

(Bio)

1.

< 1-1 >

<ul style="list-style-type: none"> ▪ ▪ ▪ / 가 ▪ / 	<ul style="list-style-type: none"> ▪ 60% - - know-how 	
<ul style="list-style-type: none"> ▪ ▪ ▪ / ▪ ▪ . 	<ul style="list-style-type: none"> ▪ 40% - - , , / / - . () 	
<ul style="list-style-type: none"> ▪ ▪ ▪ ▪ 	<ul style="list-style-type: none"> ▪ 70% - - , 	

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< 1-2>

		가		
	가	가		가
	가	가		가
	가	가		가
	가	가		가

: Office of Technology Assessment

< 1-3>

	120 (1992) 552 (1992)	40 (1992) 72 (1992)	1,000 (1992) 5,737 (1992)
	108	1,110 ((V/B) 400)	400

< >

- 가	HAN Project (1992) 10 G	Biotechnology Initiative (1993 ,)	(1981 ,)
	1 2	' (BRS)'	
(,)		FDA, EPA 가	(5) 가
. .	()		

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< 1-4 >

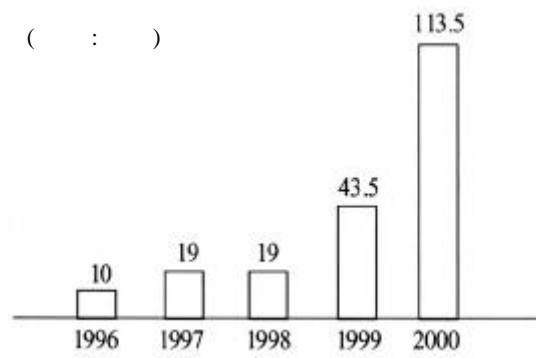
<ul style="list-style-type: none"> • NCBI() , 가 1988 • - (NHGRI) 1990 • NCBI GenBank BLAST 1992 • 1997 • , C.elegans () 1998 • "Celera Genomica" 1998 - : <ul style="list-style-type: none"> - 2001 - 1999 - 2002 • 1999 	(NCBI, BCM, Search Launcher, ISREC Bioinformatics Group)	(9)

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< 1-6>

		100	85
		100	80
		100	70
		100	90
		100	65
		100	35
	가	100	30
		100	25
		100	60

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< 1-7>

•	• ,
•	• DB
•	• ,

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(: ,)

	2000	2001	2002	2003	2004
	10	20	30	40	50
	50	100	150	200	250

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< 1-9>

()

- glucosidase			<ul style="list-style-type: none"> Pharming Healthcare NV () 	<ul style="list-style-type: none"> Pompe disease 	<ul style="list-style-type: none"> (2) : 0.1 1g/ : 50 100ml/ ,
Lactoferrin				<ul style="list-style-type: none"> Gastrointestinal infection 	<ul style="list-style-type: none"> (1)
Factor ,	/		<ul style="list-style-type: none"> Pharming Healthcare Inc () 	<ul style="list-style-type: none"> Hemophilia B 	<ul style="list-style-type: none">
1- antitrypsin			<ul style="list-style-type: none"> PPL Therapeutics () 	<ul style="list-style-type: none"> Cystic fibrosis 	<ul style="list-style-type: none"> (2)
Factor ,				<ul style="list-style-type: none"> Hemophilia B 	<ul style="list-style-type: none"> 0.3g/1
Antithrombin			<ul style="list-style-type: none"> Genzyme Transgenic Corp () 	<ul style="list-style-type: none"> Anticoagulant 	<ul style="list-style-type: none"> (3) (3)
-L-induronidase				<ul style="list-style-type: none"> Hurler's disease 	<ul style="list-style-type: none"> (3) BioMarins Pharmaceutical Inc
Lactoferrin			<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
G-CSF			<ul style="list-style-type: none"> () 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 가 가

: Genetic Engineering News

< 1- 12>

(:)

	1994	1995	1996	1997	1998
	1,357	1,541	1,547	1,889	1,982
	1,171	1,354	1,380	1,411	1,372
	2,528	2,895	2,927	3,300	3,354

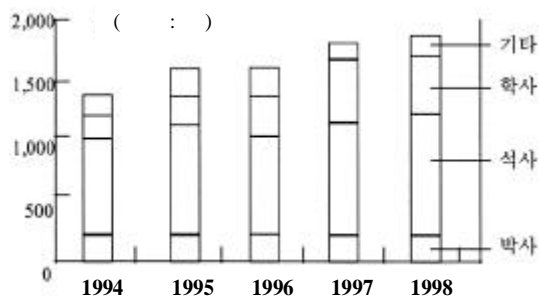
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< 1- 13>

(:)

1994	200	754	199	204	1,357
1995	231	858	231	221	1,541
1996	248	855	240	204	1,547
1997	305	933	440	211	1,889
1998	305	945	474	258	1,982

:



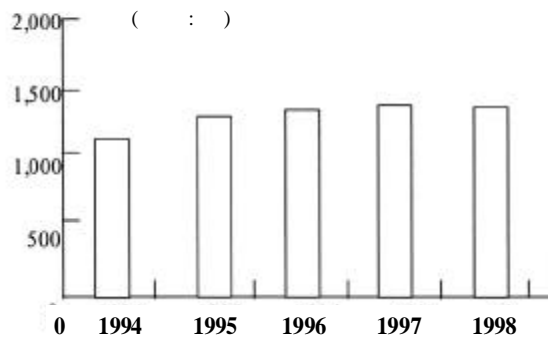
< 1- -3>

< 1- 14>

(:)

1994	4	51	137	979	1,171
1995	28	86	218	1,022	1,354
1996	10	82	234	1,054	1,380
1997	8	111	259	1,033	1,411
1998	12	129	240	991	1,372

:



< 1-4 >

< 1-15 >

(: , %)

1		158	79
2		98	49
3		60	31
4		52	29
5		25	12
6		5	3

:

- 1) 12 3,4
- 2) 25

< 1-16 >

				EC
()	1,250	3	1	1
	557	-	-	-
	1,318	42	10	12

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< 1-17>

(:)

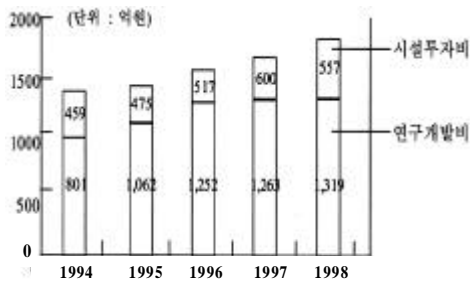
		1997	2002	2007
		300	450	800
		700	1,480	2,800
		1,000	1,850	3,600
		250	400	700
		500	1,000	2,000
		750	1,400	2,700
		300	450	700
		550	1,200	2,400
		850	1,650	3,100
		200	300	450
		350	700	1,400
		550	1,000	1,850
		150	220	350
		250	500	1,000
		400	720	1,350
		420	670	850
		650	1,300	2,500
		1,070	1,970	3,350
		80	110	150
		100	200	440
		180	310	550
		1,700	2,600	4,000
		3,100	6,300	12,500
		4,800	8,900	16,500

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< 1-18>

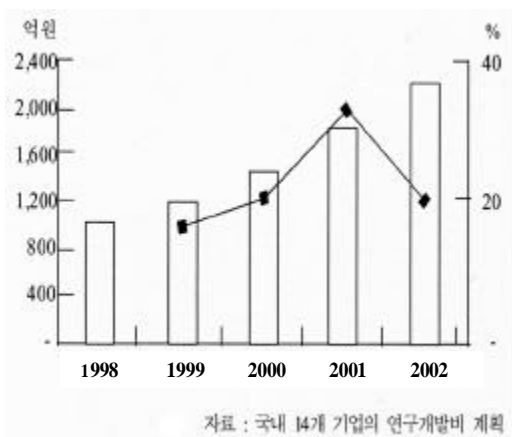
(단위 : 억원)	
	457,233
	131,845
	55,716

1998년



자료 : 한국생물산업협회

< 1-5>



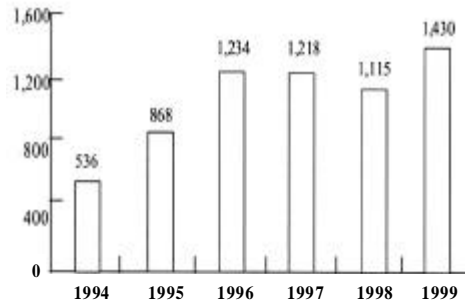
자료 : 국내 14개 기업의 연구개발비 계획

< 1-7>

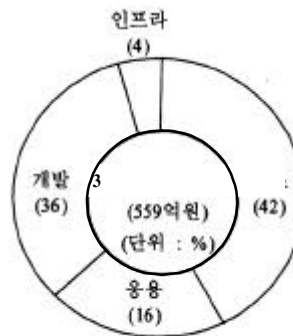
< 1-19>

(단위 : 억원)					
	1994	1995	1996	1997	1998
	801	1,062	1,252	1,263	1,319
	459	475	517	600	557
	1,260	1,537	1,769	1,863	1,897

1999년



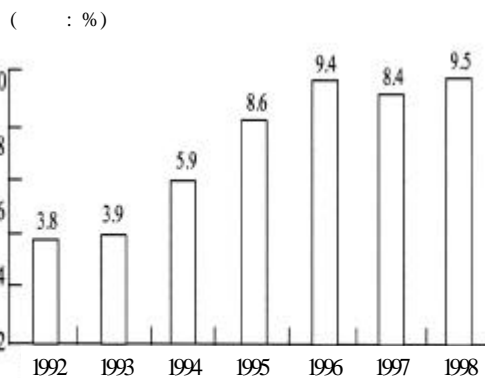
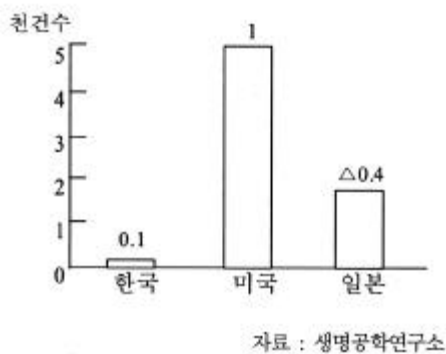
< 1-6>



주) '94, '96, '98년 3개년 평균임

< 1-8>

(단위 : 억원)
R&D



< 1-9> 가
(1998)

< 1-10>

< 1-20>

KIST	43	18	20	4	1
KAIST	8	3	-	3	2
()	8	4	3	1	-
()	77	34	37	6	-
()	8	4	3	1	-
()	10	4	4	1	1
()	9	3	5	-	1
()	6	-	6	-	-
()	33	13	15	5	-
	27	15	8	1	3
	7	4	3	-	-
()	11	5	5	-	1
()	9	5	2	2	-
	4	4	-	-	-
	260	116	111	24	9

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< 1-21>

		()	
		21 (1996)	46 (23 + 23)
		21 (1997)	39 (20 + 19)
		13 (1996)	21 (10 + 11)
		17 (1997)	66 (29 + 37)
		4 (1996)	10 (5 + 5)
		3 (1997)	9 (4 + 5)
		7 (1997)	6 (3 + 3)
		28 (1996)	77 (38 + 39)
		38 (1997)	120 (56 + 64)
	-	6 (1997)	15 (12 + 3)
	-	3 (1997)	2
	-	4 (1997)	24 ()
		38 (1996)	77
		61 (1997)	161 ()

:

< 1-22>

(:)

R & D	772	186	268	133	28	28	35	1,450
	22	-	12	84	19	18	3	158
	794	186	280	217	47	46	38	1,608

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< 1-23> 1998

(: , %)

8,198	83	1,702	17	9,900	5,085	51	4,815	49
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) '98

< 1-24>

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1994	1,735	69.7	753	30.3	2,488	1,919	77.1	569	22.9
1995	2,387	73.4	864	26.6	3,251	2,516	77.4	735	22.6
1996	4,681	81.7	1,052	18.3	5,733	3,285	53.3	2,448	42.7
1997	5,879	80.9	1,385	19.1	7,264	4,246	58.5	3,018	41.5
1998	8,198	83.0	1,702	17.0	9,900	5,085	51.0	4,815	49.0

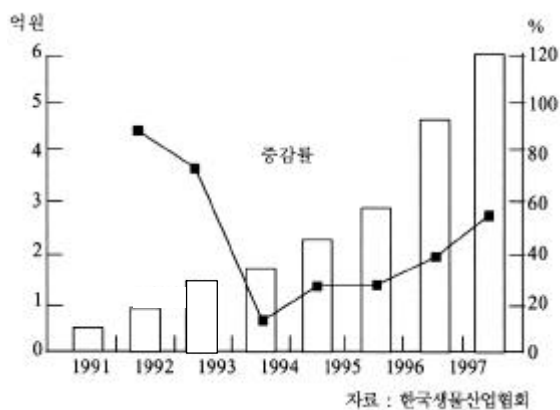
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< 1-25>

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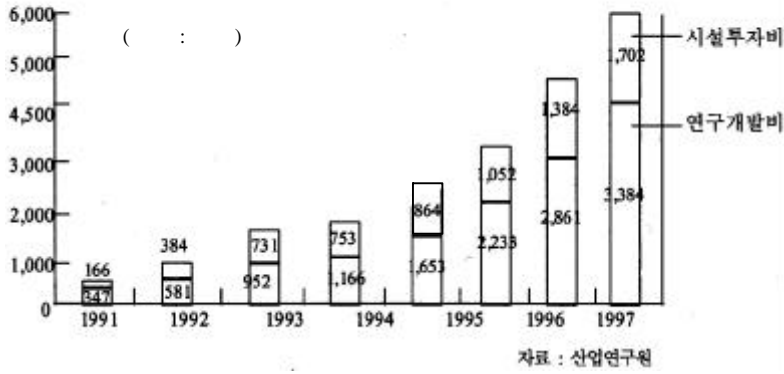
	1993	1994	1995	1996	1997	1998
	98,233	116,594	165,252	223,292	286,128	338,355
	73,109	75,303	86,359	105,170	138,443	170,176
	168,342	191,897	251,611	328,462	424,571	508,511

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< 1-11>

(단위 : 억원)



< 1-12 >

< 1-26 >

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134	100	43.8	32.7	3.6	2.7

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) '98

< 1-27 > 1998

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		44,352	7,283	286,626
		47,085	13,155	
		21,993	3,519	
		4,606	-	
		14,974	13,763	
		8,039	1,966	
		31,714	2,050	
		7,787	1,615	
		27,768	35,017	
		208,258	78,368	

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		19,720	3,606	36,535
		13,209	-	
		32,929	3,606	
		22,497	1,013	31,783
		7,166	1,107	
		29,663	2,120	
	.	3,829	-	46,863
	.	5,778	20,252	
		17,004	-	
		26,611	20,252	
	.	5,389	4,678	43,300
		22,919	10,314	
		28,308	14,992	
		12,566	50,838	63,404
		12,566	50,838	
		338,355	170,176	508,511

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) '98

< 1-28> 1998

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		114,739
		56,267
	.	8,262
		1,507
		428
	.	120
		4,639
		185,962

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		53,785
		3,412
		57,197
		50
		50
	.	945
	.	491
		223,411
		224,847
	.	9,905
		1,159
		11,064
		2,374
		2,374

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< 1-29 >

1987. 7			
1991. 1			
1993. 6			US \$ 2,100 + 3 5%
1994. 3			US \$ 200 + 5%
1994. 7			3.3 + 4.5%
1997. 4			300 , 6
1997. 5	LG		3,750
1997. 7	LG		4
1997. 8			1997 2000
1998. 2		B	6,850
1998. 10		()	100
1999. 11			150

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< 1-30 >

(:)

		44,352	114,739	394,220
		47,085	56,267	
	.	21,993	8,262	
		4,606	1,507	
	.	14,974	-	
		8,039	428	
	.	31,714	120	
		7,787	-	
		27,768	4,639	
		208,258	185,962	
		19,720	53,785	90,126
		13,209	3,412	
		32,929	57,197	
		22,497	50	29,713
		7,166	-	
		29,663	50	
	.	3,829	945	251,458
	.	5,778	491	
		17,004	223,411	
		26,611	224,847	
	.	5,389	9,905	39,372
		22,919	1,159	
		28,308	11,064	
		12,566	2,374	14,940
		12,566	2,374	
		338,355	481,494	819,829

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	, , , Young Tech,
.	, , , , , , , ,
.	, , ,
.	, , , Nti , LG , , , , , , , ,
	, , , ,

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< 1-33 >

LG			2000. 10	1.2		1
		1		1.2		
		.				
	PHT	1	2003	3		
		. PHT				FDA
	EGF	2	2000. 11	8	500	가 1
			1999	1,700	300	20 9
		2	2000	2,000	300	
		. EGF 가 . (1,100) . 2000. 3 2 2000. 11 .)				
			2004	1	20%	
			2002	200	15%	가
			2003	500	30%	
		.) (), (

< >

			2000	1	30%	
			2003	2,000	30%	가
			2005	3,000	40%	
		• () , 가				
		2000. 3	2004	2	25%	
		2000	2005	2	15 25%	30
	LXF/ACA		2003	1,500	60%	
		• T 70%				
	B	1	2002	6.7	30% (2)	(100)
		• L- nucleoside 1,200mg 가 가 • Triangle 6,850 , 가 8 • 12%				
	HGB		99. 1	1,200	100%	()
	HTF/TOH		2000.3	2,400	40%	
		2	2001. 12		100%	
		• 가 가 • 가 () , • ,				
		2	2001	2,400		
	PM		2002			2000

		<ul style="list-style-type: none"> PM 2000 				2
				2004 (2003)	23%	
			2003	80 (2003)		
			2002	80		
		가		FDA		2002
			2001		300	,
	YH-439	2	2001		1	
	YH-1885	1	2001		6	
		가	YH-1885()가			
		3	2001	4.4	2%	가
			2002	6	10%	
			2003	4.5	10%	가
		<ul style="list-style-type: none"> , , 				
			2010	20	2%	70
			2004	20	2%	50
			1998	2	5%	25 가
		<ul style="list-style-type: none"> 가 99.7) 		Tiss Gene		FDA (4

	Clarithromycin()		2000	3,150	2000 1%	
	Side Chian		2000	1,200	2003 10%	
	•					
	500		2001	300	10%	50
			2001	100	10%	
	2000		2003	200	5%	'98
	• '98 G7					
	• 2003					
			2001	5	5%	
			2002	300	20%	
	• 가					
	2					가
SK				6		
	3		2001			
	1		2002			
	A		2001			
	• A					

< 1-34>

	20%(600) (() , ())
	10%(60) (() , ())
B	1987 () , (1998 , 40%)
	1990 () , 27
	1990 () , 19
	() , ()
	SPF (가 ())

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< 1-35>

AIDS			
B			

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< 1-36>

		900	60
		20	0.5
		-	-
		-	-
	EPO, G-CSF, ,	3,860	151
		4,900	300
L G		46,419	3,240
		2,300	230
	B	2,560	118

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< 1-37>

		▪		
		▪ 2005	2	, ,
		▪ 2002	3,000	, 30%
		▪ 2005	5,300	
L	G	▪ 2000	1	
		▪ 2005	5	
S	K	▪	500	70%
		▪	5	
		▪ 2002	5,000	
		▪ 2002	2,000	
		▪	500	
		▪ 2005	1,500	
		▪ 2005	1,113	
		▪	5	1,500

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< 1-38>

		() , ()	
		(, DNA) , () , ()	
		() , ()	
		()	
		Arena Pharmaceuticals(, ,)	
		()	
		()	
		(, GMO ,)	
		(, ,) , ()	
		(,)	
		() , ()	
		()	
		(,)	
		(,)	

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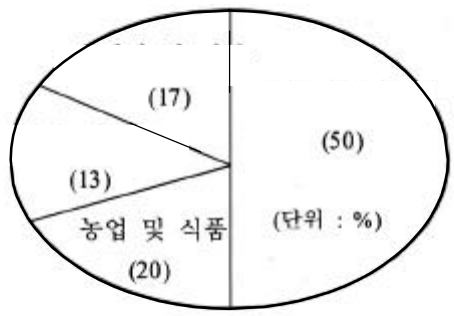
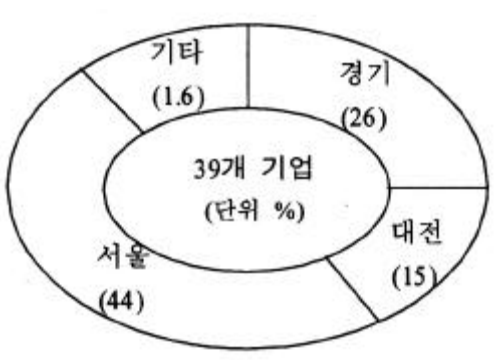
< 1-39>

1987			
1988			
1988			
1992			
1992			,
1993			
1994			
1994			
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1995			,
1995			
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1996			,
1996			/
1996			,
1997			,
1997			,
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1997			
1997			
1997			
1997			
1998	KIBC		

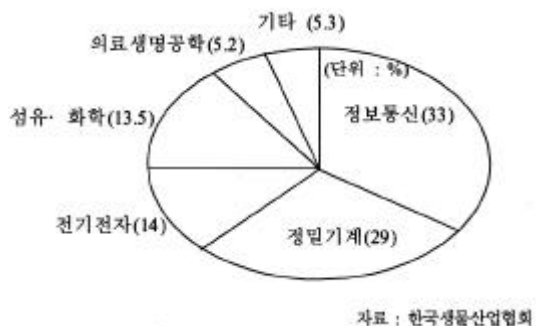
< >

1998			
1998			
1998			
1998			
1998			
1999			
1999			
1999			
1999			
1999			
1999			
1999			
1999			
1999			
1999	R & D		
1999	ABI		
1999			
2000	Gene		DNA

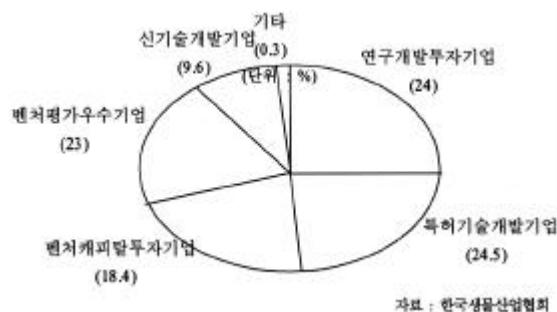
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자료 : 한국생물산업협회



< 1-15>

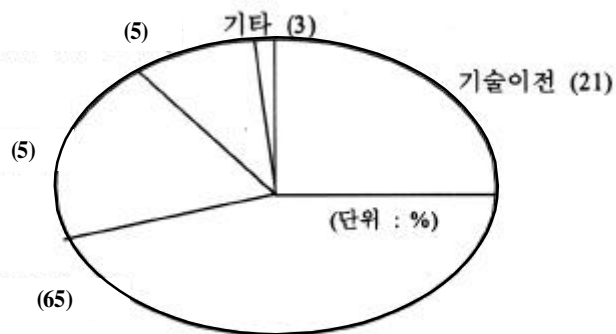


< 1-16>

< 1-40>

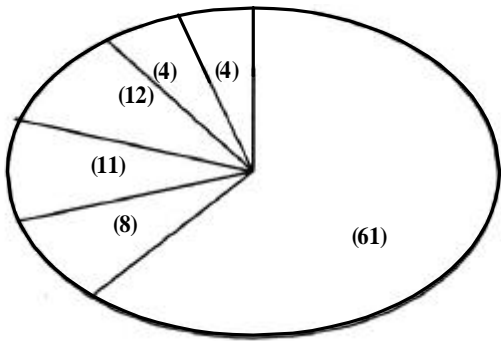
(:)

	1988	1993	1994	1996	1997	1999	
	0		3		12		15
	1		3		3		7
	3		0		2		5
	1		2		1		4
	0		1		3		4
	0		2		1		3
	0		0		1		1
	5		11		23		39

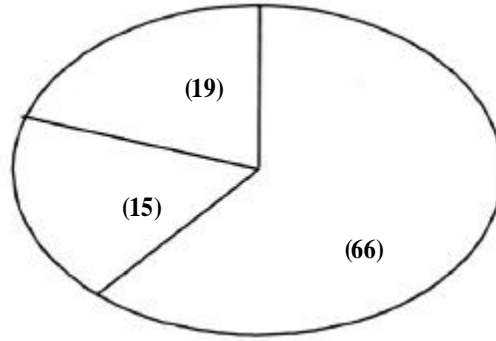


< 1-17>

(: %)



(: %)

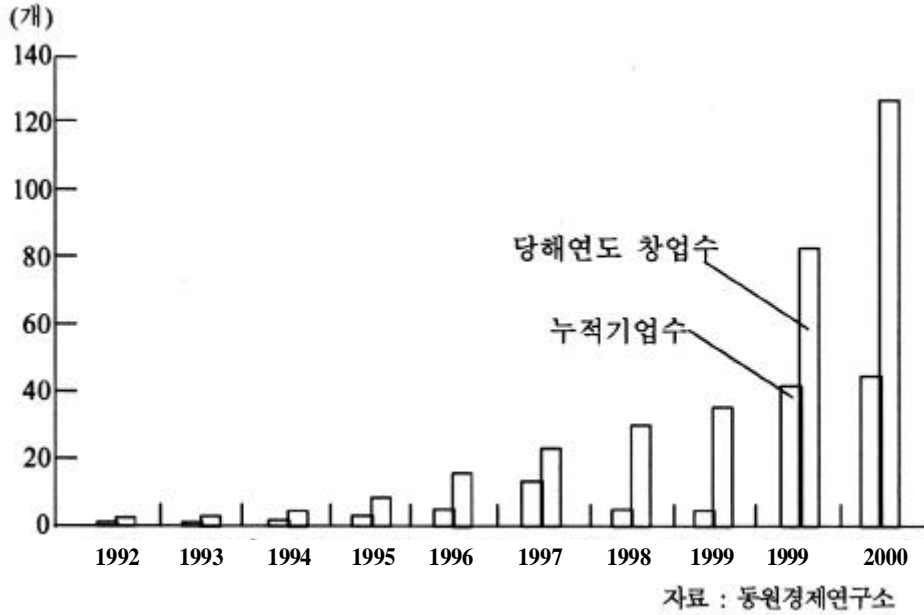


< -18>

< 1-41>

5	R & D R & D	1.1	9.3	745.5
		4.4	27.6	527.3
		3.2	13.2	312.5
		72.7	47.8	34.2
3 4	R & D R & D	1.3	6.3	284.6
		4.3	14.5	237.2
		2.7	7.2	166.7
		62.8	49.7	20.9
1 2	R & D R & D	2.4	8	233.3
		5.5	11.6	110.9
		3.4	7.4	117.6
		61.8	63.8	3.2

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< 1-19>

< 1-42>

	1999	2000	2001	2002	2003	2004	2005	(2000 2005)
	1,418	5,805	6,217	7,740	7,596	8,790	5,661	41,809

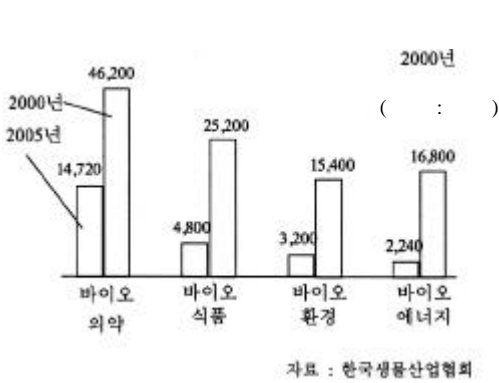
< 1-43>

		1998	1999	2000	1998	1999	2000		
	DNA	1	7.4	21	0.7	0.08	0.2	12.6	
	가	109	120	137	13.2	15.4	18	15	
		7.2	21	75	1.2	11	25	20	

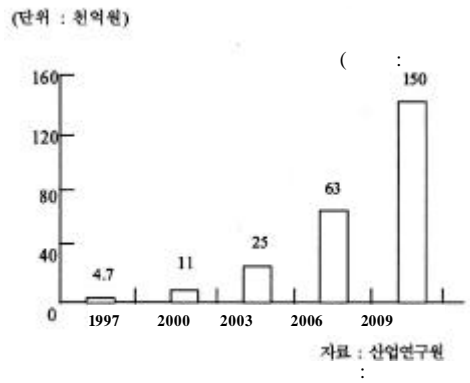
) 6 98 1997 1998 6

< 1-44>

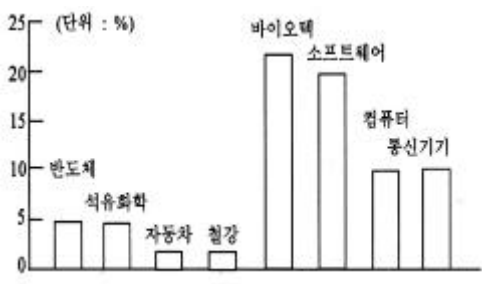
	1996	2000	2005
	2,229 (67.8)	14,720 (46.0)	46,200 (33.0)
	154 (4.7)	4,800 (15.0)	25,200 (18.0)
	293 (8.9)	3,200 (10.0)	15,400 (11.0)
	166 (5.1)	3,200 (10.0)	15,400 (11.0)
	171 (5.2)	2,560 (8.0)	14,000 (10.0)
	-	2,240 (7.0)	16,800 (12.0)
	272 (8.3)	1,280 (4.0)	7,000 (5.0)
	3,285(100.0)	32,000(100.0)	140,000(100.0)



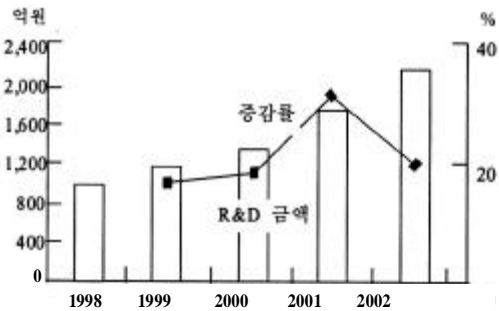
< 1-20>



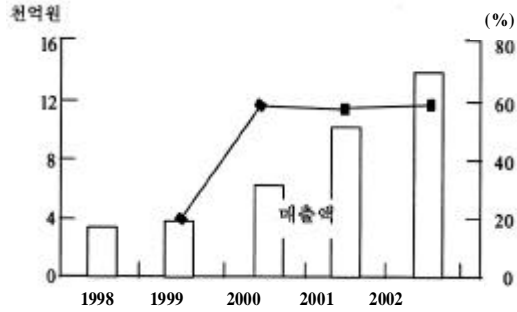
< 1-21>



< 1-24>
(2000 2010)



< 1-25> R & D



< 1-26 >

1-1

1-1-1.

< 1-1-1 >

	(1998 2003)	(2004)
	<ul style="list-style-type: none"> • () • () 	<ul style="list-style-type: none"> • (Thaumatococcus)
		<ul style="list-style-type: none"> • (Lecithin)
	<ul style="list-style-type: none"> • DHA • EPA 	<ul style="list-style-type: none"> •
가	<ul style="list-style-type: none"> • B (-) 	<ul style="list-style-type: none"> •
	<ul style="list-style-type: none"> • Catalase 	

:

< 1-1-2 >

(: kg,)

	1996		1997		1998	
	237,080	160,672	98,250	73,885	163,228	37,334
	67,152	22,578	35,767	10,721	30,447	12,082
	626,515	97,720	210,345	64,257	124,547	39,925
가	198,538	93,303	161,214	58,446	80,663	39,099

< >

(: kg,)

	1996		1997		1998	
	181,084	122,722	173,384	109,604	42,311	25,550
	394,268	79,554	187,437	43,552	129,130	30,794
	58,373	21,762	34,288	14,329	38,619	19,829
	40,870	16,564	35,744	13,811	20,661	7,976
	11,932	11,606	21,655	23,508	8,356	8,625
	51,771	59,052	31,945	27,839	15,148	14,574
가	10,505	3,223	13,798	3,643	3,643	1,995
	3,344	5,820	1,879	2,458	2,458	578
	12,939	18,764	14,523	20,831	20,831	3,807
	462	193	76	71	71	153
	179,896	7,901	149,491	8,796	8,796	5,368
	267,014	43,308	148,414	51,364	51,364	18,992
	21,950	4,197	10,620	6,459	81,647	4,922
가	311,709	23,747	141,582	32,834	20,553	14,277
	2,177,658	111,390	1,901,772	98,274	1,182,756	88,757
가	29,656	4,236	14,287	2,664	13,561	3,248
	535,176	149,722	1,082,124	127,642	206,419	29,852
가	20,729	35,220	21,572	37,009	7,902	13,242
	15,145	12,464	29,088	15,847	9,640	5,234
	7,729	9,317	59,661	109,037	61,337	123,426
	11,304	18,510	14,956	23,538	7,122	12,161
	5,472,799	1,123,545	4,593,872	980,419	2,393,975	521,800

:

< 1-1-3>

(: kg,)

		1998			
1		123,426	19.8	14,389	13.2
2		89,852	14.5	37,790	29.6
3		88,757	14.3	9,517	9.7
4		39,925	6.4	24,332	37.9
5	가	39,099	6.3	19,347	33.1

< >

(: kg,)

		1998			
6		37,334	6.0	36,551	49.5
7		30,794	4.9	12,758	29.3
8		25,550	4.2	84,054	76.7
9		19,829	3.3	5,500	38.4
10		18,992	3.1	32,372	63.0
11	가	14,277	2.3	18,557	56.5
12		14,574	2.3	13,265	47.6
13	가	13,242	2.1	23,767	64.2
14		12,082	1.9	1,361	12.7
15		12,161	1.9	11,377	48.3
16		8,625	1.4	14,883	63.3
17		7,976	1.3	5,835	42.2
18		5,368	0.9	3,428	38.7
19		5,234	0.8	10,613	66.7
20		4,922	0.8	1,537	23.8
21		3,807	0.6	17,024	81.7
22	가	3,248	0.5	584	21.9
23	가	1,995	0.3	1,648	45.2
24		578	0.1	1,880	76.5
25		153	0.0	82	115.5
	()	621,800	100	358,619	36.6

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< 1-1-4>

()

(: kg,)

	1996		1997		1998	
	95,070	97,383	50,797	55,704	148,252	30,560
	11,858	8,080	4,647	2,132	5,700	6,081
가	494,255	59,208	136,809	46,348	108,827	33,059
	54,773	38,768	27,083	15,366	16,114	6,985
	179,400	111,584	170,346	107,867	42,141	25,440
	393,989	79,246	180,060	42,716	128,060	30,180

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(: kg,)

	1996		1997		1998	
	45,566	17,413	25,622	10,922	34,191	17,735
	35,026	12,352	29,819	10,836	16,833	6,512
	10,823	10,980	19,602	20,505	8,224	8,488
	50,291	58,514	24,949	27,151	13,587	14,476
가	1,889	1,155	1,522	861	2,727	1,493
	3,258	5,754	1,879	2,458	411	578
	12,912	18,734	14,515	20,825	2,657	3,807
	462	193	76	71	366	153
	171,194	7,334	141,665	7,961	96,221	4,191
	34,522	22,202	35,443	35,693	23,407	15,927
	14,957	2,270	7,017	4,106	81,076	4,543
가	310,782	22,241	140,924	31,057	20,075	13,392
	1,725,156	97,333	1,581,620	85,972	1,057,650	84,435
가	29,566	4,206	14,183	2,632	13,276	3,214
	308,799	96,564	244,235	98,566	183,620	82,239
가	18,881	32,305	21,024	35,446	7,902	13,242
	810	533	3,631	3,110	8,116	3,749
	7,671	9,181	27,645	105,495	61,211	123,120
	7,028	12,588	12,771	20,831	5,642	10,760
	4,018,938	826,130	2,947,884	794,631	2,084,286	544,359

:

< 1-1-5>

()

(: kg,)

	1996		1997		1998	
	142,010	63,289	47,453	18,181	14,976	6,774
	55,294	14,498	31,120	8,589	24,747	6,001
	132,260	38,512	73,536	17,909	17,720	6,866
가	143,765	54,535	134,131	43,080	64,549	32,114
	1,684	1,138	3,038	1,737	170	110
	279	308	7,377	836	1,070	614
	12,807	4,349	8,666	3,407	4,428	2,094
	5,844	4,212	5,925	2,975	3,828	1,464

< >

(: kg,)

	1996		1997		1998	
	1,109	617	2,053	3,003	132	137
	1,480	538	6,996	688	1,561	98
가	8,616	2,068	12,276	2,782	1,880	502
	86	66	-	-	-	-
	27	30	8	6	-	-
	-	-	-	-	-	-
	8,702	567	7,826	835	2,221	1,177
	232,492	21,106	112,971	15,671	20,048	3,065
	6,993	1,927	2,353	2,353	571	379
가	927	1,506	1,777	1,777	478	885
	452,502	14,057	12,302	12,302	125,106	4,322
가	90	30	32	32	285	34
	226,377	53,158	29,076	29,076	22,799	7,613
가	1,848	2,915	1,563	1,563	-	-
	14,335	11,931	12,737	12,737	1,524	1,485
	58	136	3,542	3,542	126	306
	4,276	5,922	2,707	2,707	1,470	1,401
	1,453,861	297,415	1,645,988	185,788	309,689	77,441

:

< 1-1-6> (1998)

(:)

1		72	123,426	19.8
2		209	89,852	14.5
3		98	88,757	14.3
4		127	39,925	6.4
5	가	83	39,099	6.3
6		78	37,334	6.0
7		124	30,794	4.9
8		40	25,550	4.2
9		44	19,829	3.3
10		54	18,992	3.1

< >

(:)

11	가	42	14,277	2.3
12		28	14,574	2.3
13	가	25	13,242	2.1
14		61	12,082	1.9
15		32	12,161	1.9
16		25	8,625	1.4
17		26	7,976	1.3
18		20	5,368	0.9
19		10	5,234	0.8
20		21	4,922	0.8
21		1	3,807	0.6
22	가	15	3,248	0.5
23	가	12	1,995	0.3
24		2	578	0.1
25		1	153	0.0
	()	1,250	621,800	100.0

:

)

< 1-1-7> 5

(: %)

		1	2	3	4	5	
1994		24	14	13	9	가 8	68
1995		18	12	11	가 11	10	62
1996		14	13	10	10	9	56
1997		13	11	11	10	8	53
1998		20	14	14	6	가 6	60

:

< 1-1-8>

(:)

	1994	1995	1996	1997	1998
	678,563	814,161	826,130	794,631	544,359
	111,480	157,628	297,145	185,788	77,441
	799,043	971,789	1,123,545	980,419	621,800

:

< 1-1-9>

(: , %)

	1	1 10	11 30	31 50	51 100	101 300	301 500	501	
	13	37	30	18	12	13	2	4	129
	10	39	62	76	85	95	97	100	
	5	171	530	727	836	2,125	724	3,010	8,129
	0	3	9	18	28	54	63	100	

:

) 100 (가 20) 가 85% 28%

< 1-1-10>

(:)

	1	1 10	11 30	31 50	51 100	101 300	301 500	501	
	100	144	47	18	21	14	4	3	351
	28	70	83	88	94	98	99	100	
	45	623	781	698	1,563	2,203	1,425	2,444	9,8036
	0	7	15	22	38	60	75	100	

:

) 100 (가 20) 가 94% 38%

< 1-1-11>

1996	7 6 95	77.2	8 3
1997	9 1 95	102.6	7 5

:

< 1-1-12 >

(:)

	1	2	3	4	5	6	7	8	9	10	11	12	
1996	586	529	679	680	761	784	896	954	1,051	1,028	955	840	831
1997	920	947	1,014	780	777	699	705	647	682	625	580	622	749

:

< 1-1-13 >

20

	1996	1997	
1			
2		SMK	
3			
4			
5			
6	SMK		
7	NHB		
8	STC	STC	舊
9			
10		NHB	
11			
12	()		
13			
14			
15			
16			
17			
18			
19			
20			

:

< 1-1-14>

(: , %)

	50	50	
1996	2,359	5,242	94
	30.7	68.1	1.2
1997	4,573	4,377	246
	49.7	47.6	2.7

:

< 1-1-15> 가

(:)

가	1997. 11. 17	
1.	17,000	34,000 35,000
2. EPA & DHA	7,000 8,000	12,000 14,000
3. (100:1)	60,000 110,000	90,000 150,000
4.	4,000	6,500 7,000
5.	8,500 11,000	22,000 25,000
	5,000 7,000	8,000 10,000
	7,000 8,000	13,000 15,000
	7,000 8,000	10,000
6. ()	90,000 95,000	170,000 200,000
7.	60,000 70,000	80,000 100,000
	20,000 25,000	30,000 50,000
8. ()	300,000	230,000 250,000
9.	180,000	370,000 400,000
10.	1,200 1,500	2,500 3,000
11. B ₁	40,000	65,000
12. B ₂	70,000 90,000	130,000
13. B ₆	40,000	60,000 65,000
14. D ₃	40,000	60,000
15. E	65,000	130,000

:

) lkg

1-1-2 /

< 1-1-16 >

(:)

	1995	1996	1997	1998
	2,638	2,793	2,479	2,496
	1,290	1,554	1,276	1,395
	193	218	201	147
	462	456	297	394
	553	523	485	500
	53	28	33	47

:

< 1-1-17 > 가

(: /)

	1993	1994	1995	1996	1997	1998
	3,672	3,984	4,081	3,655	3,289	2,744
	4,109	4,325	4,572	3,757	3,354	2,773
	1,573	1,405	1,984	1,644	1,431	2,000
	2,383	2,806	2,593	3,001	2,643	2,124

:

< 1-1-18 >

(:)

	(A)	(B)	B/A(%)
1997	1,504,401	407,947	27
1998	1,595,285	446,680	28
1999	1,570,900	455,561	29
2000	1,556,621	466,986	30
2001	1,542,507	462,752	30

:

< 1-1-19 >

(: , %)

	1996	1997	1998	
	39,138	39,692	47,743	20.3
	36,662	37,648	42,236	12.2

:

< 1-1-20>

(: ,)

		1994	1995	1996	1997	1998
		11,090	12,476	10,786	12,069	15,939
		44,191	50,909	39,420	39,691	43,743
		8,723	9,470	9,759	11,266	15,229
		37,726	43,301	36,662	37,648	42,236
		126	307	239	153	8
		177	609	393	219	16
		2,241	2,699	788	690	702
		6,288	6,999	2,365	1,824	1,491

: .

< 1-1-21>

(: , %)

			,			
1997	89,990	267,873	37,475	12,609	407,947	-
1998	94,490	296,970	41,035	13,870	446,680	9.5
1999	96,380	302,761	41,856	14,564	455,561	2.0
2000	96,380	312,412	42,902	15,292	466,986	2.5
2001	96,380	307,415	42,900	16,057	462,752	0.9

: .

< 1-1-22>

	1917 1968	1969 1976	1977 1981	1982 1986	1987 1991
	29(29)	15(29)	7(23)	38(73)	76(205)
	84	63	30	83	98
	93	91	46	52	38
	10	16	4	10	16
	-	-	59	21	75
	-	-	146(162)	204(239)	207(399)

: .

< 1-1-23>

T002		1993. 1. 7.(92-66)	-
T003		1993. 1. 7.(92-66)	1

< >

T010		1994. 8. 5.(93-38)	6
T014		1993. 1. 7.(92-66)	23
T015		1993. 1. 7.(92-66)	8
T016		1993. 1. 7.(92-66)	2
T020		1995. 3. 4.(91-10)	13
T027		1993. 1. 7.(92-66)	2
			55

) '97

1-1-3 .

< 1-1-24> 가

(:)

		가	가	가 (%)
1993	13	3,141	2,093	66.6
1994	14	3,276	2,050	62.6
1995	12	3,102	2,154	69.4
1996	12	3,102	2,178	70.2
1997	12	3,148	2,251	71.5
1998	11	3,055	2,190	71.7

< 1-1-25> 가

(: , %)

		1994	1995	1996	1997	1998
가		976,000 64.0	1,010,000 62.8	1,016,000 62.1	1,059,000 62.9	1,097,000 66.4
가		247,000 61.1	236,000 16.4	288,000 17.7	287,000 17.0	263,000 15.9
가		236,000 15.4	265,000 16.5	273,000 17.0	272,000 16.1	234,000 14.2

< >

(: , %)

		1994	1995	1996	1997	1998
가		61,000	67,000	58,000	66,000	57,000
		4.0	4.2	3.6	3.9	3.4
가		8,000	2,000	1,000	1,000	1,000
		0.5	0.1	-	0.1	0.1
		1,528,000	1,607,000	1,636,000	1,685,000	1,652,000

:

< 1-1-26> 가

(: , %)

	()		(%)	
	1997	1998	1997	1998
	78,329	73,390	0.4	0.5
	156,157	133,745	0.9	0.8
	951,541	829,281	5.4	5.0
	9,985,463	8,897,562	56.6	53.6
	5,094,385	4,951,787	28.9	29.8
	993	1,092	-	-
	1,371,188	1,702,022	7.8	10.3
	17,637,996	16,593,879	100.0	100.0

:

< 1-1-27> 가

(: 22kg/)

		1995	1996	1997	1998
		842,370	831,627	803,074	840,170
		61,295	-	-	-
		320,013	217,741	187,634	558,205
		-	-	-	-
		7,648	64,621	47,634	29,820
		-	-	827	14,619
		1,231,326	1,113,989	1,039,493	1,442,814

< >

		1995	1996	1997	1998
		57,142	150,244	212,003	291,722
		1,081,984	1,202,303	1,168,104	1,138,769
		60,654	19,770	22,266	1,600
		137,995	26,941	138,605	113,858
		1,337,775	1,399,258	1,540,978	1,545,949
		328,642	369,000	329,800	333,414
		2,897,743	2,882,247	2,910,271	3,322,177

:

< 1- 1- 28>

(: M/T)

		1997		1998			
		Min Max		Min Max			
WW/SW	Weaern White/Soft White	WW/SW		495,603	21.3	339,416	15.8
HRW	Hard Red Winter	WW/SW(9.5%)	9.5	121,893	5.3	132,715	6.2
HW	Hard Winter	WW/SW(10%)	10	-	-	91,634	4.2
SRW	Soft Red Winter	WW/SW(10.5%)	10.5	12,760	0.6	-	-
DNS	Dark Northern Spring	HRW(11.5%)	11.5	435,662	18.7	420,173	19.6
		DNS(14%)	14	426,530	18.3	312,738	14.6
				1,492,448	64.2	1,296,676	60.4
ASW	Australian Standard White	ASW		559,804	24.1	596,524	27.8
AS	Australian Soft	AS		123,765	5.3	82,463	3.8
AH	Australian Hard	AH		52,752	2.2	40,379	1.9
				736,321	31.6	719,366	33.5
CWRW	Canada Western Red Winter	CWRS(11.5%)	11.5	7,590	0.3	27,136	1.3
CWSWS	Canada Western Soft White Spring	CWRS(13.5%)	13.5	89,460	3.9	102,834	4.8
CWRS	Canada Western Red Spring			97,050	4.2	129,970	6.1
				2,325,819	100	2,146,012	100

:

< 1- 1- 29> 가

(: %)

	1991	1992	1993	1994	1995	1996	1997	1998
가	2.8	2.7	3.4	3.5	4.4	10.3	6.3	8.3
	7.4	6.7	6.7	7.4	5.1	3.4	4.0	5.9
	48.7	52.5	51.9	53.2	51.0	43.3	41.7	41.9

< >

(: %)

	1991	1992	1993	1994	1995	1996	1997	1998
	12.7	13.0	12.4	12.9	13.0	12.3	12.8	13.6
	9.6	8.4	9.5	9.7	10.4	10.3	9.7	9.1
	4.8	3.7	3.7	2.9	2.3	2.1	2.9	2.3
	2.8	3.0	2.1	2.9	3.6	2.9	2.7	1.6
	3.7	3.9	4.0	3.3	3.5	3.2	3.0	3.4
	7.5	6.1	6.3	4.2	6.7	12.2	16.9	13.9
	100	100	100	100	100	100	100	100
()	1,447	1,460	1,523	1,551	1,611	1,618	1,709	1,632

:

< 1-1-30> 가

(: /)

	1993	1994	1995	1996	1997	1998
	140.80	134.74	168.79	196.27	158.55	127.31
	147.02	151.22	175.41	216.32	173.68	144.45
NS/DNS	181.90	193.15	191.54	232.33	184.92	167.18

) NS/DNS . FOB :

< 1-1-31> 가

(: 36kg/)

	1993	1994	1995	1996	1997	1998
	15,708,881	15,828,463	15,937,037	16,796,880	17,550,982	16,596,694
	15,660,987	15,905,483	16,901,545	16,703,353	17,637,996	16,593,879
	111,472	34,452	69,644	163,471	76,457	79,272

:

< 1-1-32> 가

(: , %)

	1993	1994	1995	1996	1997	1998
가	999,000	976,000	1,101,000	1,016,000	1,059,000	1,097,000
	65.9	63.9	62.8	62.1	62.9	66.4
가	234,000	247,000	263,000	288,000	288,000	263,000
	15.4	16.2	16.4	17.6	17.0	15.9

< >

(: , %)

		1993	1994	1995	1996	1997	1998
가		215,000 14.2	237,000 15.5	265,000 16.5	272,000 17.0	272,000 16.1	234,000 14.2
가		53,000 3.5	60,000 3.9	67,000 16.5	58,000 3.6	66,000 3.9	57,000 3.4
가		15,000 1.0	8,000 0.5	2,000 0.1	2,000 0.1	1,000 0.1	1,000 0.1
		1,516,000	1,528,000	1,607,000	1,636,000	1,685,000	1,652,000

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< 1-1-33 >

(:)

				(가)				
					()	(가)		
1993	11,166	3,387	4,000	18,553	12,711	5,260	136	18,107
1994	12,390	2,234	5,571	20,193	12,493	6,402	497	19,392
1995	12,708	500	8,287	21,495	13,005	5,632	1,096	19,773
1996	14,000	3,700	8,929	26,629	16,100	6,977	1,331	24,419
1997	14,970	2,327	8,838	26,135	16,275	7,202	1,472	24,949
1998	14,270	1,189	8,942	24,401	14,927	6,978	1,598	23,503

:

) ()가

< 1-1-34 >

(:)

						가	
1993	4,400	115	351	180	2,470	3,166	
1994	1,316	187	632	606	2,614	4,039	
1995	3,096	45	42	138	2,833	3,058	
1996	4,953	159	445	142	3,624	4,370	
1997	5,720	172	462	157	3,742	4,533	
1998	5,420	164	476	159	3,812	4,611	

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< 1-1-35>

(:)

1993	296,936	238,457	77,082	245,505	43,759	901,549	170,826	1,072,355
1994	309,012	258,095	83,312	269,602	41,781	960,802	172,171	1,132,973
1995	333,400	230,336	81,247	251,839	18,289	915,111	180,254	1,095,365
1996	377,720	256,780	102,700	279,368	12,809	1,029,377	177,865	1,207,242
1997	392,267	265,961	101,400	295,685	17,099	1,072,052	172,221	1,244,273
1998	354,221	234,266	80,364	264,855	55,914	989,620	156,768	1,146,388

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< 1-1-36>

(:)

1994	32	8	83	59	87	39	308
1995	31	10	100	65	94	33	333
1996	30	9	110	70	107	52	378
1997	32	10	110	68	109	55	384
1998	25	8	94	59	99	69	354

:

< 1-1-37>

(: kg,)

1994		5,934,070	13,014
		1,348,939	21,629
1995		26,627,000	14,000
		7,533,000	7,000
1996		28,796,000	6,000
		9,054,000	4,000
1997		31,894,000	7,000
		10,576,000	22,000
1998		49,501,000	16,000
		10,691,000	8,000

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< 1-1-38 >

(:)

		1994	1995	1996	1997	1998
		78,128	112,561	104,552	106,782	108,162
		12,708	17,527	12,860	14,970	15,143
		12,841	38,630	46,287	68,000	68,792
		1,316	4,100	4,953	60,000	60,537
		1,492,160	1,415,327	1,584,095	1,620,701	1,657,834
		960,802	915,111	1,029,376	1,072,052	989,652
		1,599,461	1,566,518	1,734,993	1,795,483	1,834,788
		976,606	936,738	1,047,189	1,147,022	1,065,332

:

1-1-4

< 1-1-39 >

		가	
()	1953. 8. 1	1953. 11	
()	1954. 8. 30	1955. 5	
()	1954. 12. 30	1956. 8	
()	1955. 12. 1	1956. 1	
()	1956. 2. 20	1956. 8	
()	1956. 3. 27	1957. 1	
()	1957. 7. 16	1957. 7	

:

< 1-1-40 >

(: ,)

1993	676,474	396,451	-	34,613	1,107,538	288,479
1994	706,400	287,800	136,550	92,228	1,222,978	350,430
1995	680,155	364,321	150,445	110,780	1,305,701	440,073
1996	621,595	628,655	109,898	38,879	1,399,027	443,073
1997	662,274	527,280	34,300	-	1,223,854	356,877
1998	708,000	90,000	243,000	162,000	1,203,000	310,247

:

< 1-1-41> 가

(: , %)

		1993	1994	1995	1996	1997	1998
		638	662	671	675	696	601
		90.5	89.5	89.3	89.1	90.2	89.7
		4.2	6.6	0.2	0.5	3.1	13.6
		56	70	68	69	63	59
		7.9	8.9	8.6	8.9	8.1	8.8
		7.7	21.4	0.2	0.1	8.6	6.3
		11	13	13	14	12	10
		1.6	1.6	1.6	1.6	1.6	1.5
		5.9	9.1		0.1	14.2	16.6
		705	752	767	748	771	670
		100	100	100	100	100	100
		3.4	6.6	0.2	2.4	3.0	13.1

:

< 1-1-42>

(: , %, kg/)

1993	325	9.2	31.6	705	3.4	16.0	1,030	5.3
1994	377	16.0	33.2	760	7.8	17.1	1,137	10.4
1995	356	5.6	31.8	763	0.4	17.0	1,119	1.6
1996	397	11.5	34.0	769	0.7	17.0	1,166	4.2
1997	347	11.5	11.5	786	0.7	18.28	1,133	4.2
1998	350	0.8	34.2	670	13.2	65.8	1,021	8.7

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< 1-1-43>

(: , %)

	1994/ 1995	1995/ 1996	1996/ 1997	1997/ 1998	1998/ 1999
	116.1	129.9	126.0	125.0	126.0
	114.6	117.7	120.0	123.0	124.0
	33.3	36.8	40.0	39.0	42.0

: F.O. Light World Sugar B

< 1-1-44> 가

(: /)

	1994	1995	1996	1997	1998
	461	465	393	350	320
	300	281	298	266	230
	358	366	355	308	275

:

< 1-1-45> 가

(: , %)

	가			가				
	E	U		E	U			
1			19,047	14.4		14,850	11.5	13,917
2			13,805	12.4		15,570	12.4	14,917
3			16,975	10.3		9,300	7.4	8,957
4			2,980	5.4		9,100	7.1	8,550
5			7,355	5.8		8,550	7.1	8,561
6			5,897	4.4		5,600	4.5	5,430
7			3,000	3.8		4,300	3.5	4,298
8			1,300	2.3		3,275	2.5	3,086
9			4,330	5.2		3,115	2.5	3,073
10			5,591	3.8		2,370	1.8	
			46,742	31.9		47,239	39.3	
			126,022	100		123,536	100	

: F.O. Light World Sugar B

) 1997/1998

< 1-1-46>

(: ,)

1984	339,244	177,060	66,388	213,887	796,579	181,521
1985	396,145	169,222	148,109	179,122	892,598	143,821
1986	323,780	387,566	202,450	74,053	987,849	171,428
1987	256,639	400,154	397,610	34,379	1,088,782	186,433
1988	465,894	343,796	265,222	22,210	1,097,122	259,578

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(: ,)

1989	496,906	445,366	194,426	18,538	1,158,236	343,475
1990	394,914	474,600	223,866	4,000	1,097,380	367,184
1991	293,239	543,011	206,285	-	1,042,535	275,843
1992	402,521	631,990	43,114	45,871	1,123,496	284,674
1993	676,474	396,451	-	34,613	1,107,538	288,489
1994	706,400	287,800	136,550	92,228	1,222,978	350,430
1995	680,155	364,321	150,445	110,870	1,305,791	440,451
1996	621,595	628,655	109,898	38,879	1,399,087	443,073
1997	662,274	527,280	34,300	-	1,223,854	356,877

< 1-1-47 >

(Refined sugar)	가 가 , 99.9%	가	Bulk, 1ton, 30kg, 15kg, 10kg, 5kg, 3kg, 1kg, 500g
(White Brown sugar)	, 96.5%		15kg, 3kg, 1kg
(Dark Brown sugar)	가 가 가 90%		15kg, 1kg
(Glanulaed sugar)	가 가		Bulk, 1ton, 30kg
(Large Crysta sugar)	,		30kg
(Cube sugar)	4 ,		, , 3.3kg, 2.7kg
(Icing sugsr)	(3%) ,	, ,	20g
(Soft sugar)	Frost Sugar , 가		1kg

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Golden Syrup			25kg
가	가	.	1kg, 500g, 400g
Tea Sugar	1		4g, 5g, 6g, 7g

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1- 1-5

< 1- 1-48>

(: ha)

	(%)		(%)		(%)		(%)	
1995	3,733	100	5,642	89	9,375	93	40	60
1996	3,435	92	5,505	98	8,940	95	38	62
1997	3,188	93	6,715	122	9,903	111	32	68
1998	2,902	91	7,447	111	10,349	105	28	72

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< 1- 1-49>

(: MT)

1993	39.2	56.4	76.9	54.0	226.5	14.4	240.9
1994	22.8	34.6	65.1	38.3	160.8	13.3	174.1
1995	28.7	28.6	68.1	8.4	133.8	16.8	150.6
1996	12.7	28.5	104.8	27.2	172.7	9.3	182.0
1997	8.8	13.5	75.8	19.9	118.0	2.4	120.4
1998	14.5	18.1	97.3	24.2	154.1	3.1	157.2

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< 1- 1-50>

(: kg, l, %)

	1993	1994	1995	1996	1997	1998
	66	73	76	72	670,394	63
	801,913	898,636	725,889	730,969	28,272	606,603
	34,910	32,830	22,640	22,636	11,131	25,154

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(: kg, l, %)

	1993	1994	1995	1996	1997	1998
	8,090	8,536	8,912	9,081	18,414	32,107
	81,040	78,231	41,997	30,775	4,576,365	24,604
	16,673,819	12,356,477	7,065,469	4,787,818	-	3,690,115
	321,601	217,509	98,673	89,773	77,055	-
	54,621	37,579	33,745	64,317	2,300,328	220,871
	1,480,988	2,564,113	2,000,643	2,375,643	7,681,959	22,000
	19,456,982	16,193,911	9,997,739	8,111,012	7,681,959	4,621,454

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< 1- 1-51>

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	1994	1995	1996	1997	1998
	10,938,808 (24.3)	9,811,783 (18.4)	6,929,844 (19.8)	4,924,981 (14.9)	5,107,369 (25.0)
	23,683,036 (52.6)	34,402,909 (64.5)	19,652,746 (56.1)	22,167,531 (67.1)	8,954,691 (43.8)
	2,125,520 (4.7)	1,406,646 (2.6)	1,405,534 (4.0)	512,529 (1.5)	499,693 (2.4)
	353,296 (0.8)	322,905 (0.6)	393,033 (1.1)	246,787 (0.8)	349,465 (1.7)
	1,638,959 (3.6)	1,735,283 (3.3)	2,525,671 (7.2)	1,841,932 (5.6)	1,817,933 (8.9)
	2,799,204 (6.2)	2,604,481 (4.9)	2,091,586 (6.0)	1,215,740 (3.7)	883,540 (4.3)
	3,520,231 (7.8)	3,057,145 (5.7)	2,014,148 (5.8)	2,135,175 (6.4)	2,837,538 (13.9)
	45,059,054 (100)	53,341,152 (100)	35,012,562 (100)	33,062,675 (100)	20,451,229 (100)
가	55	65	58	62	53

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< 1- 1-52>

(: ha)

	2	3	4	5	6		가()
1993	888	808	759	660	495	3,610	15,171
	2,026	2,441	2,517	329	63	7,376	28,622
	2,914	3,249	3,276	989	558	10,986	43,793

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(: ha)

		2	3	4	5	6	가()	
1994		864	884	787	639	576	3,750	14,628
		1,799	2,005	2,299	184	86	6,373	22,906
		2,663	2,889	3,086	823	662	10,123	37,534
1995		890	862	870	594	517	3,733	13,510
		1,674	1,791	1,984	159	34	5,642	20,102
		2,564	2,653	2,854	753	551	9,375	33,612
1996		722	890	850	638	335	3,435	11,571
		1,934	1,645	1,753	163	10	5,505	18,452
		2,656	2,535	2,603	801	345	8,940	30,023
1997		536	711	867	718	356	3,188	10,587
		2,969	1,956	1,671	101	18	6,715	20,323
		3,505	2,667	2,538	819	374	9,903	30,910
1998		453	535	708	731	475	2,902	10,203
		2,467	2,986	1,952	38	4	7,447	22,347
		2,920	3,521	2,660	769	479	10,349	32,550

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< 1-1-53 >

(: , kg)

		1992	1993	1994	1995	1996	1997.8
		/	/	/	/	/	/
		93,423	69.17	65,921	69,263	55,959	21,837
		727,047	675,028	930,546	758,148	720,380	16,903
		0.77	0.828	1.406	0.673	2.087	1.049
		6,485	9,426	21,507	23,249	49,097	32,523
		1.494	1.437	2.091	1.916	1.846	0.785
		13,100	27,740	44,784	35,366	38,444	285,015
가		2.272	4.468	2.604	2.749	2.829	1.197
		13,100	13,543	9,464	16,084	14,400	5,699
		5.819	4.382	3.478	2.617	1.902	1.159
		59,804	59,962	67,136	38,303	25,185	17,722
		1.899	0.844	0.333	0.601	1.313	0.276
		31,952	22,480	7,078	9,555	18,543	6,550
		105.677	81.129	75.833	77.819	65.936	26.303
		864,443	808,179	1,080,697	880,705	866,049	364,411

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(: , kg)

		1992	1993	1994	1995	1996	1997.8
		/	/	/	/	/	/
		2.398	2.231	0.981	3.111	4.026	2.55
		44,322	76,769	58,816	69,467	92,471	74,775
		3.893	3,254	3.243	2.401	3.084	3.097
		343,911	376,147	404,336	356,796	387,911	328,081
		3.182	2.72	1.798	4.333	3.01	2.182
		33,225	46,423	32,462	43,037	37,377	22,320
		1.075	0.648	0.586	0.696	1.15	0.458
		11,780	11,311	8,703	12,803	31,093	15,872
		0.06	0.082	0.037	0.023	0.087	0.189
		1,579	1,712	880	537	2,091	2,240
		0.132	0.106	0.331	0.079	0.209	0.021
		7,765	14,996	15,743	20,228	36,504	8,129
		10.74	9.041	6.886	10.643	11.566	8.497
		442,582	527,358	520,940	505,868	587,447	451,417

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2.

< 2-1>

1940	
1970	
1980	
1990	,
2000	

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< 2-2>

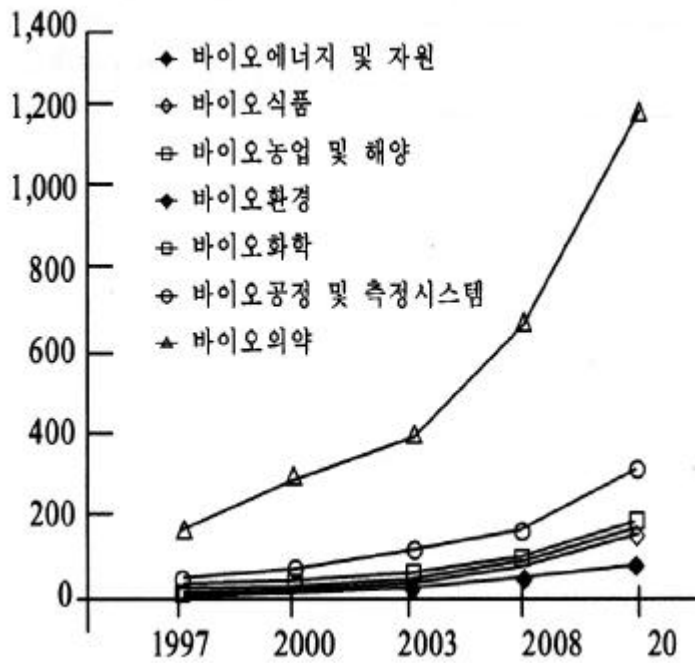
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< 2-3 >

	1997	2000	2003	2008
	313	540	740	1,250
	7,070	9,210	12,340	1,320
	1,470	1,480	2,125	3,701

: Ernst & Young LLP('98), Dataguest('98), KISDI('98)



< 2-1 >

< 2-4>

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	1997	2000	2003	2008	2013
	188	324	444	688	1,155
	22	38	52	100	168
	18	32	44	87	147
	16	27	37	75	126
	6	11	15	37	63
	16	27	37	75	126
	47	81	111	188	315
	313	540	740	1,250	2,100

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) OECD Consulting Resources Corporation
60% , 2008, 2013 55%

1997, 2000, 2003

< 2-5>

(1997)

(: %)

	(313)
	60.1
	15.0
	7.0
	5.8
	5.1
/	5.1
/	1.9

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