)	513	가(-12.8%)	246
(3.6%)	711	(0.8%)	714	(-34.9%)	212
(3.2%)	931	(0.8%)	721		
(3.2%)	612	(-1.1%)	832		
(2.9%)	311	(-11.5%)	212		
(2.2%)	721				
(1.9%)	714				
(1.1%)	611				
가(0.5%)	213				
(-0.9%)	832				
(-16.0%)	244				

: < IV - 9 >

7. 가 , 가 ,

가. 가

< IV - 19 > 가 가

가
 , ,
 . 가
 가가 가 (181)
 “ 가 ”
 , 가
 가
 가
 가 (192) 가
 가
 가 (293) 가 가
 . 가 가
 가 가
 가
 가
 가 , 가 ,

, 가

(312)

, ,
,

(331)

가 가

가

가

가

(332)

가가 가

가

, ,

, ,

(KSIC 659)

가 IMF

가

가

(N.E.C.)

가

(KSIC 713)

가

,)

, 가 가

, , , , , .

(101)

3D

가

< IV - 20 >

가 가

industries) (intra industries) (between
가가

< IV - 20 > 가 가(212)

가 가 , 가, 가, ,

R&D ,
R&D 가 가 가 .
가(223) 가
가 가 .
(232)

가가 .
가(244) 가

가
가, 가, 가, , ,

가 가(245) 가 가
가
가, , , 가, ,
가 가 가가
가 가 가 가
가, 가, 가, , 가, , 가,
, 가, 가, 가, 가, 가, 가, 가,
가, , , , , ,
가, 가 , 가, 가, 가,
가 (KSCO 347)
가 , 가, ,
, 가, 가, , ,
, , , , , 가 , ,
, , , , ,
, , , , , 가
, , ‘ 가 ’
가
(KSCO 511) ,
, , , , ,
, , , , 가 가
, 가 가(KSCO 732)
가 (741),
(823) 가 (826)

가 가 . 가

< IV - 13>

(734),

(834)

< IV - 14>

KSCO 213)

가,

(516)가

(123),

가

가

가

가, ,

가

가,

(, , , , , , , ,) , (, ,

) (, ,) (, ,

, , , ,) , 가,

(, , , ,) ,

가 (destruction job)

가 가

가

< IV-21>

가

가

가

가

< IV-21>

(KSCO 311)

가

가

가

(

가

가

(315)

가

() 가,

가

가

가

가

가 가

가 (322)

가

가

가

가

(414)

가

가가 가

가

(422)

, , , ,
.

가

(513)

, , , 가

(522)

, , ,

(611)

(612)

가

가

가

(711)

, , , , , , , ,

가

(714)

, , , , ,

(721)

, , , 가
,33)

(743)

, ,

33) < IV-21> .

, , , , , ,
, , , , , ,
가가
, ,

(832)

(834)

가

(931)

가

832.	() 가 () ()
834.	()
931.	()

8.

가.

8.9%, 12.5%, 16.2%
 < IV - 9 >
 1986 8.8%
 1986 1.4%p
 가가
 가 가 가
 가
 가

< IV - 19 > 가 가

가

가가

, R&D

가

가

가

가

가

< IV - 20 >

가 가

産業內(intra industries), 産業間(between industries)

가가

가,

가

가,

가,

가

R&D

가

< IV - 21 >

가

가 . 가 ,
가 가 .(412)
가
. (315:)
가 .
()

V.

1.

1980

), ()

/ / / , / (34).

가

가

500 가 406

34)

(81.2%), 가 94 (18.8%) . 20 9.2%, 20
 38.2%, 30 29.0%, 30 16%, 40 7.6%
 . 228 (45.6%), 245 (49%),
 25 (5.0%), 가 2 (0.4%) 가

가.

500 / / /
 가 40%, / 가 21%, 39% . / / /
 130 41.5%, 354
 38.4%, 16 62.5% , /
 18.5%, 22.3%, 12.5% .
 40%, 39.3%, 25%
 . 228
 / / / 가 53.9%, / 가 29.8%
 가 가 16.2% .
 245 / / / 가 29.4%, / 가 13.1%,
 57.6%
 가 . 가
 가 (57.6%)
 가

가
가

가

< -1> .

		/ / /	/	
	500	40.0	21.0	39.0
	130	41.5	18.5	40.0
	354	38.4	22.3	39.3
	16	62.5	12.5	25.0
/	228	53.9	29.8	16.2
	245	29.4	13.1	57.6
	25	12.0	20.0	57.6

가

가 .

500
32.8%,
25.4% .
가

41.8%,
(< II-50 > .)

가 , , 가

< -2>

(1)

	500	15.6	17.2	41.8	25.4
	406	13.5	16.5	41.9	28.1
	94	24.5	20.2	41.5	13.8
	130	16.9	20.0	43.8	19.2
	354	15.3	16.1	41.8	26.8
	16	12.5	18.8	25.0	43.8
/	228	15.8	17.5	49.1	17.5
	25	24.0	32.0	36.0	8.0
	245	13.9	15.5	35.9	34.7
	2	100	-	-	-
	154	21.4	18.8	39.0	20.8
/	82	9.8	12.2	54.9	23.2
/	246	14.0	17.8	39.4	28.8
10 99	260	19.6	15.8	38.5	26.2
100 499	184	12.0	19.0	41.8	27.2
500	56	8.9	17.9	57.1	16.1
20	46	23.9	23.9	39.1	13.0
20	191	15.7	17.3	36.6	30.4
30	145	11.0	13.8	51.0	24.1
30	80	16.3	17.5	40.0	26.3
40	38	21.1	21.1	39.5	18.4

194 43.8%,
 12.8% 가 가

가 .

< -3>

(7)

	194	46.9	28.9	14.9	1.5	7.7
	20	10.0	50.0	35.0	0	5.0
	219	12.8	5.9	74.0	0.5	6.8

: 가 .

가

가

- 가
OJT

가

65.1% 가 ,

19.8% .

12.6%

가

31.5%

17.7% ,

가

가

11.3% .

가

56.3%

18.8%

< -4>

(7)

	500	12.6	19.8	65.4	1.4	0.8
	406	9.9	18.5	69.7	1.7	0.2
	94	24.5	25.5	46.8	0	3.2
	130	17.7	48.5	31.5	0	2.3
	354	11.3	9.3	78.2	0.8	0.3
	16	0	18.8	56.3	25.0	0
/	228	14.5	11.8	72.8	0.4	0.4
	25	20.0	8.0	72.0	0	0
	245	9.8	28.6	58.4	2.4	0.8
	2	50.0	0	0	0	50.0

가

가

146
 52.7% , (26.7%)
 (11.6%) 가

가 13.7%

36).

< -5> (3-3)

	146	26.7	11.6	52.7	8.9
	122	29.5	13.1	50.0	7.4
	24	12.5	4.2	66.7	16.7
	51	13.7	13.7	62.7	9.8
	93	33.3	10.8	47.3	8.6
	2	50.0	0	50.0	0
/	33	12.1	9.1	57.6	21.2
	5	20.0	0	60.0	20.0
	107	31.8	13.7	50.5	4.7
	1	0	0	100	0
	36	38.9	8.3	47.2	5.6
/	31	9.7	16.1	64.5	9.7
/	79	27.8	11.4	50.6	10.1

가

36)

500 40.6% , 가
 130 50.8% , 354 37.0%
 228 24.6% ,
 245 55.5%

가 .

37).

500

가 (37.6%)가

(39.8%)

가 (4) .

(188)

66.5% ,

(5) .

125

56% ,

21.6% ,

16.8% ,

4.0% (5-1) .

가

63

46% ,

39.7%

(5-2) .

37)

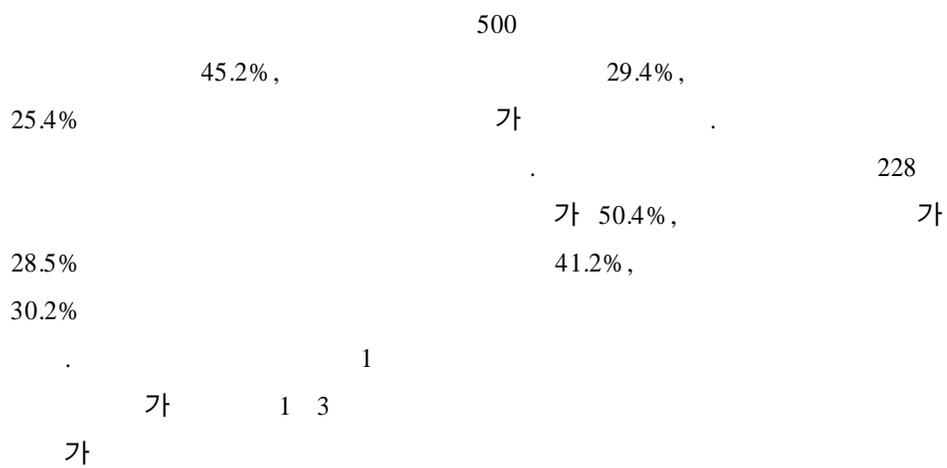
146

65.1% ,

19.2%

/

가



228

가

가

가

가

가

< -6>

(16)

	500	45.2	29.4	25.4
	406	44.8	30.5	24.6
	94	46.8	24.5	28.7
	130	44.6	26.2	29.2
	354	46.0	30.8	23.2
	16	31.3	25.0	43.8
	154	42.9	29.2	27.9
/	82	45.1	28.0	26.8
/	264	46.6	29.9	23.5
1	63	50.8	28.6	20.6
1 3	204	48.5	27.9	23.5
3 5	100	39.0	30.0	31.0
5	133	42.1	31.6	26.3

가

가

500 63.2%가

38),

38)

가

500

30.8%가

(21.1%),

가

(9.8%)

(23.9%),

가

< -7> (18)

	500	24.0	39.2	34.6	2.2
	406	23.4	37.9	36.5	2.2
	94	26.6	44.7	26.6	2.1
	130	15.4	44.6	38.5	1.5
	354	26.3	38.1	33.1	2.5
	16	43.8	18.8	37.5	0

가
가
가
1
500 73.8%
25.2% (14).
가
131 49.6% ,
34.4% , 16%
가
(9).

가

가

가

.
33

33.3%,

92

55.4%

36.4%,

32.6%

30.3%,

12.0%

.
58

37.9%,

60.0%

48.3%,

22.9%

13.8%,

17.1%

/

/

/

가 가

가 가

1

가

가

가

가

가 .

< -8>

(15)

	131	49.6	34.4	16.0
	104	52.9	31.7	15.4
	27	37.0	44.4	18.5
	33	33.3	36.4	30.3
	92	55.4	32.6	12.0
	6	50.0	50.0	0.0
/	58	37.9	48.3	13.8
	70	60.0	22.9	17.1
	48	43.8	35.4	20.8
/	20	60.0	20.0	20.0
/	63	50.8	38.1	11.1
/ / /	51	37.3	45.1	17.6
	22	27.3	54.5	18.2
/	58	69.0	18.2	13.8
1	16	31.3	56.3	12.5
1 3	55	61.8	27.3	10.9
3 5	29	51.7	31.0	17.2
5	31	35.5	38.7	25.8

2.

가.

가가

가가

가

2

가

가

가

가

가

가

(school to work)가

1

가

가

가

가

30

가 가

가

3.

가.

가

가

가

1997 12 가
 가 1988 10 2% 1998 8
 7.4% 가
 가 (discouraged worker effect) 15
 가 가 가 1998 8
 1.9% 가
 1998 8 1,444
 가
 가 , 가
 8 가 9.9%, 가 1.9%
 가 가 ,
 2 가 가 가
 (hidden unemployment)

(employability)

1998

가

IMF

가 21

가

가 가

가 가 .

가 , 가

.

가 가

가 가 .

가 가

가 , 가

가 가

가 .

(skill mismatch) .

OECD

가 .

1980

가 ,

가

가

.

1)

가 , 1 3
가 , , ,
가 , ,
가 , 3 2010 70%
, 1990
3

1990

2010

가

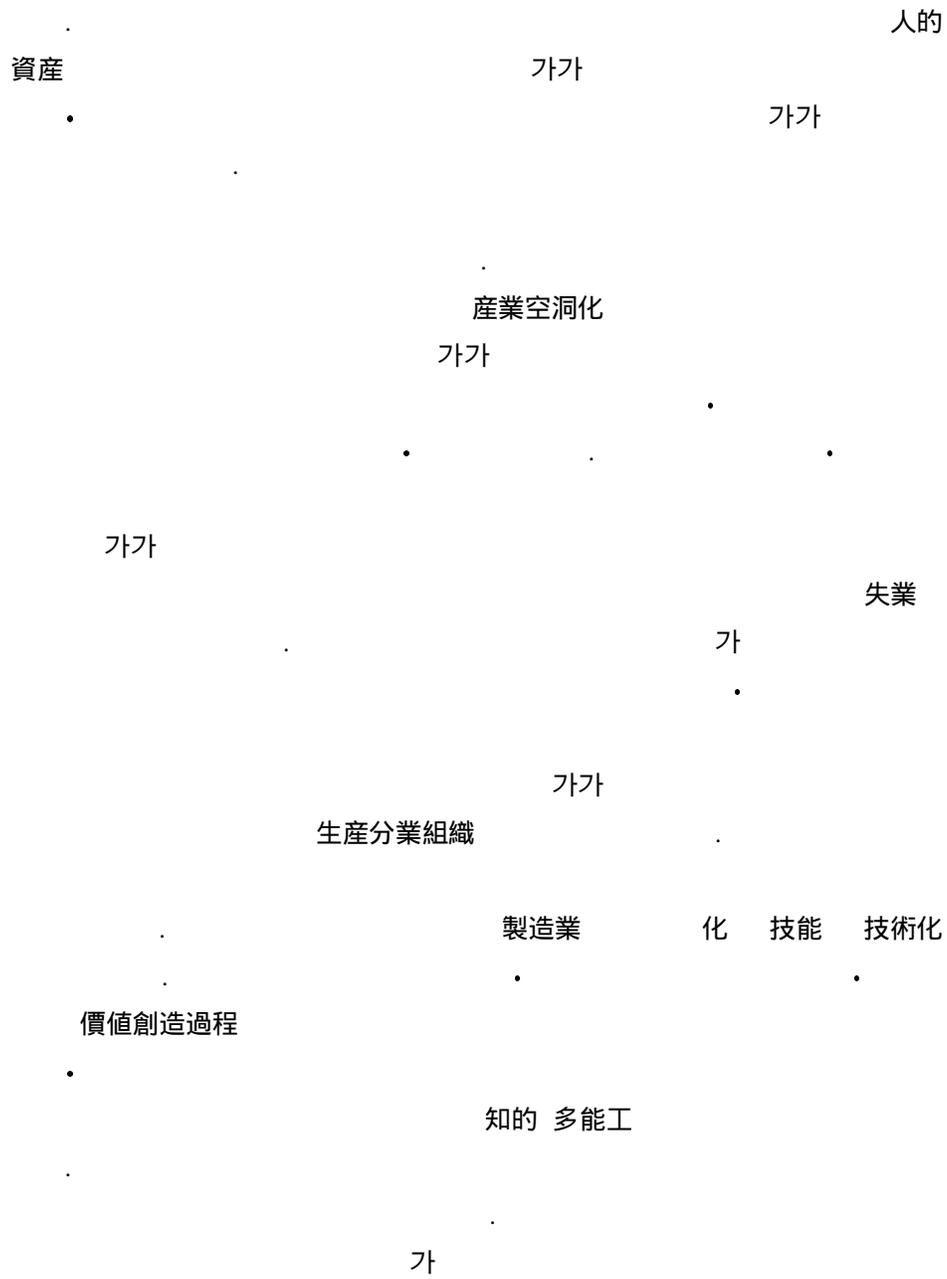
가

2)

가

가

勞動市場 構造變化



가가

가

가

가

가

가

3)

가

가

1)

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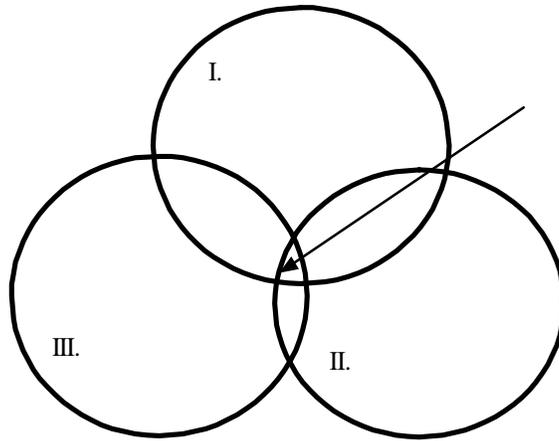
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- Adams, Arvil V, Robert Goldfrab, And Terence Kelly(1992). How the macroeconomic environment affects human resource development, *Education and employment working paper 828*, Population and human resource department , The World Bank, Washington Dc, 29, pp.
- Adams, Arvil Van, John Middleton and Adrian Ziderman(1992). Manpower planning in a market economy with labor market signals, *policy research working paper education and employment*. The World Bank.
- Adams, Avril V, John Middleton, and Adrian Ziderman(1992). Market based manpower planning with labour market signals, *International labour review*, vol. 131, no. 3, pp. 261-279, and working paper by the same title, January
- Amjad, Rashid.(1987). Human resource planning: the asian experience. ARTEP. ILO. Asian Employment Program, New Delhi: *International labor office*.
- Applebaum and Schettkat(1990). *Labour market adjustments to structural changes and technological progress*, Praeger Publishers, London.
- Adams Arvil Van, John Middleton and Adrian Ziderman(1992). Manpower planning in a market economy with labor market signals, *policy research working paper education and employment*, The World Bank.
- Benhabib, Jess and Mark W. Spiegel(1993). The role of human capital in economic development: evidence from aggregate cross county and regional U.S.data, *Working paper of January 15, 1993, department of economics*, New York University, NY,52 pp.

- Boyer, R(1989). New directions in management practices and work organization. *Paper presented at the OECD conference technological change as a social process*, Helsinki.
- Clifton P Campbell(1997). Labour market signalling approaches, *European industrial training*. No.8-9.
- Dent, Jr Harry S, Job Shock(1995). *Four new principles transforming our work and business*, St. Martin's Press.
- Eliasson, G, and P. Ryan(1987). The human factor in technological and economic change *OECD/ CERI*, Paris.
- Freeman, Ch, Soete, L. and Efendioglu, U.(1995). : Diffusion and the employment effects of information and communication technology, in: *International labour review* vol. 134 No. 6.
- Freeman, R.B(1980). An empirical analysis of the fixed coefficient manpower requirements model: 1960-1970, *Journal of human resources*, Vol, XV, no, 2.
- Frenkel, St, M. Korczynski, L. Donoghue and K. Shire (1993). Re-constituting work : trends towards knowledge work and info-normative control, in: *Work, employment and society*, vol. 9, No 4.
- Gill, C, H. Krieger and D. Froehlich(1992). The Employment Impact of New Technology: Recent European Eviddence, *Journal of general mangement*, vol 18, no. 2.
- George T. Silvestri(1997). Employment Outlook 1996-2006, Occupational employment projections to 2006 in *Monthly labor review*, November, pp.77 78.
- Hammer, Michael and James Champy(1993). *Reengineering the corporation*, New York
- Hammermesh, Daniel D(1986). The Demand for Labor in The Long Run, Chapter 8 In Orley C. Ashenfelter and Richard Layard, eds,

- Handbook of labor economics*, Vol. 1, New York, North-Holland.
- Hincliffe , K.(1987). *Forecasting manpower requirement*, In G. Psacharopoulos, Ed, *economics of education, research and studies*, pergamon Press, Oxford , pp.315-323.
- Hollister, R.(1965). A technical evaluation of the first stage of the mediterranean regional project, *OECD*, Paris.
- Howell, D. R, and E.N. Wolff(1992). Technical change and demand for skills by U.S. industries, *Cambridge Journal of economics*, vol. 16 academic Press Limited.
- Institut fuer Arbeitsmarkt - und Berufsforschung der Bundesanstalt fuer Arbeit(1992). *Arbeitslandschaft bis 2010*.
- Jang, Chang-Won(1995). *Endogenous growth: contributions of education to economic development in korea and policy implications*, PH.D, Dissertation, University of Illinois at Urbana-Champaign.
- Jang, Chang,-Won,(1994). Contributions of secondary education to economic development in korea , *background paper for the world bank*, June.
- John E. Bregger & Steven E. Haugen(1995). BLS Introduces new range of alternative unemployment measures, *Monthly labor review*, Oct.
- Jung, jin hwa(1990). Human capital economic growth and income distribution: korea and the united states, *PH.D, Dissertation, paper, University of Illinois, Urbana, Illinois*
- Katharine G .Abraham Commissioner(1997). BLS Handbook of methods, *US Department of labor*, April.
- Kim, Kwang-Suk(1968). *Rate of return in education in korea*, USAID / KOREA.
- Kautonen, M, P. Roponen, and Gerd Schienstock(1997). What overall qualifications will be needed in future? (<http://www.regfi/epere/>)

- Koji Taira(1994). *Capitalism and modes of production : Craftsmanship, Mass and lean production, and beyond*, University of Illinois, H-KT, 6-59.
- Mankiw, N. Gregory, David Romer, and David Weil(1990). A contribution to the empirics of economic growth,. *Working paper of december, 1990, Harvard, Economics Dept*, cambridge, 47.,pp
- McMahon, Walter W, Rony Bishry, and Moegiadi(1992). *Techonology and human capital formation: implications for indonesia's 25 year education goals*, Ch.5. in Boediono, MaMahon, and Adams, Education, Economics and Social Development, MOEC, Jakarta, and EPP / IEES, Florida State University, Tallahassee, pp. 29-58.
- McMahon, Walter W, Boediono, and Abas Gozali(1991). Signals and labor market analysis: a new view of manpower supplies and demand, *Faculty Working paper 91-0140 BEBR*, University of Illinois at Urbana-Champaign.
- McMahon, Walter W.(1995). Expected rates of return to education, in *psacharopoulos(1987, pp.187-96)*, and in the *International encyclopedia of education*, 1985.
- McMahon Walter W. (1994). *Market signal and market analysis*, ILO annual meeting addressing paper.
- McMahon, Walter W(1995). *Market signal and labor market analysis*, University of Illinois at Urbana-Champaign.
- Millard, Stephen P, and Dale T.Mortensen(1994). The unemployment and welfare effect of labor Market policies: A case for a hiring subsidy , *Northwestern university working paper*.
- Miller, R.(1996). Measuring what people know: human capital accounting for the knowledge economy, *OECD*.
- Mincer, Jacob(1974). *Schooling, Experience, and earning*, NBER, New York.

- Mincer, Jacob(1984). Human capital and economic growth , *Economics of education review*, Vol, 3, No,3 pp.195-205.
- Murphy, Kevin M, Shleifer, Andrei, and Vishny, Robert W.(1991). "Income distribution, market size, and industrialization, *Quarterly journal of economics*, Vol. 104, No.3, pp.537-564.
- Oppenländer et al(1994). (Hrsg.): Beschäftigung und wirtschaftliche dynamik in europa, materialien zu wirtschaft und gesellschaft.
- Oppenländer(1994). H.-K. Wirtschaftswachstum, beschäftigung und arbeitslosigkeit - theoretische und empirische zusammenhänge, in: K.H.
- Park, Se-II(1983). Analyses of rate of return to educational investment in korea, *Korea development review*, KDI.
- Psacharopoulos, George(1984). Assessing training priorities in developing countries: current practice and possible alternatives, *International labour review*, NO5. PP.569-583.
- Psacharopoulos, George(1991). From manpower planning to labour market Analysis, *International labour review*, Vol. 130, NO. 4. pp. 459-474.
- Reich, Robert B(1992). *The work of nations: preparing ourselves for 21st century capitalism*, Vitage Books, NY.
- Richter, Lothar(1984). Manpower planning in developing countries: changing approaches and emphases, *International labour review*, 123(6), pp.672-692.
- Romer, Paul M(1990). Endogenous technological change, *Journal of political economy*, Vol. 98, No.5, pp.71-102.
- Schienstock(1997), Work, work organization, labor market and employment policy, The content of regional employment policies, employment policies in european Regions (EPERE). (<http://www.regfi/epere/>)
- Smith, K.(1995). Interactions in knowledge systems: foundations, policy implications and empirical methods, *STI Review*, No.16, OECD,

Paris.

- Stone, R. and C.S. Leicester(1966). An exercise in projections industrial needs for labor, cambridge, *department of applied Economics*.
- Zuboff, S.(1988) *In the age of the smart machine: the future of work and power*, Basic Books, New York.
- U.S Department of Labor(1996). Bureau of labor statistics, *Occupational projections and training data, bulletin 2471*, January.
- (1992). Outlook 1990-2005, Bulletin 2402, May.
- Bureau of Labor Statistics(BLS)(1986). The impact of technology on labor in four industries, *Bulletin No 2242*.
- OECD(1988). *Employment outlook*
- OECD(1993). *Special issue on microelectronics and advanced manufacturing technologies*. STI Review, NO.12.
- OECD(1994). *The OECD jobs study : Evidence and explanations*.
- OECD(1996). *Technology, productivity and job creation*, The OECD jobs strategy Vol 1 & 2.
- OECD(1996). *The Knowledge-based economy*.
- OECD(1997). *Information technology outlook*.
- OECD(1997). Lifelong learning to maintain employability *Theme 3 of the draft analytical report prepared for the meeting of labour ministers, oct. 14-15*.
- OECD(1997). *Education at a glance: OECD Indicators*.
- OECD(1998). *Employment outlook*.
- OECD(1998). *Human capital investment : An International comparison, center for educational research and innovation*.
- The World Bank(1993). *The east asian miracle: Economic growth and public policy*.
- 労働大臣官房政策調査部 編(1987). 労働力需給の長期展望

日本労働研究機構 編(1997). 「職業 ハンブック」

ABSTRACT

Industrial Manpower Outlook in Korea and Policy Implications

Korea Research Institute for Vocational Education & Training

Research Director : Jang, Chang-Won
Researchers : Yoon, Seok-Chon
Lee, Byung-Hee
Kim, Hyung-Mann
Lee, Sang-Jun

I. Introduction

The central focus of this research paper is to explore the forecasted demand and supply of industrial manpower based on regression methods and market signals in the labor market. The final goal of this report is to give the principal reference of industrial manpower and vocational training policies to the government sector.

1) This study considers the relation of population structure change and economic growth and industrial structure change to the economic activity participated rate in the medium term in Korea (until 2010). This also forecasts the supply of educational industrial manpower in the education market.

2) This report includes, in addition to the forecasting estimation of industrial manpower, demand according to the industrial structural change and the serious shortages, surplus of manpower within industry and occupation.

3) This study focuses on the social rate of return to investment in education, based on the microeconomic earnings data. It specifies a Jacob Mincer earnings function in using the human capital approach which includes education, experience and interaction term. And it estimates industrial, occupational, educational and sexual social rate of return based on the market signal theory.

4) This study suggests three basic directions of manpower policy, implications and issues in detail concerning to the empirical results and study. In this process, empirical results through a questionnaire survey for college level employee, was used for policy issues.

II. Findings and Perspectives

First, nowadays the Korean economy is undergoing economic crisis. Also labor market structures are changing rapidly fast and the unemployment rate is the highest level since industrialization. Therefore, the industrial manpower outlook and manpower policy must be in terms of different the medium term, during which economic depression and restructuring occur and the long-term, during which economies recover and labor markets stabilize.

In the medium term, the labor force rate decreases especially women's economic activity owing to discouragement. Although the IMF system disappears in the latter, it takes 3-4 years to return to the previous labor force level. For example, the male labor force rate is

estimated to recover perfectly in 1999 and the female labor force in 2001.

In the long-term, feminization, aging of the labor force and higher education are important factors in the supply of labor. But job mismatches are broadly due to the speedy higher education process. It is necessary to implement a manpower policy to influence labor market changes.

Second, economic and social environments are changing very fast. Technological changes and globalization influences the labor market structure, firm structure and work organization. Therefore as concerns the employment structure, the service sector and highly skilled sector are increasing. More important, skill requisites are increasing. It is necessary to improve vocational education and training policies to meet demand.

Third, the empirical estimation of rates of return to educational investment in Korea are suggested as labor market signals produced by the monitoring of labor force activity and the movement of wages and employment for workers with specific levels of schooling and in training programs. Single quantified "manpower requirements" planning seeks to be replaced by greater reliance on these labor market signals augmented with measures of unemployment, underemployment, job search time, and tracer studies, all of which also reflect efficiency. Also, the rationalization of the public sector's investment in schooling and training requires the examination of a broad array of labor market imperfections and failures, private training capacity, and structural changes involving strategic skills which require longer periods for acquisition.

III. Policy Implications

1) The key conclusions are that the equalization of manpower demand and supply is of prime importance to policy issues. Statistics show that 'recruiting difficult in a special sector and job searching job difficult in another sector' this will continue to affect the labor market. For this

issues, in the absence of an accurate means of forecasting manpower needs, the expected rates of return etc.(and other related market signals) have to provide a useful and available flow of current market information relevant to achieving greater allocation efficiency. These rates of return, and related market signals therefore, are also useful empirical guides to educational choice which are conducive to individual and national efficiency, hence to the equalization of manpower demand and supply.

2) Second, industrial manpower development in the education market responds to catch up with new technology. In respect to this, the government has to achieve the such followings as increasing the flexible curriculum system, aid school to work transition, increase investment in education and efficiency in R&D and increase facilities available per student etc..

3) Third, the policy and system issues of manpower development are necessary to link the labor market to the education and training markets. For this reason, the right labor market information will be disseminated to the education sector, students and their parents by government agencies so as to increase national equity and efficiency.

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1998	3,951	3,414	4,446	4,157	4,319	3,647	2,619	2,180	2,036	4,765	35,540
1999	3,886	3,341	4,410	4,186	4,297	3,859	2,739	2,268	2,026	4,980	35,995
2000	3,737	3,331	4,314	4,247	4,241	4,025	2,934	2,351	2,008	5,192	36,386
2001	3,540	3,370	4,176	4,324	4,179	4,148	3,158	2,420	2,005	5,410	36,734
2002	3,340	3,421	4,023	4,395	4,131	4,231	3,369	2,484	2,035	5,630	37,062
2003	3,183	3,437	3,887	4,424	4,115	4,262	3,587	2,555	2,103	5,828	37,385
2004	3,096	3,380	3,803	4,388	4,145	4,241	3,798	2,674	2,190	5,998	37,717
2005	3,075	3,250	3,792	4,293	4,207	4,187	3,964	2,867	2,272	6,160	38,068
2006	3,110	3,078	3,837	4,156	4,284	4,128	4,086	3,087	2,339	6,340	38,447
2007	3,187	2,903	3,896	4,003	4,355	4,080	4,169	3,296	2,403	6,552	38,847
2008	3,277	2,766	3,916	3,868	4,384	4,067	4,202	3,512	2,475	6,779	39,243
2009	3,361	2,691	3,851	3,785	4,350	4,097	4,183	3,720	2,592	6,997	39,621
2010	3,427	2,672	3,702	3,774	4,256	4,159	4,131	3,884	2,781	7,199	39,980
2011	3,465	2,704	3,505	3,820	4,121	4,237	4,073	4,006	2,997	7,403	40,324
2012	3,474	2,771	3,305	3,880	3,970	4,309	4,028	4,089	3,201	7,635	40,651
2013	3,469	2,850	3,148	3,900	3,836	4,339	4,016	4,122	3,413	7,885	40,965
2014	3,459	2,924	3,061	3,835	3,754	4,306	4,047	4,105	3,617	8,171	41,265
2015	3,444	2,982	3,041	3,686	3,744	4,214	4,110	4,056	3,779	8,509	41,551
2016	3,420	3,016	3,077	3,490	3,790	4,080	4,189	4,001	3,900	8,874	41,823
2017	3,389	3,023	3,155	3,290	3,850	3,931	4,261	3,958	3,983	9,253	42,079
2018	3,351	3,019	3,245	3,133	3,871	3,799	4,291	3,948	4,017	9,657	42,317
2019	3,308	3,011	3,331	3,047	3,807	3,719	4,259	3,980	4,002	10,086	42,536
2020	3,265	2,998	3,398	3,026	3,659	3,710	4,169	4,044	3,955	10,524	42,736

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1998	2,004	1,501	2,267	2,128	2,208	1,855	1,324	1,092	995	1,950	17,324
1999	1,973	1,469	2,249	2,142	2,196	1,962	1,385	1,136	993	2,053	17,557
2000	1,900	1,464	2,200	2,174	2,166	2,047	1,484	1,177	987	2,155	17,754
2001	1,803	1,481	2,131	2,213	2,134	2,110	1,596	1,210	988	2,261	17,927
2002	1,705	1,503	2,054	2,248	2,109	2,152	1,702	1,242	1,004	2,369	18,089
2003	1,630	1,510	1,985	2,262	2,102	2,168	1,813	1,278	1,038	2,467	18,252
2004	1,591	1,487	1,942	2,243	2,117	2,157	1,919	1,338	1,081	2,553	18,428
2005	1,587	1,432	1,936	2,196	2,149	2,128	2,004	1,436	1,121	2,634	18,621
2006	1,612	1,359	1,958	2,126	2,188	2,098	2,067	1,546	1,154	2,724	18,832
2007	1,659	1,284	1,988	2,049	2,223	2,074	2,109	1,650	1,186	2,831	19,055
2008	1,712	1,227	1,999	1,981	2,237	2,068	2,126	1,759	1,222	2,944	19,275
2009	1,761	1,198	1,968	1,939	2,220	2,084	2,116	1,864	1,281	3,052	19,482
2010	1,797	1,195	1,894	1,933	2,173	2,116	2,089	1,947	1,375	3,153	19,674
2011	1,818	1,214	1,797	1,956	2,105	2,156	2,060	2,010	1,483	3,255	19,854
2012	1,821	1,250	1,699	1,986	2,029	2,192	2,038	2,052	1,584	3,370	20,023
2013	1,817	1,291	1,623	1,997	1,962	2,207	2,033	2,070	1,690	3,495	20,183
2014	1,807	1,327	1,584	1,966	1,921	2,190	2,050	2,061	1,792	3,636	20,337
2015	1,796	1,356	1,580	1,893	1,916	2,145	2,083	2,037	1,875	3,803	20,483
2016	1,781	1,371	1,606	1,796	1,939	2,078	2,123	2,010	1,937	3,983	20,625
2017	1,762	1,374	1,654	1,697	1,970	2,004	2,160	1,990	1,979	4,168	20,759
2018	1,740	1,370	1,709	1,621	1,981	1,939	2,175	1,986	1,998	4,366	20,884
2019	1,715	1,364	1,758	1,583	1,951	1,898	2,160	2,004	1,991	4,576	20,999
2020	1,689	1,356	1,796	1,579	1,878	1,894	2,116	2,037	1,969	4,790	21,104

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	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	
1998	1,945	1,918	2,178	2,029	2,111	1,793	1,295	1,088	1,041	2,815	18,215
1999	1,913	1,876	2,161	2,043	2,101	1,897	1,354	1,132	1,033	2,927	18,437
2000	1,836	1,872	2,113	2,073	2,075	1,978	1,451	1,174	1,021	3,037	18,631
2001	1,736	1,894	2,045	2,111	2,046	2,038	1,562	1,209	1,017	3,149	18,807
2002	1,634	1,924	1,967	2,147	2,022	2,079	1,667	1,241	1,031	3,260	18,973
2003	1,552	1,933	1,901	2,162	2,014	2,094	1,775	1,277	1,065	3,360	19,133
2004	1,504	1,899	1,860	2,145	2,028	2,085	1,879	1,336	1,109	3,445	19,289
2005	1,487	1,823	1,856	2,097	2,058	2,059	1,960	1,432	1,151	3,526	19,447
2006	1,497	1,723	1,878	2,029	2,096	2,030	2,020	1,542	1,185	3,615	19,615
2007	1,526	1,621	1,908	1,954	2,132	2,007	2,060	1,646	1,217	3,722	19,792
2008	1,562	1,539	1,917	1,887	2,147	1,999	2,076	1,753	1,253	3,835	19,968
2009	1,598	1,491	1,883	1,846	2,130	2,013	2,067	1,856	1,311	3,944	20,139
2010	1,628	1,474	1,807	1,841	2,083	2,043	2,042	1,937	1,406	4,045	20,306
2011	1,645	1,485	1,707	1,864	2,015	2,082	2,013	1,996	1,514	4,148	20,469
2012	1,650	1,514	1,606	1,893	1,940	2,117	1,990	2,037	1,617	4,264	20,628
2013	1,651	1,550	1,524	1,902	1,873	2,132	1,983	2,053	1,723	4,390	20,781
2014	1,649	1,586	1,476	1,869	1,833	2,116	1,997	2,044	1,825	4,534	20,928
2015	1,646	1,615	1,459	1,793	1,828	2,069	2,027	2,019	1,904	4,705	21,067
2016	1,637	1,633	1,470	1,694	1,851	2,002	2,065	1,991	1,963	4,891	21,198
2017	1,625	1,638	1,499	1,593	1,881	1,927	2,101	1,968	2,003	5,085	21,320
2018	1,610	1,638	1,535	1,512	1,890	1,861	2,116	1,962	2,019	5,291	21,433
2019	1,592	1,637	1,571	1,464	1,856	1,820	2,100	1,976	2,010	5,510	21,537
2020	1,574	1,633	1,601	1,447	1,781	1,816	2,054	2,006	1,986	5,734	21,633

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1963	56.6	78.4	37.0
1964	55.7	77.6	36.0
1965	57.0	78.9	37.2
1966	56.9	78.9	37.0
1967	56.9	78.5	37.5
1968	58.0	79.0	39.1
1969	57.8	79.6	38.3
1970	57.6	77.9	39.3
1971	57.4	77.2	39.5
1972	57.7	77.5	39.6
1973	58.4	76.8	41.5
1974	58.9	77.7	41.5
1975	58.3	77.4	40.4
1976	59.7	77.4	43.2
1977	59.4	78.7	41.7
1978	59.9	77.9	43.3
1979	59.5	76.9	43.3
1980	59.0	76.4	42.8
1981	58.5	75.8	42.3
1982	58.6	75.0	43.4
1983	57.7	73.7	42.8
1984	55.8	72.1	40.7
1985	56.6	72.3	41.9
1986	57.1	72.1	43.1
1987	58.3	72.5	45.0
1988	58.5	72.9	45.0
1989	59.6	73.4	46.6
1990	60.0	74.0	47.0
1991	60.6	74.9	47.3
1992	60.9	75.5	47.3
1993	61.1	76.0	47.2
1994	61.7	76.4	47.9
1995	62.0	76.5	48.3
1996	62.0	76.1	48.7
1997	62.2	75.6	49.5

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		15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60
1980	76.4	27.3	76.5	95.0	97.6	97.3	96.1	94.4	90.5	80.0	45.2
1981	75.8	23.9	74.6	94.3	97.8	97.3	96.4	94.8	89.8	80.5	46.8
1982	75.0	22.4	73.2	93.8	97.5	96.9	95.6	94.4	89.8	81.0	44.0
1983	73.7	18.2	68.2	92.2	96.9	96.6	95.1	93.7	89.8	78.4	43.0
1984	72.1	15.5	64.7	90.9	96.4	96.3	95.0	93.0	87.8	77.3	42.5
1985	72.3	14.5	63.3	90.8	96.4	96.5	94.9	93.3	88.1	77.3	44.2
1986	72.1	13.6	62.1	90.2	96.7	96.5	95.5	92.7	88.7	75.9	44.7
1987	72.5	14.0	60.6	89.8	96.0	96.1	95.3	92.7	88.2	77.6	47.0
1988	72.9	11.4	59.6	89.8	96.6	96.6	95.7	93.2	89.2	79.6	48.0
1989	73.4	11.7	60.2	90.8	97.1	97.0	95.2	93.6	89.6	82.4	49.1
1990	74.0	10.8	60.2	91.9	97.2	97.0	95.7	94.2	90.6	83.6	49.9
1991	74.9	11.1	59.9	92.1	97.0	97.3	96.3	94.6	91.3	84.9	50.8
1992	75.5	11.7	58.2	91.3	97.0	97.1	96.8	94.9	91.6	84.9	53.3
1993	76.0	10.5	56.5	90.7	97.2	97.0	96.6	94.8	91.4	84.8	52.3
1994	76.4	10.4	58.3	90.2	97.2	96.6	96.5	95.1	91.5	84.4	53.8
1995	76.5	9.3	58.0	89.6	97.1	96.9	96.6	95.3	91.3	83.9	54.2
1996	76.1	8.7	58.2	88.5	97.0	96.8	96.8	95.3	91.7	83.7	54.5
1997	75.6	8.6	56.9	88.1	96.8	96.9	96.2	94.7	91.2	84.8	54.7

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		15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60
1980	42.8	34.4	53.5	32.0	40.8	53.1	56.7	57.3	53.9	46.2	16.9
1981	42.3	29.4	53.0	31.7	41.0	51.7	58.4	58.4	55.1	47.2	17.9
1982	43.4	28.0	54.3	33.6	42.7	53.8	61.3	60.8	55.2	49.5	18.3
1983	42.8	26.2	54.1	32.5	44.4	52.8	60.8	60.3	55.5	48.1	18.1
1984	40.7	22.2	52.6	33.4	42.2	51.3	56.4	57.1	51.9	45.2	18.1
1985	41.9	21.1	55.1	35.9	43.6	52.9	58.2	59.2	52.4	47.2	19.2
1986	43.1	20.2	58.2	37.0	45.9	54.2	59.3	60.2	54.2	46.9	21.4
1987	45.0	21.1	60.1	40.0	47.1	58.0	60.3	62.1	56.8	49.1	23.5
1988	45.0	19.2	61.4	40.5	47.9	57.0	60.2	62.7	58.0	49.6	23.2
1989	46.6	18.7	63.6	42.9	49.6	57.4	61.1	63.6	60.6	52.8	25.8
1990	47.0	18.7	64.6	42.6	49.5	57.9	60.7	63.9	60.0	54.4	26.4
1991	47.3	18.9	65.9	42.7	49.4	58.9	60.5	62.0	60.1	54.4	26.6
1992	47.3	17.4	65.4	44.1	47.7	57.8	60.4	61.1	60.9	54.1	27.8
1993	47.2	16.7	64.5	44.5	47.4	59.3	62.8	60.9	57.6	53.4	26.7
1994	47.9	15.6	64.7	45.6	48.6	59.6	64.2	61.1	58.7	53.9	27.9
1995	48.3	14.6	66.1	47.8	47.5	59.2	66.0	61.1	58.3	54.2	28.9
1996	48.7	13.6	66.0	51.1	49.1	60.1	65.6	62.2	57.2	53.3	29.2
1997	49.5	13.0	66.4	54.1	50.9	60.5	67.0	62.2	58.0	53.8	30.1

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	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60	
1998	11.0	58.6	69.8	72.3	77.6	79.6	77.8	73.6	65.5	37.5	60.7
1999	10.0	58.7	70.2	72.5	77.7	79.8	77.8	73.7	65.8	38.3	61.0
2000	9.1	59.2	70.9	73.4	78.8	80.7	78.4	74.6	67.7	39.0	61.9
2001	8.4	59.2	71.6	74.0	79.3	81.3	78.9	75.2	68.7	39.6	62.6
2002	7.8	59.0	72.1	74.4	79.6	81.7	79.2	75.5	69.3	40.2	63.2
2003	7.3	58.8	72.7	74.7	79.9	82.0	79.5	75.8	69.8	40.7	63.7
2004	6.9	58.6	73.2	75.0	80.1	82.3	79.7	76.0	70.1	41.2	64.0
2005	6.6	58.4	73.7	75.2	80.3	82.5	79.9	76.2	70.4	41.6	64.3
2006	6.3	57.9	74.1	75.4	80.5	82.8	80.1	76.4	70.7	42.0	64.4
2007	6.1	57.7	74.6	75.6	80.7	83.0	80.3	76.5	70.9	42.5	64.5
2008	5.8	57.5	75.0	75.7	80.9	83.2	80.5	76.7	71.2	42.9	64.5
2009	5.7	57.3	75.5	75.9	81.0	83.4	80.6	76.8	71.4	43.3	64.5
2010	5.5	57.1	75.9	76.0	81.2	83.6	80.7	77.0	71.6	43.7	64.5

< II-8>

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	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60	
1998	9.3	54.5	87.4	96.4	96.1	95.4	94.1	92.1	81.4	52.0	75.1
1999	8.3	54.3	87.3	96.4	96.1	95.4	94.1	92.2	81.6	52.4	75.2
2000	7.6	52.4	87.5	96.5	96.4	95.8	94.4	91.6	82.3	53.0	75.6
2001	6.9	50.6	87.5	96.6	96.6	96.1	94.6	91.4	82.8	53.5	75.9
2002	6.3	48.9	87.5	96.7	96.7	96.2	94.7	91.3	83.2	54.0	76.2
2003	5.8	47.3	87.4	96.7	96.8	96.3	94.9	91.2	83.5	54.4	76.4
2004	5.3	45.8	87.3	96.7	96.9	96.4	95.0	91.3	83.7	54.7	76.5
2005	4.9	44.3	87.2	96.7	96.9	96.5	95.0	91.3	83.9	55.1	76.6
2006	4.5	42.4	87.0	96.7	97.0	96.5	95.1	91.3	84.1	55.4	76.5
2007	4.2	41.2	86.8	96.7	97.0	96.5	95.2	91.4	84.2	55.7	76.4
2008	3.9	40.0	86.6	96.7	97.0	96.6	95.2	91.4	84.3	56.0	76.2
2009	3.7	38.9	86.4	96.7	97.0	96.6	95.3	91.5	84.4	56.3	75.9
2010	3.4	37.9	86.2	96.7	97.0	96.6	95.3	91.5	84.5	56.6	75.7

< II-9>

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	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60	
1998	12.7	61.7	51.6	47.1	58.2	63.3	61.1	55.0	50.3	27.4	47.0
1999	11.8	62.1	52.4	47.4	58.5	63.6	61.2	55.2	50.6	28.3	47.4
2000	10.8	64.4	53.7	49.2	60.5	65.0	62.1	57.6	53.6	29.0	48.9
2001	10.0	65.8	54.9	50.4	61.3	66.0	62.8	59.0	55.0	29.6	49.9
2002	9.4	66.8	56.1	51.1	61.8	66.6	63.3	59.8	55.8	30.2	50.8
2003	9.0	67.7	57.3	51.7	62.2	67.2	63.8	60.3	56.4	30.6	51.5
2004	8.6	68.5	58.5	52.2	62.6	67.7	64.2	60.7	56.8	31.1	52.0
2005	8.4	69.3	59.6	52.6	63.0	68.1	64.5	61.1	57.2	31.5	52.5
2006	8.2	70.0	60.8	53.0	63.3	68.6	64.8	61.4	57.6	32.0	52.8
2007	8.1	70.7	61.9	53.4	63.7	69.0	65.1	61.6	58.0	32.4	53.1
2008	8.0	71.5	62.9	53.7	64.1	69.4	65.3	61.9	58.3	32.8	53.3
2009	7.9	72.2	64.0	54.1	64.4	69.7	65.5	62.1	58.7	33.2	53.5
2010	7.8	72.9	65.1	54.4	64.7	70.1	65.8	62.4	59.0	33.6	53.7

< II-10>

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	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60	
1998	434	2,002	3,106	3,007	3,351	2,904	2,037	1,604	1,334	1,785	21,563
1999	388	1,962	3,097	3,034	3,339	3,079	2,132	1,672	1,332	1,905	21,941
2000	341	1,973	3,059	3,119	3,344	3,248	2,301	1,755	1,359	2,024	22,524
2001	297	1,996	2,988	3,201	3,316	3,372	2,490	1,819	1,378	2,143	23,000
2002	261	2,020	2,902	3,271	3,289	3,457	2,668	1,876	1,411	2,262	23,417
2003	233	2,022	2,825	3,305	3,288	3,496	2,852	1,937	1,467	2,371	23,796
2004	214	1,981	2,784	3,289	3,320	3,490	3,028	2,033	1,536	2,469	24,144
2005	203	1,897	2,794	3,227	3,378	3,456	3,168	2,185	1,599	2,563	24,470
2006	196	1,783	2,845	3,132	3,449	3,416	3,274	2,358	1,653	2,665	24,771
2007	193	1,676	2,906	3,025	3,514	3,386	3,348	2,522	1,704	2,782	25,056
2008	192	1,591	2,938	2,929	3,545	3,383	3,380	2,693	1,761	2,907	25,319
2009	191	1,542	2,906	2,872	3,525	3,417	3,371	2,858	1,851	3,028	25,560
2010	189	1,527	2,809	2,870	3,457	3,477	3,335	2,990	1,993	3,143	25,790

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	15- 19	20- 24	25- 29	30- 34	35- 39	40- 44	45- 49	50- 54	55- 59	60	
1998	186	818	1,982	2,051	2,122	1,769	1,246	1,006	810	1,014	13,004
1999	163	798	1,964	2,065	2,110	1,873	1,303	1,047	810	1,076	13,210
2000	144	767	1,925	2,098	2,088	1,962	1,400	1,078	813	1,142	13,417
2001	124	749	1,865	2,138	2,062	2,028	1,509	1,106	818	1,210	13,609
2002	108	735	1,797	2,173	2,040	2,072	1,613	1,134	836	1,278	13,785
2003	94	714	1,735	2,187	2,035	2,089	1,719	1,166	867	1,341	13,948
2004	85	680	1,696	2,169	2,051	2,079	1,822	1,221	905	1,397	14,107
2005	78	635	1,687	2,123	2,082	2,053	1,904	1,310	941	1,450	14,265
2006	73	577	1,704	2,056	2,121	2,024	1,966	1,412	970	1,509	14,412
2007	70	529	1,726	1,982	2,156	2,002	2,008	1,508	999	1,577	14,557
2008	67	491	1,731	1,916	2,170	1,997	2,025	1,608	1,030	1,649	14,684
2009	64	466	1,701	1,874	2,153	2,013	2,016	1,705	1,082	1,719	14,794
2010	61	453	1,634	1,868	2,108	2,045	1,992	1,782	1,163	1,785	14,891

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	15- 19	20- 24	25- 29	30- 34	35- 39	40- 44	45- 49	50- 54	55- 59	60	
1998	247	1,183	1,124	956	1,229	1,135	791	598	524	771	8,558
1999	225	1,165	1,133	969	1,228	1,206	829	625	522	829	8,731
2000	197	1,206	1,134	1,021	1,256	1,286	901	677	547	882	9,107
2001	173	1,247	1,123	1,064	1,254	1,344	981	713	559	933	9,391
2002	153	1,285	1,105	1,098	1,249	1,385	1,056	742	576	983	9,633
2003	139	1,308	1,090	1,118	1,253	1,407	1,132	771	600	1,030	9,848
2004	130	1,300	1,088	1,119	1,269	1,411	1,206	811	630	1,072	10,037
2005	125	1,262	1,106	1,104	1,296	1,403	1,264	874	659	1,112	10,205
2006	123	1,206	1,141	1,076	1,328	1,392	1,308	946	683	1,156	10,358
2007	123	1,146	1,180	1,043	1,358	1,384	1,340	1,014	706	1,205	10,500
2008	125	1,100	1,206	1,014	1,375	1,386	1,356	1,085	731	1,257	10,635
2009	126	1,076	1,205	998	1,372	1,404	1,355	1,153	769	1,309	10,767
2010	128	1,074	1,176	1,002	1,349	1,433	1,343	1,208	830	1,358	10,899

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1998	700,370	412,974	287,396	355,188	224,607	130,581	345,182	188,367	156,815
1999	731,211	434,355	296,856	371,218	232,459	138,758	359,993	201,896	158,097
2000	768,469	454,270	314,199	391,211	240,260	150,951	377,258	214,010	163,248
2001	711,589	411,248	300,341	359,782	221,180	138,602	351,807	190,068	161,739
2002	649,436	375,359	274,077	328,768	202,114	126,654	320,667	173,245	147,423
2003	572,601	331,092	241,509	291,780	179,375	112,405	280,821	151,717	129,104
2004	591,453	341,982	249,471	301,235	185,188	116,047	290,218	156,794	133,424
2005	568,202	328,523	239,679	289,195	177,786	111,409	279,007	150,737	128,270
2006	564,257	326,292	237,965	287,854	176,962	110,893	276,402	149,330	127,072
2007	568,485	328,918	239,567	292,448	179,786	112,662	276,036	149,132	126,904
2008	583,222	337,580	245,642	301,843	185,561	116,282	281,379	152,019	129,361
2009	583,522	337,734	245,788	301,740	185,498	116,242	281,782	152,237	129,546
2010	617,563	357,461	260,102	319,671	196,522	123,150	297,892	160,940	136,952

1998	417,236	178,698	4,823	233,715	39,636
1999	404,424	179,079	4,551	220,794	37,462
2000	419,547	187,280	4,722	227,545	38,514
2001	428,269	195,493	4,732	228,044	38,600
2002	447,699	205,364	4,994	237,341	39,974
2003	443,403	190,372	5,210	247,821	41,752
2004	439,704	173,709	5,465	260,529	43,927
2005	399,143	152,997	5,084	241,062	40,566
2006	382,720	158,047	4,636	220,037	37,041
2007	350,066	151,850	4,070	194,146	32,743
2008	355,471	150,739	4,205	200,527	33,814
2009	348,333	151,663	4,042	192,629	32,476
2010	350,789	155,441	4,007	191,341	32,280
1998	213,107	78,063	892	134,152	28,193
1999	206,006	78,249	844	126,914	26,672
2000	210,847	80,176	863	129,808	27,280
2001	214,776	83,795	865	130,117	27,345
2002	222,516	88,308	886	133,322	28,018
2003	221,479	81,213	926	139,339	29,283
2004	222,032	74,213	976	146,844	30,860
2005	201,808	65,863	898	135,047	28,381
2006	192,223	67,998	820	123,405	25,934
2007	175,529	65,280	728	109,522	23,017
2008	178,799	64,977	752	113,070	23,762
2009	175,287	66,014	722	108,551	22,813
2010	176,901	68,135	718	108,048	22,707
1998	204,130	100,635	3,932	99,563	11,444
1999	198,418	100,830	3,707	93,881	10,790
2000	208,700	107,103	3,860	97,737	11,234
2001	213,493	111,699	3,867	97,927	11,256
2002	225,182	117,056	4,108	104,019	11,956
2003	221,925	109,159	4,284	108,482	12,469
2004	217,671	99,497	4,489	113,685	13,067
2005	197,335	87,133	4,186	106,015	12,185
2006	190,497	90,049	3,816	96,632	11,107
2007	174,536	86,570	3,342	84,624	9,727
2008	176,672	85,762	3,454	87,456	10,052
2009	173,046	85,649	3,320	84,078	9,664
2010	173,888	87,306	3,289	83,293	9,573

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1998	503,513	29,668	208,144	110,799	3,922	121,026	29,953
1999	503,439	31,217	214,815	111,033	3,700	114,359	28,314
2000	526,775	32,657	227,176	116,290	3,841	117,725	29,086
2001	519,339	29,552	217,420	121,380	3,849	117,986	29,152
2002	509,575	26,973	198,399	127,479	4,064	122,520	30,140
2003	480,486	23,788	174,787	118,240	4,240	127,947	31,483
2004	485,138	24,571	180,552	107,880	4,448	134,555	33,132
2005	451,147	23,604	173,469	94,964	4,138	124,393	30,578
2006	439,020	23,443	172,216	98,103	3,774	113,561	27,924
2007	419,510	23,627	173,327	94,262	3,312	100,283	24,699
2008	427,987	24,246	177,687	93,555	3,422	103,572	25,506
2009	423,384	24,257	177,798	94,061	3,289	99,484	24,495
2010	436,636	25,673	188,146	96,355	3,261	98,848	24,353
1998	251,186	15,800	91,265	43,820	653	76,999	22,648
1999	252,145	16,352	96,980	43,925	618	72,845	21,426
2000	264,462	16,901	105,502	45,007	632	74,506	21,914
2001	256,751	15,559	96,871	47,038	634	74,683	21,966
2002	251,989	14,217	88,521	49,571	649	76,523	22,508
2003	240,947	12,618	78,562	45,589	679	79,976	23,523
2004	245,582	13,027	81,107	41,659	715	84,284	24,790
2005	228,313	12,506	77,865	36,972	658	77,513	22,799
2006	220,388	12,448	77,505	38,170	601	70,831	20,833
2007	209,918	12,647	78,741	36,645	533	62,862	18,490
2008	215,337	13,053	81,271	36,475	551	64,899	19,089
2009	212,508	13,049	81,243	37,057	529	62,305	18,326
2010	218,926	13,824	86,071	38,247	526	62,016	18,241
1998	252,327	13,869	116,879	66,979	3,269	44,027	7,306
1999	251,293	14,865	117,835	67,109	3,082	41,514	6,889
2000	262,314	15,757	121,674	71,284	3,209	43,219	7,172
2001	262,589	13,994	120,549	74,342	3,215	43,303	7,185
2002	257,586	12,755	109,879	77,908	3,415	45,997	7,632
2003	239,539	11,170	96,225	72,652	3,562	47,971	7,960
2004	239,556	11,544	99,445	66,221	3,733	50,271	8,342
2005	222,834	11,098	95,604	57,992	3,481	46,880	7,779
2006	218,632	10,995	94,711	59,933	3,173	42,730	7,090
2007	209,592	10,980	94,586	57,618	2,778	37,421	6,209
2008	212,650	11,192	96,417	57,080	2,871	38,673	6,417
2009	210,876	11,209	96,555	57,004	2,760	37,179	6,169
2010	217,710	11,849	102,075	58,108	2,735	36,832	6,112

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1998	5,268	73,714	69,896	167,448	58,372	6,566	76,386	24,814	13,143	7,906	503,513
1999	5,068	70,973	69,063	166,073	58,636	6,772	79,886	25,784	13,576	7,608	503,439
2000	5,228	73,679	71,910	172,460	61,293	7,192	85,401	27,446	14,340	7,827	526,775
2001	5,254	74,748	72,172	172,360	60,661	6,823	79,958	25,937	13,617	7,809	519,339
2002	5,391	77,905	73,531	168,006	59,186	6,465	74,207	24,286	12,654	7,945	509,575
2003	5,451	78,318	70,944	157,474	54,867	5,908	66,290	21,838	11,321	8,075	480,486
2004	5,601	79,028	70,277	159,469	54,846	6,018	67,716	22,221	11,586	8,376	485,138
2005	5,145	72,134	64,207	148,709	50,988	5,680	64,480	21,070	11,030	7,705	451,147
2006	4,815	68,175	62,393	144,669	50,208	5,596	64,139	20,922	10,931	7,172	439,020
2007	4,360	61,772	58,446	138,281	48,492	5,516	64,383	20,867	10,900	6,494	419,510
2008	4,472	63,024	59,374	140,840	49,297	5,656	66,092	21,392	11,163	6,677	427,987
2009	4,344	61,350	58,614	139,385	48,990	5,632	66,069	21,377	11,150	6,474	423,384
2010	4,365	61,523	59,779	143,903	50,752	5,894	69,683	22,489	11,738	6,510	436,636

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	가										
1998	6,867	1,845	160,809	18,439	35,262	27,086	20,015	54,850	132,104	46,236	503,513
1999	7,004	1,832	163,204	18,745	35,449	27,210	19,966	54,327	130,153	45,548	503,439
2000	7,409	1,916	171,693	19,753	37,136	28,402	20,827	56,434	135,739	47,465	526,775
2001	7,110	1,874	166,607	19,083	36,513	28,117	20,607	56,272	135,792	47,365	519,339
2002	6,828	1,838	159,551	18,421	35,809	27,286	20,283	55,252	136,690	47,617	509,575
2003	6,343	1,773	147,193	17,122	33,612	25,202	19,157	52,263	131,803	46,017	480,486
2004	6,457	1,827	149,519	17,339	33,761	25,264	19,303	52,933	132,362	46,373	485,138
2005	6,061	1,705	140,405	16,221	31,334	23,540	17,916	49,226	121,962	42,777	451,147
2006	5,929	1,628	137,713	15,898	30,656	23,180	17,437	47,703	117,695	41,180	439,020
2007	5,772	1,536	134,173	15,447	29,452	22,432	16,636	45,312	110,221	38,530	419,510
2008	5,919	1,577	137,208	15,812	30,042	22,807	16,963	46,173	112,212	39,275	427,987
2009	5,874	1,549	136,356	15,706	29,799	22,676	16,786	45,609	110,405	38,624	423,384
2010	6,112	1,589	141,994	16,327	30,806	23,526	17,301	46,939	112,636	39,405	436,636

	t- value			t- value			t- value			
(251)										
(constant)	R^2	14.1514	60.396	R^2	14.4299	62.546	R^2	14.0597	28.068	
(s)		0.3742	-0.1700	-5.26	0.4514	-0.2074	-6.496	0.1366	-0.1602	-2.232
$2(S^2)$	a- R^2	0.0092	8.233		0.0106	9.612	a- R^2	0.0094	3.563	
* (sx)		0.3732	0.0012	2.85	0.4503	0.0003	0.799	0.1277	-0.0017	-1.699
(x)			0.0521	8.227		0.0611	10.224		0.0325	2.173
$2(x^2)$			-0.0012	-17.419		-0.0011	-15.906		-0.0005	-3.48
(332)										
(constant)	R^2	12.8391	33.338	R^2	14.2495	31.517	R^2	11.3724	17.049	
(s)		0.3616	0.0768	1.427	0.4579	-0.0928	-1.45	0.1316	0.2510	2.522
$2(S^2)$	a- R^2	-0.0006	-0.307		0.0041	1.838	a- R^2	-0.0053	-1.392	
* (sx)		0.3594	0.0037	4.968	0.455	0.0031	3.749	0.1229	-0.0047	-3.135
(x)			-0.0067	-0.627		0.0202	1.697		0.0677	3.37
$2(x^2)$			-0.0004	-4.489		-0.0009	-9.893		-0.0005	-3.357
(312)										
(constant)	R^2	12.7773	67.923	R^2	13.1818	58.19	R^2	12.3020	41.928	
(s)		0.4171	0.0303	1.137	0.6095	0.0060	0.186	0.1022	0.0972	2.119
$2(S^2)$	a- R^2	0.0029	3.042		0.0023	1.998	a- R^2	0.0015	0.824	
* (sx)		0.4165	0.0011	3.495	0.6089	0.0006	1.812	0.1003	-0.0037	-6.673
(x)			0.0428	9.066		0.0698	14.599		0.0531	6.849
$2(x^2)$			-0.0010	-19.596		-0.0014	-26.555		-0.0004	-4.717
(232)										
(constant)	R^2	13.9394	73.152	R^2	15.2597	83.165	R^2	12.7168	18.717	
(s)		0.4427	-0.0646	-2.523	0.4716	-0.2464	-9.869	0.0969	0.0866	0.924
$2(S^2)$	a- R^2	0.0041	4.743		0.0105	12.181	a- R^2	-0.0009	-0.277	
* (sx)		0.442	0.0023	7.468	0.4709	0.0021	7.191	0.0867	-0.0014	-1.074
(x)			0.0423	8.099		0.0425	8.623		0.0515	2.518
$2(x^2)$			-0.0013	-22.884		-0.0012	-23.397		-0.0008	-4.027
가 (293)										
(constant)	R^2	11.8907	45.847	R^2	13.0565	44.902	R^2	14.1547	33.925	
(s)		0.4242	0.1501	4.104	0.5934	-0.0014	-0.034	0.1414	-0.1678	-2.763
$2(S^2)$	a- R^2	-0.0015	-1.174		0.0032	2.186	a- R^2	0.0093	3.86	
* (sx)		0.4229	-0.0004	-0.997	0.5921	-0.0015	-3.56	0.1347	0.0018	2.13
(x)			0.0579	9.198		0.0823	14.361		-0.0156	-1.241
$2(x^2)$			-0.0009	-13.412		-0.0012	-19.671		0.0002	1.73
1 (271)										
(constant)	R^2	13.1294	78.049	R^2	13.5256	80.691	R^2	12.6476	17.599	
(s)		0.4038	0.0329	1.463	0.3743	-0.0092	-0.409	0.2511	0.0119	0.116
$2(S^2)$	a- R^2	0.0011	1.473		0.0024	3.114	a- R^2	0.0039	1.056	
* (sx)		0.4034	0.0009	3.325	0.3738	0.0010	3.673	0.2439	-0.0012	-0.909
(x)			0.0569	12.976		0.0505	11.764		0.0585	2.914
$2(x^2)$			-0.0013	-29.486		-0.0012	-26.535		-0.0007	-4.445

	t- value			t- value			t- value			
(101)										
(constant)	R^2	14.6053	127.157	R^2	14.6349	134.001	R^2	14.7798	12.309	
(s)		0.1303	-0.2016	-11.915	0.114	-0.1936	-12.033	0.1269	-0.3333	-1.563
2(S ²)	$a-R^2$	0.0098	14.112	$a-R^2$	0.0095	14.451	$a-R^2$	0.0172	1.751	
* (sx)		0.1291	0.0014	5.681	0.1127	0.0012	5.095	0.081	0.0032	1.329
(x)			0.0219	4.94		0.0182	4.282		-0.0155	-0.428
2(x ²)			-0.0006	-11.106		-0.0005	-9.423		-0.0001	-0.176
(333)										
(constant)	R^2	14.3102	42.37	R^2	14.2088	36.711	R^2	12.5475	20.475	
(s)		0.2692	-0.1598	-3.436	0.4333	-0.1422	-2.733	0.0574	0.1045	1.139
2(S ²)	$a-R^2$	0.0080	4.993	$a-R^2$	0.0067	3.752	$a-R^2$	-0.0009	-0.261	
* (sx)		0.266	0.0017	2.822	0.4284	0.0024	3.637	0.049	-0.0038	-3.217
(x)			0.0208	2.253		0.0320	2.884		0.0616	3.814
2(x ²)			-0.0008	-7.522		-0.0012	-9.344		-0.0004	-2.591
(192)										
(constant)	R^2	13.9529	88.707	R^2	13.6649	58.224	R^2	13.0014	80.034	
(s)		0.2123	-0.1615	-6.979	0.2856	-0.1089	-3.248	0.0252	0.0371	1.394
2(S ²)	$a-R^2$	0.0098	10.842	$a-R^2$	0.0074	5.834	$a-R^2$	-0.0003	-0.22	
* (sx)		0.2111	0.0013	4.022	0.2828	0.0003	0.603	0.0227	-0.0006	-1.984
(x)			0.0096	1.934		0.0405	5.276		0.0141	3.076
2(x ²)			-0.0004	-7.321		-0.0007	-8.913		-0.0001	-2.957
(331)										
(constant)	R^2	12.6125	42.356	R^2	12.5980	34.913	R^2	12.0533	24.861	
(s)		0.4084	0.0339	0.799	0.5664	0.0608	1.182	0.1466	0.1172	1.569
2(S ²)	$a-R^2$	0.0027	1.76	$a-R^2$	0.0006	0.318	$a-R^2$	0.0004	0.125	
* (sx)		0.4067	0.0008	1.709	0.5646	0.0005	0.883	0.1393	-0.0037	-4.136
(x)			0.0430	5.872		0.0661	8.627		0.0546	4.224
2(x ²)			-0.0010	-12.851		-0.0013	-17.047		-0.0004	-2.789
(191)										
(constant)	R^2	11.5983	39.549	R^2	12.9898	42.697	R^2	9.4756	12.549	
(s)		0.2252	0.2421	6.027	0.209	0.0582	1.4	0.1858	0.5315	5.026
2(S ²)	$a-R^2$	-0.0066	-4.564	$a-R^2$	-0.0007	-0.436	$a-R^2$	-0.0158	-4.172	
* (sx)		0.2217	-0.0015	-2.818	0.203	-0.0005	-0.876	0.1769	-0.0066	-4.196
(x)			0.0605	6.924		0.0505	5.701		0.1037	4.263
2(x ²)			-0.0008	-8.882		-0.0009	-9.486		-0.0007	-2.999
(160)										
(constant)	R^2	12.3881	60.701	R^2	12.7057	63.34	R^2	12.9923	14.71	
(s)		0.3383	0.1121	4.768	0.3721	0.0642	2.778	0.1855	0.0663	0.587
2(S ²)	$a-R^2$	-0.0003	-0.411	$a-R^2$	0.0012	1.69	$a-R^2$	0.0003	0.084	
* (sx)		0.3372	-0.0010	-3.103	0.3708	-0.0009	-2.797	0.1783	0.0006	0.372
(x)			0.0584	8.932		0.0648	10.228		0.0054	0.196
2(x ²)			-0.0006	-8.371		-0.0008	-11.435		0.0003	1.074
(342)										
(constant)	R^2	13.3858	31.306	R^2	13.3761	30.989				
(s)		0.1767	0.0502	0.811	0.1773	0.0519	0.828			
2(S ²)	$a-R^2$	-0.0011	-0.446	$a-R^2$	-0.0011	-0.467				
* (sx)		0.1616	-0.0008	-0.942	0.1619	-0.0008	-0.933			
(x)			0.0288	2.227		0.0289	2.206			
2(x ²)			-0.0003	-2.568		-0.0003	-2.532			

	t- va lue			t- va lue			t- va lue			
(155)										
(constant)	R^2	13.6560	49.309	R^2	14.6296	52.418	R^2	12.4587	22.341	
(s)		0.2981	-0.0331	-0.907	0.2501	-0.1307	-3.591	0.1865	0.1182	1.525
$2(S^2)$	a- R^2	0.0027	2.176	a- R^2	0.0052	4.293	a- R^2	-0.0027	-1.005	
* (SX)		0.2965	0.0013	2.725	0.2481	0.0020	4.204	0.1761	-0.0004	-0.369
(x)			0.0431	5.433		0.0230	2.816		0.0314	2.041
$2(X^2)$			-0.0012	-13.379		-0.0009	-9.868		-0.0005	-3.278
(131)										
(constant)	R^2	13.4324	18.651	R^2	13.8094	19.701	R^2	12.3024	1.784	
(s)		0.2855	-0.0453	-0.489	0.2701	-0.0884	-0.981	0.2909	0.0281	0.028
$2(S^2)$	a- R^2	0.0051	1.59	a- R^2	0.0067	2.143	a- R^2	0.0037	0.098	
* (SX)		0.2633	0.0003	0.265	0.2455	0.0003	0.244	-0.2156	-0.0016	-0.103
(x)			0.0230	1.092		0.0186	0.916		0.0617	0.252
$2(X^2)$			-0.0003	-1.826		-0.0003	-1.548		-0.0008	-0.363
(181)										
(constant)	R^2	13.3113	133.584	R^2	13.1018	75.307	R^2	12.9680	117.487	
(s)		0.3914	-0.0870	-5.91	0.4673	-0.0291	-1.191	0.212	-0.0163	-0.944
$2(S^2)$	a- R^2	0.0079	14.292	a- R^2	0.0045	5.21	a- R^2	0.0047	6.831	
* (SX)		0.3911	0.0006	3.408	0.4665	0.0001	0.42	0.2113	-0.0017	-7.627
(x)			0.0349	12.063		0.0720	14.827		0.0397	12.58
$2(X^2)$			-0.0008	-26.158		-0.0015	-27.666		-0.0006	-17.608

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(3 digit) ,

	t- value			t- value			t- value		
(412) (constant)	R^2	13.8195	66.652	R^2	14.5444	61.464	R^2	14.2648	31.855
(s)	0.4952	-0.1228	-4.193	0.404	-0.1707	-5.217	0.4223	-0.1688	-2.618
$2(S^2)$	a- R^2	0.0079	7.689	a- R^2	0.0082	7.273	a- R^2	0.0082	3.605
* (SX)	0.495	-0.0013	-6.028	0.4037	0.0003	1.319	0.4216	-0.0003	-0.475
(x)		0.1037	30.69		0.0718	16.971		0.0858	10.105
$2(X^2)$		-0.0018	-44.671		-0.0015	-34.488		-0.0017	-18.01
(414) (constant)	R^2	13.1345	30.775	R^2	14.4117	20.264	R^2	12.4498	23.216
(s)	0.5337	-0.0184	-0.307	0.4627	-0.1648	-1.751	0.4499	0.0924	1.195
$2(S^2)$	a- R^2	0.0032	1.486	a- R^2	0.0079	2.487	a- R^2	-0.0016	-0.531
* (SX)	0.5289	-0.0015	-2.037	0.4526	0.0002	0.238	0.4368	-0.0026	-1.757
(x)		0.1067	8.831		0.0755	4.298		0.1193	4.971
$2(X^2)$		-0.0016	-10.325		-0.0015	-8.104		-0.0017	-4.873
(419) (constant)	R^2	13.0827	147.793	R^2	13.6349	125.667	R^2	13.3366	80.039
(s)	0.5617	-0.0425	-3.451	0.44	-0.0803	-5.506	0.3796	-0.0448	-1.892
$2(S^2)$	a- R^2	0.0054	12.772	a- R^2	0.0059	11.9	a- R^2	0.0040	4.779
* (SX)	0.5617	-0.0009	-8.387	0.4399	-0.0002	-1.173	0.3793	0.0005	2.085
(x)		0.0953	56.96		0.0784	35.123		0.0626	17.814
$2(X^2)$		-0.0016	-88.735		-0.0015	-68.48		-0.0014	-35.506

	t- value			t- value			t- value		
(244)									
(constant)	R^2	26.6571	4.898	R^2	18.6704	1.223	R^2	20.4665	3.495
(s)		0.5409	-2.0357		0.5961	-0.9490		0.4444	-1.0279
$2(S^2)$	$a-R^2$	0.0764	2.992	$a-R^2$	0.0398	0.521	$a-R^2$	0.0375	1.38
* (sx)		0.5302	0.0027		0.5812	0.0003		0.4063	0.0049
(x)			0.0521			0.1029			-0.0322
$2(x^2)$			-0.0018			-0.0022			-0.0004
(312)									
(constant)	R^2	11.2565	13.793	R^2	14.0640	16.736	R^2	14.1935	8.43
(s)		0.5606	0.2201		0.5777	-0.1295		0.3812	-0.2109
$2(S^2)$	$a-R^2$	-0.0043	-0.993	$a-R^2$	0.0071	1.612	$a-R^2$	0.0106	1.235
* (sx)		0.5592	-0.0050		0.5758	-0.0032		0.3744	-0.0023
(x)			0.1672			0.1289			0.1097
$2(x^2)$			-0.0018			-0.0016			-0.0008
(315)									
(constant)	R^2	12.9955	43.43	R^2	13.6745	45.731	R^2	14.9396	14.346
(s)		0.5397	-0.0002		0.5091	-0.0628		0.4057	-0.2738
$2(S^2)$	$a-R^2$	0.0031	2.1	$a-R^2$	0.0044	3.078	$a-R^2$	0.0120	2.207
* (sx)		0.5391	-0.0016		0.5083	-0.0006		0.3989	0.0043
(x)			0.1065			0.0867			-0.0087
$2(x^2)$			-0.0017			-0.0016			-0.0003
(411)									
(constant)	R^2	14.2347	36.888	R^2	15.8203	19.862	R^2	13.0861	31.626
(s)		0.4867	-0.1832		0.5164	-0.3700		0.4114	-0.0053
$2(S^2)$	$a-R^2$	0.0092	4.735	$a-R^2$	0.0159	4.138	$a-R^2$	0.0022	1.03
* (sx)		0.486	0.0008		0.5124	0.0003		0.4104	0.0014
(x)			0.0666			0.0615			0.0627
$2(x^2)$			-0.0011			-0.0009			-0.0017
(714)									
(constant)	R^2	12.3369	33.62	R^2	12.1120	35.889	R^2	12.9902	10.04
(s)		0.2056	0.1490		0.3226	0.1657		0.0402	0.1962
$2(S^2)$	$a-R^2$	-0.0030	-1.401	$a-R^2$	-0.0029	-1.474	$a-R^2$	-0.0112	-1.402
* (sx)		0.2027	-0.0042		0.3198	-0.0056		0.0102	-0.0008
(x)			0.1088			0.1288			0.1018
$2(x^2)$			-0.0014			-0.0015			-0.0001
(721)									
(constant)	R^2	12.4627	61.436	R^2	12.4011	62.529	R^2	11.9703	12.63
(s)		0.3152	0.1450		0.3656	0.1481		0.0835	0.2396
$2(S^2)$	$a-R^2$	-0.0037	-2.915	$a-R^2$	-0.0035	-2.844	$a-R^2$	-0.0088	-1.48
* (sx)		0.3147	-0.0024		0.3651	-0.0030		0.0678	-0.0013
(x)			0.0930			0.1008			0.0337
$2(x^2)$			-0.0014			-0.0014			-0.0002

	t- value			t- va lue			t- value		
(422)									
(constant)	R^2	11.7317	42.424	R^2	11.7854	17.894	R^2	11.7357	37.18
(s)	0.5416	0.1243	3.221	0.4163	0.1352	1.499	0.5877	0.1388	3.142
$2(S^2)$	$a-R^2$	0.0002	0.132	$a-R^2$	-0.0004	-0.115	$a-R^2$	-0.0011	-0.701
* (sx)	0.5411	-0.0037	-8.753	0.4137	-0.0027	-3.368	0.5871	-0.0035	-6.514
(x)		0.1262	19.817		0.1094	8.767		0.1196	15.054
$2(x^2)$		-0.0014	-20.987		-0.0014	-12.271		-0.0012	-14.426
(513)									
(constant)	R^2	10.7822	25.954	R^2	10.3770	15.676	R^2	10.9075	17.156
(s)	0.2685	0.3227	5.42	0.1885	0.4230	4.614	0.2486	0.3016	3.24
$2(S^2)$	$a-R^2$	-0.0090	-4.179	$a-R^2$	-0.0136	-4.157	$a-R^2$	-0.0081	-2.374
* (sx)	0.2673	-0.0036	-5.267	0.1811	-0.0042	-3.649	0.2471	-0.0033	-3.259
(x)		0.0924	10.083		0.0981	5.888		0.0833	6.475
$2(x^2)$		-0.0009	-14.599		-0.0011	-7.929		-0.0008	-10.021
(611)									
(constant)	R^2	14.3216	19.55	R^2	13.8580	22.504	R^2	12.3213	3.845
(s)	0.4635	-0.1032	-1.027	0.3333	-0.0406	-0.486	0.6354	0.3636	0.778
$2(S^2)$	$a-R^2$	0.0042	1.142	$a-R^2$	0.0027	0.88	$a-R^2$	-0.0216	-1.223
* (sx)	0.4526	0.0009	0.775	0.3183	-0.0005	-0.511	0.5395	0.0007	0.179
(x)		0.0392	1.964		0.0539	3.116		-0.0188	-0.313
$2(x^2)$		-0.0011	-6.917		-0.0010	-7.421		0.0000	0.032
(612)									
(constant)	R^2	13.8119	12.668	R^2	14.9722	14.684			
(s)	0.6572	-0.0216	-0.138	0.508	-0.1067	-0.747			
$2(S^2)$	$a-R^2$	0.0007	0.115	$a-R^2$	0.0018	0.33			
* (sx)	0.6308	0.0027	1.007	0.4507	0.0056	2.202			
(x)		0.0520	1.322	F-value	-0.0208	-0.526			
$2(x^2)$		-0.0020	-4.888	8.878	-0.0010	-2.153			
(711)									
(constant)	R^2	14.5340	58.112	R^2	14.5609	58.842			
(s)	0.0389	-0.1304	-3.583	0.0362	-0.1298	-3.606			
$2(S^2)$	$a-R^2$	0.0063	4.316	$a-R^2$	0.0062	4.317			
* (sx)	0.0339	0.0012	2.183	0.0312	0.0011	2.184			
(x)		-0.0019	-0.225	F-value	-0.0038	-0.448			
$2(x^2)$		-0.0001	-1.646	7.25	-0.0001	-1.282			

	t- value			t- value			t- value		
(722)									
(constant)	R^2	12.2958	58.035	R^2	12.2691	61.377	R^2	11.8704	19.681
(s)		0.241	0.1402	4.333	0.3469	0.1502	4.939	0.0418	0.2027
$2(S^2)$	a- R^2	-0.0019	-1.508		a- R^2	-0.0026	-2.123	a- R^2	-0.0054
* (sx)		0.2405	-0.0030	-7.549	0.3464	-0.0036	-9.377	0.0353	-0.0042
(x)			0.0921	16.596		0.1014	19.195		0.0711
$2(x^2)$			-0.0013	-28.195		-0.0013	-29.866		-0.0006
(723)									
(constant)	R^2	12.9720	108.101	R^2	12.9921	108.625	R^2	11.8742	9.722
(s)		0.3403	0.0371	2.136	0.343	0.0354	2.045	0.2587	0.0808
$2(S^2)$	a- R^2		0.0017	2.636	a- R^2		0.0018	2.71	a- R^2
* (sx)		0.34	-0.0017	-7.291	0.3428	-0.0017	-7.306	0.2304	-0.0044
(x)			0.0864	25.769		0.0860	25.699		0.1052
$2(x^2)$			-0.0014	-45.509		-0.0014	-45.122		-0.0011
(724)									
(constant)	R^2	13.4116	90.079	R^2	13.5374	93.536	R^2	13.5709	18.099
(s)		0.3979	-0.0093	-0.446	0.4361	-0.0240	-1.183	0.1084	-0.0534
$2(S^2)$	a- R^2		0.0024	3.252	a- R^2		0.0028	4.002	a- R^2
* (sx)		0.3976	-0.0001	-0.566	0.4358	-0.0004	-1.397	0.1027	0.0013
(x)			0.0641	17.098		0.0671	18.558		0.0095
$2(x^2)$			-0.0011	-34.747		-0.0011	-36.989		-0.0003
(732)									
(constant)	R^2	11.6685	27.59	R^2	12.3017	18.211	R^2	10.7873	18.489
(s)		0.2322	0.1303	1.891	0.1711	0.1106	1.092	0.2574	0.2624
$2(S^2)$	a- R^2		0.0022	0.743	a- R^2		-0.0001	-0.028	a- R^2
* (sx)		0.2278	-0.0044	-5.296	0.1609	-0.0027	-2.023	0.249	-0.0073
(x)			0.0957	8.148		0.0738	3.845		0.1207
$2(x^2)$			-0.0010	-8.979		-0.0009	-5.089		-0.0011
(734)									
(constant)	R^2	13.3094	16.69	R^2	14.1928	18.568	R^2	12.4618	10.115
(s)		0.2911	-0.0678	-0.568	0.4621	-0.1674	-1.461	0.1173	-0.0031
$2(S^2)$	a- R^2		0.0070	1.516	a- R^2		0.0098	2.22	a- R^2
* (sx)		0.2865	-0.0007	-0.49	0.4571	0.0006	0.45	0.0973	-0.0050
(x)			0.0729	3.95		0.0628	3.631		0.0869
$2(x^2)$			-0.0013	-8.509		-0.0013	-9.164		-0.0008
가 (741)									
(constant)	R^2	14.5619	47.82	R^2	12.7864	41.868	R^2	14.0343	33.634
(s)		0.1698	-0.3023	-6.896	0.3255	0.0036	0.083	0.0662	-0.2239
$2(S^2)$	a- R^2		0.0173	10.627	a- R^2		0.0049	3.135	a- R^2
* (sx)		0.1686	0.0013	2.362	0.3231	-0.0019	-3.598	0.0638	-0.0007
(x)			0.0221	2.638		0.0801	9.442		0.0359
$2(x^2)$			-0.0006	-7.79		-0.0010	-11.756		-0.0006

	t- value			t- value			t- value		
(743)									
(constant)	R^2	11.9044	81.848	R^2	11.3454	40.446	R^2	12.0121	82.072
(s)		0.1776	0.1598	6.119	0.2846	0.3043	6.462	0.1343	0.1537
$2(S^2)$	$a-R^2$	-0.0025	-2.103		$a-R^2$	-0.0098	-4.781	$a-R^2$	-0.0030
* (sx)		0.177	-0.0027	-11.159	0.2818	-0.0034	-6.624	0.1334	-0.0027
(x)		0.0614	18.954		0.0925	12.491		0.0510	16.432
$2(x^2)$		-0.0007	-23.395		-0.0012	-15.896		-0.0005	-17.819
(822)									
(constant)	R^2	12.7926	35.698	R^2	12.6586	36.084	R^2	13.2929	24.177
(s)		0.2888	0.0301	0.559	0.3446	0.0988	1.883	0.0497	-0.0378
$2(S^2)$	$a-R^2$	0.0032	1.538		$a-R^2$	-0.0007	-0.348	$a-R^2$	0.0049
* (sx)		0.2876	-0.0015	-2.446	0.343	-0.0020	-3.441	0.0444	-0.0023
(x)		0.0779	9.129		0.0842	10.129		0.0477	3.595
$2(x^2)$		-0.0013	-19.158		-0.0013	-20.291		-0.0006	-5.564
(823)									
(constant)	R^2	11.9655	49.583	R^2	11.8235	46.658	R^2	12.9723	33.309
(s)		0.2284	0.1439	3.959	0.3142	0.1813	4.804	0.0697	0.0010
$2(S^2)$	$a-R^2$	-0.0002	-0.168		$a-R^2$	-0.0024	-1.641	$a-R^2$	0.0048
* (sx)		0.2277	-0.0032	-7.199	0.3134	-0.0040	-8.394	0.0654	-0.0033
(x)		0.0979	15.411		0.1139	17.498		0.0469	4.5
$2(x^2)$		-0.0014	-24.73		-0.0015	-26.217		-0.0004	-4.108
(826)									
(constant)	R^2	12.0964	95.961	R^2	11.5603	63.404	R^2	12.1714	86.76
(s)		0.3271	0.1204	5.392	0.332	0.2708	9.679	0.1092	0.1645
$2(S^2)$	$a-R^2$	0.0006	0.569		$a-R^2$	-0.0073	-6.512	$a-R^2$	-0.0043
* (sx)		0.3269	-0.0021	-10.159	0.3313	-0.0030	-9.04	0.1085	-0.0033
(x)		0.0730	26.397		0.0953	20.215		0.0498	18.377
$2(x^2)$		-0.0011	-35.361		-0.0013	-31.728		-0.0004	-15.53
가 (913)									
(constant)	R^2	12.7300	73.378	R^2	12.6950	38.097	R^2	12.5898	67.807
(s)		0.1348	-0.0107	-0.41	0.2233	0.0285	0.584	0.1194	-0.0078
$2(S^2)$	$a-R^2$	0.0049	4.601		$a-R^2$	0.0030	1.555	$a-R^2$	0.0044
* (sx)		0.1341	-0.0020	-6.692	0.2208	-0.0028	-5.161	0.1186	-0.0019
(x)		0.0537	11.843		0.0781	8.951		0.0558	11.577
$2(x^2)$		-0.0007	-19.55		-0.0011	-14.894		-0.0007	-18.738
(931)									
(constant)	R^2	12.8310	16.802	R^2	13.1521	17.614	R^2	-1.4084	-0.233
(s)		0.1069	0.0900	0.726	0.115	0.0043	0.035	0.3925	2.0277
$2(S^2)$	$a-R^2$	-0.0017	-0.317		$a-R^2$	0.0031	0.552	$a-R^2$	-0.0681
* (sx)		0.0867	-0.0011	-0.769	0.093	-0.0010	-0.77	0.19	-0.0279
(x)		0.0421	1.918		0.0456	2.144		0.4457	2.364
$2(x^2)$		-0.0006	-3.022		-0.0007	-3.374		-0.0037	-2.195

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< IV - 3 > ()

(6.5%)	(10.8%)	(15.1%)	(9.2%)	(13.3%)	(17.6%)
(11.1%)	(16.6%)	(32.1%)	가 (9.2%)	(16.9%)	(22.9%)
(8%)	(24%)	(15.2%)	가 (11.1%)	가 (14.1%)	(22.9%)
가 (8%)	가 (12.9%)	가 (17.8%)	(23%)	(27%)	가 (24.3%)
(6.7%)	(10.8%)	(15.3%)	(13.3%)	(30%)	(20.7%)
(8.6%)	(11.2%)	(15%)	(9.5%)	(13.8%)	가 (19.4%)
(7.3%)	가 (11.2%)	(30.1%)	(9.8%)		(49.4%)
(6.6%)	(19.2%)		(62.3%)		(21.6%)
가 (9.2%)					
(8.4%)					
(6.4%)					

< IV - 4> 1/2 ()

(6.5%)	(10.8%)	(15.1%)	(9.2%)	(13.3%)	(17.6%)
(2.2%)	(4.2%)	(7.6%)	(4.6%)	(5.1%)	(8.5%)
(1.3%)	(0.9%)	(6.2%)	(4.6%)	(4.7%)	(8.3%)
	가 (3.3%)	(6%)	(4.3%)	(4.2%)	(8.2%)
		가 (3.0%)	(3.3%)	(4.0%)	(7.9%)
		(0.4%)	(2.3%)	(3.6%)	(6.7%)
		(-1.5%)	(2.2%)	(3.2%)	(4.3%)
			(1.9%)	(2.9%)	(4.2%)
			(0.2%)	(2.1%)	(3.8%)
				가 (0.4%)	(2.5%)
				(-4.3%)	(2.5%)
					(2.0%)
					(2%)
					가 (-5.8%)
					(-8.9%)

< IV - 5 > , ()

(6.5%)	(10.8%)	(15.1%)	(9.2%)	(13.3%)	(17.6%)
(24%)	(16.6%)	(32.1%)	가	(16.9%)	(29.6%)
(11.1%)			(9.2%)		
(8%)	가	가	가	(14.1%)	(22.9%)
(8%)	(12.9%)	(15.2%)	(11.1%)	(27%)	(24.3%)
가	(10.8%)	(17.8%)	(23%)	(27%)	가
(6.7%)	(11.2%)	(15.3%)	(13.3%)	(30%)	(20.7%)
(8.6%)	가	(15%)	(9.5%)	(13.8%)	가
(7.3%)	(11.2%)	(15%)	(9.5%)	(13.8%)	(19.4%)
(7.3%)	(19.2%)	(30.1%)	(9.8%)		(49.4%)
(6.6%)			(62.3%)		(21.6%)
가					
(9.2%)					
(8.4%)					
(6.4%)					

< IV-6> , 1/2 ()

(6.5%)	(10.8%)	(15.1%)	(9.2%)	(13.3%)	(17.6%)
(3%)	(5.1%)	가 (7.5%)	(4.6%)	(6.2%)	(8.3%)
(2.8%)	(4.9%)	(6.8%)	(3.3%)	(5.7%)	(8%)
(2.4%)	(4.9%)	(6.7%)	(2.5%)	(5.6%)	(8.6%)
(2%)	(4.9%)	(6.6%)	(2%)	(5.6%)	(7.8%)
(1.9%)	(4.7%)	(6.0%)	(2.1%)	가 (5.3%)	(7.8%)
(1.7%)	(4.4%)	(6.7%)	(1.8%)	(5.3%)	(7.2)
(1.6%)	(4.4%)	가 (5%)	(1.6%)	(3.5%)	(6.2%)
(1.6%)	(3.9%)	(4.7%)	(1.3%)	(3.1%)	(5.8%)
(1.5%)	(3.0%)	(4.6%)	가 (1.2%)	(1.5%)	(4.5%)
(1.1%)	(2.6%)	(4.5%)	가 (1%)	(0.5%)	(2.3%)
가 (-0.5%)	(2.6%)	(4.4%)	가 (-2.9%)	(0.3%)	(1%)
가 (-0.8)	(2.4%)	(3.7%)	(-5.5%)	(-0.3%)	(0.9%)
(-0.9%)	가 (2.3%)	(3.6%)	(-6.3%)	(-2.2%)	(-0.7%)
	(2.2%)	(2.9%)	(-8.1%)	(-6.3%)	(-1.3%)
	(1.7%)	(2.4%)	(-9.3%)	(-12.4%)	(-1.7%)
	(1%)	(1.6%)	(-14.4%)	(-23%)	(-2.4%)
	(0.6%)	(-0.2%)		(-22.6%)	(-5.6%)
	(0.6%)	(-0.5%)			(-16.7%)
	(-1.2%)	(-0.4%)			(-31%)
	(-1.6%)	(-0.8%)			(-49.7%)
	(-2%)	(-0.9%)			
	(-12.8%)	(-1.4%)			
		(-5.8%)			
		(-6.9%)			
		(-22%)			
		(-36.8%)			

< (11.9%) >

< IV-7 > , ()

(13.4%)	(14.5%)	(19.7%)	(16.2%)	(15.5%)	(20.1%)
	(13.7%)	(17.4%)	(12.2%)	(14.5%)	(18.9%)
	(12.9%)	(17.2%)		(13.3%)	(17.6%)
		(16.3%)		(12.3%)	(16.3%)
		(15.1%)		(12.3%)	(25.1%)
		(13.4%)		(18.4%)	가 (14.9%)
		(12.9%)			(12.3%)
		(12.7%)			
		(12.6%)			

< IV-8> , ()

(24.0%)	(19.2%)	(32.1%)	(62.3%)	(30.0%)	(49.4%)
(13.9%)	(16.6%)	(30.1%)	(23.0%)	(27.0%)	(29.6%)
	가	가	(13.3%)	(16.9%)	(26.0%)
	(12.9%)	(17.8%)		(13.8%)	가 (24.3%)
		(15.3%)		(12.1%)	(22.9%)
		(15.2%)			
		(12.4%)		(11.9%)	(21.6%)
		(15.0%)		가 (14.1%)	(20.7%)
		(13.9%)		(12.5%)	(22.9%)
		가 (13.1%)		(12.5%)	가 (19.4%)
					(16.0%)
					(15.2%)
					(14.0%)
					%)
					가 (16.1%)

< IV-9> , ()

(6.0%)	(6.0%)	(6.0%)	(5.1%)	(5.1%)	(4.3%)
1		가			
(6.0%)	(5.8%)	(3.0%)	(4.8%)	(4.7%)	(4.2%)
(5.7%)	(5.6%)	(0.4%)	(4.7%)	(4.2%)	(3.8%)
(5.6%)	(4.2%)	(- 1.5%)	(4.6%)	(4.0%)	(2.5%)
가	가				
(5.3%)	(3.3%)		(4.3%)	(3.6%)	(2.5%)
(5.2%)	(0.9%)		(3.3%)	(3.2%)	(2.0%)
(5.2%)			(2.3%)	(2.9%)	(2.0%)
(5.1%)			(2.2%)	(2.1%)	가 (- 5.8%)
(5.1%)			(1.9%)	가 (0.4%)	(- 8.9%)
(5.0%)			(0.2%)		
(4.6%)					
(3.9%)					
가					
(3.5%)					
(3.5%)					
(2.2%)					

< IV - 10 > , ()

가					
(5.9%)	(6.0%)	(6.0%)	(5.6%)	(5.6%)	(5.8%)
(5.7%)	(5.9%)	가 (5.0%)	(4.9%)	가 (5.3%)	(2.3%)
(5.2%)	(5.9%)	(4.7%)	(4.6%)	(3.5%)	(0.9%)
(5.2%)	(5.7%)	(4.6%)	(3.3%)	(3.1%)	
(5.1%)	(5.1%)	(3.7%)	(2.5%)	(1.5%)	
(3.8%)	(4.9%)	(2.9%)	(2.1%)	(0.3%)	
(3.7%)	(4.9%)	(1.6%)	(2.0%)		
(3.6%)	(2.6%)		(1.8%)		
(3.6%)	(2.6%)		(1.3%)		
(3.4%)	(2.4%)		가 (1.2%)		
(3.0%)	가 (2.3%)				
(2.8%)					
(2.0%)					
(1.9%)					
(1.7%)					

< IV - 12> , 가 ()

101.	
723.	
851.	(, ,), (, ,), , ,
921.	가(가, 가, 가, 가, , , 가), , 가,
923.	, , ,

714.	
721.	가 (가,) (가,) 가
722.	()
743.	(), 가 가 (가,) 가 ()
822.	() 가 가 가
826. 가	() (가,) () () () ,가 ,가
832.	() 가 () ()
932.	(), () ,가 ()

< IV - 17> ()

101.	
659.	,
713. NEC 가	, 가 (,), , , 가 가
723.	,
749. NEC	(,), , (,), , (,) , , , , , , , , ,
851.	(,), (,), , , ,
921.	가(가, 가, 가, 가, , , 가), 가, , , , TV , , , 가, , , , , ,
923.	, , , , , , , , , , , ,
930.	가 , , , , , , , , ,

註: (ISIC)

< IV - 18> ()

		(5)
214.	가, , 가	가, (, , , , , , ,) (, , .) (, ,) (, , , , , , ,), 가, (, ,) , ,
223.	가	가, ,
232.	.	, , , , , , , ,
244.	가	가, 가, , , 가, , , , , , , , , 가, , , , , , , , ,
245.	가 가	가, 가, 가, , 가, , 가, 가, 가, 가, 가, 가, 가, 가, 가, , 가, , 가, 가, , , , , , , ,
312.	가	, 가, 가, , 가, , 가
347.	가	가 , 가, , 가, , , , , , , , , , , , , 가 , , , , , , , , , , ,
511.		, , , , , , , , , , , , , , , , ,
516.		(, , ,), (, , ,), , , , , , , , , , , ,
734.		, , , , , , , , , , , , , , , , , (, , ^x), , , , , , , , ,
741.	가	, , , , , , , , 가 , , . , , , , , , , , , 가 , , (, , , , , , ,) , (, ,) , , , , , , ,

註: (ISIC)

3.

< III- 1>

(:)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	2323.8	2224.5	2126.1	1909.9	1862.9	1787.8	1684.6	1616.9	1543.9	1483.0	1406.4	1340.5	1276.1	1201.6
	26.7	27.8	25.6	24.9	23.8	22.1	22.3	20.5	20.9	19.1	19.3	19.6	17.4	17.5
	4474.4	4111.4	4232.5	4774.8	4948.7	5046.4	5043.7	5129.5	5181.0	5245.0	5255.0	5203.0	5261.2	5282.1
가	76.5	79.9	80.9	85.5	93.2	98.2	103.4	108.8	116.2	122.4	129.7	135.7	144.3	149.1
	2003.5	1867.0	1909.6	2005.7	2016.5	1994.8	1937.4	1916.7	1886.5	1882.7	1855.0	1837.0	1816.8	1777.4
	5798.2	5271.4	5407.8	5310.4	5363.6	5500.2	5546.6	5681.3	5815.2	5980.3	6098.6	6230.6	6362.3	6408.6
	1164.6	1112.3	1141.8	1274.7	1331.2	1341.3	1306.5	1338.3	1347.5	1255.1	1284.8	1306.9	1317.8	1319.3
	1907.6	1761.8	1844.6	2053.2	2195.6	2319.6	2410.5	2528.3	2662.5	2865.1	3039.7	3195.0	3305.7	3434.6
	3271.7	3573.9	3590.1	3658.0	3768.1	3952.3	4430.0	4536.4	4672.8	4744.5	4842.0	4972.7	5027.1	5168.3

< III-2>

(:)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	2209.7	2111.7	2014.8	1806.6	1758.8	1684.7	1584.2	1517.3	1445.7	1385.5	1311.0	1246.5	1183.6	1111.7
,	5.3	4.9	4.6	4.1	3.9	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.0
,	108.8	107.9	106.7	99.3	100.2	99.5	97.1	96.4	95.3	94.7	92.9	91.6	90.2	87.9
,	5.0	3.9	2.7	1.9	1.3	0.9	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.0
, 가	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	1.0	0.9	0.7	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
	20.6	22.9	22.2	22.4	22.0	20.9	21.3	19.9	20.4	18.7	19.0	19.4	17.3	17.4
	387.7	365.4	384.8	442.9	467.1	483.4	488.9	501.6	509.4	516.5	516.2	507.5	506.8	499.3
	5.3	4.4	4.1	4.2	3.9	3.6	3.2	2.9	2.6	2.3	2.1	1.8	1.6	1.4
	351.5	309.7	305.0	328.2	323.7	313.2	296.1	284.0	269.7	255.7	238.9	219.6	205.0	188.9
	509.2	455.7	455.8	498.2	499.0	490.4	471.0	458.9	442.5	426.1	404.5	377.6	358.1	335.0
가 , 가 ,	135.5	108.6	97.2	95.2	85.4	75.1	64.6	56.4	48.7	42.0	35.7	29.9	25.4	21.2
(가)	65.7	55.0	51.3	52.4	49.0	45.0	40.4	36.8	33.1	29.8	26.4	23.0	20.4	17.8
,	83.7	73.3	71.7	76.6	75.1	72.2	67.8	64.6	60.9	57.4	53.3	48.6	45.1	41.3
,	209.8	193.3	199.0	223.9	230.8	233.5	230.8	231.5	229.8	227.8	222.5	213.8	208.7	201.0
,	10.1	7.8	6.7	6.3	5.5	4.6	3.8	3.2	2.7	2.2	1.8	1.5	1.2	1.0
	159.3	144.0	145.5	160.7	162.6	161.5	156.7	154.2	150.3	146.2	140.2	132.2	126.7	119.8
	148.1	135.6	138.7	155.1	159.0	159.9	157.1	156.6	154.5	152.2	147.8	141.2	137.0	131.2

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	177.4	158.3	157.9	172.1	171.9	168.4	161.3	156.7	150.6	144.7	136.9	127.4	120.5	112.4
1	115.5	109.3	115.5	133.5	141.3	146.8	149.1	153.5	156.5	159.3	159.8	157.7	158.1	156.4
()	326.7	297.4	302.6	336.5	342.9	342.8	334.9	332.0	325.7	319.1	308.1	292.6	282.3	268.7
NEC	465.9	464.7	518.0	631.1	704.6	771.8	826.1	897.1	964.3	1035.0	1095.0	1139.4	1204.3	1255.9
,	41.7	37.8	38.2	42.3	42.9	42.7	41.6	41.0	40.1	39.1	37.6	35.5	34.1	32.3
NEC	142.7	139.9	153.4	183.7	201.6	217.2	228.6	244.0	257.9	272.1	283.1	289.6	301.0	308.6
,	330.3	301.6	307.8	343.3	350.8	351.8	344.8	342.8	337.3	331.4	321.0	305.8	295.9	282.5
,	60.0	55.2	56.8	63.8	65.7	66.4	65.6	65.7	65.2	64.5	63.0	60.5	59.0	56.7
	316.4	304.7	327.9	385.8	415.8	439.8	454.6	476.6	494.6	512.6	523.6	526.1	536.9	540.6
	124.8	118.8	126.4	147.0	156.6	163.7	167.3	173.4	177.9	182.3	184.0	182.8	184.4	183.6
가	300.3	262.2	255.8	272.8	266.6	255.6	239.5	227.6	214.2	201.2	186.3	169.7	157.0	143.3
가	7.0	8.8	12.4	19.1	26.8	37.1	50.0	68.4	92.6	125.3	167.0	219.0	291.7	383.3
, 가	63.8	67.0	68.2	72.5	79.4	84.0	88.9	94.0	100.8	106.7	113.6	119.3	127.4	132.1
	12.7	12.9	12.7	13.1	13.8	14.1	14.5	14.8	15.3	15.7	16.1	16.4	16.9	17.0
	2003.5	1867.0	1909.6	2005.7	2016.5	1994.8	1937.4	1916.7	1886.5	1882.7	1855.0	1837.0	1816.8	1777.4
,	379.1	389.3	434.3	447.1	492.7	528.4	557.9	598.3	640.2	690.7	739.8	794.2	851.9	899.7
	1128.8	1124.3	1216.7	1214.8	1298.6	1350.7	1383.1	1438.8	1493.3	1562.5	1623.2	1690.1	1758.6	1801.2
()	2410.2	2280.1	2343.4	2222.3	2256.2	2228.9	2167.7	2141.7	2111.1	2098.0	2070.0	2047.1	2022.9	1967.9
	1880.1	1477.7	1413.5	1426.2	1316.1	1392.2	1437.8	1502.4	1570.5	1629.0	1665.7	1699.3	1728.8	1739.8
	741.6	698.5	706.4	775.8	796.2	787.2	751.4	753.2	741.1	678.7	682.3	681.0	673.0	659.6
	42.0	37.4	35.8	37.2	36.1	33.8	30.5	28.9	27.0	23.7	23.0	22.1	21.0	19.8
	19.0	17.2	16.6	17.5	17.2	16.3	14.9	14.3	13.5	10.9	9.8	8.6	7.6	6.6
	202.9	207.4	227.7	271.5	302.4	324.5	336.3	365.9	390.8	380.8	407.5	432.8	455.3	474.9

()

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	159.1	151.7	155.3	172.6	179.3	179.4	173.4	175.9	175.2	160.9	162.3	162.4	161.0	158.3
	326.6	287.4	311.6	352.7	361.3	365.9	366.5	377.4	393.1	404.8	412.8	414.3	406.0	402.2
	390.7	350.7	387.7	447.7	467.7	483.0	493.3	518.1	550.3	590.1	626.7	655.0	668.4	689.4
	43.9	37.3	38.9	42.5	41.9	40.9	39.5	39.2	39.3	43.5	47.6	51.3	54.0	57.5
	277.2	248.5	238.6	245.4	251.7	253.9	250.0	244.7	238.7	239.4	235.2	228.9	219.3	209.4
	70.2	60.2	55.2	54.3	53.2	51.3	48.2	45.1	42.1	40.3	37.8	35.2	32.2	29.4
	96.2	102.6	117.2	143.5	175.1	210.1	246.1	286.7	332.7	397.0	464.0	537.3	612.4	695.8
	60.4	61.4	66.8	77.8	90.5	103.5	115.4	128.1	141.6	161.0	179.3	197.7	214.7	232.4
	642.3	613.9	628.6	689.4	754.2	811.1	851.5	889.0	924.7	989.0	1036.2	1075.3	1098.5	1118.6
	648.3	1138.1	1114.2	1058.8	1058.9	1186.4	1649.3	1673.4	1716.9	1688.6	1699.4	1721.3	1693.9	1692.3
	1102.8	962.0	945.6	972.2	982.3	983.3	1004.1	1029.8	1065.4	1100.5	1127.9	1177.4	1207.8	1218.2
	328.1	337.7	354.4	378.4	400.8	417.6	434.3	467.5	486.1	500.7	511.4	523.3	530.1	594.6
	31.1	31.0	31.8	34.4	37.5	39.6	39.8	41.6	43.3	45.6	47.9	50.4	53.3	56.7
	197.4	193.0	194.0	205.2	219.0	226.2	222.8	227.8	232.3	239.7	246.2	254.0	262.6	273.6
	315.3	312.3	318.0	340.7	368.4	385.4	384.6	398.3	411.6	430.2	447.6	467.8	490.0	517.1
	406.0	399.3	403.7	429.6	461.3	479.3	474.9	488.4	501.1	520.1	537.4	557.7	580.1	608.0
가	229.8	191.7	219.9	231.5	233.9	229.8	216.6	206.8	213.6	217.0	222.4	219.3	208.2	206.9
	13.1	8.9	8.4	7.3	6.0	4.8	3.7	2.9	2.5	2.1	1.7	1.4	1.1	0.9

< III-3 >

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	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
, 가	531.4	499.8	498.5	563.9	628.6	663.9	692.2	721.8	758.0	770.5	802.4	812.9	837.3	846.6
가	997.5	1181.4	1250.1	1310.8	1386.6	1472.0	1661.2	1758.3	1836.1	1882.8	1947.5	2024.8	2064.7	2105.7
가	2183.3	1968.1	2041.4	2368.2	2601.8	2722.1	2802.5	2850.5	2893.5	2909.7	2948.6	2973.3	2986.3	3004.2
	2574.2	2370.6	2413.5	2598.1	2689.9	2768.5	2838.7	2901.4	2988.1	3082.5	3174.6	3260.2	3341.5	3410.4
	4857.0	4631.8	4737.1	4716.6	4815.0	4956.5	5133.3	5288.2	5433.7	5580.8	5698.1	5831.0	6057.8	6116.5
	2212.9	2204.0	2170.9	2040.6	1822.5	1715.0	1558.1	1474.5	1363.5	1332.8	1196.2	1133.3	997.8	970.3
	3162.5	3005.9	3052.8	3100.3	3148.7	3219.7	3279.7	3339.1	3399.5	3463.9	3528.9	3593.3	3659.2	3713.8
, 가	2173.5	2003.5	2016.1	2158.0	2223.8	2239.4	2221.3	2243.1	2279.5	2264.3	2292.4	2259.5	2261.6	2271.6
	2354.8	2164.8	2178.7	2240.6	2286.8	2305.6	2297.9	2299.7	2294.6	2309.7	2341.8	2352.7	2322.4	2319.4

< III-4>

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	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	4.0	3.8	3.9	4.0	4.1	4.2	4.3	4.3	4.8	5.2	5.7	6.4	6.8
	88.0	83.7	85.1	88.2	90.3	92.2	94.0	95.6	108.3	122.5	138.4	159.2	176.1
	439.4	412.3	409.5	471.7	534.2	567.4	593.9	621.9	645.0	642.8	658.3	647.3	654.4
, 가	270.7	484.8	537.1	566.7	619.2	682.6	850.9	927.9	946.5	928.2	921.2	898.1	872.1
가	124.5	118.7	120.9	125.6	128.8	131.8	134.6	137.3	156.6	178.4	203.1	235.3	262.2
가	451.8	434.8	446.9	468.2	484.8	500.6	515.9	530.7	546.1	561.3	576.3	602.5	605.6
가	150.4	143.0	145.2	150.4	153.8	156.9	159.8	162.4	187.0	215.0	247.0	288.8	324.8
	374.5	373.3	408.2	473.9	533.8	588.2	642.7	697.3	754.5	811.2	874.0	945.6	1001.0
가	87.9	81.7	83.4	90.3	94.8	97.5	99.3	100.5	101.4	101.7	102.2	103.2	101.9
가	413.7	390.7	404.6	444.9	474.7	495.5	512.8	527.0	540.1	550.1	561.4	575.3	576.8
가	1307.2	1122.3	1145.2	1359.1	1498.4	1541.0	1547.7	1525.8	1497.4	1446.6	1411.0	1349.3	1306.6
	1750.8	1612.4	1645.3	1775.2	1842.1	1900.1	1952.6	2000.2	2064.6	2134.5	2203.1	2267.4	2329.0
	823.3	758.2	768.2	822.9	847.9	868.4	886.0	901.2	923.5	948.0	971.5	992.8	1012.5
	2625.9	2504.2	2707.3	2838.5	3040.0	3271.0	3528.7	3773.8	4012.7	4252.1	4466.4	4689.7	4986.8
, 가	2231.0	2127.6	2029.8	1878.1	1775.0	1685.5	1604.6	1514.4	1421.0	1328.8	1231.7	1141.3	1071.0
	2211.4	2202.6	2169.4	2039.2	1821.2	1713.8	1557.1	1473.5	1362.6	1331.9	1195.4	1132.5	997.2

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	1.5	1.5	1.5	1.4	1.2	1.2	1.0	1.0	0.9	0.9	0.8	0.8	0.7
	989.2	942.8	969.3	990.8	1016.1	1051.6	1083.4	1115.6	1148.8	1184.2	1220.4	1250.8	1294.6
,	1020.1	972.3	995.3	1012.9	1034.1	1065.5	1092.9	1120.4	1148.6	1178.8	1209.5	1234.2	1271.7
, ,	227.5	216.8	213.5	209.1	205.4	203.7	201.0	198.3	195.6	193.1	190.7	187.2	185.6
	925.7	874.1	874.7	887.5	893.1	898.9	902.4	904.8	906.5	907.7	908.4	921.2	907.3
	156.0	144.3	143.4	148.2	149.4	148.9	147.1	146.4	147.2	146.5	146.9	147.1	145.1
	909.4	841.1	835.9	864.1	871.2	867.8	857.5	853.4	858.2	854.0	856.5	857.6	845.8
	1108.0	1018.1	1036.8	1145.7	1203.1	1222.7	1216.7	1243.4	1274.0	1263.8	1289.0	1254.8	1270.7
	1397.3	1283.3	1304.8	1355.3	1397.0	1421.7	1429.3	1443.1	1457.9	1485.5	1524.3	1548.0	1544.8
	90.3	85.0	84.4	85.9	86.6	87.3	87.8	88.3	80.1	72.7	65.8	60.7	53.8
, ,	867.3	796.5	789.4	799.3	803.1	796.6	780.7	768.4	756.6	751.5	751.6	744.1	723.8

< III-5> ,

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	1997				1999			
	7.8	24.5	210.0	289.2	7.3	22.9	196.5	271.9
가	2.4	1.6	55.7	937.8	2.5	1.6	68.7	1177.3
가	37.5	68.6	858.6	1218.6	34.3	62.9	803.6	1140.6
	35.1	101.8	1537.5	899.7	32.9	95.4	1440.8	844.4
	919.0	1013.8	2423.8	500.4	904.9	997.6	2352.1	482.5
	1524.5	368.7	276.4	43.2	1495.6	361.7	271.2	42.4
	554.7	848.5	1572.0	187.3	533.6	817.1	1520.4	181.7
	250.1	518.7	1303.0	101.8	231.6	481.5	1208.7	94.3
	902.9	570.9	788.1	92.9	834.8	527.7	729.9	86.3
	2003				2010			
	10.5	32.6	277.4	371.7	11.5	36.8	323.9	474.4
가	2.9	1.7	90.2	1566.4	5.3	4.0	128.0	1968.4
가	47.3	87.6	1109.0	1558.6	47.2	89.2	1198.3	1669.4
	38.6	112.0	1691.0	997.1	46.3	134.0	2024.0	1206.0
	1015.7	1116.7	2500.5	500.4	1265.6	1386.8	2903.3	560.8
	1073.5	259.6	194.6	30.4	668.5	161.7	121.2	19.0
	571.0	874.8	1637.3	196.6	636.4	979.4	1870.2	227.7
	251.9	533.8	1332.6	103.1	255.8	547.6	1363.2	105.0
	875.9	554.9	774.2	92.8	859.7	562.3	799.4	98.0

< III-6> () , () (:)

					가							
1997	가	가	3.5	2.6	147.0	1.2	108.6	101.2	28.9	74.8	63.6	531
			1.4	0.1	86.1	8.7	43.3	36.0	7.8	161.6	652.4	998
			8.1	0.8	355.2	15.2	89.4	348.3	69.8	442.2	854.1	2183
			7.4	3.7	591.3	26.0	227.0	490.2	223.5	549.4	455.6	2574
			0.6	0.7	48.6	1.3	6.7	3907.1	24.7	85.1	782.2	4857
			2208.3	0.2	0.1	0.0	0.0	0.3	0.0	0.3	3.6	2213
			0.3	7.2	1701.6	9.9	1005.2	270.0	65.0	58.3	45.0	3163
			5.8	8.7	1091.2	7.8	150.4	102.9	639.7	35.0	132.0	2173
			88.2	2.7	453.2	6.3	372.9	542.4	105.1	500.9	283.2	2355
			2324	27	4474	76	2004	5798	1165	1908	3272	21047
			1998	가	가	1.1	2.7	135.8	1.3	100.6	91.1	28.3	70.2	68.8	500
0.5	0.2	91.6				10.6	46.2	37.2	8.8	174.5	811.7	1181
2.3	0.7	300.3				14.7	75.8	286.8	62.5	379.8	845.0	1968
2.2	3.7	526.9				26.5	202.8	425.4	210.9	497.2	475.0	2371
0.2	0.7	46.1				1.4	6.3	3603.7	24.8	81.8	866.8	4632
2188.8	0.8	0.3				0.0	0.1	0.7	0.1	1.0	12.2	2204
0.1	7.6	1612.2				10.8	954.9	249.1	65.3	56.1	49.9	3006
1.8	8.7	980.2				8.0	135.4	90.0	608.7	31.9	138.7	2004
27.5	2.8	418.1				6.6	344.9	487.3	102.7	469.3	305.7	2165
2225	28	4111				80	1867	5271	1112	1762	3574	20030
1999	가	가				0.3	2.3	137.9	1.3	101.5	90.3	28.8	70.9	65.3	498
			0.1	0.2	101.7	11.4	51.0	40.4	9.8	192.8	842.7	1250
			0.6	0.6	322.5	15.3	80.9	300.7	67.2	405.6	848.0	2041
			0.6	3.2	547.6	26.6	209.4	431.6	219.2	514.0	461.4	2413
			0.1	0.6	48.6	1.4	6.6	3712.8	26.2	85.9	854.9	4737
			2116.7	2.5	1.3	0.0	0.3	2.7	0.4	3.7	43.3	2171
			0.0	6.5	1646.8	10.6	969.1	248.4	66.7	57.0	47.7	3053
			0.5	7.4	993.9	7.9	136.4	89.1	617.3	32.2	131.4	2016
			7.2	2.4	432.2	6.6	354.3	491.8	106.2	482.6	295.4	2179
			2126	26	4233	81	1910	5408	1142	1845	3590	20359
			2000	가	가	0.1	2.1	170.5	1.4	118.0	91.0	34.7	80.5	65.7	564
0.1	0.1	125.1				12.4	58.9	40.5	11.8	217.7	844.2	1311
0.3	0.6	427.4				17.9	100.8	325.1	86.8	493.7	915.6	2368
0.2	2.8	651.3				28.0	234.1	418.7	254.4	561.4	447.0	2598
0.0	0.5	59.0				1.5	7.6	3675.9	31.0	95.7	845.3	4717
1906.6	5.5	4.0				0.0	0.8	6.5	1.2	10.3	105.7	2041
0.0	5.1	1742.2				9.9	963.5	214.4	68.8	55.4	41.1	3100
0.2	6.1	1102.1				7.7	142.2	80.6	667.7	32.8	118.7	2158
2.5	2.0	493.3				6.7	379.9	457.8	118.2	505.7	274.6	2241
1910	25	4775				86	2006	5310	1275	2053	3658	21097

2001	가	가	1.7	2.7	190.9	1.6	128.4	98.4	39.2	92.1	73.6	629
			0.8	0.2	132.0	13.6	60.4	41.3	12.5	235.0	890.9	1387
			4.1	0.8	469.1	20.4	107.5	344.4	96.1	554.3	1005.0	2602
			3.2	3.4	674.7	30.2	235.7	418.8	265.8	595.0	463.2	2690
			0.3	0.7	61.9	1.6	7.7	3721.0	32.8	102.7	886.4	4815
			1813.7	0.4	0.3	0.0	0.1	0.4	0.1	0.7	6.9	1822
			0.1	6.0	1787.2	10.6	960.9	212.3	71.2	58.1	42.1	3149
			2.3	7.2	1134.0	8.3	142.2	80.1	693.0	34.5	122.2	2224
			36.7	2.4	498.8	7.0	373.5	447.0	120.5	523.2	277.7	2287
			1863	24	4949	93	2017	5364	1331	2196	3768	21604
			2002	가	가	2.9	2.6	200.6	1.7	130.7	104.4	41.0
1.4	0.2	136.9				14.5	60.7	43.2	12.9	253.4	948.7	1472
6.6	0.8	481.4				21.6	106.9	356.8	98.2	591.2	1058.7	2722
5.2	3.2	685.9				31.6	232.2	429.7	269.0	628.6	483.3	2769
0.5	0.6	62.9				1.7	7.6	3816.9	33.2	108.4	924.7	4957
1709.6	0.2	0.2				0.0	0.0	0.2	0.0	0.4	4.2	1715
0.2	5.7	1842.2				11.2	959.5	220.9	73.1	62.3	44.6	3220
3.7	6.7	1142.6				8.6	138.8	81.4	695.1	36.1	126.4	2239
57.8	2.2	493.9				7.1	358.3	446.7	118.8	538.4	282.3	2306
1788	22	5046				98	1995	5500	1341	2320	3952	22063
2003	가	가				5.1	2.7	204.7	1.9	129.2	107.8	41.2	108.4	91.2	692
			2.5	0.2	141.6	15.9	60.9	45.3	13.2	276.8	1104.9	1661
			11.0	0.7	466.2	22.2	100.3	349.8	93.7	604.5	1154.1	2803
			8.8	3.2	679.7	33.2	222.9	431.1	262.7	657.8	539.2	2839
			0.8	0.6	63.0	1.8	7.4	3869.8	32.8	114.7	1042.4	5133
			1555.0	0.1	0.1	0.0	0.0	0.1	0.0	0.2	2.5	1558
			0.4	5.9	1887.2	12.2	952.3	229.1	73.8	67.3	51.4	3280
			6.2	6.7	1129.4	9.0	132.9	81.5	677.2	37.7	140.6	2221
			94.8	2.1	471.8	7.2	331.6	432.0	111.9	543.0	303.5	2298
			1685	22	5044	103	1937	5547	1307	2410	4430	22485
			2004	가	가	5.9	2.5	213.2	2.0	130.7	112.3	43.5	116.7	94.9	722
2.9	0.2	149.4				17.3	62.3	47.7	14.1	301.5	1162.9	1758
12.5	0.7	471.1				23.1	98.4	353.4	96.0	631.1	1164.2	2851
10.0	2.9	690.0				34.8	219.7	437.6	270.3	689.8	546.3	2901
1.0	0.6	64.8				1.9	7.4	3984.7	34.2	122.0	1071.6	5288
1471.9	0.1	0.1				0.0	0.0	0.1	0.0	0.2	2.1	1475
0.4	5.5	1935.8				12.9	948.7	235.0	76.7	71.4	52.7	3339
7.0	6.1	1137.1				9.3	130.0	82.0	691.0	39.2	141.3	2243
105.3	1.9	468.0				7.4	319.4	428.4	112.4	556.4	300.5	2300
1617	21	5130				109	1917	5681	1338	2528	4536	22877

2005	가	가	7.8	2.6	220.8	2.2	132.0	118.8	45.0	127.7	101.0	758
			3.8	0.2	151.5	18.7	61.7	49.4	14.3	323.3	1213.2	1836
			15.8	0.7	465.3	24.3	94.8	356.5	94.8	658.8	1182.5	2894
			13.0	3.0	695.4	37.2	215.9	450.3	272.3	734.8	566.2	2988
			1.2	0.6	65.1	2.1	7.2	4086.8	34.3	129.5	1106.8	5434
			1361.6	0.1	0.0	0.0	0.0	0.1	0.0	0.2	1.6	1364
			0.6	5.7	1978.0	14.0	945.2	245.2	78.3	77.1	55.3	3399
			9.1	6.2	1151.9	10.1	128.4	84.8	699.7	42.0	147.2	2279
			130.9	1.8	452.8	7.6	301.3	423.3	108.8	569.1	299.0	2295
			1544	21	5181	116	1887	5815	1348	2662	4673	23247
			2006	가	가	6.6	2.4	222.4	2.3	131.0	122.5	41.8	138.3	103.3	771
3.2	0.2	151.9				19.6	60.9	50.7	13.2	348.4	1234.7	1883
13.1	0.6	457.6				25.0	91.8	358.8	85.8	696.5	1180.5	2910
11.0	2.7	705.8				39.6	216.0	467.9	254.4	801.7	583.4	3083
1.0	0.5	65.4				2.2	7.2	4203.8	31.7	139.9	1129.0	5581
1330.5	0.1	0.1				0.0	0.0	0.1	0.0	0.2	1.8	1333
0.5	5.2	2020.0				15.0	951.2	256.3	73.7	84.6	57.4	3464
7.8	5.7	1170.7				10.7	128.6	88.3	654.7	45.9	151.9	2264
109.3	1.6	451.2				7.9	295.9	431.8	99.8	609.6	302.5	2310
1483	19	5245				122	1883	5980	1255	2865	4745	23597
2007	가	가				9.6	2.5	226.0	2.5	130.7	128.2	43.6	151.1	108.3	802
			4.5	0.2	151.6	20.9	59.7	52.1	13.5	373.8	1271.2	1948
			18.2	0.6	447.1	26.1	88.1	361.1	86.2	731.5	1189.8	2949
			15.6	2.7	703.3	42.1	211.4	480.2	260.6	858.8	599.8	3175
			1.5	0.5	64.8	2.3	7.0	4287.4	32.3	148.9	1153.3	5698
			1194.7	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.2	1196
			0.7	5.4	2056.7	16.3	951.1	268.8	77.1	92.6	60.3	3529
			11.1	5.8	1169.3	11.4	126.1	90.8	672.2	49.3	156.5	2292
			150.5	1.6	436.2	8.2	280.9	429.9	99.2	633.5	301.7	2342
			1406	19	5255	130	1855	6099	1285	3040	4842	23931

2008	가	가	9.6	2.5	222.7	2.7	128.1	131.3	44.8	159.6	111.6	813			
			4.6	0.2	150.7	22.0	59.0	53.9	14.0	398.4	1322.0	2025			
			17.8	0.6	432.3	26.7	84.7	362.9	86.8	758.2	1203.2	2973			
			15.7	2.8	695.8	44.2	207.9	493.8	268.7	910.8	620.6	3260			
			1.5	0.5	63.7	2.4	6.8	4380.4	33.1	156.9	1185.6	5831			
			1131.8	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.2	1133			
			0.7	5.6	2083.0	17.5	957.8	283.0	81.4	100.5	63.8	3593			
			10.8	5.8	1131.3	11.7	121.3	91.3	677.7	51.1	158.4	2260			
			148.1	1.6	423.5	8.4	271.2	433.9	100.3	659.3	306.3	2353			
			1341	20	5203	136	1837	6231	1307	3195	4973	24241			
			2009	가	가	13.5	2.3	228.6	2.9	128.5	132.8	46.2	168.8	113.9	837
						6.3	0.1	153.3	23.6	58.7	54.0	14.3	417.8	1336.6	2065
24.4	0.5	431.6				28.1	82.7	357.2	87.1	780.4	1194.3	2986			
21.9	2.5	708.5				47.3	207.0	495.6	274.7	956.0	628.1	3342			
2.1	0.5	66.9				2.7	7.0	4535.6	34.9	169.9	1238.2	6058			
996.9	0.0	0.0				0.0	0.0	0.0	0.0	0.1	0.8	998			
1.0	5.1	2134.2				18.9	959.3	285.7	83.7	106.2	65.0	3659			
14.9	5.1	1130.7				12.3	118.6	90.0	680.1	52.7	157.4	2262			
195.2	1.4	407.4				8.5	255.0	411.4	96.9	653.8	292.9	2322			
1276	17	5261				144	1817	6362	1318	3306	5027	24529			
2010	가	가				11.3	2.3	228.3	3.0	124.8	135.2	46.2	177.0	118.6	847
						5.2	0.1	150.7	24.1	56.1	54.1	14.1	431.1	1370.2	2106
			19.9	0.5	421.2	28.5	78.4	355.2	85.2	799.5	1215.6	3004			
			18.3	2.5	706.6	49.1	200.6	503.8	274.7	1001.1	653.5	3410			
			1.7	0.5	65.9	2.7	6.7	4555.7	34.5	175.8	1272.8	6116			
			969.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	970			
			0.9	5.2	2173.4	20.0	949.5	296.6	85.5	113.6	69.1	3714			
			12.5	5.1	1131.8	12.8	115.3	91.8	682.6	55.3	164.3	2272			
			162.5	1.4	404.2	8.8	245.9	416.0	96.4	681.1	303.2	2319			
			1202	18	5282	149	1777	6409	1319	3435	5168	24758			

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					가						
1997		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.9	4.0
		0.7	0.1	26.6	0.0	10.5	7.7	5.6	18.0	18.8	88.0
		2.8	2.5	120.4	1.2	98.1	93.4	23.3	56.8	40.9	439.4
	가	1.4	0.1	65.1	8.7	43.1	3.4	6.5	130.5	11.8	270.7
	가	0.0	0.0	2.6	0.0	0.1	30.0	0.0	2.4	89.5	124.5
	가	0.0	0.0	0.1	0.0	0.0	1.1	0.0	0.6	450.0	451.8
	가	0.0	0.0	18.3	0.0	0.2	1.4	1.3	28.1	101.1	150.4
	가	7.2	0.1	124.6	8.1	40.1	8.7	30.1	113.5	42.2	374.5
	가	0.6	0.0	5.2	0.0	0.0	8.8	0.0	0.6	72.6	87.9
	가	0.0	0.0	1.0	0.0	0.0	11.7	0.2	1.6	399.2	413.7
	가	0.4	0.7	224.4	7.2	49.4	319.1	39.5	326.5	340.1	1307.2
		5.4	3.2	470.0	23.1	156.0	246.9	156.5	320.3	369.4	1750.8
		2.0	0.5	121.3	2.9	71.0	243.3	67.0	229.2	86.2	823.3
		0.4	0.7	31.7	1.3	3.5	1708.4	24.4	82.7	772.8	2625.9
		0.2	0.0	16.9	0.0	3.2	2198.7	0.3	2.3	9.4	2231.0
		2206.8	0.2	0.1	0.0	0.0	0.3	0.0	0.3	3.6	2211.4
		1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
		0.0	6.8	42.6	0.9	909.2	13.6	4.0	7.8	4.2	989.2
		0.1	0.4	577.5	9.0	94.3	213.5	61.0	37.7	26.6	1020.1
		0.0	0.0	207.4	0.0	0.9	3.8	0.0	12.8	2.7	227.5
		0.2	0.0	874.0	0.0	0.8	39.1	0.0	0.0	11.6	925.7
		0.4	3.6	112.2	5.9	1.7	3.9	1.7	15.3	11.3	156.0
		0.0	0.1	851.0	0.8	2.0	4.1	0.2	5.4	45.8	909.4
		5.4	5.0	128.0	1.2	146.7	94.9	637.7	14.3	74.9	1108.0
		1.1	0.6	60.1	4.0	23.1	511.3	47.1	479.5	270.5	1397.3
		86.2	0.0	0.1	0.0	0.2	0.2	0.0	2.2	1.5	90.3
		0.8	2.1	393.1	2.3	349.6	30.9	57.9	19.2	11.3	867.3
		2323.8	26.7	4474.4	76.5	2003.5	5798.2	1164.6	1907.6	3271.7	21047.0

				가							
1998		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.5
		0.2	0.1	24.1	0.0	9.5	6.8	5.4	16.6	20.3	83.2
		0.9	2.6	111.7	1.3	91.1	84.2	22.9	53.5	45.0	413.1
	가	0.5	0.2	80.2	10.6	46.1	7.2	8.1	158.0	34.3	345.1
	가	0.0	0.0	1.4	0.0	0.0	27.7	0.0	1.2	112.7	143.1
	가	0.0	0.0	0.1	0.0	0.0	1.0	0.0	0.3	535.7	537.0
	가	0.0	0.0	9.9	0.0	0.1	1.3	0.7	15.0	129.2	156.2
		2.1	0.1	120.3	8.6	37.9	8.8	30.3	113.6	53.3	375.0
	가	0.1	0.0	3.8	0.0	0.0	6.8	0.0	0.5	69.6	80.8
	가	0.0	0.0	0.7	0.0	0.0	8.8	0.1	1.2	373.8	384.7
		0.1	0.6	175.5	6.2	37.9	262.4	32.1	264.5	348.3	1127.5
		1.6	3.2	416.2	23.5	138.0	211.1	146.4	286.2	382.9	1609.2
		0.6	0.5	110.7	3.0	64.7	214.3	64.5	211.0	92.1	761.4
		0.1	0.7	29.2	1.4	3.2	1504.8	24.5	79.4	855.5	2498.7
		0.1	0.0	16.9	0.0	3.2	2098.9	0.4	2.4	11.3	2133.1
		2187.3	0.8	0.3	0.0	0.1	0.7	0.1	1.0	12.2	2202.5
		1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
		0.0	7.2	41.2	1.0	865.7	12.8	4.1	7.7	4.8	944.4
		0.0	0.4	544.4	9.7	87.7	196.6	61.1	36.0	29.4	965.3
		0.0	0.0	198.5	0.0	0.8	3.5	0.0	12.4	3.0	218.3
		0.1	0.0	828.0	0.0	0.7	36.2	0.0	0.0	12.8	877.9
		0.1	3.7	100.6	6.1	1.6	3.6	1.7	14.2	12.2	143.8
		0.0	0.1	770.7	0.8	1.9	3.8	0.2	5.1	49.9	832.6
		1.6	4.9	108.9	1.2	131.9	82.6	606.8	12.6	76.6	1027.1
		0.1	0.6	52.3	4.1	20.0	457.0	44.4	438.1	283.4	1300.0
		27.4	0.0	0.7	0.0	1.0	0.9	0.0	12.4	9.7	52.1
		0.0	2.2	365.1	2.5	323.8	29.5	58.2	18.7	12.6	812.7
		2224.5	27.8	4111.4	79.9	1867.0	5271.4	1112.3	1761.8	3573.9	20030.0

				가								
1999		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.5	3.6	
		0.1	0.1	25.2	0.0	9.9	7.0	5.7	17.3	19.7	84.8	
		0.2	2.2	112.7	1.3	91.6	83.3	23.1	53.6	42.1	410.1	
	,	가	0.1	0.2	89.5	11.4	50.9	8.0	9.1	175.1	35.9	380.0
		가	0.0	0.0	1.5	0.0	0.0	29.9	0.0	1.3	114.7	147.4
		가	0.0	0.0	0.1	0.0	0.0	1.1	0.0	0.3	561.4	562.9
		가	0.0	0.0	10.7	0.0	0.1	1.4	0.8	16.0	130.7	159.7
			0.6	0.1	133.5	9.1	41.6	9.7	33.4	126.1	54.4	408.5
		가	0.0	0.0	4.2	0.0	0.0	7.4	0.0	0.5	70.2	82.4
		가	0.0	0.0	0.8	0.0	0.0	9.9	0.1	1.3	387.2	399.4
		가	0.0	0.5	184.0	6.2	39.3	273.7	33.6	277.7	336.1	1151.2
			0.4	2.8	433.9	23.6	143.2	215.8	152.9	297.8	373.0	1643.4
			0.2	0.4	113.6	3.0	66.2	215.8	66.4	216.2	88.3	770.1
			0.0	0.6	32.5	1.4	3.6	1691.1	25.9	83.7	845.3	2684.1
	,		0.0	0.0	16.1	0.0	3.1	2021.7	0.3	2.2	9.6	2053.0
			2115.2	2.5	1.3	0.0	0.3	2.7	0.4	3.7	43.3	2169.4
			1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
			0.0	6.1	43.8	1.0	880.2	13.1	4.3	8.0	4.7	961.2
	,		0.0	0.3	568.7	9.6	87.4	196.9	62.4	36.9	28.3	990.5
	,		0.0	0.0	197.7	0.0	0.8	3.4	0.0	12.1	2.7	216.7
			0.0	0.0	836.6	0.0	0.7	35.1	0.0	0.0	12.0	884.4
			0.0	3.1	102.7	5.9	1.5	3.4	1.7	14.2	11.4	144.0
			0.0	0.1	776.1	0.8	1.9	3.6	0.2	5.0	46.0	833.6
			0.4	4.2	115.1	1.2	133.0	82.1	615.4	13.0	74.1	1038.5
			0.0	0.5	56.5	4.2	21.6	462.1	47.3	443.9	268.9	1304.9
			7.2	0.0	1.2	0.0	1.9	1.4	0.0	20.7	15.1	47.5
	,		0.0	1.9	374.5	2.4	330.9	28.3	58.9	18.0	11.4	826.2
			2126.1	25.6	4232.5	80.9	1909.6	5407.8	1141.8	1844.6	3590.1	20359.1

					가						
2000		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.9	3.9
		0.0	0.1	28.7	0.0	10.5	6.4	6.3	18.1	18.4	88.5
		0.1	2.0	141.8	1.4	107.4	84.6	28.4	62.3	43.5	471.5
	가	0.1	0.1	108.5	12.4	58.8	7.1	10.8	195.7	30.8	424.2
	가	0.0	0.0	2.1	0.0	0.0	30.9	0.0	1.7	114.4	149.2
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.4	574.8	576.5
	가	0.0	0.0	14.4	0.0	0.1	1.4	1.0	19.9	124.2	161.0
		0.2	0.1	166.9	10.2	49.4	9.5	41.1	143.3	52.9	473.7
	가	0.0	0.0	5.7	0.0	0.0	8.0	0.0	0.7	75.0	89.4
	가	0.0	0.0	1.2	0.0	0.0	11.0	0.2	1.7	427.9	442.0
		0.0	0.5	253.6	7.7	51.4	296.5	45.5	348.0	359.8	1363.0
		0.2	2.5	515.1	24.8	159.6	208.3	176.8	323.9	360.8	1772.0
		0.1	0.4	136.2	3.2	74.5	210.4	77.6	237.5	86.3	826.1
		0.0	0.5	41.1	1.5	4.3	1794.3	30.7	93.6	837.0	2803.0
		0.0	0.0	17.9	0.0	3.3	1881.6	0.3	2.1	8.3	1913.6
		1905.2	5.5	4.0	0.0	0.8	6.5	1.2	10.3	105.7	2039.2
		1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
		0.0	4.8	49.9	1.0	877.4	11.7	4.6	8.1	4.2	961.8
		0.0	0.3	629.5	8.9	84.7	171.5	64.3	36.4	24.9	1020.4
		0.0	0.0	197.6	0.0	0.7	2.6	0.0	10.8	2.2	213.9
		0.0	0.0	865.3	0.0	0.6	28.6	0.0	0.0	9.8	904.3
		0.0	2.4	115.2	5.7	1.4	2.7	1.6	13.8	9.6	152.5
		0.0	0.1	839.7	0.7	1.6	2.8	0.2	4.7	37.6	887.4
		0.1	3.6	147.1	1.3	139.1	75.0	665.9	14.4	71.5	1118.2
		0.0	0.5	74.2	4.5	26.9	433.5	57.5	461.0	247.1	1305.1
		2.5	0.0	2.2	0.0	3.1	1.8	0.0	28.8	18.6	57.0
		0.0	1.5	416.9	2.2	349.9	22.5	60.7	15.9	8.9	878.5
	1909.9	24.9	4774.8	85.5	2005.7	5310.4	1274.7	2053.2	3658.0	21097.2	

				가							
2001		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.0	4.0
		0.3	0.1	29.3	0.0	10.3	6.2	6.5	19.0	19.1	90.9
		1.4	2.6	161.6	1.6	118.0	92.1	32.7	73.1	50.5	533.7
	가	0.8	0.2	115.5	13.6	60.3	7.6	11.5	212.6	34.5	456.6
	가	0.0	0.0	2.1	0.0	0.0	31.1	0.0	1.8	120.3	155.4
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.5	606.8	608.5
	가	0.0	0.0	14.2	0.0	0.1	1.4	1.0	20.1	129.3	166.2
		3.7	0.1	185.5	11.8	53.2	10.3	46.0	163.2	60.4	534.2
	가	0.2	0.0	5.9	0.0	0.0	8.1	0.0	0.7	79.8	94.7
	가	0.0	0.0	1.2	0.0	0.0	11.3	0.2	1.8	461.7	476.3
		0.1	0.7	276.4	8.7	54.3	314.8	49.9	388.5	403.2	1496.6
		2.3	2.9	534.1	26.7	161.0	208.9	185.0	344.0	374.1	1839.1
		0.9	0.4	140.6	3.4	74.8	209.9	80.8	251.0	89.1	850.8
		0.2	0.7	44.6	1.6	4.6	1923.9	32.5	100.6	878.6	2987.3
		0.1	0.0	17.3	0.0	3.1	1797.1	0.3	2.0	7.8	1827.7
		1812.4	0.4	0.3	0.0	0.1	0.4	0.1	0.7	6.9	1821.2
		1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
		0.0	5.7	54.8	1.1	879.2	12.3	5.0	9.0	4.6	971.7
		0.1	0.3	655.8	9.5	80.5	169.9	66.2	38.3	25.6	1046.1
		0.0	0.0	196.1	0.0	0.6	2.5	0.0	10.8	2.1	212.1
		0.1	0.0	880.5	0.0	0.6	27.6	0.0	0.0	9.9	918.7
		0.1	2.7	117.3	6.0	1.3	2.6	1.6	14.1	9.5	155.2
		0.0	0.1	857.2	0.7	1.5	2.6	0.2	4.8	37.3	904.5
		2.1	4.4	159.5	1.5	139.4	74.9	691.2	15.7	75.4	1164.0
		0.1	0.6	75.4	4.7	26.7	424.3	58.8	494.3	260.8	1345.7
		36.5	0.0	0.9	0.0	1.2	0.7	0.0	11.9	7.6	58.7
		0.1	1.8	422.5	2.3	345.7	21.9	61.8	17.0	9.3	882.3
		1862.9	23.8	4948.7	93.2	2016.5	5363.6	1331.2	2195.6	3768.1	21603.7

				가							
2002		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.0	4.1
		0.5	0.1	29.5	0.0	10.1	6.3	6.5	20.0	20.0	92.9
		2.4	2.5	171.1	1.7	120.6	98.0	34.5	80.7	55.4	566.9
	가	1.4	0.2	121.3	14.5	60.6	8.6	12.0	231.4	40.2	490.2
	가	0.0	0.0	2.0	0.0	0.0	31.9	0.0	1.8	126.9	162.7
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.5	645.0	646.7
	가	0.0	0.0	13.5	0.0	0.1	1.5	0.9	19.8	136.6	172.4
		6.1	0.1	199.9	12.9	55.1	11.6	49.0	184.3	68.7	587.7
	가	0.3	0.0	5.8	0.0	0.0	8.2	0.0	0.7	82.6	97.7
	가	0.0	0.0	1.2	0.0	0.0	11.7	0.2	1.9	484.7	499.7
	가	0.2	0.6	274.5	8.7	51.8	325.3	49.0	404.3	422.7	1537.1
		3.8	2.8	544.2	28.0	159.1	215.5	187.9	365.1	391.2	1897.6
		1.4	0.4	141.6	3.6	73.1	214.2	81.1	263.5	92.1	870.9
		0.4	0.6	46.8	1.7	4.8	2092.3	32.9	106.5	917.6	3203.7
		0.1	0.0	16.0	0.0	2.8	1724.5	0.3	1.9	7.2	1752.9
		1708.5	0.2	0.2	0.0	0.0	0.2	0.0	0.4	4.2	1713.8
		1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
		0.0	5.5	61.8	1.3	883.4	13.7	5.5	10.4	5.2	986.8
		0.1	0.3	685.7	10.0	75.0	176.7	67.6	40.8	27.0	1083.2
		0.0	0.0	196.8	0.0	0.6	2.5	0.0	11.1	2.2	213.1
		0.1	0.0	897.8	0.0	0.5	28.0	0.0	0.0	10.2	936.7
		0.2	2.4	117.3	6.2	1.2	2.5	1.5	14.5	9.6	155.5
		0.0	0.1	859.0	0.8	1.5	2.6	0.2	4.9	37.6	906.6
		3.4	4.2	166.3	1.6	136.1	76.3	693.4	16.8	79.2	1177.3
		0.3	0.5	73.0	4.8	25.0	423.8	57.1	513.6	268.2	1366.3
		57.3	0.0	0.4	0.0	0.6	0.4	0.0	6.7	4.2	69.7
		0.2	1.7	420.5	2.4	332.8	22.5	61.7	18.1	9.8	869.6
		1787.8	22.1	5046.4	98.2	1994.8	5500.2	1341.3	2319.6	3952.3	22062.7

				가							
2003		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
		0.8	0.1	28.7	0.0	9.5	6.2	6.2	20.6	22.2	94.3
		4.2	2.6	175.9	1.9	119.7	101.6	35.0	87.8	65.1	593.8
	가	2.5	0.2	129.5	15.9	60.8	11.6	12.5	258.8	64.7	556.4
	가	0.0	0.0	1.5	0.0	0.0	31.1	0.0	1.4	147.2	181.2
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.4	732.2	733.8
	가	0.0	0.0	10.6	0.0	0.1	1.4	0.7	16.2	160.8	189.8
		10.2	0.1	206.7	13.8	54.5	12.7	49.4	203.4	86.6	637.4
	가	0.5	0.0	5.0	0.0	0.0	7.5	0.0	0.7	86.0	99.6
	가	0.0	0.0	1.1	0.0	0.0	10.6	0.2	1.8	505.9	519.5
	가	0.3	0.6	253.5	8.4	45.8	319.0	44.1	398.7	475.6	1546.0
		6.4	2.8	539.3	29.4	152.7	216.2	183.5	382.0	436.4	1948.7
		2.4	0.4	140.4	3.7	70.2	215.0	79.3	275.8	102.8	889.9
		0.7	0.6	47.9	1.8	4.8	2204.1	32.5	112.8	1035.0	3440.3
		0.2	0.0	15.0	0.0	2.6	1665.7	0.3	1.9	7.4	1693.0
		1554.0	0.1	0.1	0.0	0.0	0.1	0.0	0.2	2.5	1557.1
		1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
		0.0	5.7	70.0	1.5	883.0	15.6	6.0	12.2	6.6	1000.6
		0.2	0.2	707.9	10.7	68.3	182.6	67.8	43.7	31.0	1112.3
		0.0	0.0	196.7	0.0	0.5	2.5	0.0	11.5	2.4	213.5
		0.2	0.0	912.7	0.0	0.5	28.5	0.0	0.0	11.5	953.4
		0.4	2.4	114.6	6.5	1.2	2.5	1.5	14.9	10.5	154.3
		0.0	0.1	848.4	0.8	1.4	2.6	0.2	5.1	41.5	900.1
		5.8	4.2	166.4	1.7	130.4	76.5	675.6	17.7	88.6	1166.9
		1.4	0.5	65.6	4.7	21.6	408.6	51.8	521.3	290.8	1366.2
		92.4	0.0	0.1	0.0	0.2	0.1	0.0	2.0	1.3	96.0
		1.0	1.6	406.0	2.5	309.8	23.3	60.1	19.8	11.5	835.6
		1684.6	22.3	5043.7	103.4	1937.4	5546.6	1306.5	2410.5	4430.0	22485.0

				가							
2004		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
		0.9	0.1	29.1	0.0	9.3	6.3	6.4	21.6	22.5	96.1
		5.0	2.5	184.2	2.0	121.5	106.0	37.1	95.1	68.3	621.6
	가	2.9	0.2	137.3	17.3	62.2	12.8	13.4	283.1	71.6	600.9
	가	0.0	0.0	1.5	0.0	0.0	32.2	0.0	1.5	152.9	188.1
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.4	771.7	773.4
	가	0.0	0.0	10.5	0.0	0.1	1.5	0.7	16.6	166.6	196.0
		11.6	0.1	219.9	14.9	55.8	14.1	52.9	226.0	93.0	688.3
	가	0.5	0.0	5.0	0.0	0.0	7.8	0.0	0.7	86.8	100.7
	가	0.0	0.0	1.1	0.0	0.0	11.2	0.2	1.9	520.2	534.6
	가	0.3	0.5	245.2	8.2	42.6	320.4	42.9	402.5	464.2	1526.9
		7.3	2.6	548.8	30.9	151.2	220.8	189.5	402.7	443.2	1997.0
		2.7	0.4	141.1	3.9	68.6	216.8	80.8	287.1	103.1	904.4
		0.8	0.6	50.9	1.9	5.0	2399.0	34.0	120.3	1064.9	3677.3
		0.2	0.0	14.0	0.0	2.4	1585.7	0.2	1.7	6.7	1610.9
		1470.9	0.1	0.1	0.0	0.0	0.1	0.0	0.2	2.1	1473.5
		1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
		0.0	5.3	78.0	1.7	884.0	17.1	6.7	13.7	7.2	1013.6
		0.2	0.2	735.5	11.3	63.8	186.9	70.0	46.0	31.6	1145.7
		0.0	0.0	196.2	0.0	0.4	2.4	0.0	11.6	2.3	213.1
		0.3	0.0	926.1	0.0	0.4	28.5	0.0	0.0	11.5	966.8
		0.4	2.1	114.7	6.7	1.1	2.4	1.4	15.2	10.3	154.4
		0.0	0.1	850.0	0.8	1.3	2.5	0.2	5.2	40.9	901.0
		6.6	3.9	172.4	1.8	127.6	77.1	689.4	18.7	90.1	1187.7
		1.9	0.4	64.7	4.8	20.7	405.0	51.8	534.4	288.0	1371.8
		101.9	0.0	0.1	0.0	0.1	0.1	0.0	1.6	1.1	104.9
		1.4	1.5	403.2	2.6	298.6	23.3	60.6	20.4	11.4	823.0
		1616.9	20.5	5129.5	108.8	1916.7	5681.3	1338.3	2528.3	4536.4	22876.8

				가							
2005		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.5	4.5
		1.3	0.1	32.3	0.0	10.1	7.1	7.1	25.2	25.4	108.6
		6.5	2.6	188.5	2.2	121.9	111.6	37.9	102.5	71.1	644.9
	가	3.8	0.2	137.7	18.7	61.6	12.2	13.5	301.1	70.9	619.5
	가	0.0	0.0	1.7	0.0	0.0	34.5	0.0	1.7	171.2	209.2
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.4	783.0	784.7
	가	0.0	0.0	12.0	0.0	0.1	1.6	0.8	20.1	188.1	222.7
		14.8	0.1	227.3	16.1	55.8	15.4	54.2	249.3	99.6	732.8
	가	0.6	0.0	4.8	0.0	0.0	8.0	0.0	0.7	88.0	102.3
	가	0.0	0.0	1.1	0.0	0.0	11.9	0.2	2.0	539.1	554.2
	가	0.4	0.5	232.1	8.1	39.0	321.2	40.4	406.8	455.7	1504.3
		9.6	2.6	554.8	33.1	149.2	228.9	191.7	431.6	460.7	2062.2
		3.4	0.4	140.6	4.1	66.7	221.4	80.6	303.2	105.6	925.9
		1.0	0.6	52.5	2.1	5.1	2588.3	34.1	127.9	1100.7	3912.3
		0.2	0.0	12.6	0.0	2.1	1498.5	0.2	1.6	6.0	1521.3
		1360.7	0.1	0.0	0.0	0.0	0.1	0.0	0.2	1.6	1362.6
		0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
		0.0	5.5	86.2	1.9	884.7	19.0	7.2	15.7	8.1	1028.4
		0.2	0.2	759.8	12.1	59.7	194.6	71.1	49.3	33.1	1180.3
		0.0	0.0	195.2	0.0	0.4	2.4	0.0	12.0	2.4	212.3
		0.3	0.0	936.9	0.0	0.4	29.1	0.0	0.0	11.8	978.5
		0.5	2.1	114.8	7.1	1.0	2.4	1.4	16.0	10.5	156.0
		0.0	0.1	858.3	0.9	1.3	2.5	0.2	5.6	41.9	910.7
		8.6	4.0	178.7	2.0	126.1	79.9	698.1	20.4	94.9	1212.8
		4.2	0.4	61.5	4.9	19.2	399.8	49.5	546.8	286.8	1373.1
		123.6	0.0	0.0	0.0	0.1	0.0	0.0	0.9	0.6	125.3
		3.1	1.4	391.3	2.7	282.1	23.5	59.2	21.3	11.6	796.3
		1543.9	20.9	5180.9	116.2	1886.5	5815.2	1347.5	2662.5	4672.8	23246.5

				가							
2006		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.9	5.0
		1.2	0.1	36.1	0.0	11.2	8.3	7.3	30.1	28.4	122.8
		5.4	2.3	186.2	2.3	119.8	114.1	34.5	108.1	70.0	642.8
	가	3.2	0.2	135.5	19.6	60.8	10.8	12.3	319.9	64.3	626.6
	가	0.0	0.0	2.1	0.0	0.0	37.0	0.0	2.2	186.5	227.8
	가	0.0	0.0	0.1	0.0	0.0	1.2	0.0	0.5	778.4	780.1
	가	0.0	0.0	14.2	0.0	0.1	1.7	0.9	25.8	205.5	248.3
	가	12.3	0.1	237.2	17.3	56.7	17.3	51.6	283.7	106.4	782.7
	가	0.5	0.0	4.8	0.0	0.0	8.6	0.0	0.8	89.0	103.7
	가	0.0	0.0	1.1	0.0	0.0	12.9	0.2	2.2	554.5	570.8
	가	0.3	0.5	214.5	7.7	35.1	320.1	34.0	409.8	430.6	1452.5
		8.2	2.4	565.5	35.3	150.3	240.3	180.3	475.1	476.6	2133.9
		2.8	0.3	140.2	4.3	65.7	227.6	74.1	326.6	106.9	948.6
		0.9	0.5	54.1	2.2	5.3	2796.5	31.6	138.4	1123.7	4153.1
		0.1	0.0	11.3	0.0	1.9	1407.4	0.2	1.5	5.4	1427.7
		1329.6	0.1	0.1	0.0	0.0	0.1	0.0	0.2	1.8	1331.9
		0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
		0.0	5.0	93.7	2.1	893.0	20.9	7.1	18.1	8.8	1048.8
		0.2	0.2	787.4	12.9	57.4	203.4	66.6	54.0	34.4	1216.4
		0.0	0.0	193.5	0.0	0.4	2.4	0.0	12.5	2.3	211.2
		0.3	0.0	945.3	0.0	0.4	29.6	0.0	0.0	11.9	987.5
		0.4	1.9	115.1	7.5	1.0	2.3	1.2	16.9	10.3	156.5
		0.0	0.1	863.1	1.0	1.2	2.4	0.1	5.9	41.3	915.2
		7.4	3.8	192.5	2.3	126.4	83.5	653.3	23.1	100.3	1192.6
		3.0	0.4	60.2	5.1	18.5	407.3	45.0	585.1	289.8	1414.3
		104.1	0.0	0.1	0.0	0.1	0.1	0.0	1.2	0.7	106.2
		2.2	1.3	390.9	2.9	277.4	24.4	54.8	23.3	12.0	789.3
		1483.0	19.1	5245.0	122.4	1882.7	5980.3	1255.1	2865.1	4744.5	23597.1

					가						
2007		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	5.4	5.5
		1.9	0.1	39.6	0.0	12.2	9.4	8.2	35.3	31.6	138.4
		7.6	2.4	186.4	2.5	118.6	118.7	35.4	115.7	71.2	658.5
		4.5	0.2	132.6	20.9	59.6	9.8	12.5	338.2	59.9	638.1
	가	0.0	0.0	2.4	0.0	0.0	39.4	0.0	2.8	205.4	250.0
	가	0.0	0.0	0.1	0.0	0.0	1.1	0.0	0.5	778.5	780.2
	가	0.0	0.0	16.5	0.0	0.1	1.8	1.1	32.3	227.4	279.3
		17.2	0.2	240.4	18.4	56.0	18.7	53.5	311.8	111.2	827.4
	가	0.6	0.0	4.7	0.0	0.0	8.9	0.0	0.8	89.7	104.8
	가	0.0	0.0	1.1	0.0	0.0	13.7	0.2	2.4	572.7	590.1
	가	0.4	0.4	200.9	7.6	32.1	319.7	32.6	416.4	416.2	1426.3
		11.7	2.4	565.6	37.6	147.8	248.8	185.6	512.6	491.5	2203.6
		4.0	0.3	137.8	4.5	63.5	231.4	75.0	346.2	108.3	971.0
		1.3	0.5	54.8	2.3	5.3	2976.1	32.2	147.5	1148.6	4368.5
		0.2	0.0	10.0	0.0	1.7	1311.4	0.1	1.4	4.8	1329.6
		1193.9	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.2	1195.4
		0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
		0.0	5.2	102.4	2.5	896.2	23.2	7.9	20.9	9.8	1068.1
		0.3	0.2	808.5	13.8	54.2	212.7	69.2	58.6	35.9	1253.3
		0.0	0.0	192.0	0.0	0.3	2.5	0.0	13.1	2.4	210.4
		0.4	0.0	953.8	0.0	0.3	30.4	0.0	0.0	12.2	997.2
		0.6	1.9	113.5	8.0	0.9	2.4	1.2	18.0	10.5	156.9
		0.0	0.1	863.6	1.0	1.2	2.5	0.1	6.4	42.7	917.6
		10.5	3.8	192.1	2.4	124.0	85.9	670.8	24.9	103.3	1217.9
		7.5	0.3	57.0	5.2	17.1	405.0	44.1	608.1	289.0	1433.4
		137.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	138.3
		5.8	1.3	379.2	3.0	263.8	24.9	55.1	24.8	12.3	770.1
	1406.4	19.3	5255.0	129.7	1855.0	6098.6	1284.8	3039.7	4842.0	23930.6	

				가							
2008		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	6.0	6.1
		2.2	0.1	44.2	0.0	13.7	11.1	9.6	41.9	36.0	158.8
		7.4	2.4	178.5	2.7	114.4	120.1	35.3	117.7	69.6	648.0
	가	4.6	0.2	128.5	22.0	58.9	8.7	12.7	353.4	55.3	644.1
	가	0.0	0.0	2.8	0.0	0.0	42.1	0.0	3.5	227.9	276.4
	가	0.0	0.0	0.1	0.0	0.0	1.1	0.0	0.6	784.1	785.9
	가	0.0	0.0	19.4	0.0	0.1	2.0	1.4	41.0	254.6	318.4
		16.9	0.2	246.2	19.6	56.4	21.2	56.5	347.6	121.0	885.6
	가	0.6	0.0	4.5	0.0	0.0	9.5	0.0	0.9	91.6	107.0
	가	0.0	0.0	1.1	0.0	0.0	14.8	0.2	2.5	593.6	612.2
	가	0.3	0.4	180.5	7.1	28.3	317.4	30.2	407.2	397.1	1368.5
		11.7	2.5	561.7	39.6	146.3	258.3	192.5	548.0	510.4	2270.9
		3.9	0.3	134.1	4.6	61.6	235.5	76.2	362.8	110.2	989.4
		1.3	0.5	54.9	2.4	5.3	3161.1	33.0	155.6	1181.3	4595.5
		0.2	0.0	8.8	0.0	1.5	1219.3	0.1	1.3	4.3	1235.5
		1131.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.2	1132.5
		0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
		0.0	5.4	107.2	2.7	904.5	25.3	8.6	23.4	10.7	1087.8
		0.3	0.2	814.8	14.8	52.6	222.9	72.8	63.2	37.8	1279.5
		0.0	0.0	188.8	0.0	0.3	2.5	0.0	13.9	2.4	207.9
		0.4	0.0	972.1	0.0	0.3	32.2	0.0	0.0	13.0	1018.1
		0.6	1.9	109.6	8.2	1.0	2.5	1.3	19.1	11.0	155.3
		0.0	0.1	846.0	1.1	1.2	2.7	0.2	6.9	45.3	903.4
		10.3	3.7	175.6	2.4	119.2	86.1	676.3	25.1	102.2	1200.9
		7.8	0.3	54.0	5.3	16.1	408.1	43.9	632.2	293.2	1460.9
		134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	135.1
		6.2	1.3	369.5	3.1	255.1	25.8	56.4	26.5	12.8	756.7
	1340.5	19.6	5203.0	135.7	1837.0	6230.6	1306.9	3195.0	4972.7	24241.1	

					가							
2009		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	6.5	6.6	
		3.3	0.1	48.5	0.0	14.8	12.1	10.5	47.1	38.7	175.2	
		10.2	2.2	180.1	2.9	113.7	120.6	35.7	121.7	68.7	655.6	
		가	6.3	0.1	126.9	23.6	58.5	7.5	12.7	362.3	49.5	647.4
		가	0.0	0.0	3.3	0.0	0.1	43.5	0.0	4.3	245.6	296.8
		가	0.0	0.0	0.1	0.0	0.0	1.0	0.0	0.7	767.6	769.4
		가	0.0	0.0	23.0	0.0	0.2	2.0	1.6	50.5	273.8	351.2
			23.1	0.2	251.3	20.9	56.0	21.8	57.7	368.0	121.5	920.5
		가	0.8	0.0	4.5	0.0	0.0	9.6	0.0	0.9	90.5	106.3
		가	0.0	0.0	1.1	0.0	0.0	15.5	0.2	2.7	604.0	623.4
		가	0.4	0.4	174.7	7.2	26.7	310.3	29.2	408.8	378.3	1336.0
			16.4	2.2	573.0	42.5	146.0	260.5	197.3	577.5	517.5	2332.9
			5.5	0.3	135.5	4.9	60.9	235.1	77.4	378.5	110.6	1008.6
			1.9	0.5	58.7	2.7	5.6	3388.6	34.8	168.7	1234.2	4895.6
			0.2	0.0	8.2	0.0	1.4	1147.0	0.1	1.2	4.0	1162.1
			996.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	997.2
			0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
			0.0	4.9	119.9	3.1	909.0	27.2	9.3	26.1	11.6	1111.2
			0.5	0.1	856.3	15.8	49.7	225.2	74.4	66.2	38.5	1326.8
			0.0	0.0	189.1	0.0	0.3	2.4	0.0	13.8	2.4	208.1
			0.6	0.0	968.8	0.0	0.3	30.9	0.0	0.0	12.5	1013.2
			0.8	1.7	108.5	8.6	0.9	2.4	1.3	19.3	10.6	153.9
			0.0	0.1	840.9	1.1	1.1	2.6	0.1	7.0	43.9	896.8
			14.1	3.3	181.4	2.6	116.5	85.0	678.6	26.4	102.9	1210.9
			16.3	0.3	52.5	5.4	15.3	387.2	42.7	627.5	280.6	1427.9
			166.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	166.8
			12.7	1.1	354.8	3.2	239.7	24.1	54.2	26.0	12.1	727.7
		1276.1	17.4	5261.2	144.3	1816.8	6362.2	1317.8	3305.7	5027.1	24528.6	

				가							
2010		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	7.0	7.1
		3.0	0.1	53.7	0.0	16.2	13.9	11.6	54.3	43.7	196.5
		8.2	2.2	174.6	3.0	108.6	121.2	34.6	122.8	67.9	643.0
	가	5.2	0.1	120.3	24.1	55.8	6.3	12.2	363.5	44.8	632.4
	가	0.0	0.0	3.8	0.0	0.1	44.7	0.0	5.2	268.1	321.8
	가	0.0	0.0	0.1	0.0	0.0	0.9	0.0	0.8	756.6	758.4
	가	0.0	0.0	26.5	0.0	0.2	2.1	1.9	61.5	300.8	393.0
		19.0	0.2	258.0	21.9	55.3	24.4	58.8	402.5	134.4	974.5
	가	0.6	0.0	4.3	0.0	0.0	9.9	0.0	0.9	92.2	107.9
	가	0.0	0.0	1.0	0.0	0.0	16.1	0.2	2.7	620.8	640.9
	가	0.3	0.3	157.8	6.6	23.1	304.9	26.2	393.4	368.2	1280.9
		13.8	2.2	573.1	44.1	142.2	266.6	198.1	608.2	539.8	2388.0
		4.5	0.3	133.6	5.0	58.5	237.2	76.6	393.0	113.8	1022.4
		1.6	0.5	58.7	2.7	5.5	3508.5	34.4	174.7	1269.2	5055.8
		0.1	0.0	7.3	0.0	1.2	1047.2	0.1	1.1	3.6	1060.7
		968.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	969.7
		0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
		0.0	5.0	132.5	3.5	903.1	30.2	10.2	29.6	13.1	1127.3
		0.4	0.1	880.1	16.5	45.9	232.8	75.3	69.9	40.6	1361.6
		0.0	0.0	187.0	0.0	0.3	2.4	0.0	14.0	2.4	206.1
		0.5	0.0	973.8	0.0	0.3	31.2	0.0	0.0	12.9	1018.8
		0.6	1.6	107.6	8.9	0.8	2.3	1.2	19.9	10.8	153.8
		0.0	0.1	837.9	1.2	1.1	2.6	0.1	7.2	44.9	895.0
		11.8	3.4	186.3	2.8	113.4	86.9	681.2	28.2	108.6	1222.7
		12.0	0.3	51.2	5.5	14.5	391.1	42.0	653.0	290.2	1459.9
		140.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	141.7
		9.6	1.1	352.9	3.3	231.4	24.9	54.4	27.6	12.7	717.9
		1201.6	17.5	5282.1	149.1	1777.4	6408.6	1319.3	3434.6	5168.3	24758.4