

2004

구분	2002	2003	2004
특허 출원건수	16	36	232
특허 등록건수	3	16	232
특허 출원액 (백만원)	16	36	232
특허 등록액 (백만원)	3	16	232
특허 출원건수/1인당	16	36	232
특허 등록건수/1인당	3	16	232
특허 출원액/1인당 (백만원)	16	36	232
특허 등록액/1인당 (백만원)	3	16	232
특허 출원건수/1인당 (LQ)	16	36	232
특허 등록건수/1인당 (LQ)	3	16	232
특허 출원액/1인당 (LQ)	16	36	232
특허 등록액/1인당 (LQ)	3	16	232
특허 출원건수/1인당 (LQ)	16	36	232
특허 등록건수/1인당 (LQ)	3	16	232
특허 출원액/1인당 (LQ)	16	36	232
특허 등록액/1인당 (LQ)	3	16	232

1) Griliches, Z., "Patents Statistics as Economic Indicators : A Survey", Journal of Economic Literature. Vol. 18, No. 4, p1669(1990)
 2) () 가
 3) (IPC, International Patent Classification) : 1954
 (WIPO) 가 1968 9
 4) 2 IPC 2 가

Herfindahl Index),
Rate),
가 HHI (Hirschman -
DR(Dependency
32
2003」
2004」
2004 12 「
2004」 2003
가
2004 7 2
1990
1990
「
2004」
WIPO

(Section)	(Subsection)	(Class)	
(A)	1	A01(A01N)	, , ,
	2	A21 ~ A24	, , ,
	3	가 A41 ~ A47	, , 가
	4	/ A61 ~ A63(A61K)	, , , , ,
	5	A61K(Subclass)	, ,
(B)	6	/ B01 ~ B09	, , , , ,
	7	가 B21 ~ B23	, , 가 , , ,
	8	가 B24 ~ B32(B31)	, , , , .
	9	B41 ~ B44	, , , ,
	10	/ B60~ B64· B65 ~ B68	, , , , , , , ,
	11	B81 ~ B82	.
(C)	12	/ C01 ~ C05	, , , , , ,
	13	C07·A01N(Subclass)	, , , ,
	14	C08	, , ,
	15	/ C09~ C11	, , , 가 , , ,
	16	C12 ~ C14	, , , , , , ,
	17	/ C21 ~ C23·C25·C30	, , ,
(D)	18	D01 ~ D07	, , , , , , , ,
	19	D21, B31	, , , ,
(E)	20	E01 ~ E06	, , , , , ,
	21	E21	, , , ,
(F)	22	/ F01 ~ F04	, , , , ,
	23	F15·F16·F17	, , , , , , ,
	24	/가 F21 ~ F28	, , , , , , ,
	25	/ F41·F42·C06	, , , , ,
(G)	26	/ G01 ~ G03	, , , , , ,
	27	G04~ G08	, , , , , , , ,
	28	G09~ G12	, , , , , , .
	29	G21	,
(H)	30	/ H01·H02·H05	, , , , , , , , PCB
	31	/ H03·H04	, , , , ,
	32		

		2002	2003	2004	2002	2003	2004
					x		
					x		
					x		
					x		
		-	-	-	x		
		-	-	-	x		
	가				x		
					-	-	-
		x			-	-	-
					x	-	-
					x	-	-
		-	-	-	x		
		-	-	-	x		
		-	-	-	x		
		-	-	-	x		
	IPC				x		
	IPC				x		
					x		
	가				x		
					x		
		x	x		-	-	-
		-	-	-	x		
		-	-	-	x	x	
		-	-	-	x	x	
		-	-	-	x	x	
		-	-	-	x	x	
		x	x		x	-	-
		x	x		x	-	-
		x	x		x	-	-
		x	x		x	-	-
		-	-	-	x	x	
					x		

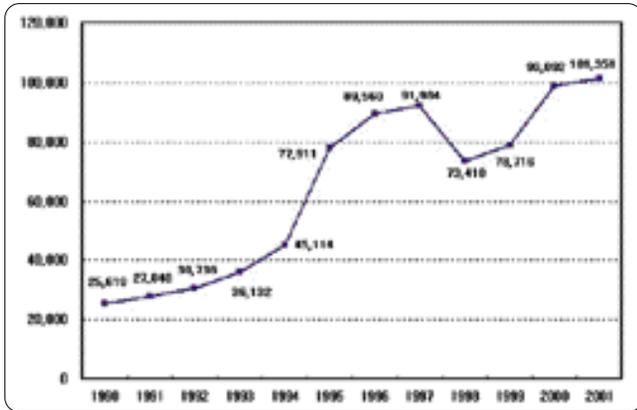
< 2. >

-) 1.
- 2. " - " , " x " 가 , " " 가 .

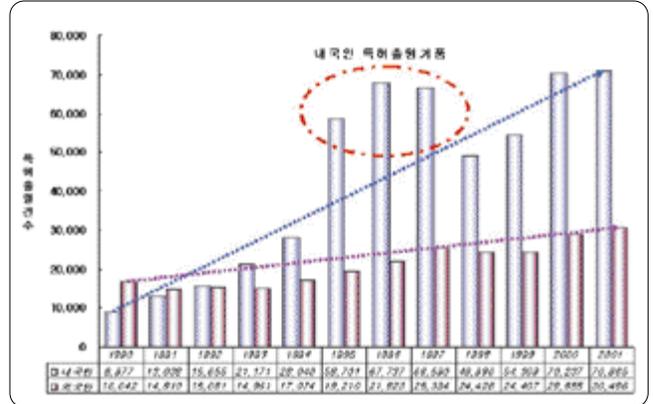
. '90 25,000 2001
 100,000 12 가 4 가
 3.1 가 . '90 46 가 2001
 62 가 가
 '90~2001 가 가 .

가

< 1> < 3>



< 1. >



< 2. >

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
가	46	46	49	55	56	55	55	61	65	58	68	62

< 3. 가 >

2003 12 31

2004 4 10

< 2 >

'90

, '95

2

가

5

6)

, '97

'98

2000

가

가

5)

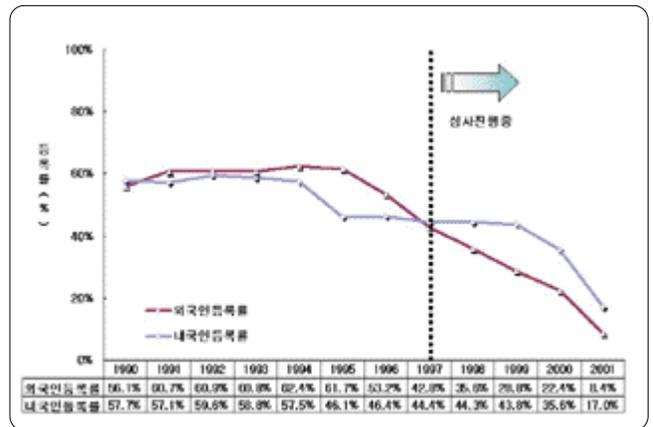
'90~'93

< 3 >

60%

, '95

가 10%



< 3. >

5)

2003

5

2

'96

'97

'97

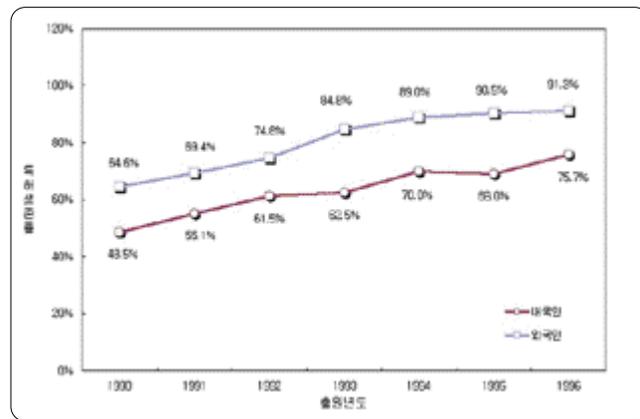
6) <http://www.etnews.co.kr/news/print.html?id=200411210053> (2004. 11. 22)

'90~2001
 가 < 4>
 가 1 2 가 10%
 3

가 53,686 (10.2%) /
 20,505 (8.1%)
 가 가
 29.9% / 10.0% /
 가 1.0
 , BT / ,
 / ,
 가가 BT , /
 가

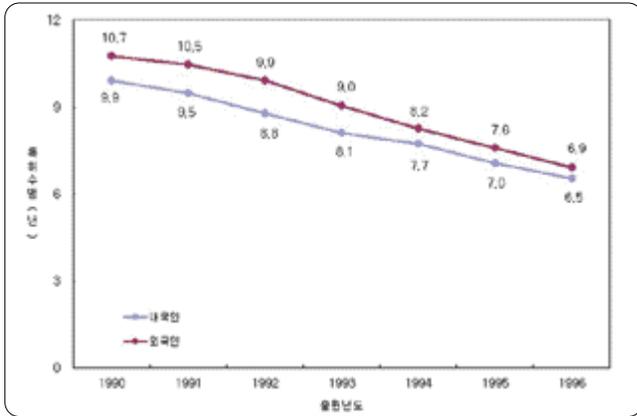
			가			가	
/	93,691	17.9%	18.7%	41,601	16.4%	10.0%	0.44
/	81,918	15.6%	18.8%	21,993	8.7%	10.0%	0.27
/	53,686	10.2%	29.9%	13,332	5.3%	2.7%	0.25
	43,075	8.2%	25.9%	13,258	5.2%	9.4%	0.31
	35,016	6.7%	15.4%	15,419	6.1%	7.0%	0.44
/	29,303	5.6%	22.9%	18,291	7.2%	8.5%	0.62
/가	23,172	4.4%	24.6%	4,571	1.8%	1.6%	0.20
/	18,525	3.5%	27.5%	6,971	2.8%	4.2%	0.38
	12,208	2.3%	25.5%	6,880	2.7%	3.6%	0.56
	11,686	2.2%	27.0%	2,958	1.2%	3.0%	0.25
	10,907	2.1%	12.8%	4,045	1.6%	0.0%	0.37
/	10,438	2.0%	19.2%	5,205	2.1%	2.3%	0.50
가	10,018	1.9%	26.8%	5,755	2.3%	2.0%	0.57
가	9,984	1.9%	24.7%	3,077	1.2%	4.7%	0.31
	9,934	1.9%	16.9%	1,989	0.8%	-1.7%	0.20
가	9,660	1.8%	17.7%	7,064	2.8%	1.8%	0.73
/	7,662	1.5%	20.3%	5,385	2.1%	5.4%	0.70
	7,638	1.5%	11.2%	12,261	4.8%	0.1%	1.61
/	7,266	1.4%	26.9%	6,971	2.8%	4.1%	0.96
/	7,165	1.4%	28.3%	7,582	3.0%	8.4%	1.06
/	5,421	1.0%	14.0%	7,401	2.9%	3.5%	1.37
	5,226	1.0%	20.1%	9,499	3.8%	7.0%	1.82
	5,141	1.0%	7.1%	2,974	1.2%	1.9%	0.58
	5,118	1.0%	13.7%	20,505	8.1%	1.2%	4.01
	4,068	0.8%	17.8%	4,126	1.6%	6.1%	1.01
	3,906	0.7%	26.4%	1,197	0.5%	7.7%	0.31
	972	0.2%	14.9%	1,333	0.5%	3.9%	1.37
/	587	0.1%	14.4%	547	0.2%	3.0%	0.93
	445	0.1%	29.4%	261	0.1%	-1.8%	0.59
	383	0.1%	27.9%	670	0.3%	-7.0%	1.75
	91	0.0%		50	0.0%		0.55

가 1.0
 , BT / ,
 / ,
 가가 BT , /
 가
 '90~'96
 8) 9) < 4> < 5>
 '96
 91.3%가

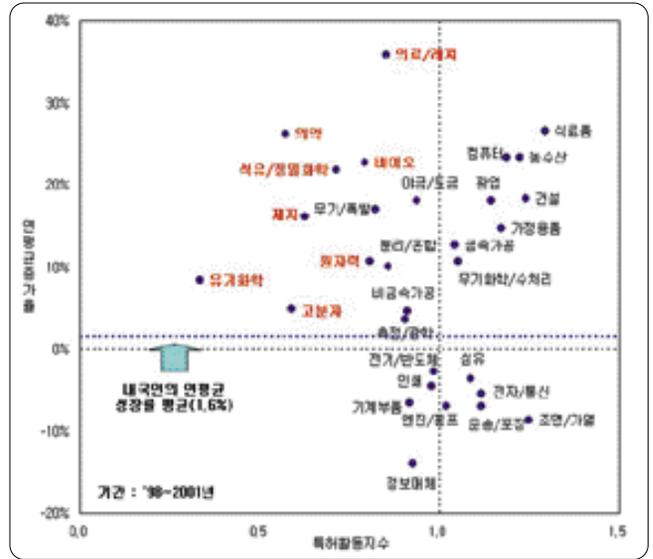


< 4. >

7) '99 () p653
 8) 20 가 3 가 가 2004
 4 10
 9) 가 20 가 ,



< 5. >



< 6. vs 가 >

'98~2001
(Activity Index)

가 < 6> < 7>
가

가

1

가 가 (=1.6%)

가

가 가

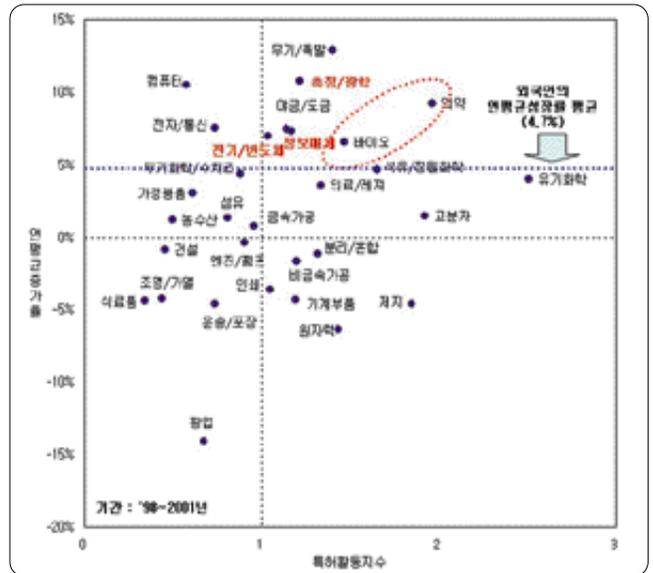
< 4>

가 1.0 8

가

(=1.6%)

15% 가



< 7. vs 가 >

BT
가 DVD

가

가

가

가

가

가

< 5>

'90~2001

가

20.1%

가

15%

가

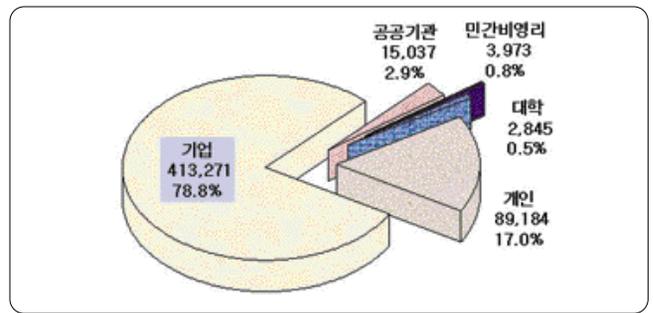
'90~2001 20 가 3.2

11) < 11 > 58.8%
 12) 가 가 89.7% 가 가 가 가

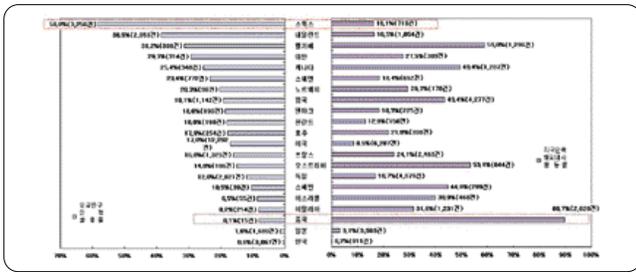
'90~2001 524,310 가
 78.8% (413,271)
 , '90~'96 88.6% 가 85.9%,
 70.5%

< 12 > 13% , 19%
 가 가 , IT
 4% 5% / /
 2%

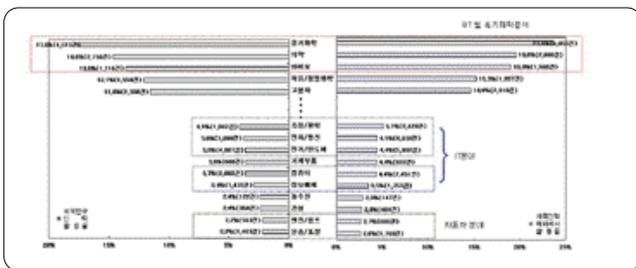
13) 11.4% , 17.1%
 가 , , , ,
 가 14)



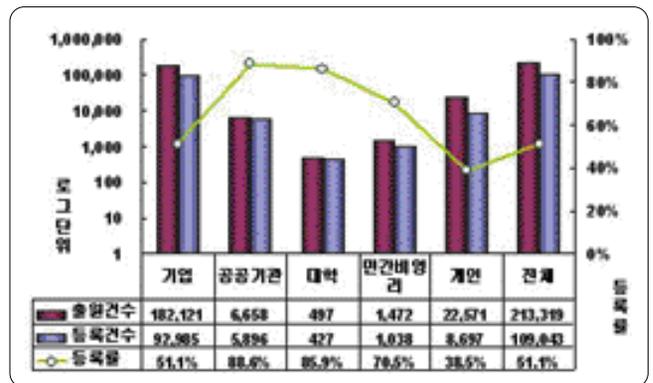
< 13. >



< 11. 가 >



< 12. >



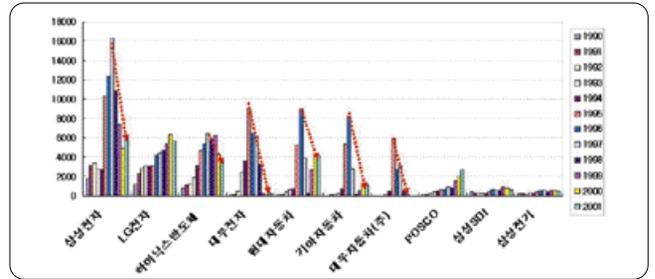
< 14. >

11) () 가 .

12) 가 .

13) 2004 7 2

14) R&D , 2004. 02. 13 .



< 15. >

< 2> 가

'98

'96

< 6> ,

19,383 95

가

10

'97

가

가 LG POSCO 가

'98

가

3

(quality)

15)

가

, M&A

'99

가

< 16. >

WIPO 32 1 <

7> , 가

IT , / / , /

6 1 , POSCO

/ 가 , /

, / , / 5

1 .

/ , / 5 1

, 가 가

가

1	1	1	
			/
			가
	POSCO		/
/			가
/			/
/			
가		CJ	
/가		LG	
	KIST		

	1996	1997	1998	1999	2000
	61,058	58,255	38,872	39,193	45,847
	1,187	1,550	1,584	1,706	1,592
	141	204	327	480	627
	471	585	490	523	418
	4,886	5,996	7,717	12,407	21,753
	67,737	66,590	48,990	54,309	70,237

< 7. >

1

: 1. 90~2001

2. 1

3. 1

2

'90~2001

5.4%

28,190

524,310

2

'91 3.6%

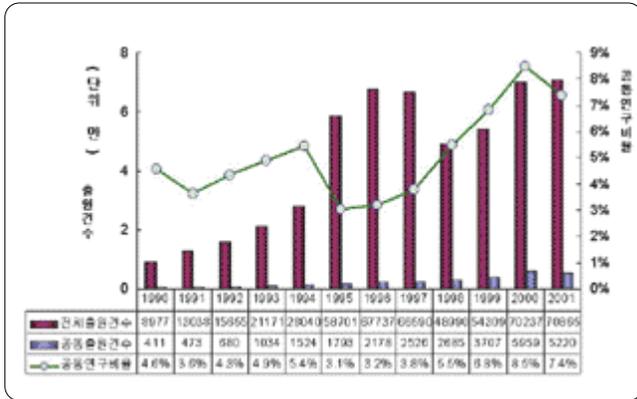
2001 7.4%

가 가 '95~'97

3%

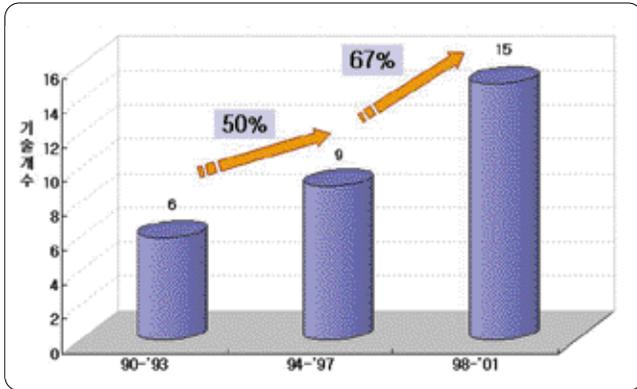
가

15) 2000.1.14



< 17. >

< 18>
 기술개수, '90~'93 6
 가, '94~'97 9, '98~'01 15
 150% 가
 가 '90~'93



< 18. >

	'90 ~ '96			()	'90 ~ '2001	
	()	()	(%)		()	(%)
	5,255	3,726	70.9	8.0	1,368	10.1
	109,043	73,894	67.8	7.8	25,310	11.4

< 8. >

< 9>
 가 ,
 가

	'90 ~ '96			()	()	'90 ~ '01		
	()	()	(%)			()	(%)	
-	1,659	1,488	89.7	1,428	96.0	7.7	76	2.8
-	1,722	1,441	83.7	875	60.7	8.7	46	2.0
-	891	559	62.7	422	75.5	7.7	307	17.8
-	87	70	80.5	62	88.6	7.9	8	3.1
	8,093	5,255	64.9	3,726	70.9	8.0	1,368	10.1

< 9. >

3.3

16
 30.1%(156,944), 33.8%(176,163)
 5.5%(28,427)
 70%(361,534)
 88,070 가 16.9%
 '98~2001 가 ()

¹⁶⁾

가 , '90~'93 45.3%, '94~'97 30.4% '98~2001 35.5% 가

< 8>
 가 70.9% 67.8%
 0.2
 가 11.4% 10.1%

16) '97 3,867 '98 197

		(%)	가 (%)		
			'90~'93	'94~'97	'98~'01
	156,944	30.1	26.0	23.9	3.1
	28,427	5.5	82.8	31.3	-15.2
	176,163	33.8	35.4	45.2	-2.7
	361,534	69.3	32.6	34.1	-1.3
	28,355	5.4	27.7	32.1	3.2
	12,913	2.5	51.2	31.5	9.5
	7,997	1.5	24.0	58.7	13.4
	49,265	9.4	32.2	34.8	6.6
	7,684	1.5	65.2	36.8	9.7
	6,465	1.2	26.7	43.0	10.2
	5,035	1.0	45.3	30.4	35.5
	19,184	3.7	45.4	37.4	16.0
	12,060	2.3	20.9	26.7	10.1
	12,868	2.5	20.5	22.9	11.0
	14,173	2.7	65.6	30.4	-2.3
	29,885	5.7	33.8	29.3	5.7
	19,084	3.7	48.1	27.4	7.4
	88,070	16.9	35.0	27.8	6.3
	2,731	0.5	46.7	33.5	23.7
	674	0.1	21.1	34.9	19.5
	3,405	0.7	40.8	33.7	23.0
	521,458	100.0	33.4	33.2	1.6

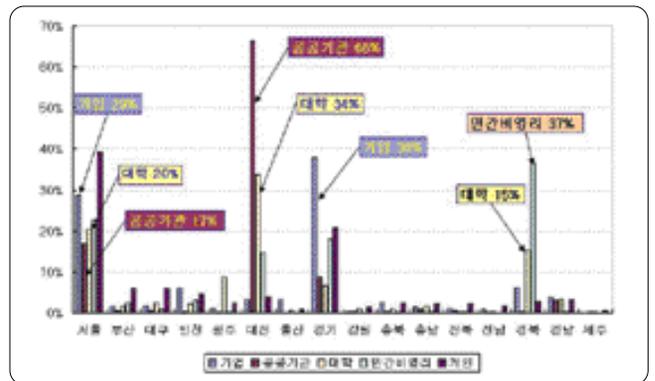
< 10. 가 >
'97 17) 2001
10
< 11> , 10
189.3 138.0

가
'98 가
(KAIST) 가
가 14,129 가
가

가 37.9%(155,559) 28.7%(118,017)
가
가 66%(9,980) , 34%(950)

	1997	1998	1999	2000	2001	
	170.7	133.8	136.9	213.5	194.3	169.8
	176.1	87.8	65.4	84.2	86.9	100.1
	299.8	206.0	211.8	231.2	237.6	237.3
	222.8	157.7	159.5	206.0	200.5	189.3
	266.5	237.1	272.9	263.4	284.4	264.9
	96.0	99.8	120.5	131.5	135.5	116.7
	48.3	53.8	65.9	74.8	78.8	64.3
	124.7	120.1	142.1	146.8	156.2	138.0
	77.3	49.6	61.1	109.9	107.1	81.0
	37.7	24.0	35.6	56.5	55.5	41.9
	18.4	16.2	35.0	53.7	64.0	37.5
	39.7	27.2	41.7	68.7	71.7	49.8
	34.2	26.2	36.4	55.3	51.3	40.7
	51.3	49.3	63.4	77.7	76.7	63.7
	158.2	25.1	89.0	158.9	137.9	113.8
	133.0	102.0	124.2	141.4	166.5	133.4
	75.6	60.1	72.9	90.6	98.6	79.6
	77.4	54.4	72.7	94.1	98.4	79.4
	16.3	13.0	22.4	36.1	37.7	25.1
	10.0	14.6	26.5	25.2	19.7	19.2
	14.70	13.40	23.48	33.30	33.02	23.58

< 11. 10 >
, 20%(574) 15%(432)
POSCO
가 37%(1,450) , 가



< 19. >
'90~2001
521,458 70,913 13.6%
가 53,150

17) 1997 7 15

1997

(www.nso.go.kr) 1997

