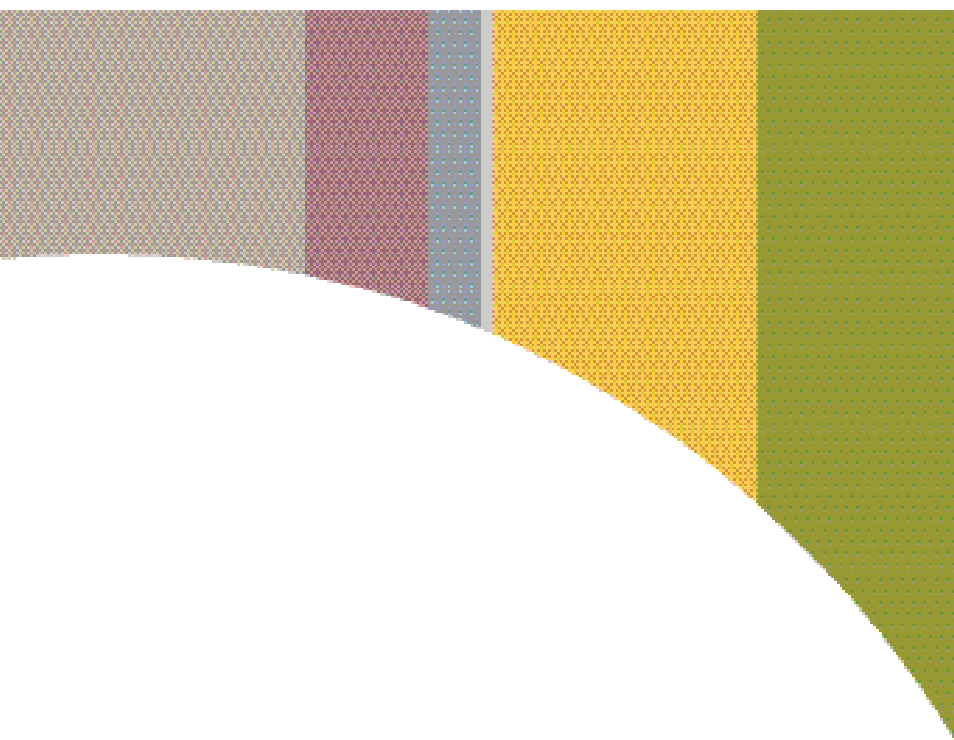


# Korean Coastal and Offshore Fishery Census



[ ]



해양수산부  
국립수산과학원  
National Fisheries Research &  
Development Institute





가 240

가

가

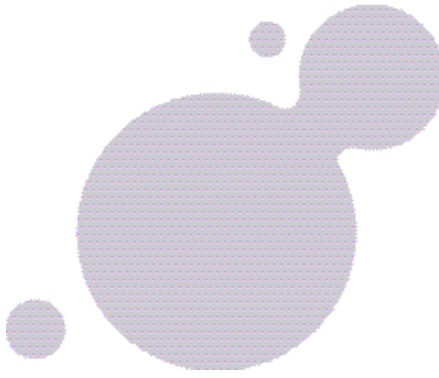
2002 ~ 2004 3

가

2004. 12.







# 發 刊 辭

가  
,

가 .

, EEZ

EEZ

2002 2004

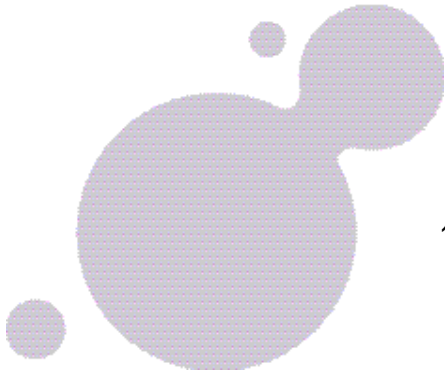
( )가

가

EEZ .

2004. 12.





1.

2002 2

,  
, 2002 5 ,  
, ( )  
, ,  
.

, 2002 9 2004 12 ,  
.  
: 11

2.

가.

- (1) : 가 , ,  
, ,
- (2) : 가 , ,
- (3) : ( ) 가 ,  
, ,
- (4) : ,  
, .

3.

가  
2003 12 , 2002 12 .  
2004 8  
2003 12  
1  
1 , 8 .  
1 9 .

1.	가 .	15
2.		15
3.		16
4.		17

1.	가 .	
	가.	21
	.	23
	.	24
	.	25
	.	25
2.	가.	
	1)	27
	가)	27
	)	33
	) ( )	38
	) ( )	43
	) ( )	45
	) ( )	48
	)	50
	)	55
	)	60
	)	62
	)	65

)	.....	68
2)	.....	70
가)	.....	70
)	.....	75
)	.....	78
)	( ) .....	83
)	.....	88
)	.....	92
3)	.....	94
가)	.....	94
)	.....	97
)	.....	100
)	.....	103
)	.....	107
)	.....	109
4)	.....	112
가)	.....	112
)	.....	113
5)	.....	115
.		
1)	.....	116
2)	.....	117

3.

가.

1)	.....	125
2)	.....	126
.		
1)	.....	128
2)	.....	129
3)	.....	131

4.			
가.			
1)			203
가)			203
)			204
)			209
2)			217
가)			217
)			218
)			224
)	가	가	230
3)			234
가)			234
)			235
)			238
)			241
.			
1)			245
가)			245
)			248
)			252
)		가	254
2)			260
가)			260
)	가		261
)			263
)		가	267





# CHAPTER 1

1. 가 .
- 2.
- 3.
- 4.



1. 가 .

가 2003 12 31 , 가 2002 12 31 가  
1998 2003 .

2.

가. (CPUE)

, 2 . . . . .  
,  
2002 10 2003 12 .  
.  
, ( , )  
, .  
.  
2  
,  
2002 10  
2003 12 가 .

6

(Mitutoyo, CD-15)  
 0.1cm (Sartorius, M-5500S) 0.01g  
 (immature), (maturing), (mature), (spent) 4  
 (gonadosomatic index : GSI) / ×100

(w)/ (W)× (w )】  
 Gilson (Love and Westphal, 1981)

가 1cm  
 , 50% logistic

### 3.

가.

mm

3 , 3~5 , 5~8 3

mm

m

4.

가.

가

가

가



# CHAPTER 2

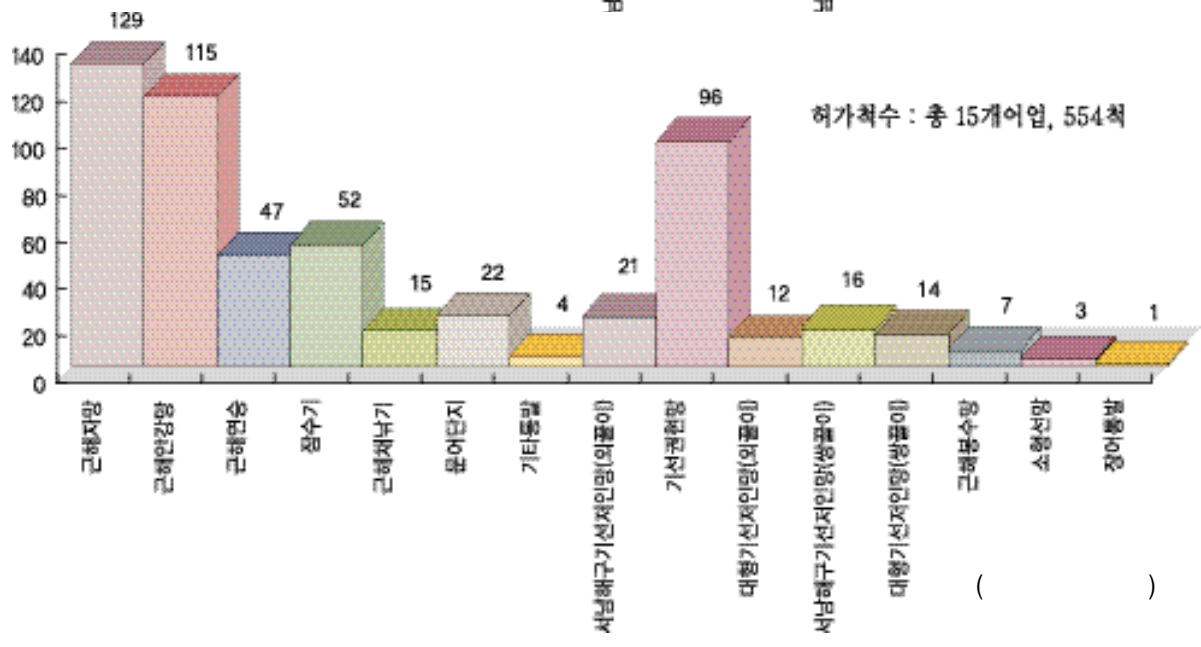
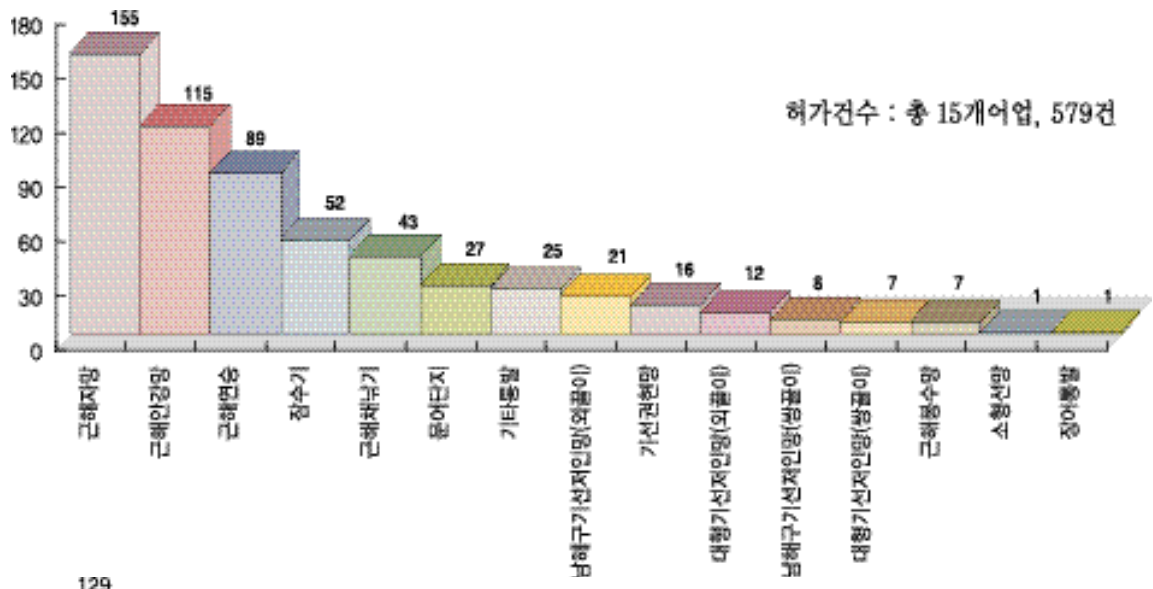
1. 가 .
- 2.
- 3.
- 4.





# [ 1. 가 . ]

가.



1-1. 가

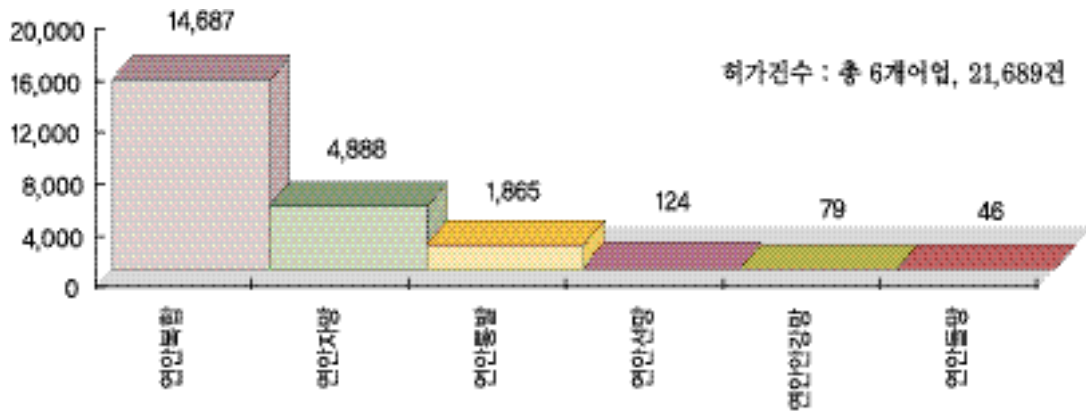
15 , 579 가 , 554 가 가 . 가  
 155 가 , 115 , 89 ,  
 52 , 43 , 27 , ( ) 21 . 가  
 129 가 , 115 , 96 ,  
 52 , 47 , 22 , ( ) 21 .

1-1.

( : )

	1998	1999	2000	2001	2002	2003	
	146,938	132,563	110,262	109,235	91,740	70,865	110,267
	72,367	53,136	38,820	42,530	34,620	25,275	44,458
( )	40,968	47,382	42,341	42,989	36,678	27,985	39,724
	4,318	15,545	14,170	9,239	8,690	4,246	9,368
( )	5,907	4,726	5,709	4,688	4,702	2,932	4,777
( )	11,755	5,053	3,854	2,784	2,461	1,214	4,520
	3,403	3,817	4,171	3,482	2,467	1,806	3,191
	6,124	1,115	7	1,064	644	6,499	2,576
( )	913	936	682	710	746	517	751
	360	684	490	280	297	291	400
	141	0	7	1,228	406	51	306
	611	49	0	1	20	1	114
	66	117	11	229	4	43	78
	5	3	0	11	5	3	5
	0	0	0	0	0	2	0.3

(1998~2003) 1998 146,938 가  
 , 2000 110,262 , 2003 70,865  
 가  
 6 , 44,458 가  
 ( ), , ( ),  
 ( ) .



1-2. 가 ( )

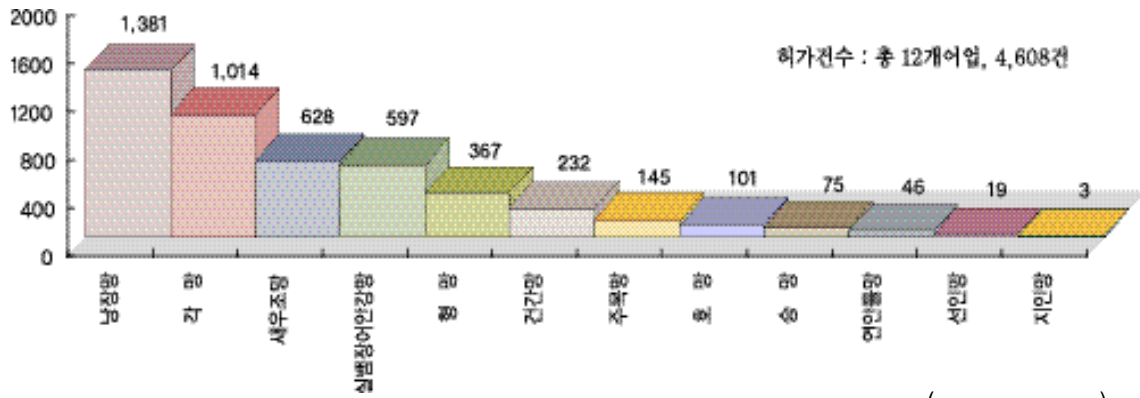
6 , 21,689 가 가 . 가  
 14,687 가 , 4,888 , 1,865 , 124 ,  
 79 , 46 .

1-2. ( : )

	1998	1999	2000	2001	2002	2003	
	35,692	47,164	45,798	49,898	48,692	47,026	45,712
	24,243	30,299	27,515	31,968	27,784	23,293	27,517
	5,736	6,777	7,713	7,860	11,068	3,077	7,039
	1,997	3,830	5,523	5,537	4,439	10,269	5,266
	3,631	6,195	5,043	4,480	5,357	4,460	4,861
	0	0	0	0	0	5,867	978
	85	63	4	53	44	60	52

(1998~2003) 2001 49,898 가  
 , 2002 48,692 , 1998 35,692  
 가 .

6 , 27,517 가



1-3. 가 ( )

12 , 4,608 가 가 . 가

1,381 가 , 1,014 , 628 , 597 , 367 , 46 , 19 , 3 .

1-3. ( : )

	1998	1999	2000	2001	2002	2003	
	3,062	3,463	2,350	5,858	5,574	7,432	4,623
	446	1,470	585	2,300	3,358	3,006	1,861
	714	1,382	1,198	2,813	1,159	500	1,294
	1,764	529	499	639	927	734	849
	8	60	53	61	61	1,627	312
	32	3	15	45	69	1,161	221
	98	19	0	0	0	404	87

(1998~2003) 2003 7,432 가

, 2001 5,858 , 2000 2,350

가

6 , 1,861 가

, , , .

48 가 가 .

1-4. ( : )

	1998	1999	2000	2001	2002	2003	
	19,707	28,587	21,581	14,068	9,826	12,078	17,641

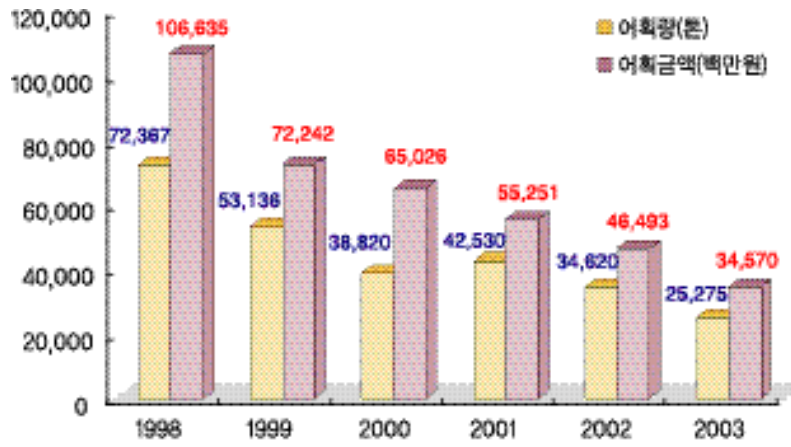
(1998~2003) 1999 28,587 가  
 , 2000 21,581 , 2002 9,826  
 가 . 6 , 17,641

1,181 , 47,551ha .



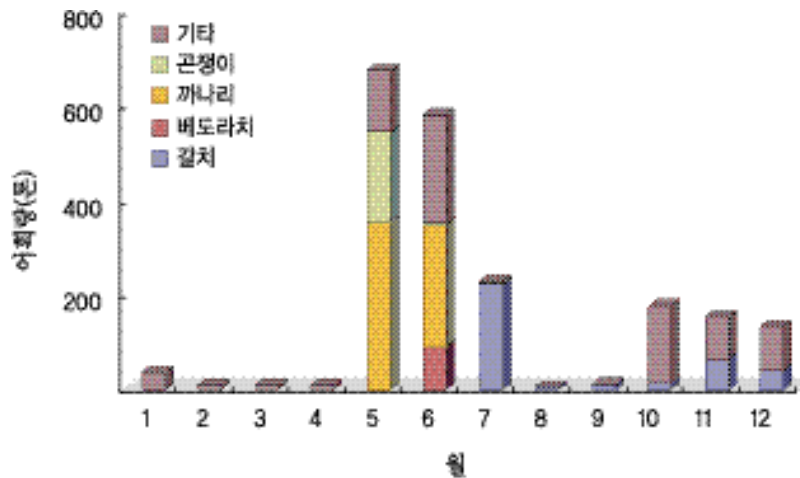
# [ 2. ]

- 가.
- 1)
- 가)



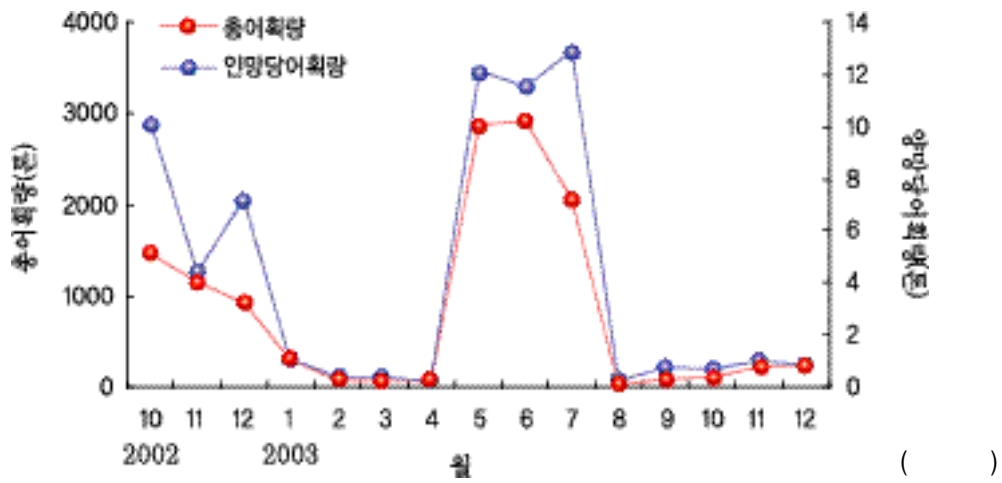
2-1.

1998 가 , 2003 25,275



2-2.

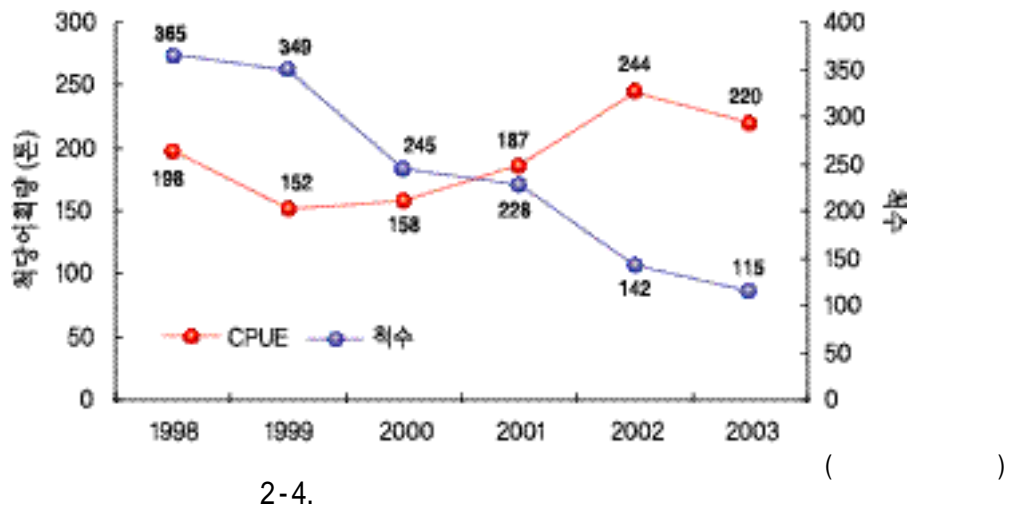
5~7 가 , 10~12



2-3.

(CPUE)

, 2002 10 , 2003 5~7

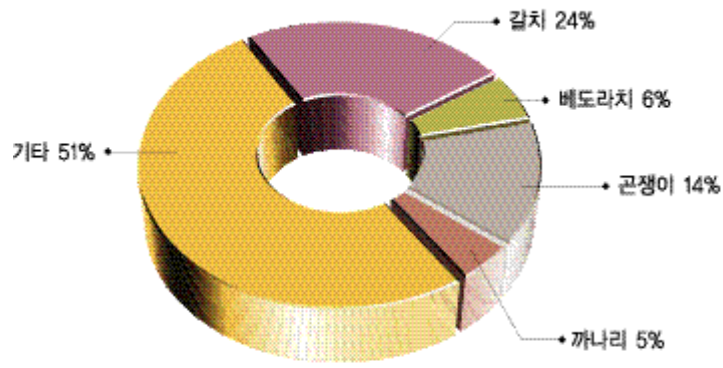


2-4.

(CPUE)

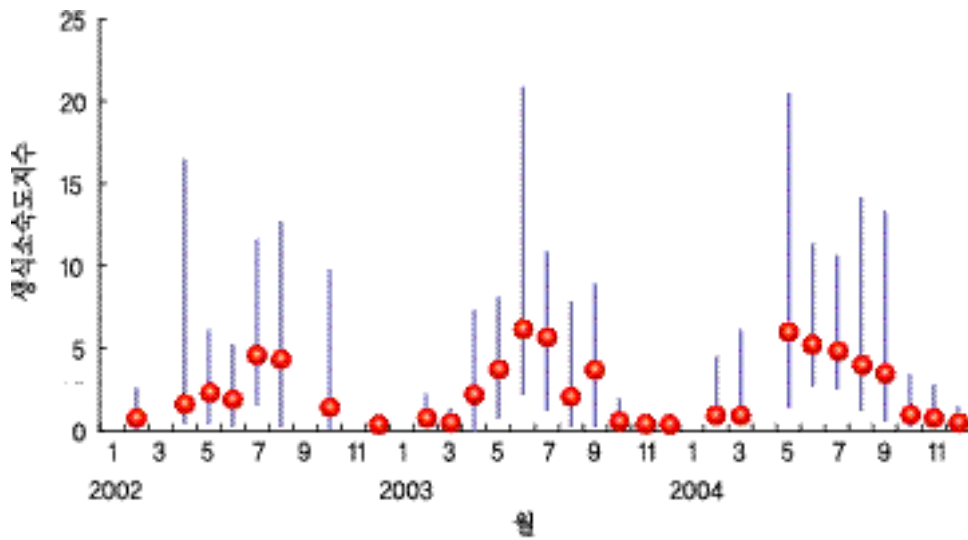
1998 365 2003 115  
 , 1998 198 가 2002 244 가  
 , 2003 220



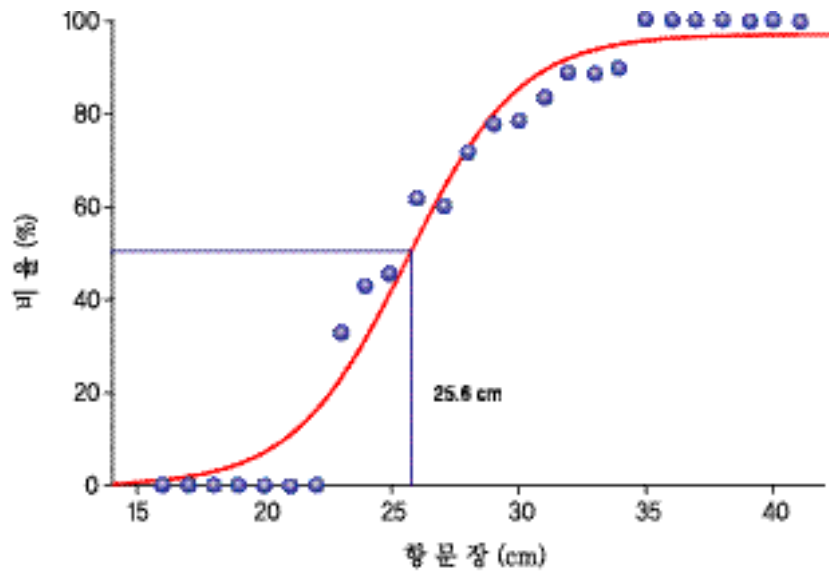


2-5.

2.5 . . . . . 4~10  
 5~9 , 267,002 ( 49.8cm), 31,145 ( 24.2cm) , 50% 25.6cm ,

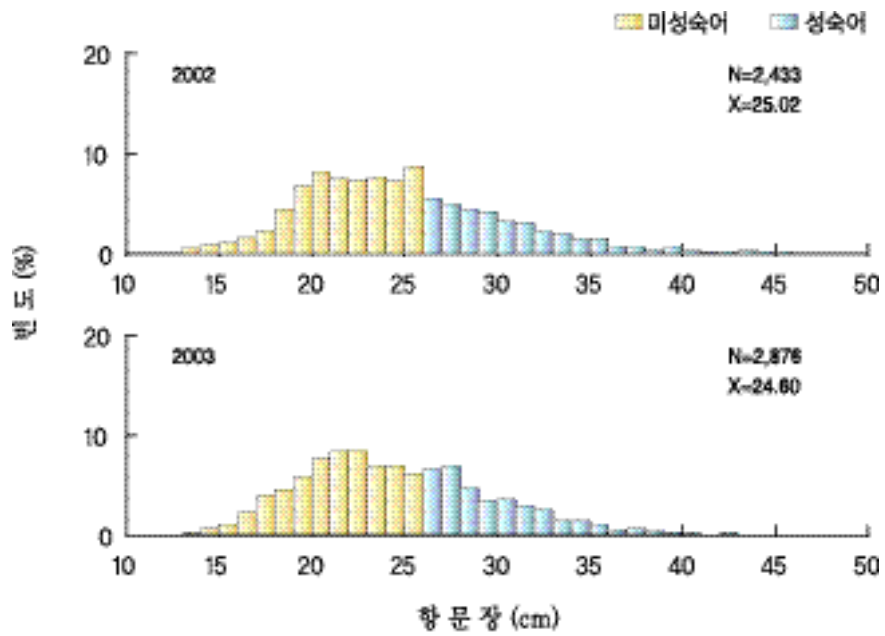


2-6.

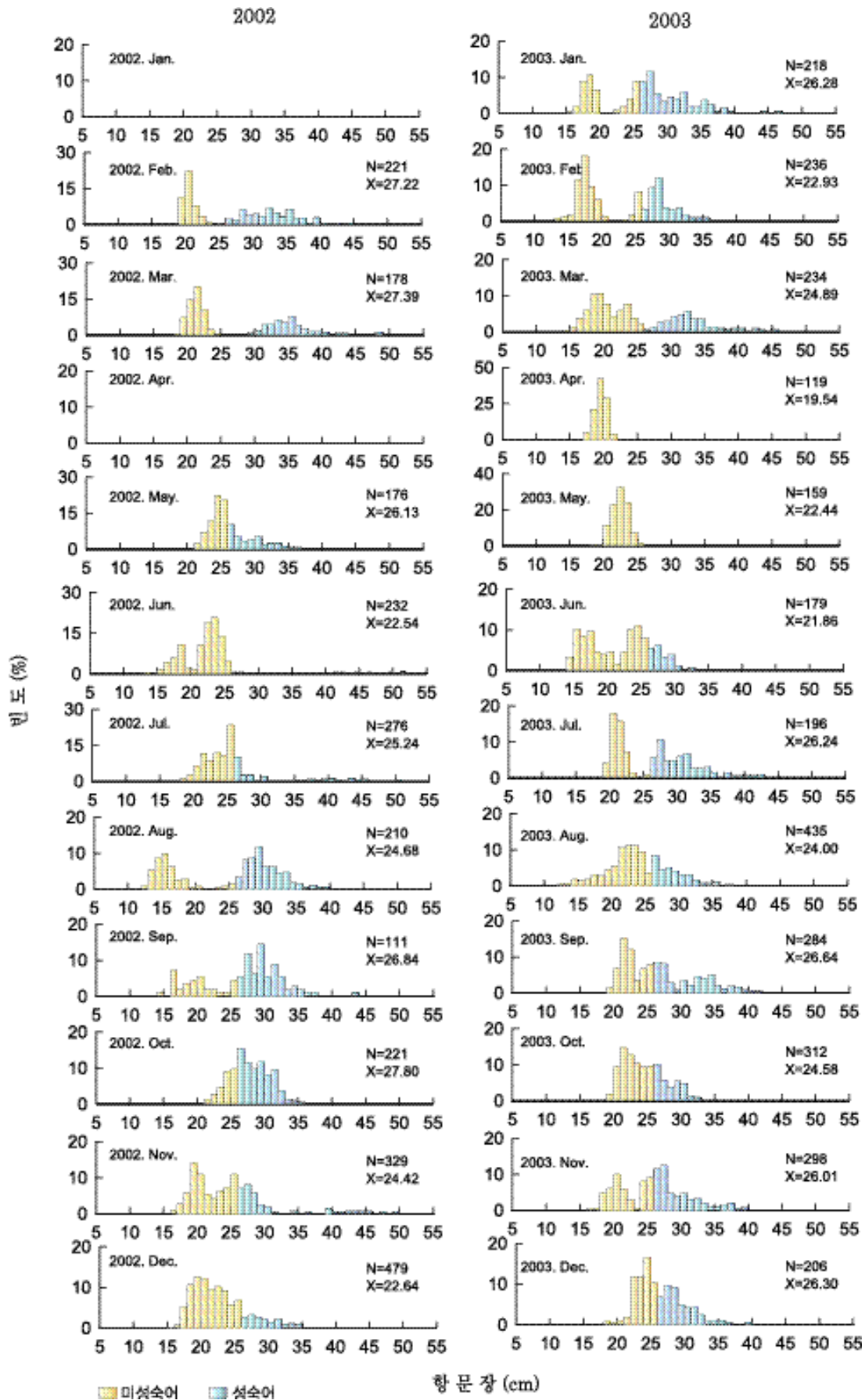


2-7.

2002 ( ) 25.02cm ( 2,433 ) , 2003  
 24.60cm ( 2,876 ) . 2002  
 1,342 55.2% , 2003 1,635 56.8%  
 . 2002 6 91%가 , 2003 4 5  
 99%



2-8.



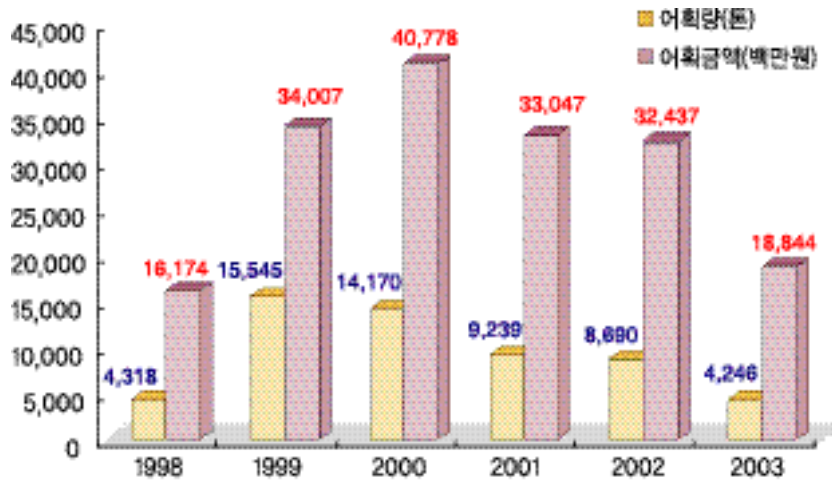
2-9.

(CPUE)

가

가

)



2-10.

( )

15,545

가

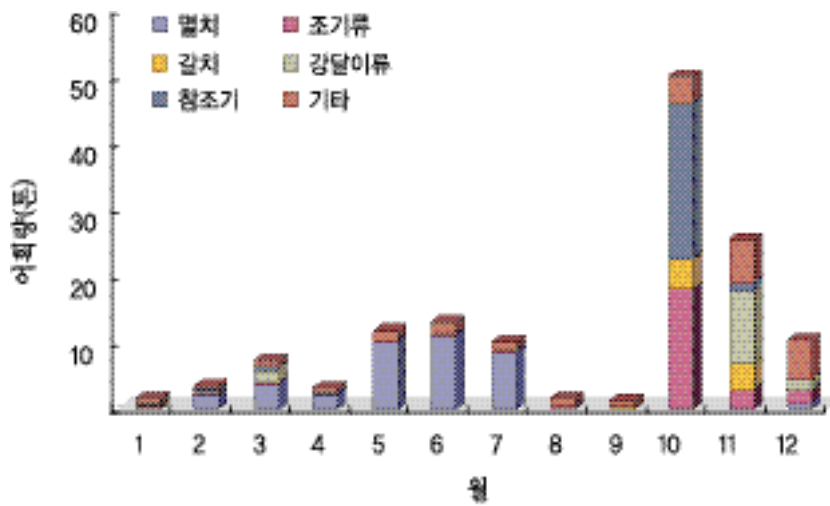
,

2003

4,246

가

1999



2-11.

( )

10

53

가

, 9

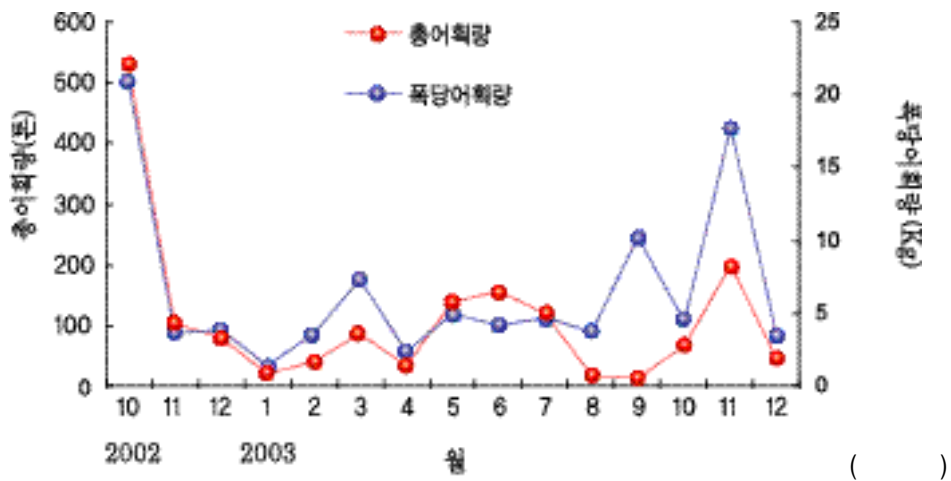
1

가

가

가

, 가

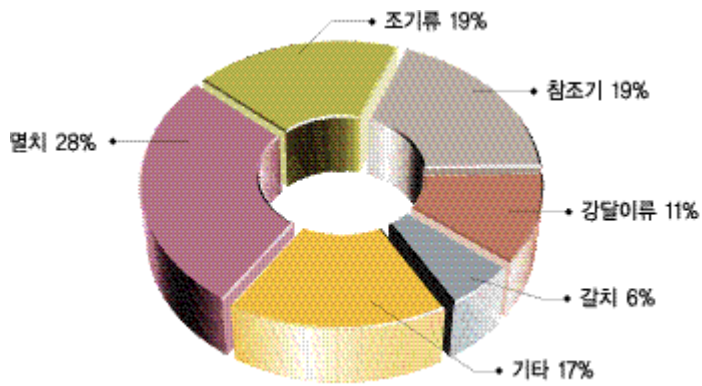


2-12.

(CPUE)

, 2002 10 가 ,

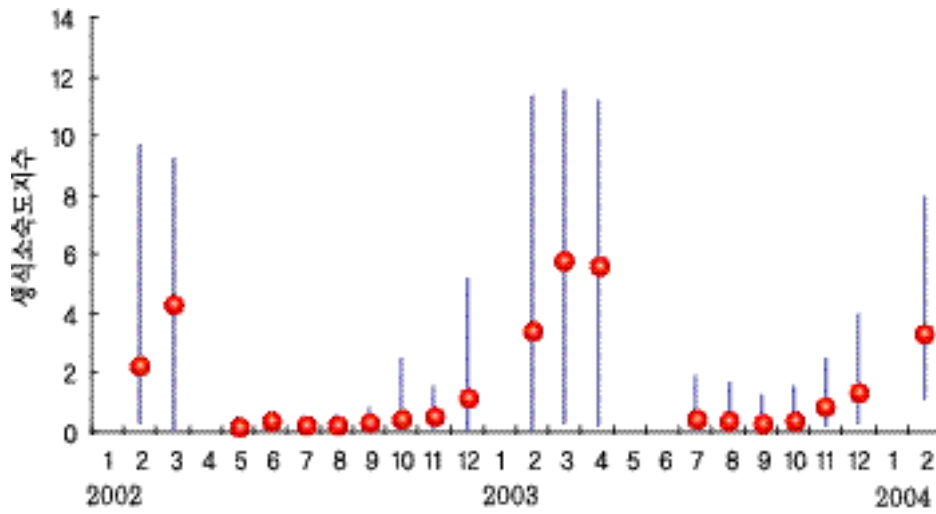
2003 11 .



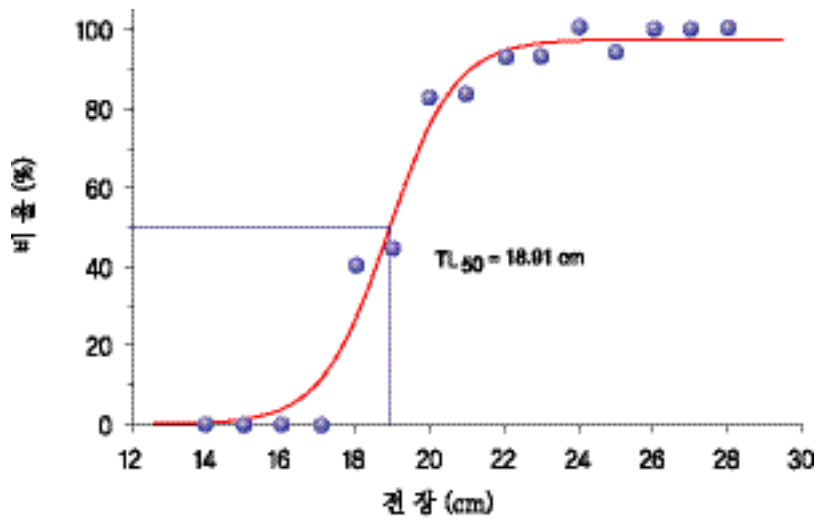
2-13.

, 가 28% 가 , , ,

2~5 (Total Length) 21.4~26.9 cm 18.9cm , 3~4 10,022~84,134 1.5 , 50%

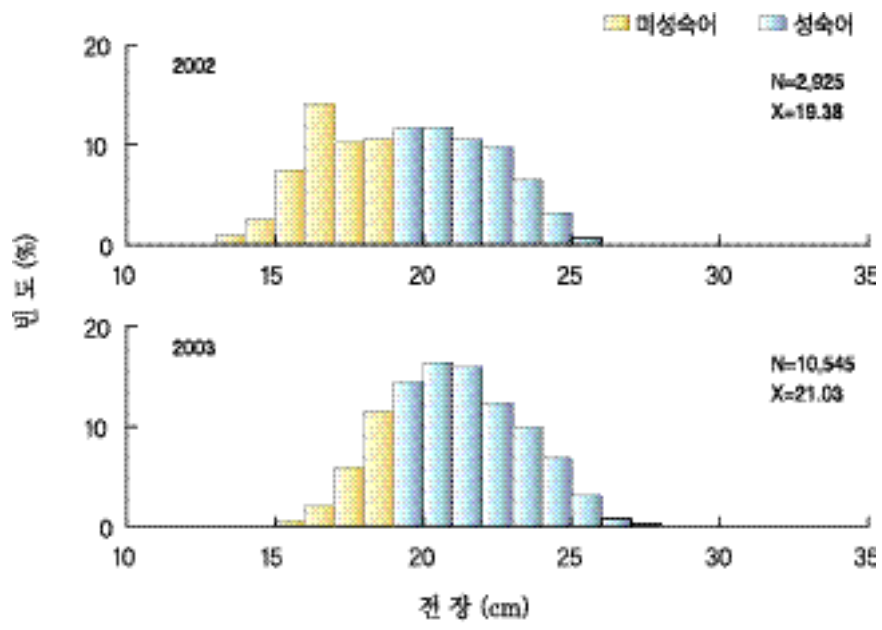


2-14.



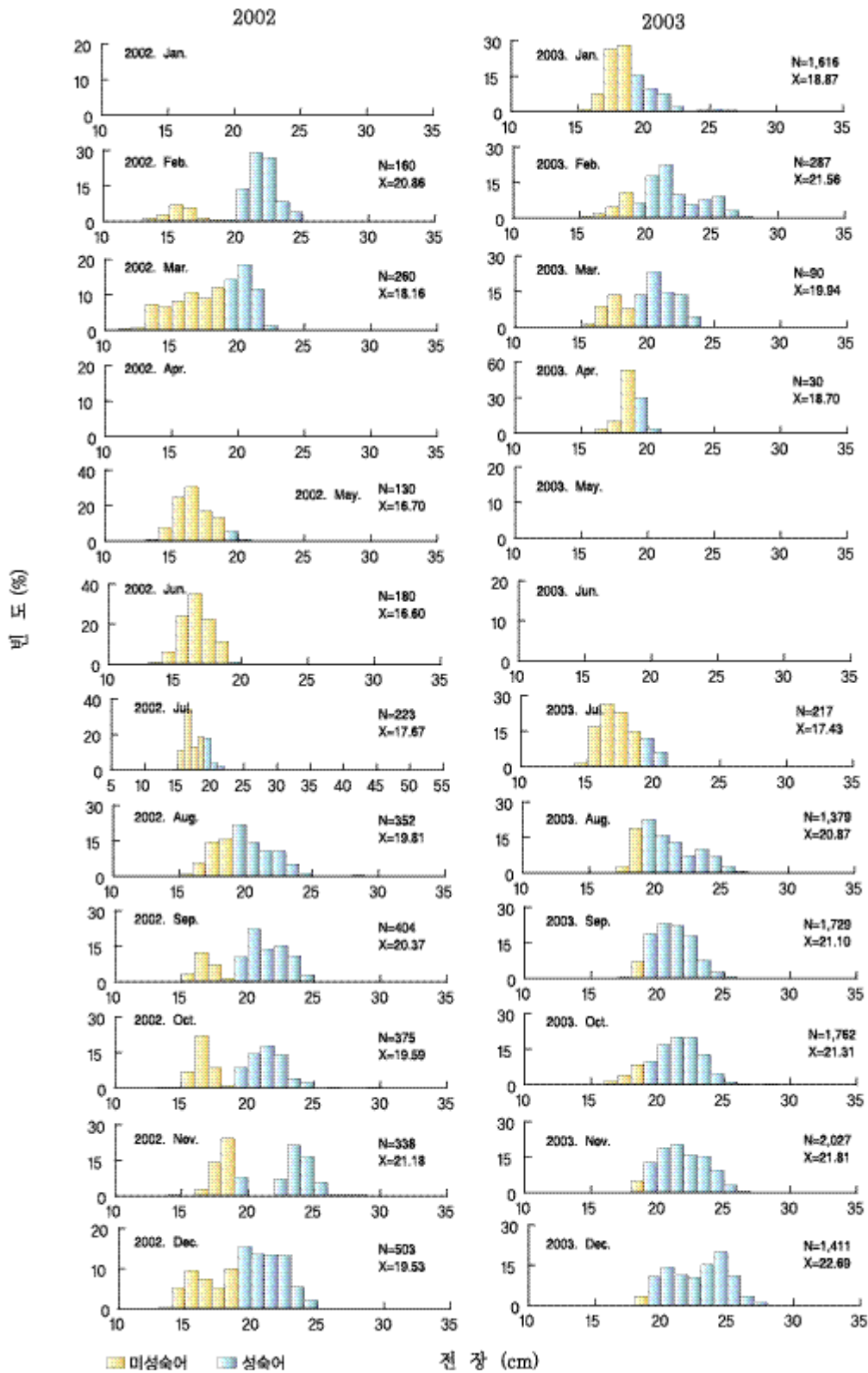
2-15.

2002 ( ) 19.38 cm ( 2,925 ) ,  
 2003 21.03 cm ( 10,545 ) . 2002  
 1,340 45.8% , 2003 2,119  
 20.2% . 2002 5 ~7 76~99%  
 , 2003 1 , 4 , 7 65% .



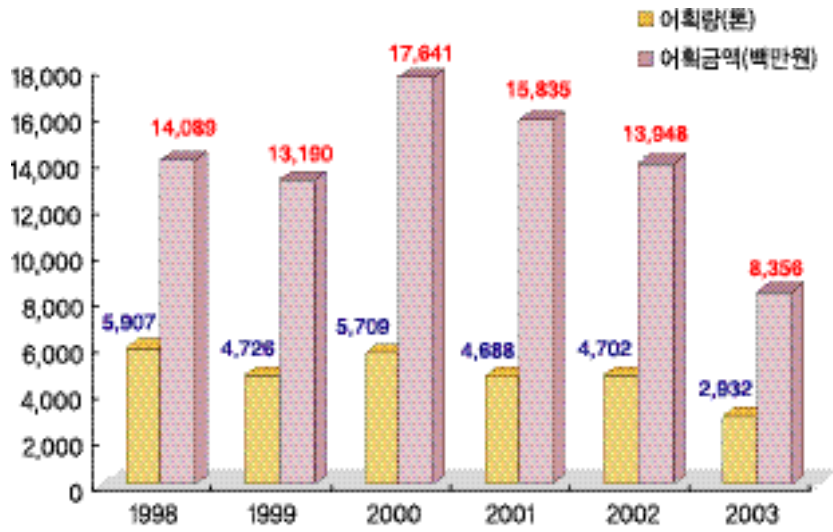
2-16.





2-17.

) ( )

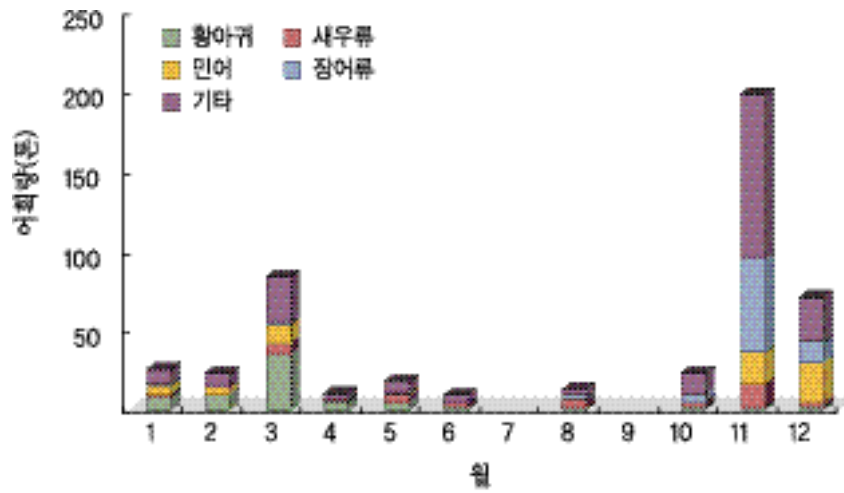


2-18.

( )

( )

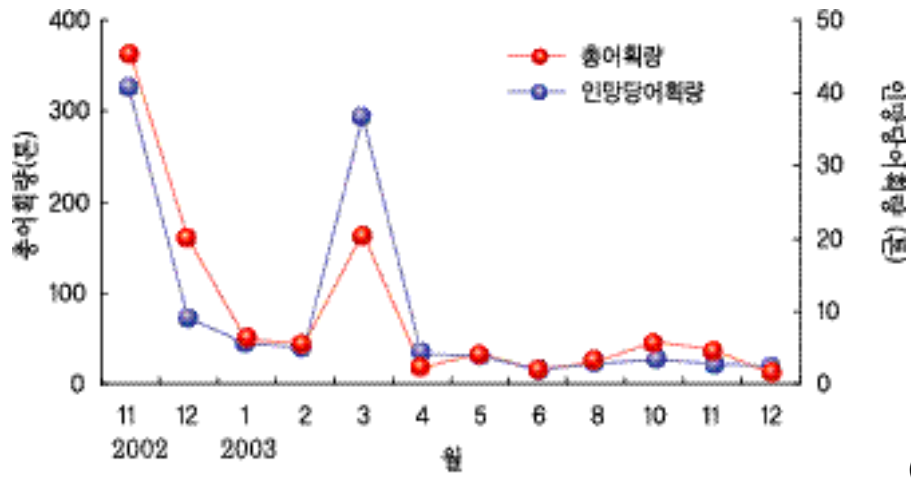
1998 5,907 가 , 가2003  
 2,932 가 2000 17,641 가 2003  
 8,356 가 .



2-19.

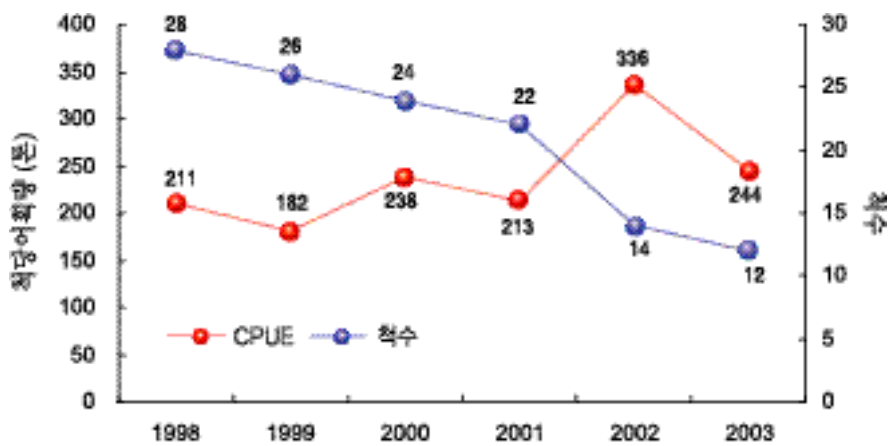
( )

11 197 가 , 6 8 가  
 , 7 9 .



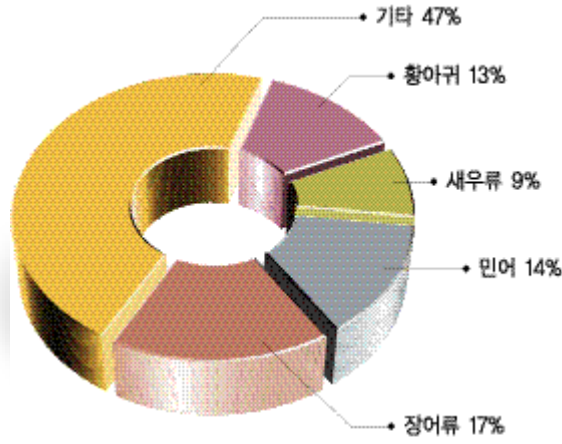
2-20.

( ) (CPUE)  
 2002 11 12 366 162  
 , 2003 3 165 , 50



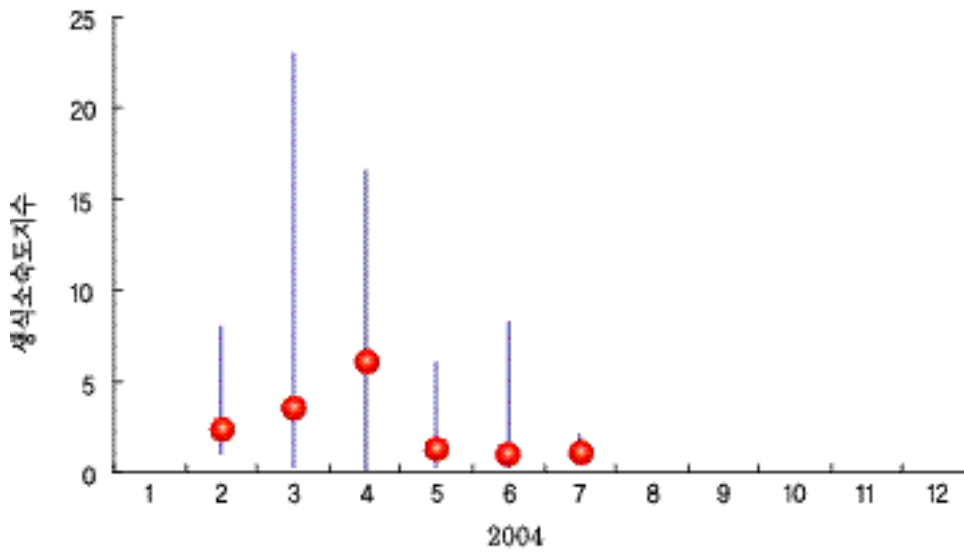
2-21.

( ) (CPUE)  
 1998 28 2003 12  
 , 2002 336 가 , 1999 182 가



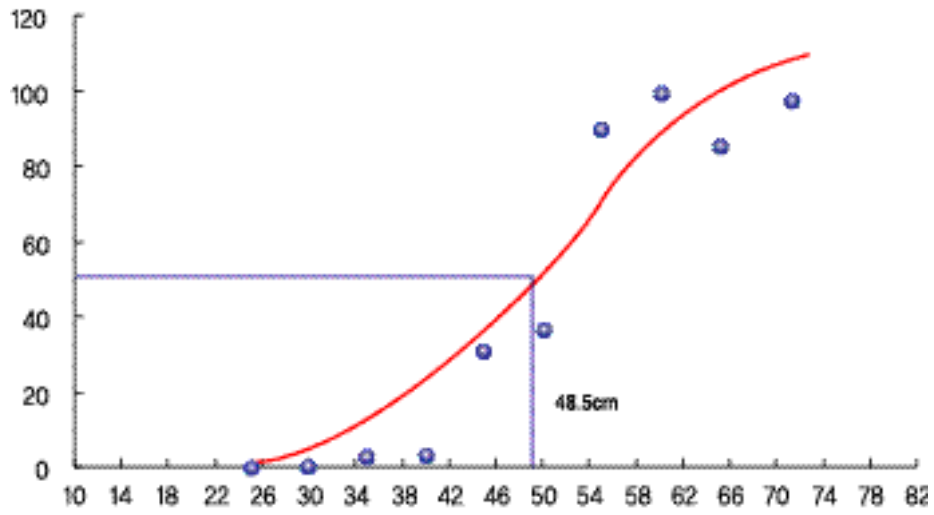
2-22.

가 17% 가 , 14%, 13%, 9% .



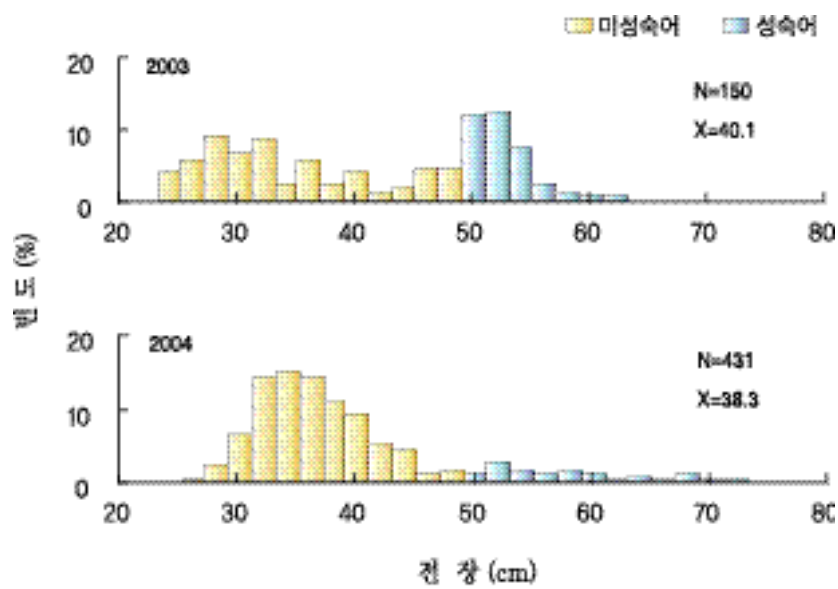
2-23.

1~5 2~4 , 50%  
 1,874,560 ( 90.25cm), 369,570 ( 52.25cm) ,  
 48.5cm, 36.4cm , 3.5 , 2.5  
 가 .

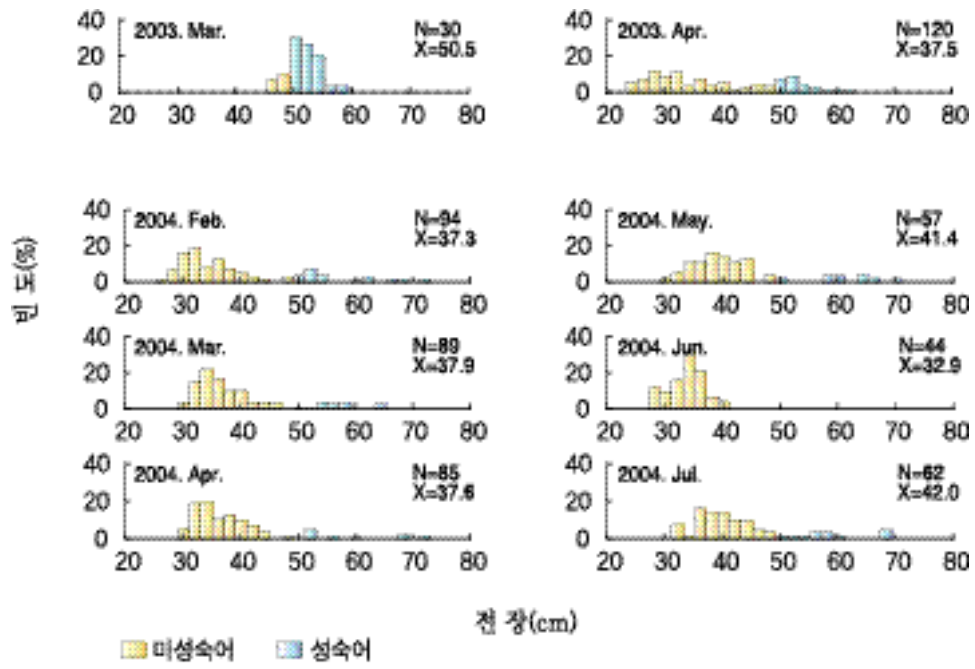


2-24.

, 2003 40.1cm ( 150 ) , 2004 7  
38.3cm ( 431 ) .



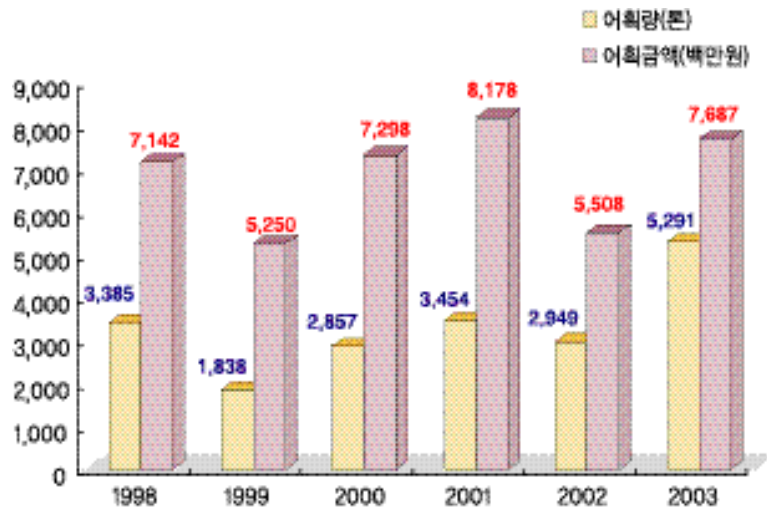
2-25.



2-26.

( )  
(CPUE) 2002

) ( )

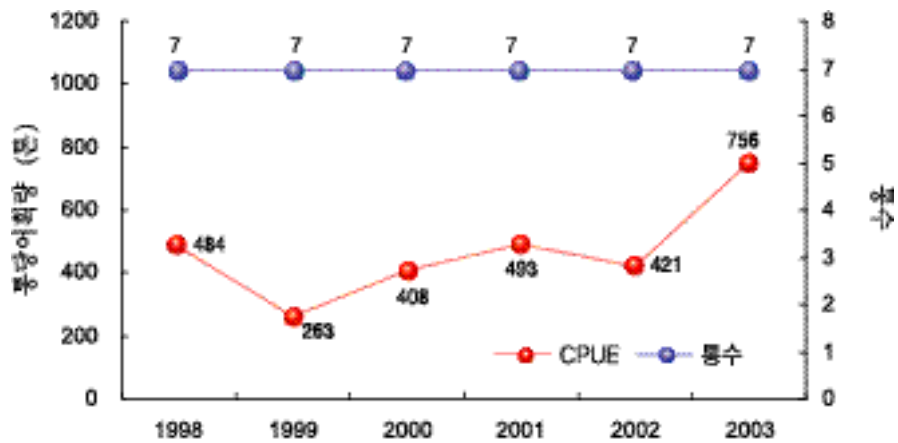


( )

2-27.

( )

2003 5,291 가 , 1999 1,838 가  
2001 8,178 가 .



( )

2-28.

( ) (CPUE)

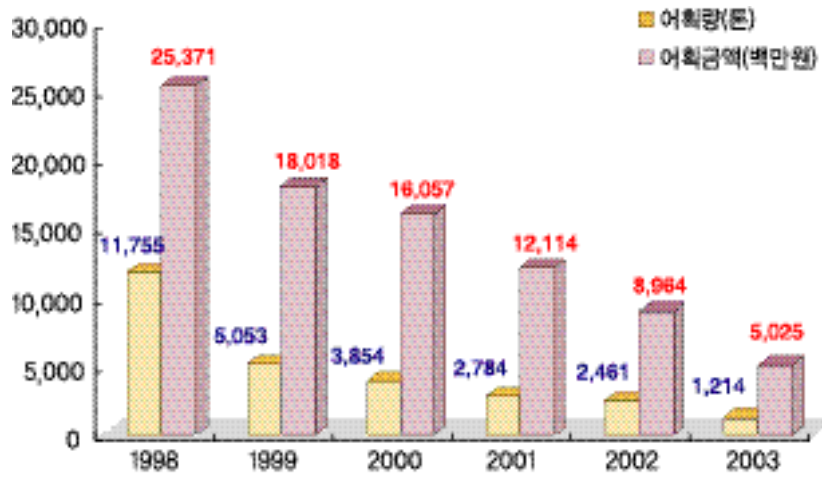
1998~2003 7

1999 263 가 , 가 2003 756

(CFUE) 가 ( ) , .



) ( )



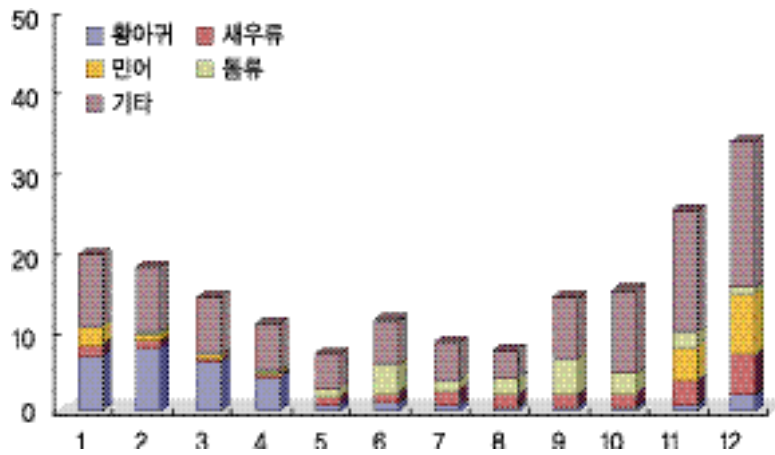
2-29.

( )

( )

1998 11,755 가 , 2003 1,214

가

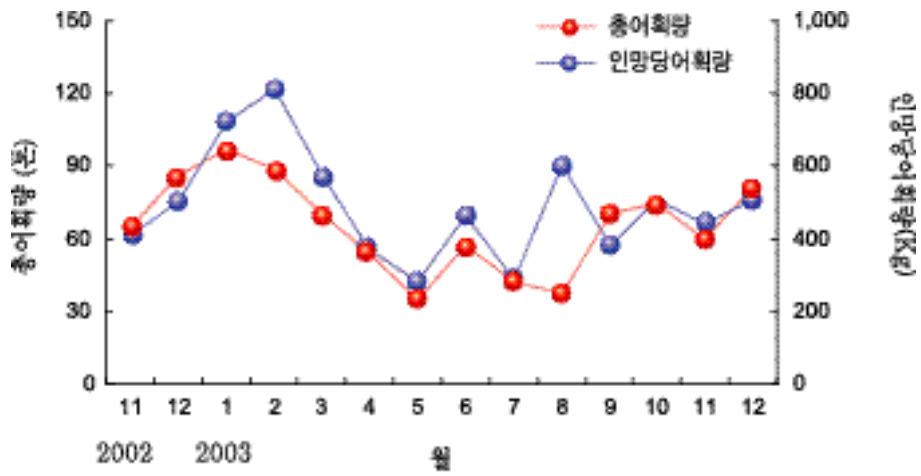


2-30.

( )

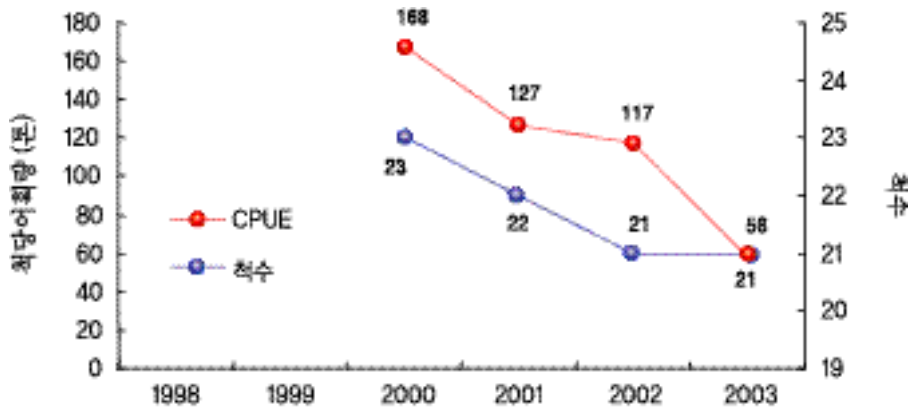
2003 12 33.5 가 , 5 6.9

가



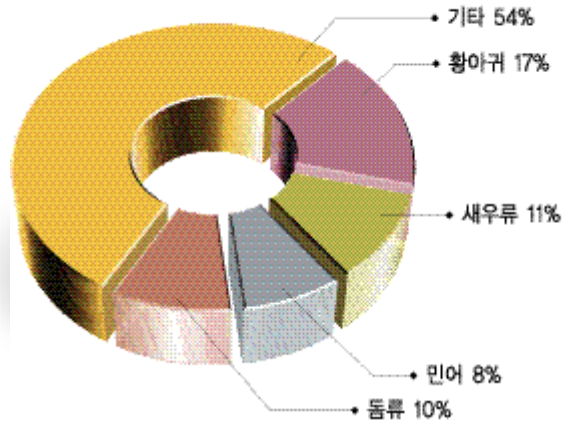
2-31.

( ) (CPUE)  
 2002 11 64 가  
 2003 2 가 11~12 60~80



2-32.

( ) (CPUE)  
 2000 23 2003 21  
 2000 168 가 , 2003 58 가



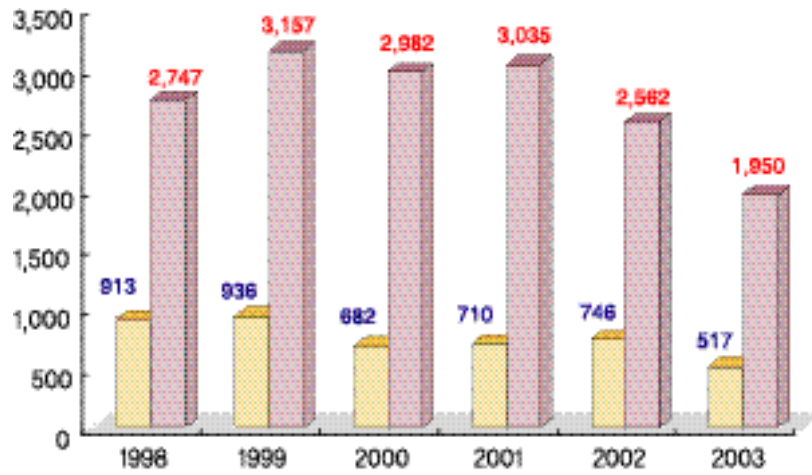
2-33.

10%, 8% . 가 17% 가 , 11%,

( )

(CPUE) ( ) ,

) ( )

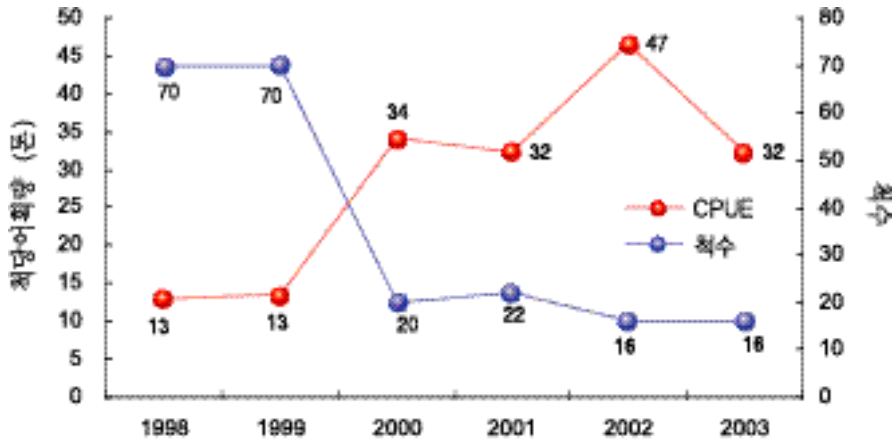


2-34.

)

( )

1999 936 가 , 2003 가



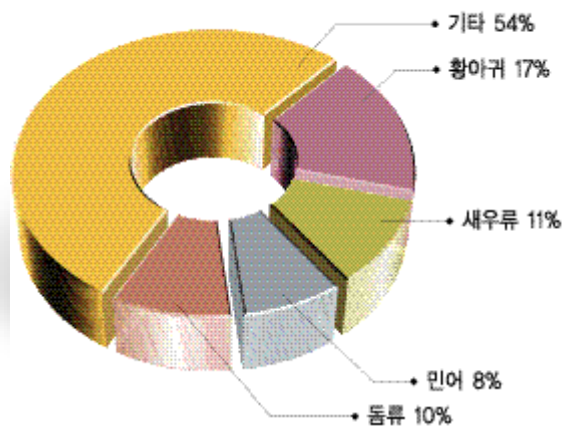
2-35.

)

( ) (CPUE)

1998 70 2003 16

2002 47 가 , 1998~1999 13 가



2-36.

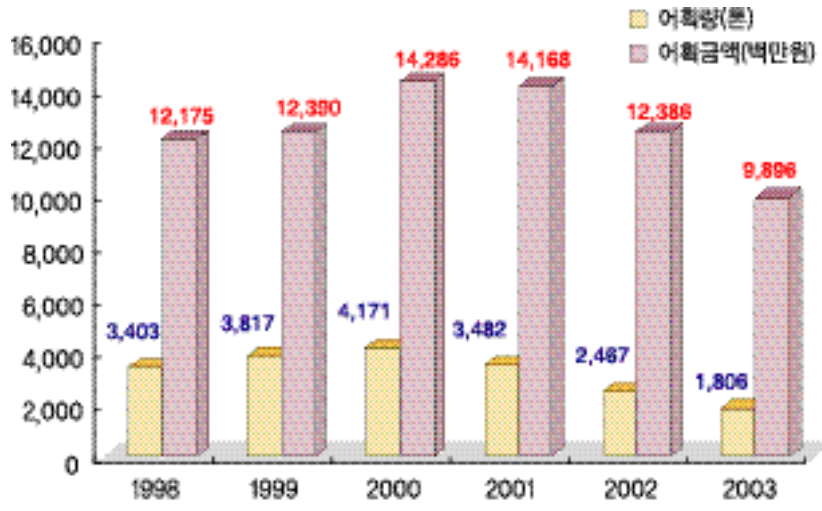
10%, 8% . 가 17% 가 , 11%,

( )

( )

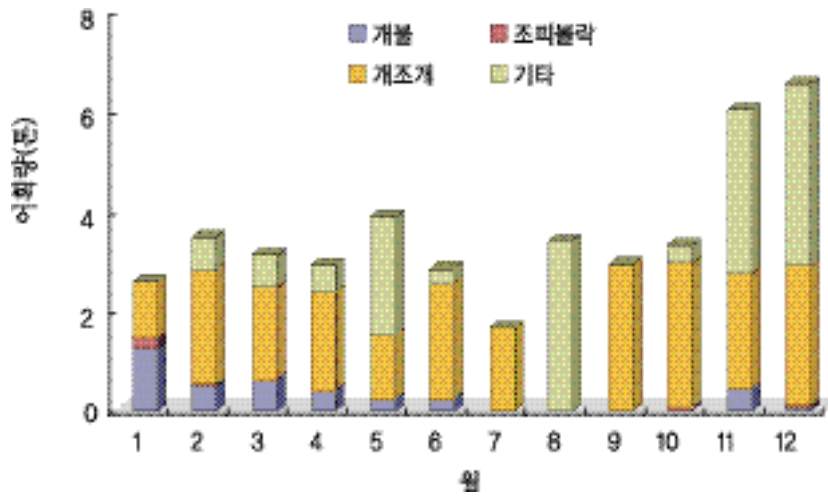
(CPUE)

)



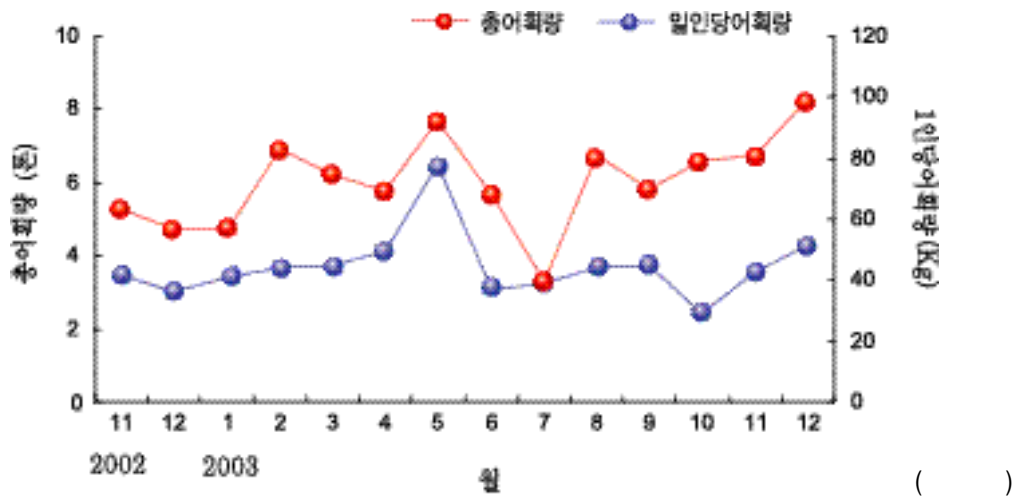
2-37.

4,171 가 , 2000 2003 1,806 가



2-38.

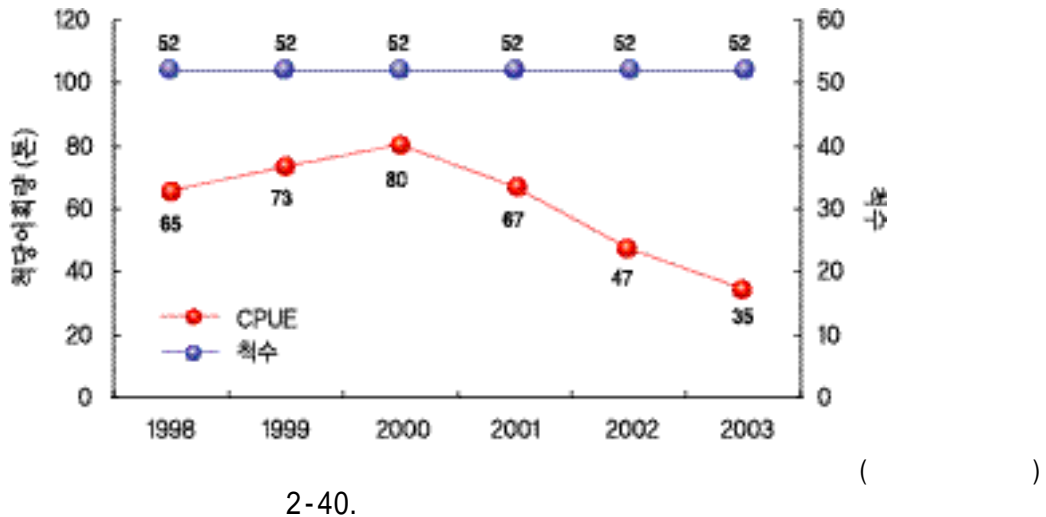
12 6.5 가 , 7 1.6 가



2-39.

(CPUE) 1 ( )

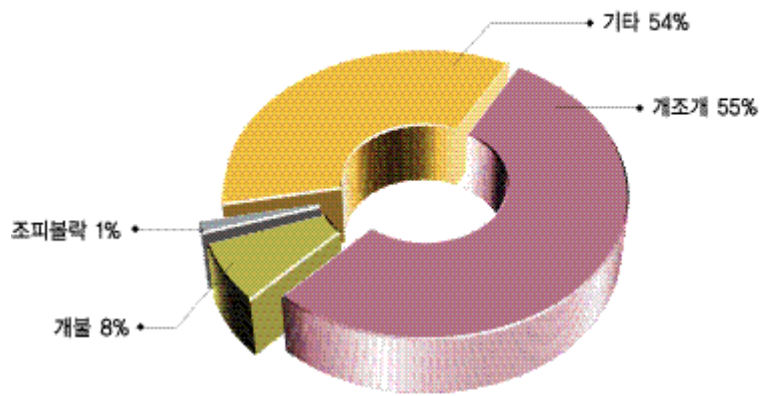
5 77.8kg/1 가 10 29.2kg/1 가



2-40.

(CPUE)

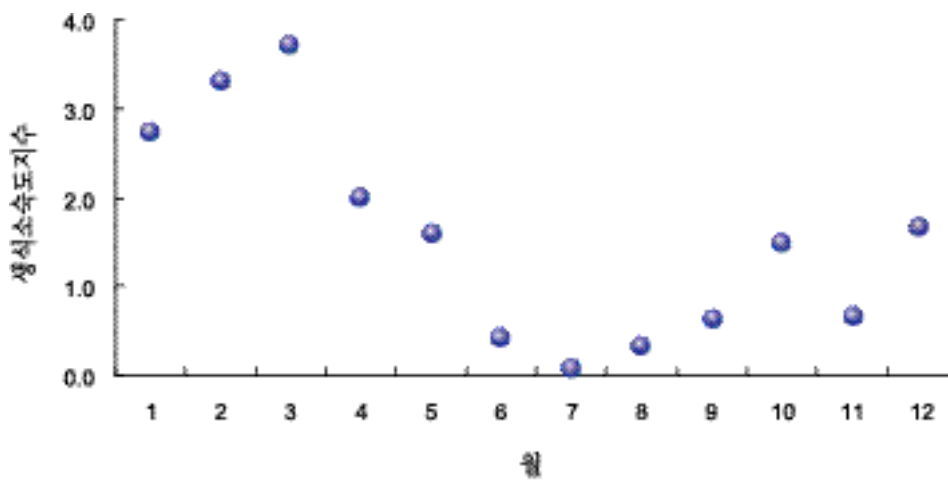
1998 65 가 2000 80 가 ,  
 2003 35 가 ,  
 1998 2003 52 가 ,



2-41.

가 55% 가

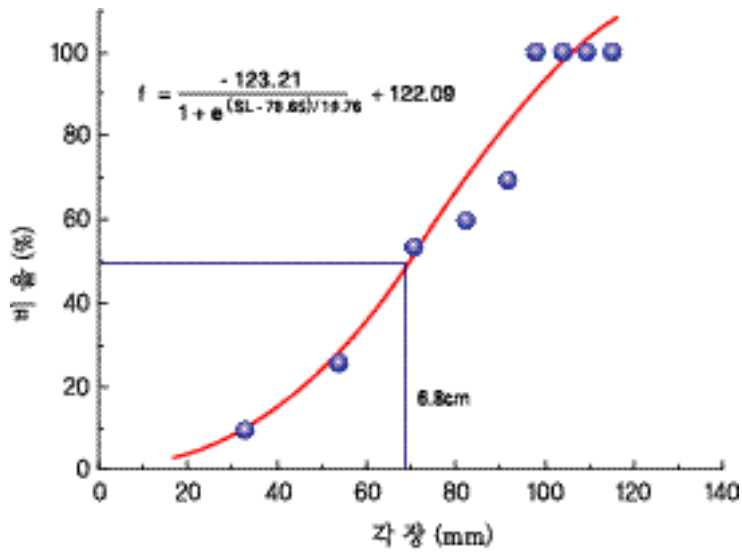
8%



2-42.

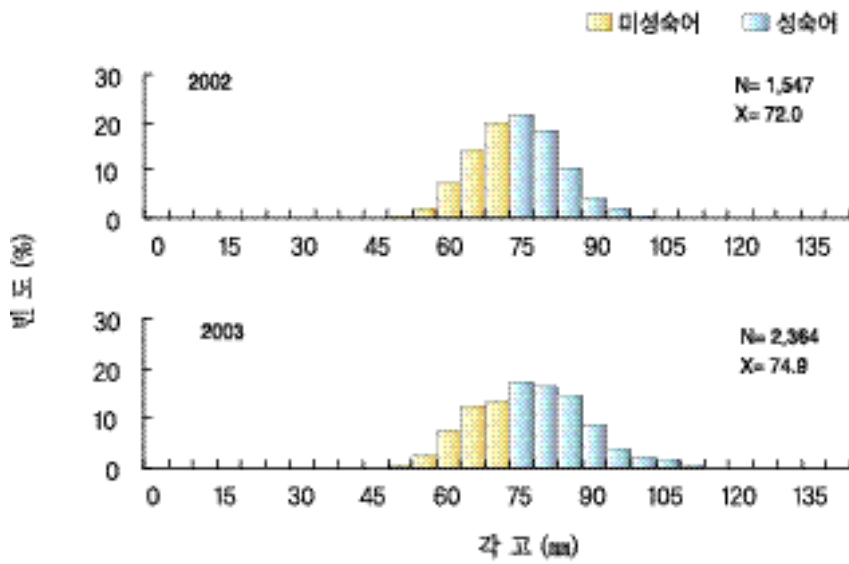
5~10 , 6~7 . 50%  
 (Shell Length) 6.8cm , 5 .



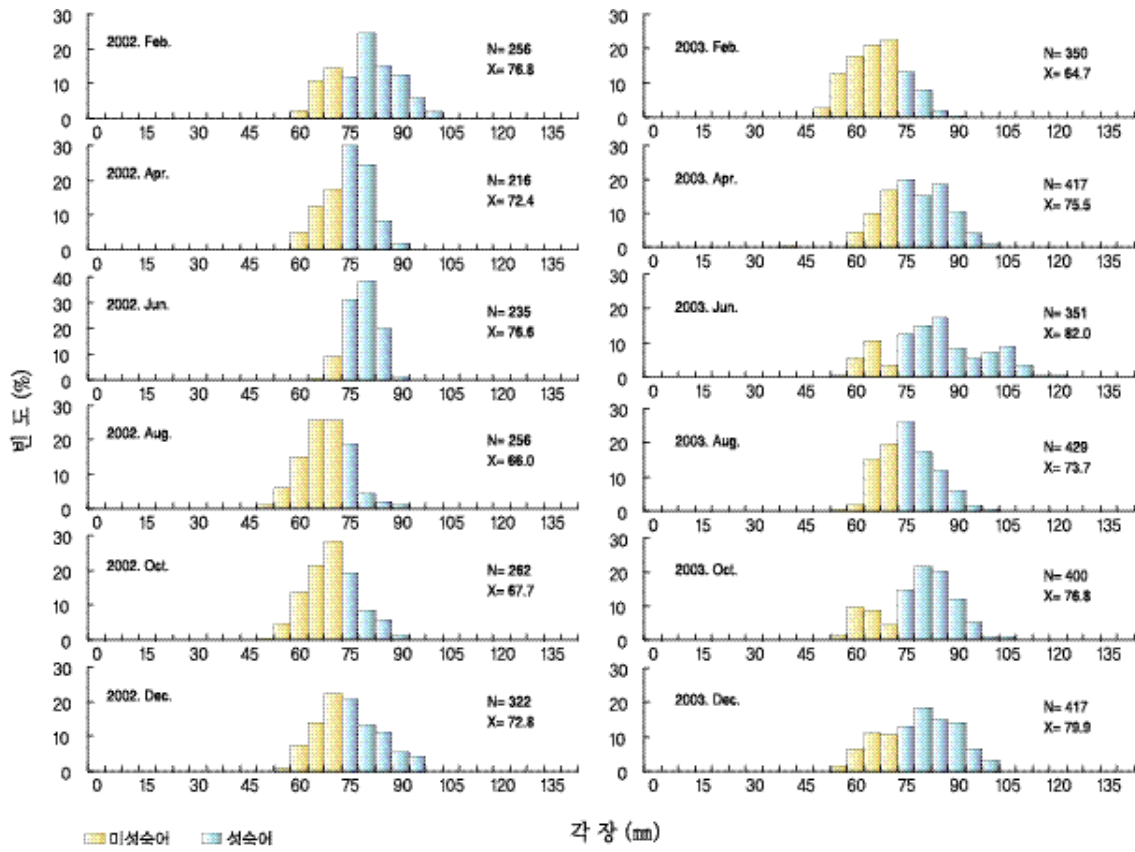


2-43.

2002 ( ) 7.2cm ( 1,547 ) , 2003  
 7.5cm ( 2,364 ) . 2003  
 ( 6.8cm) 44.8% , 2004 42.3% .  
 2002 8~12 .



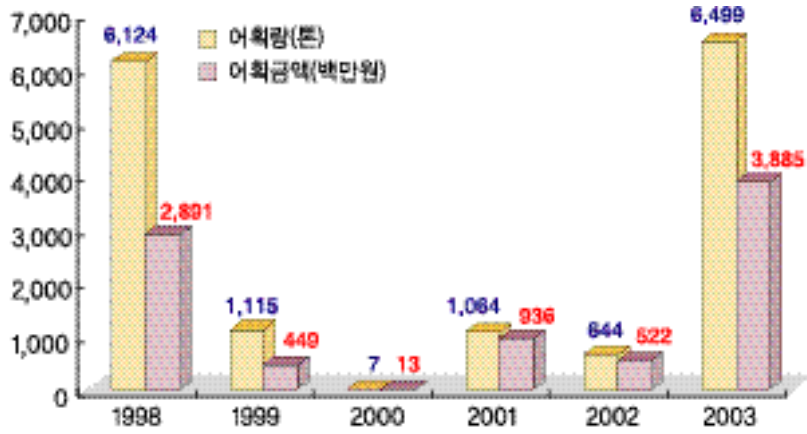
2-44.



2-45.

(CPUE)

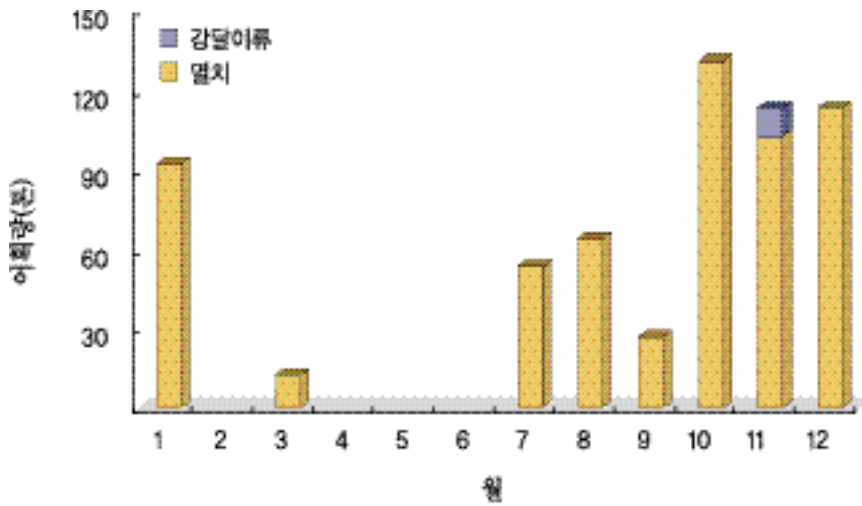
)



2-46.

( )

6,124 , 1,000 . 1998  
 6,499 가 가 2003

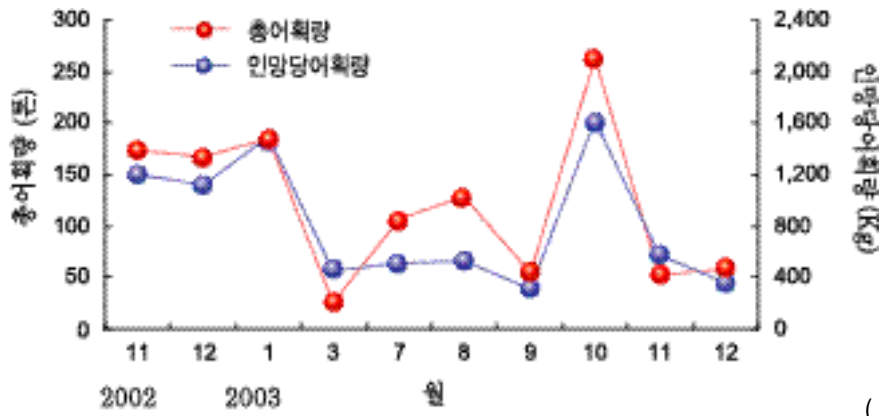


2-47.

( )

10 131 가 , 10~1

4~6

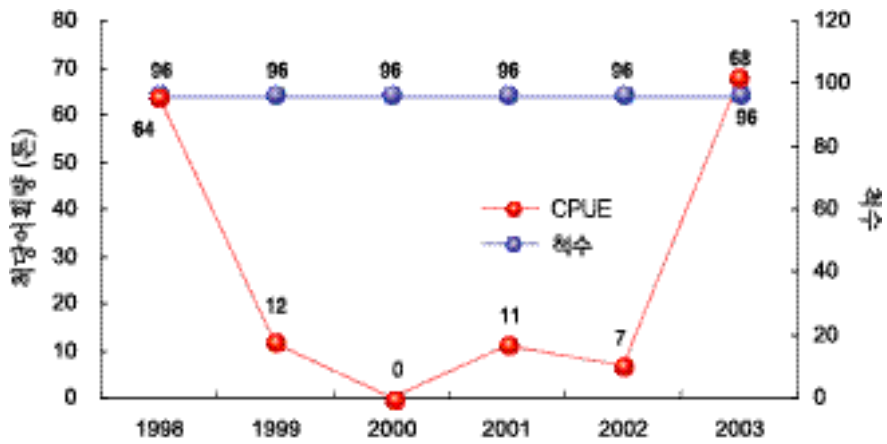


2-48.

(CPUE)

, 2002 11~12

2003 9 24 가 , 가10 262 가

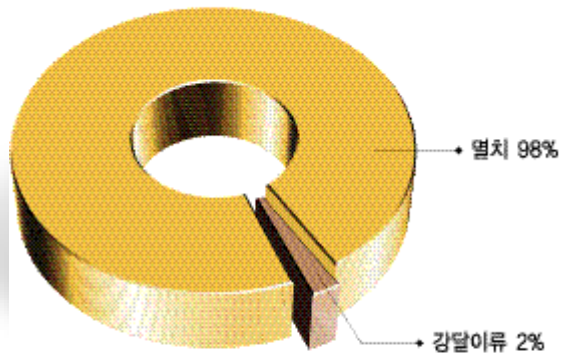


2-49.

(CPUE)

1998 64 , 1999~2002

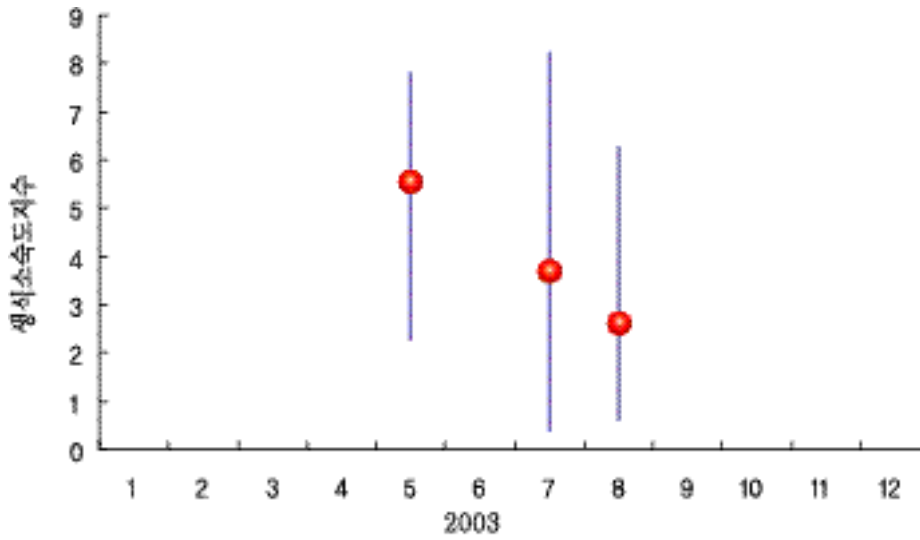
2003 68 가 , 96 가



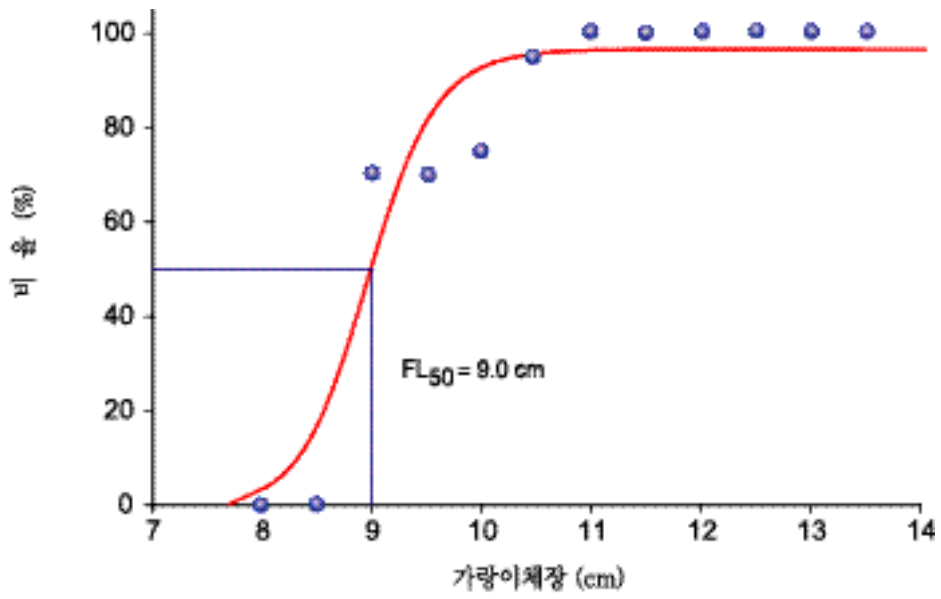
2-50.

가 98%, 가 2%

1,700 , 50% , 5~7 , 16,000 , (Fork Length) 9.0cm  
 , 1.2 .

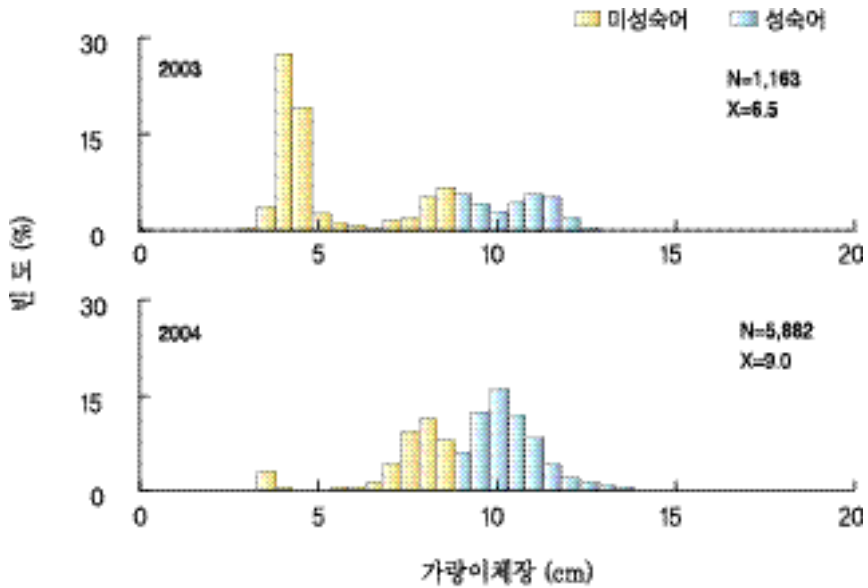


2-51.

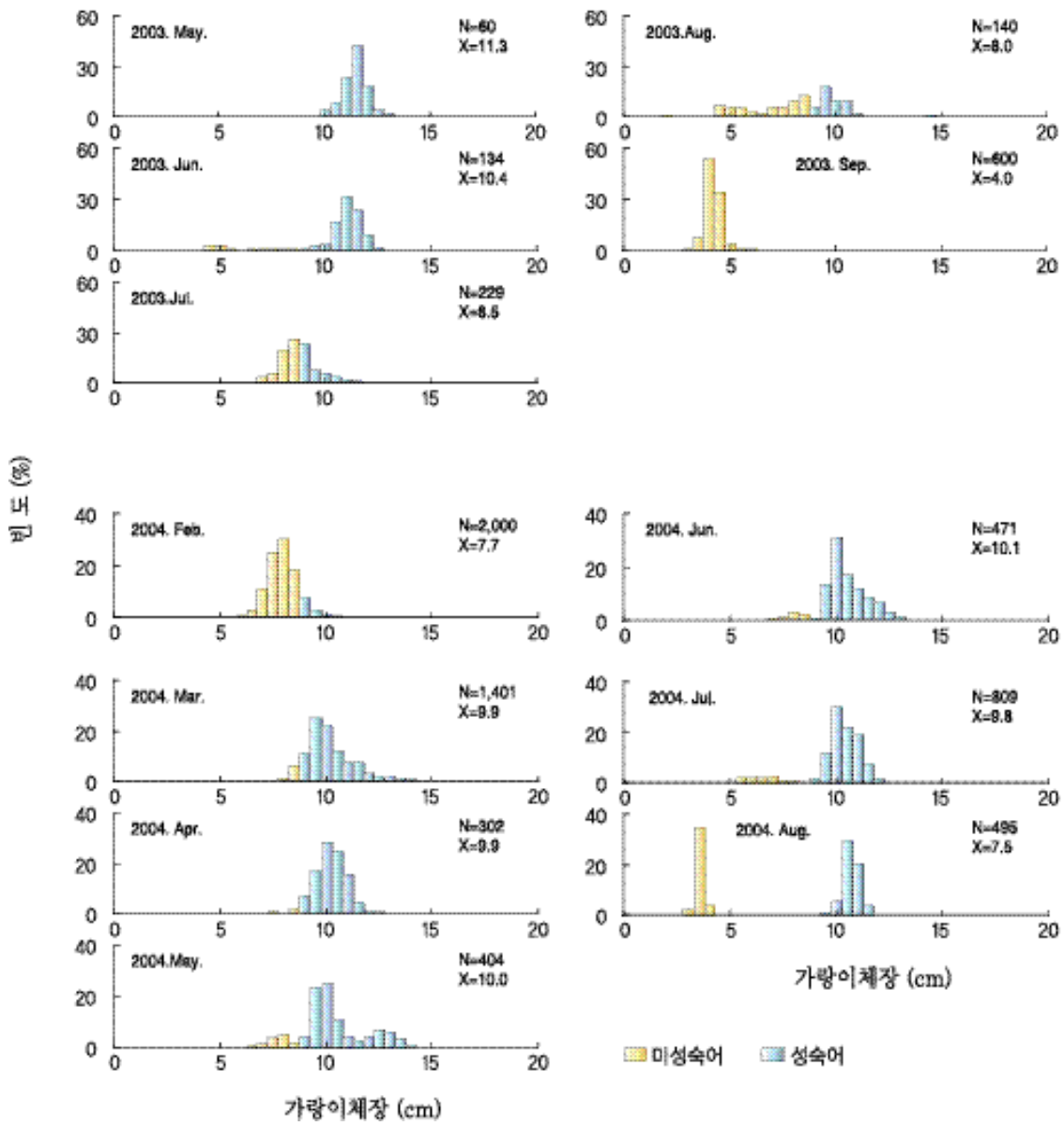


2-52.

2003 (가 ) 6.5cm ( 1,163 ) ,  
 2004 9.0cm ( 5,882 ) . 2003  
 (가 9.0cm) 44.8% , 2004 35.3%  
 . 2003 7~9 , 가



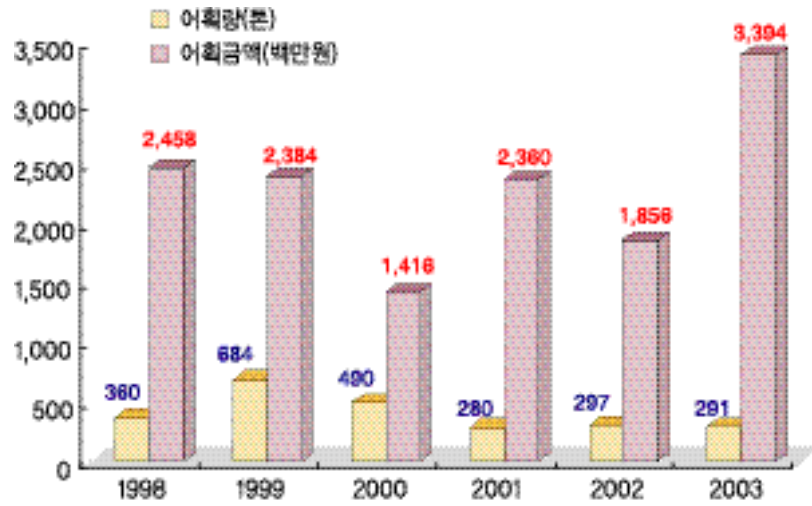
2-53.



2-54.

(CPUE) 가

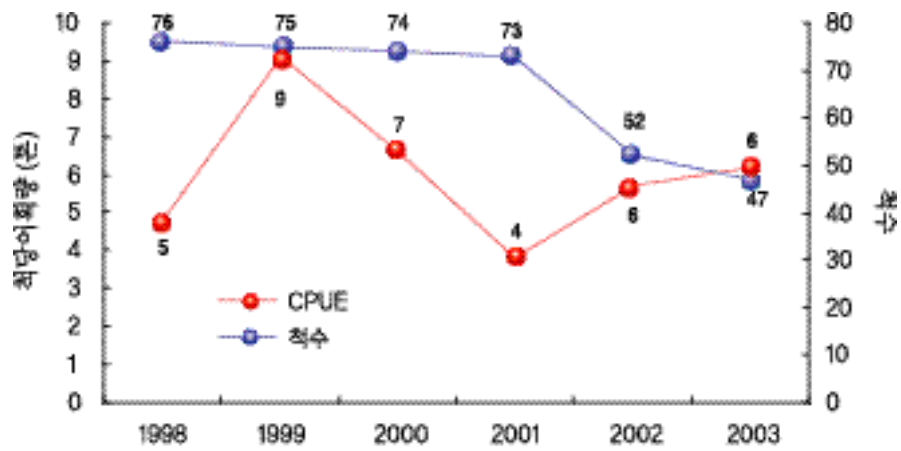
)



2-55.

( )

2001 . 1999 684 가 ,  
2003 3,394 가



2-56.

( )

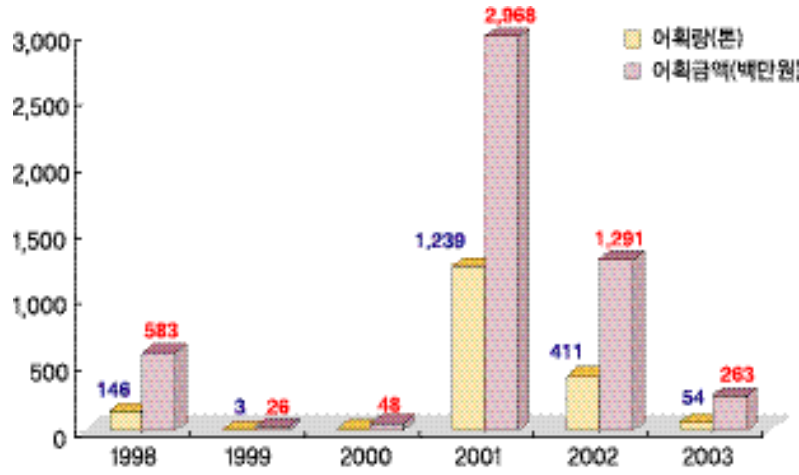
(CPUE)

1998 76 2003 47  
1999 9 가 , 2001 4 가 , 가  
2003 6



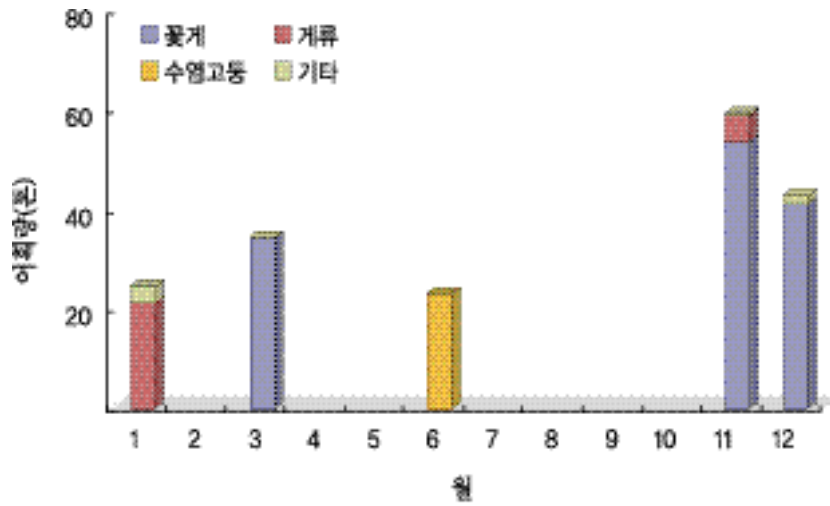
, (CPUE) 가

)



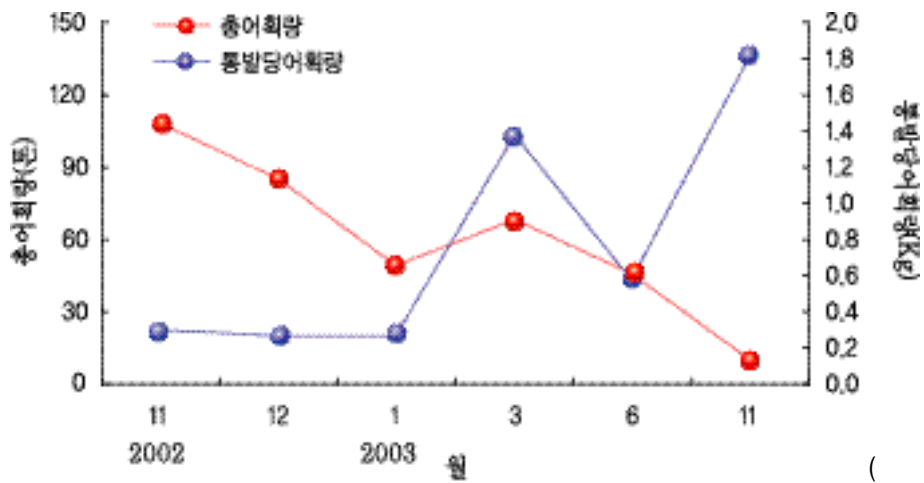
2-57.

( )  
 2001 1,239 가 , 1999 3 가 , 2003 54



2-58.

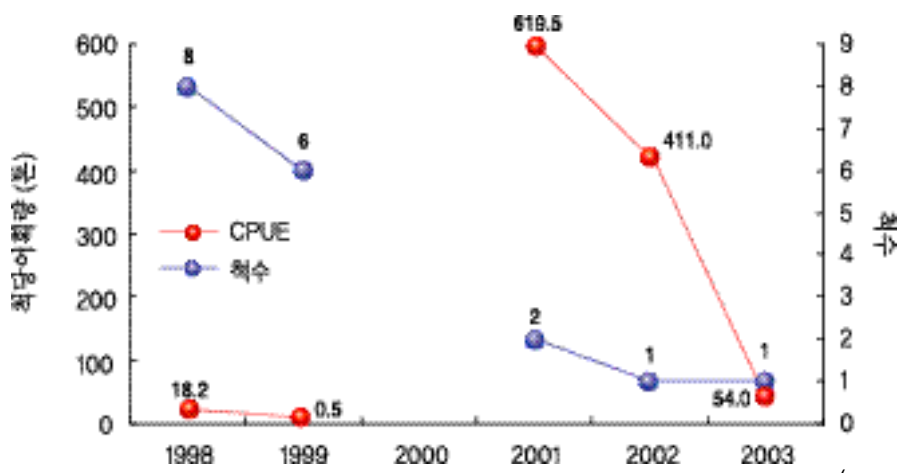
11 59 가 , 12 42  
 가



2-59.

(CPUE)

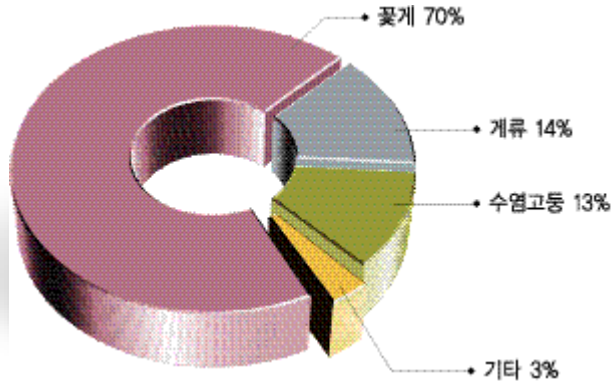
, 2002 11~1  
2003 3 11



2-60.

(CPUE)

1998 8 , 1999 1  
2001 619.5 가 , 2003 1

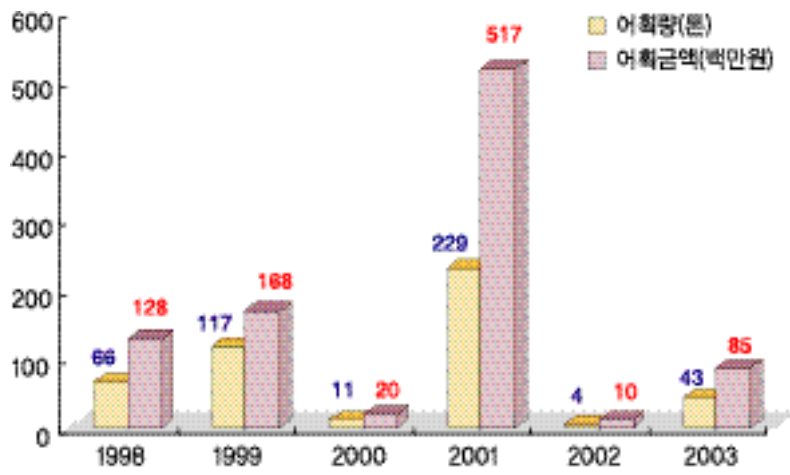


2-61.

가 70% 가 , 14%, 13%

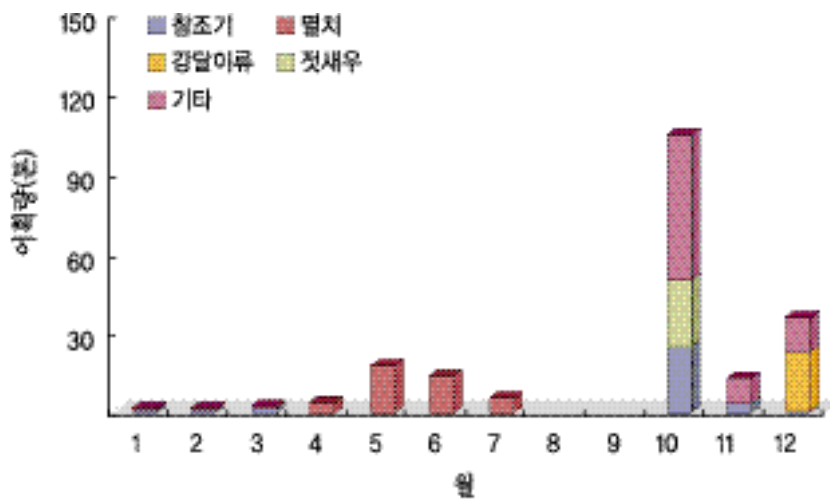
(CPUE)

)



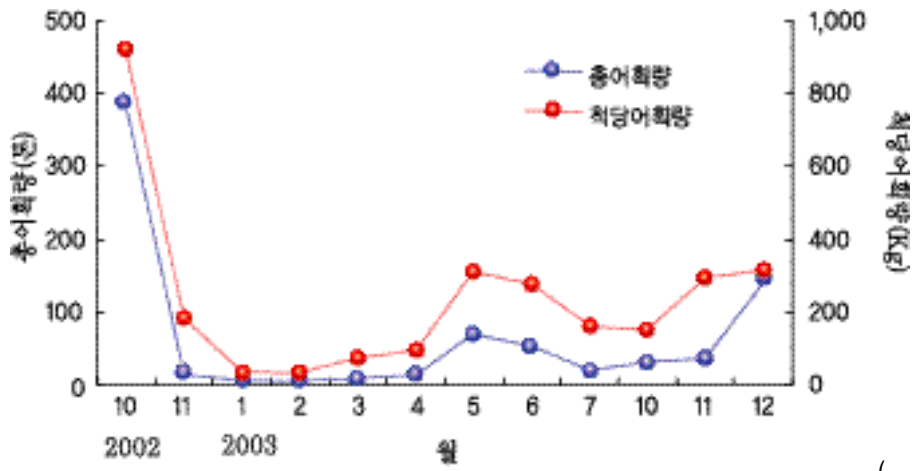
2-62.

가 , 2002 4 가 , 2003 43 가 .



2-58.

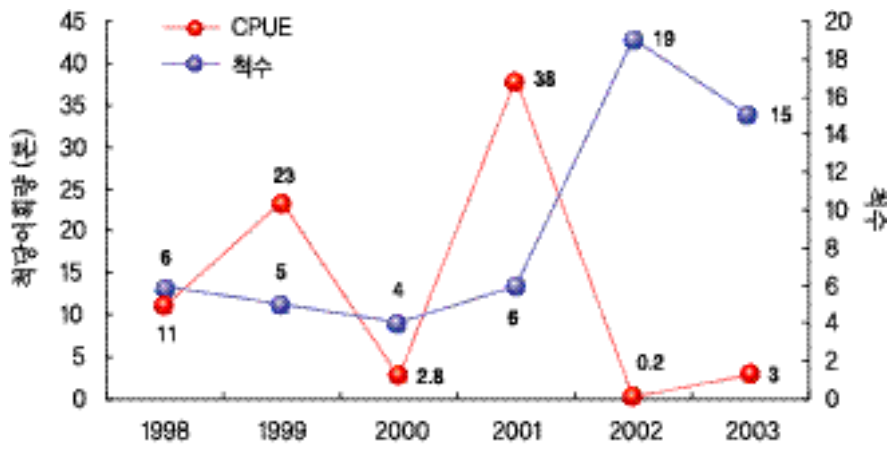
, 1~3 , 8~9 . 10 104 가



2-59.

(CPUE)

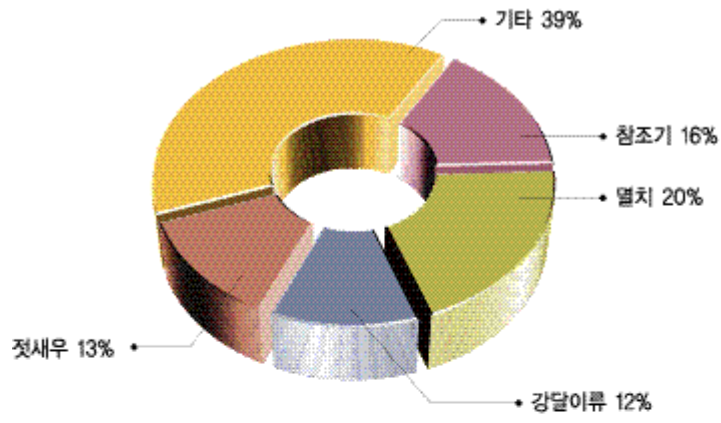
, 2002 10 387 가 , 150



2-60.

(CPUE)

2001 38 가 , 2002 0.2 가

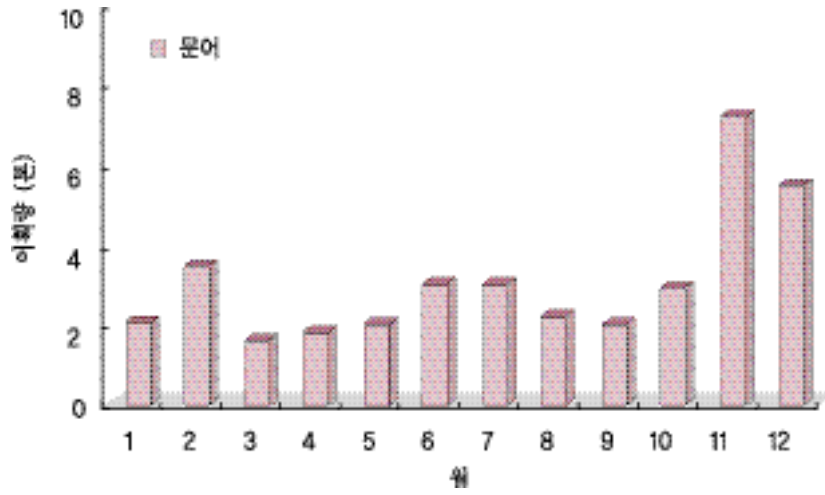


2-61.

13%, 12%, , 가 20% , 16%,

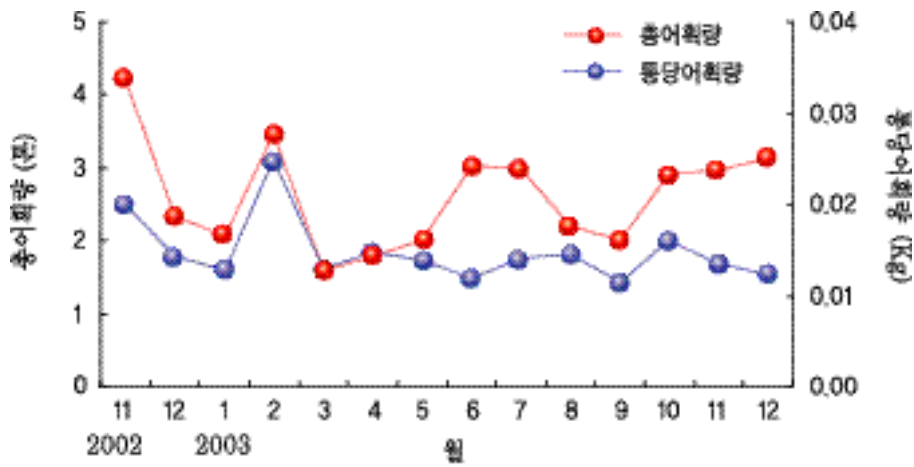
(CFUE) 가 . 가 ,

)



2-62.

11 가 7.2 , 3 1.6 가



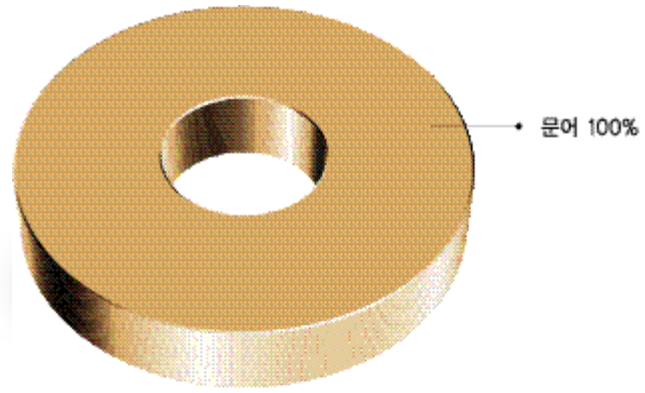
2-63.

(CPUE)

2

0.024kg 가 , 0.01~0.02kg

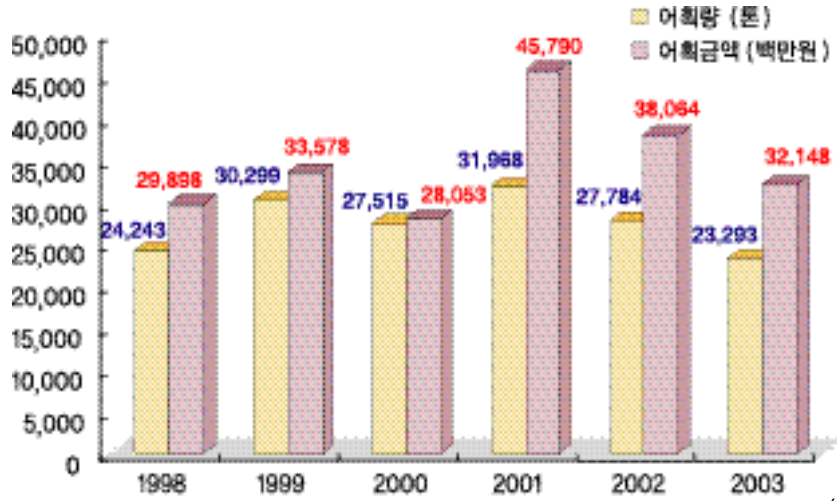




2-64.

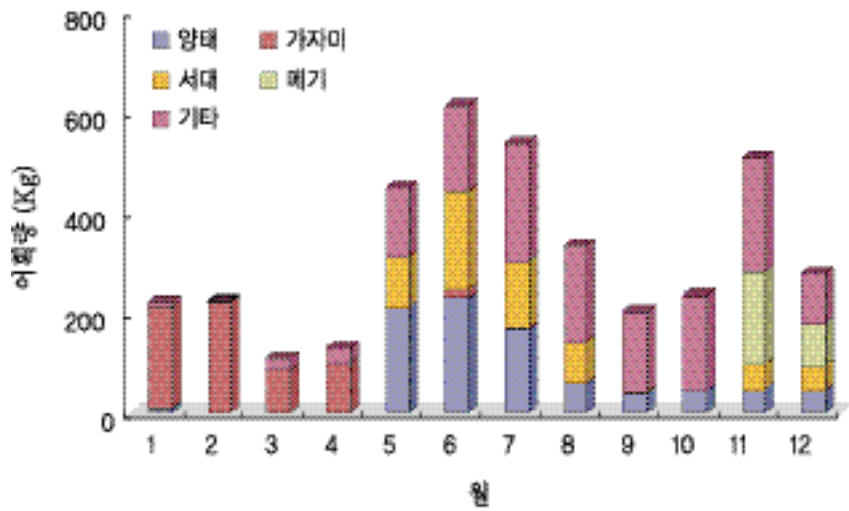
가 100% .

2)  
가)



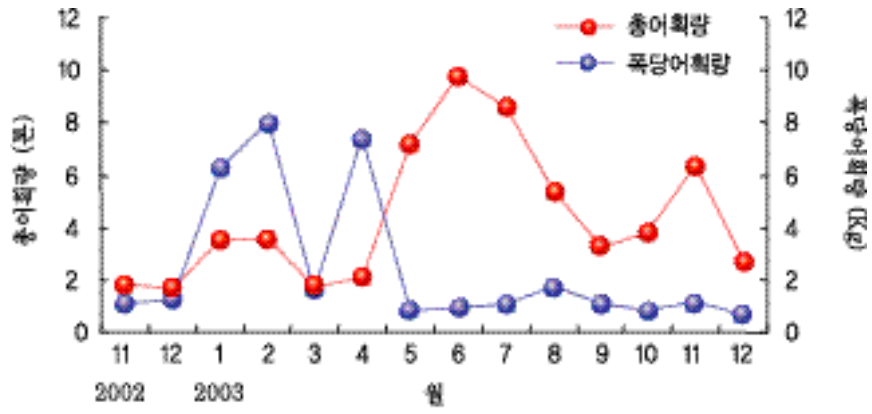
2-65.

31,968 가 , 2003 23,293 2001



2-66.

10~12 236~511kg , 5~7 449~613kg 가 ,  
5~8 가 . 1~4 가 가 ,



2-67.

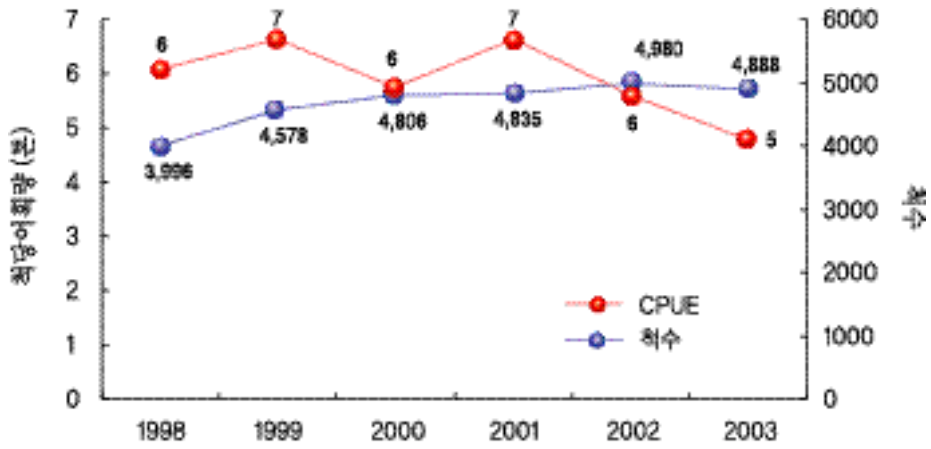
(CPUE)

5~8

1~4

2~8kg

2kg



2-68.

(CPUE)

1998 3,996

가

2002 4,980

가

, 2003 4,888

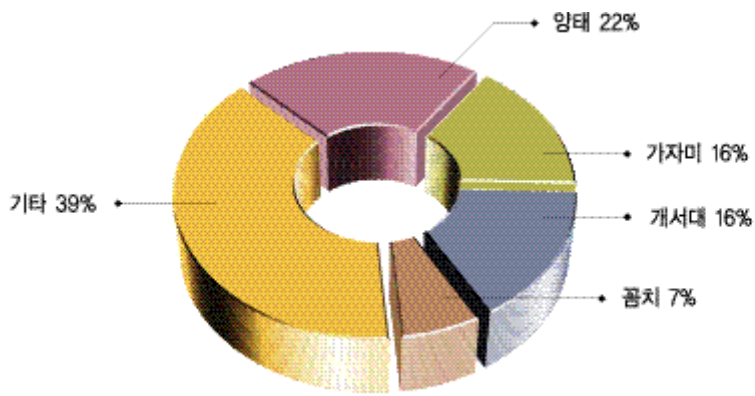
1998~2001

6~7

가

2003

5



2-69.

16%, 7%

16%, 7%

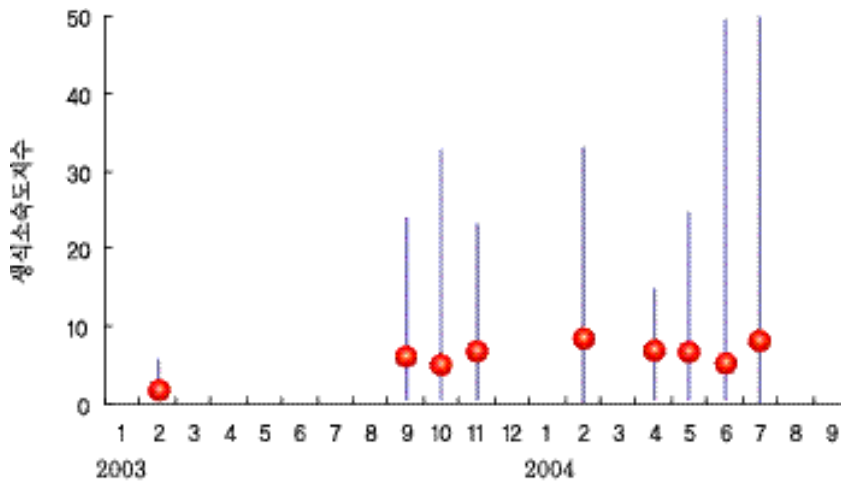
가

6~8

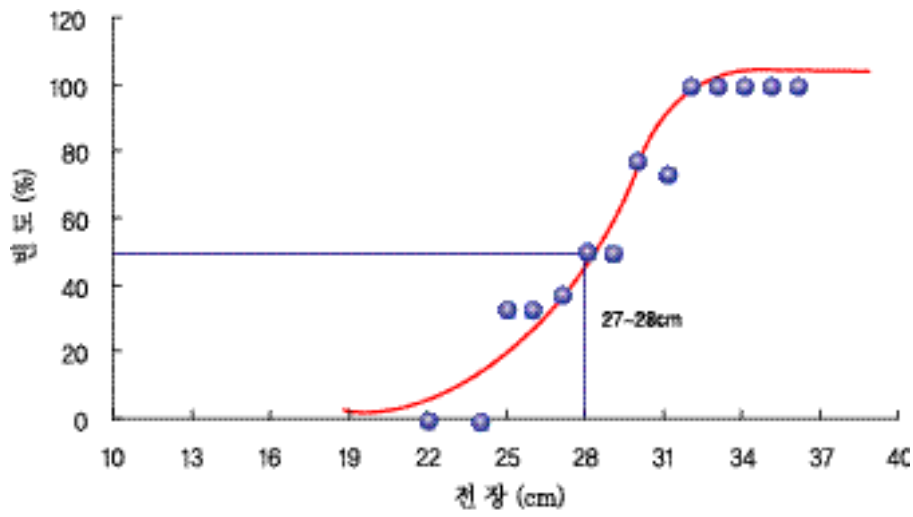
50%

(Total Length)

27~28cm

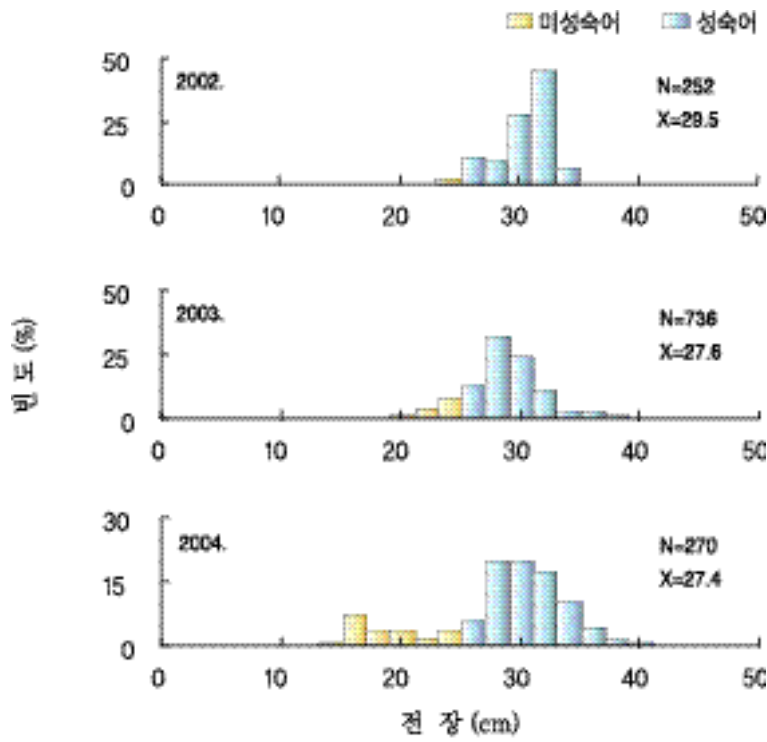


2-70.

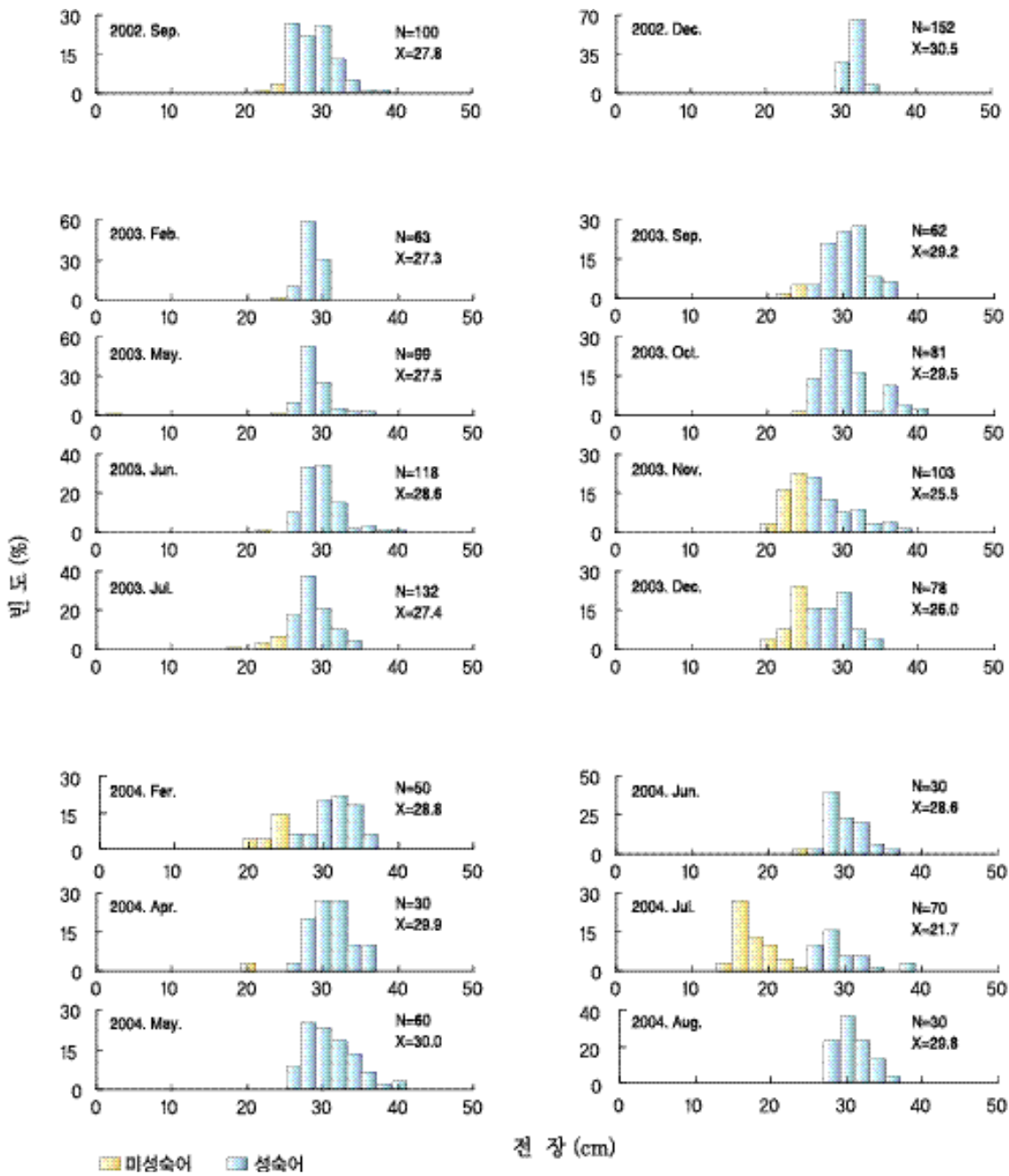


2-71.

, 2002 ( ) 29.5cm ( 252 ) , 2003  
27.6cm ( 736 ) .

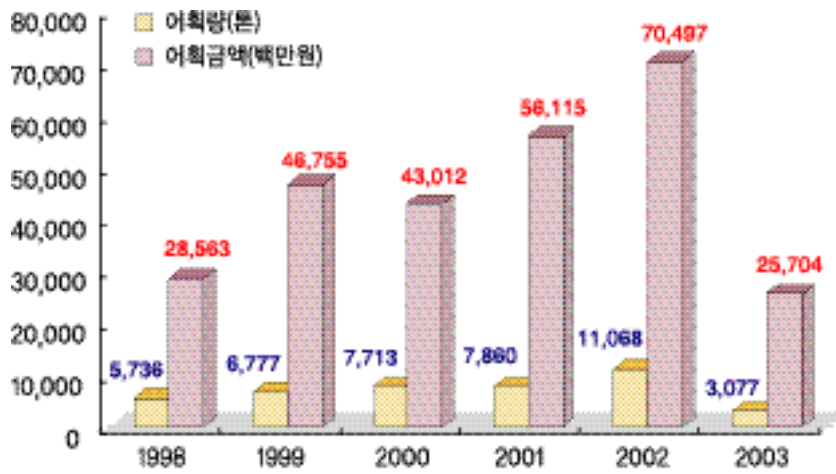


2-72.



2-73.

)

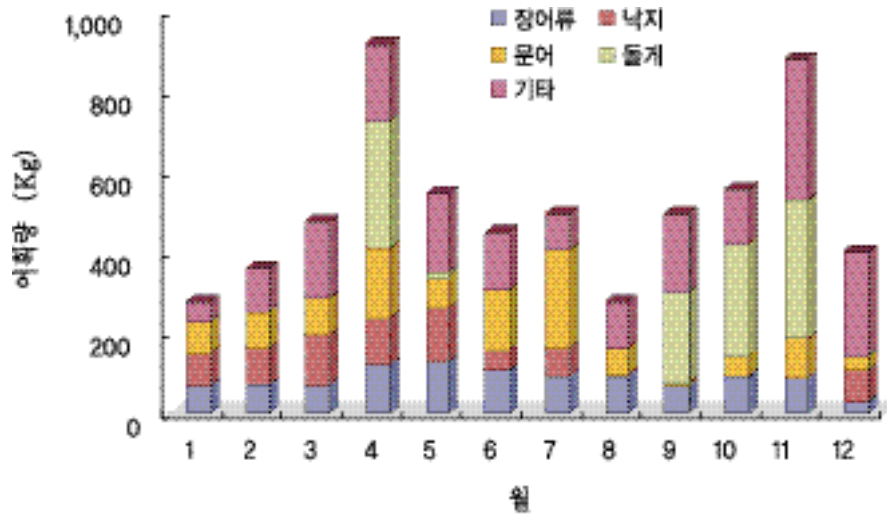


2-7.

( )

2002

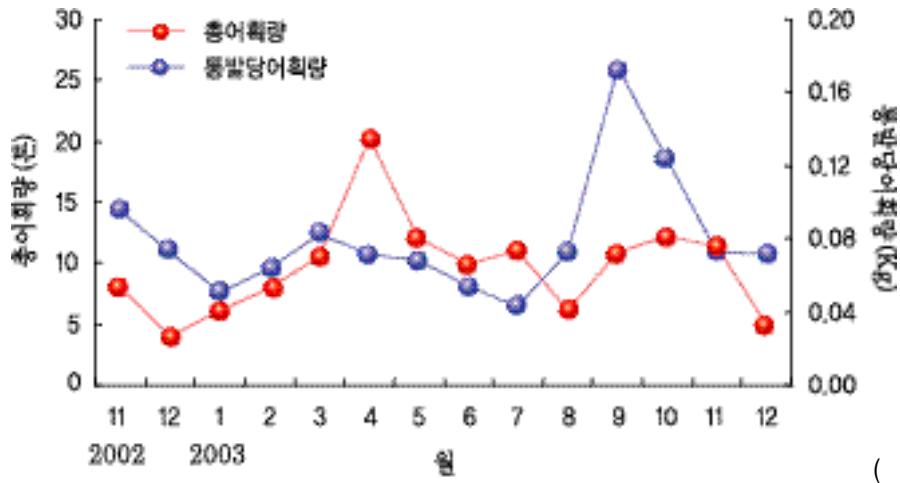
11,068 가 , 2003 3,077 가 .



2-98.

( )

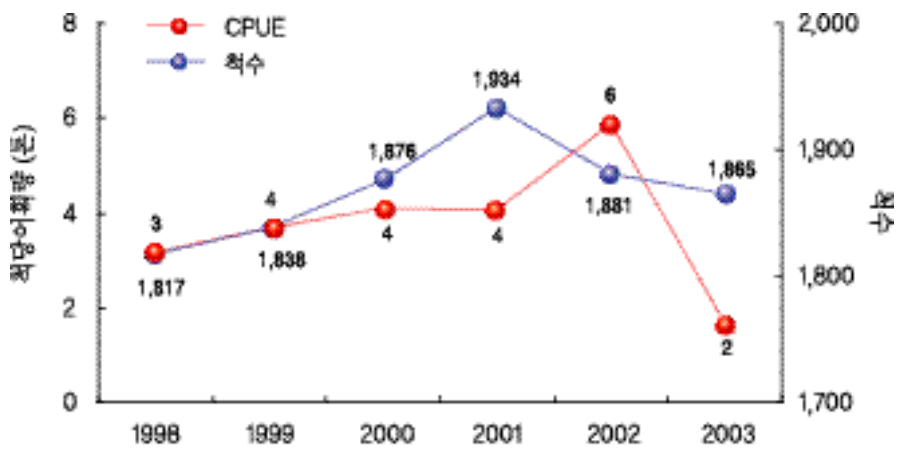
275kg 가 . 4 922kg 가 , 8  
가 가 ,가



2-99.

(CPUE)

, 2002 12 3.9 가 , 2003 4 20.2 가

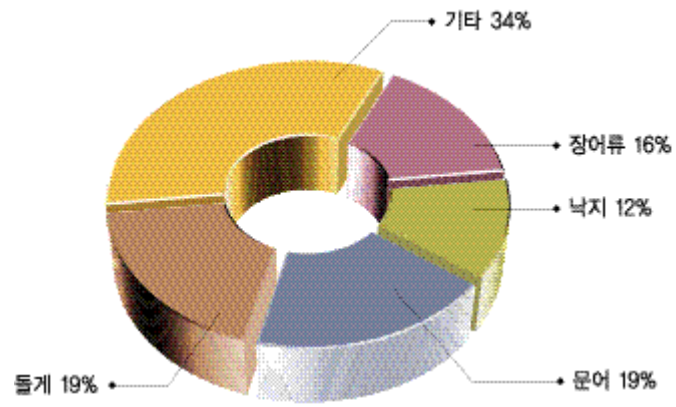


2-100.

(CPUE)

가 , 2003 1,865 가 2001 1,934  
 가 , 1998 3  
 가 2002 6 가 2003 2  
 가

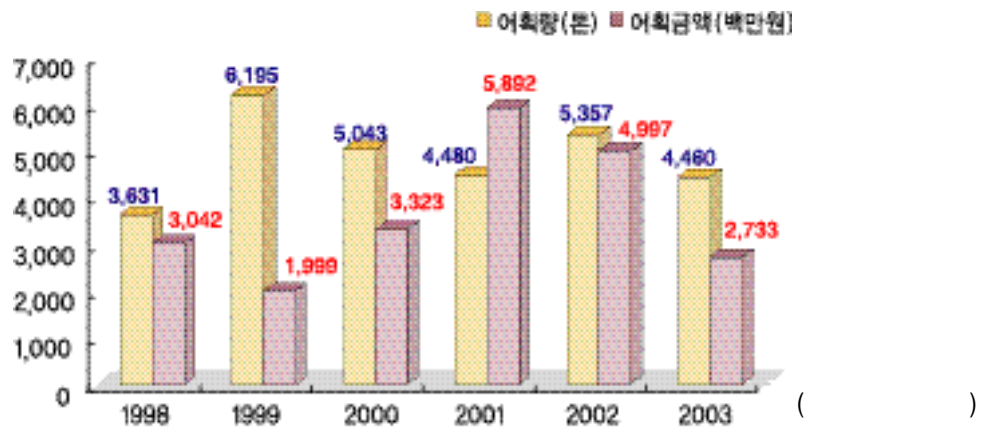




2-101.

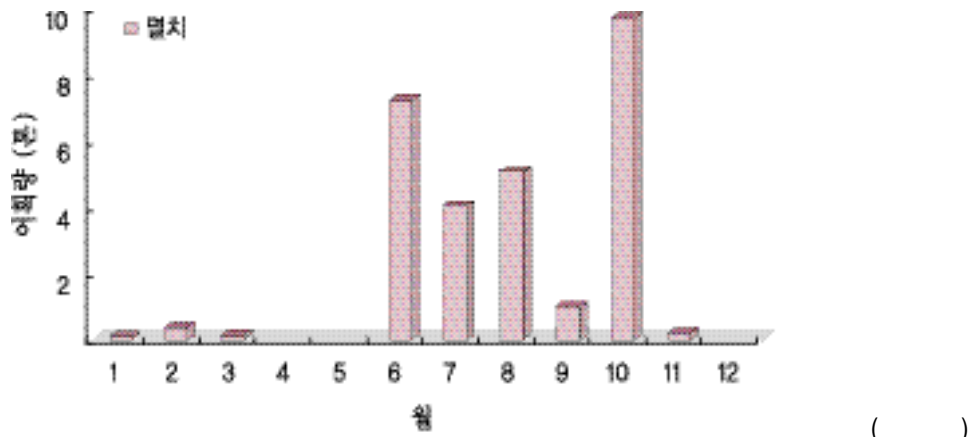
16%, 12% , 가 19% 가 ,

)



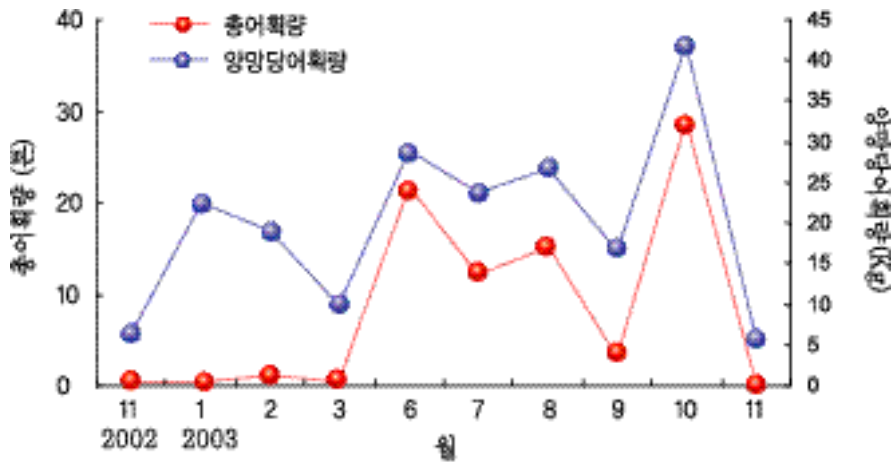
2-102.

1999  
 6,195 가 , 1998 3,631 가 ,  
 2001 5,892 가 .



2-103.

10 10 가 , 6~10

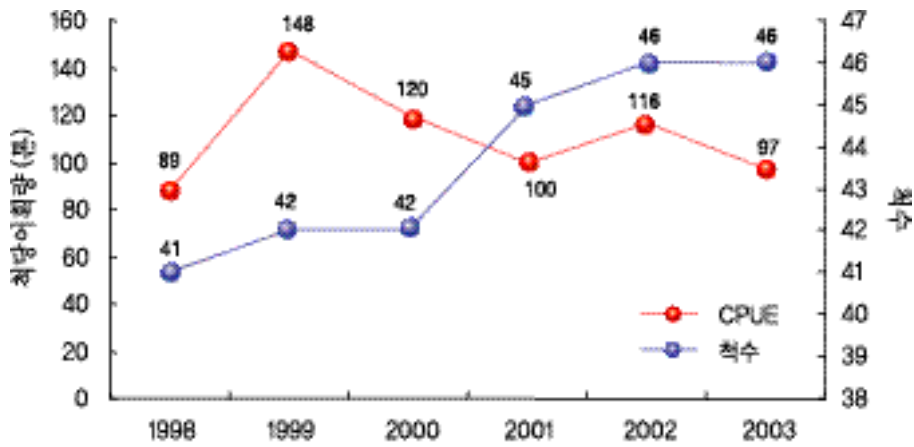


2-104.

(CPUE)

2003 10 가 ,

3 가 .



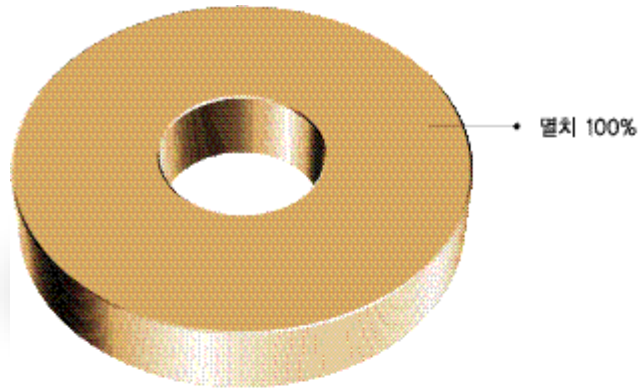
2-105.

(CPUE)

1998 41 가 , 가 2003 46

가 . 1999 148 가 , 2003

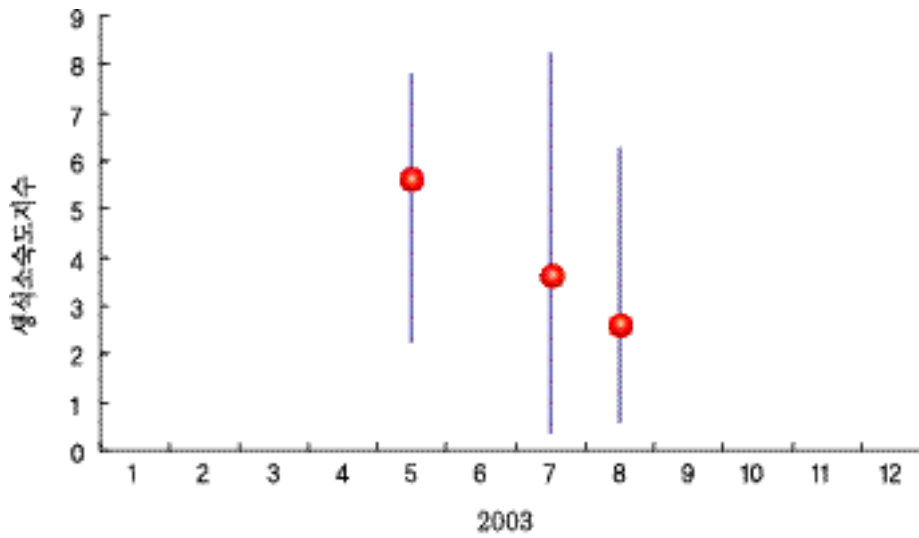
97 .



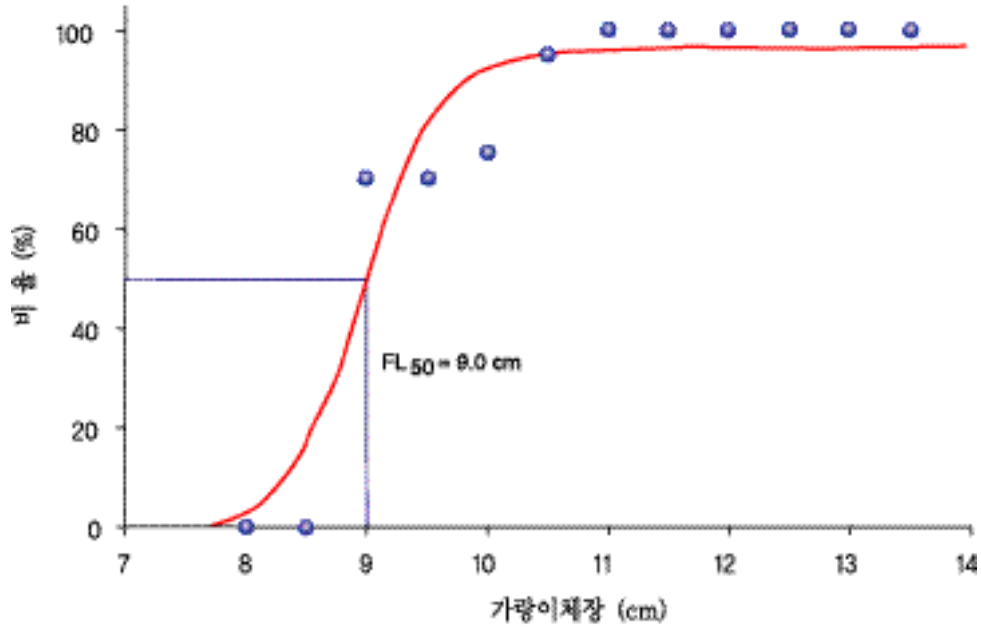
2-106.

가 100%

1,700 , , 50% , 5~7 , 16,000 ,  
 , 1.2 , 가 (Fork Length) 9.0cm

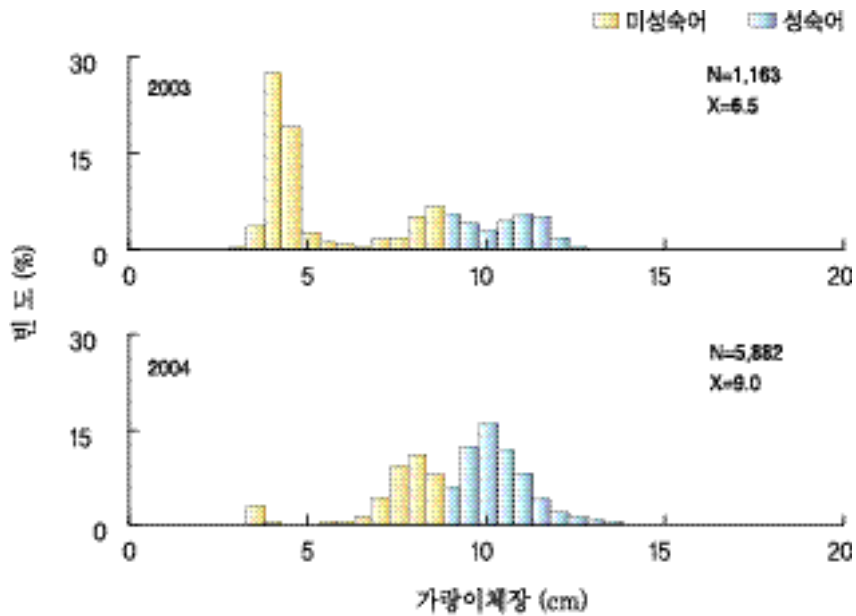


2-107.

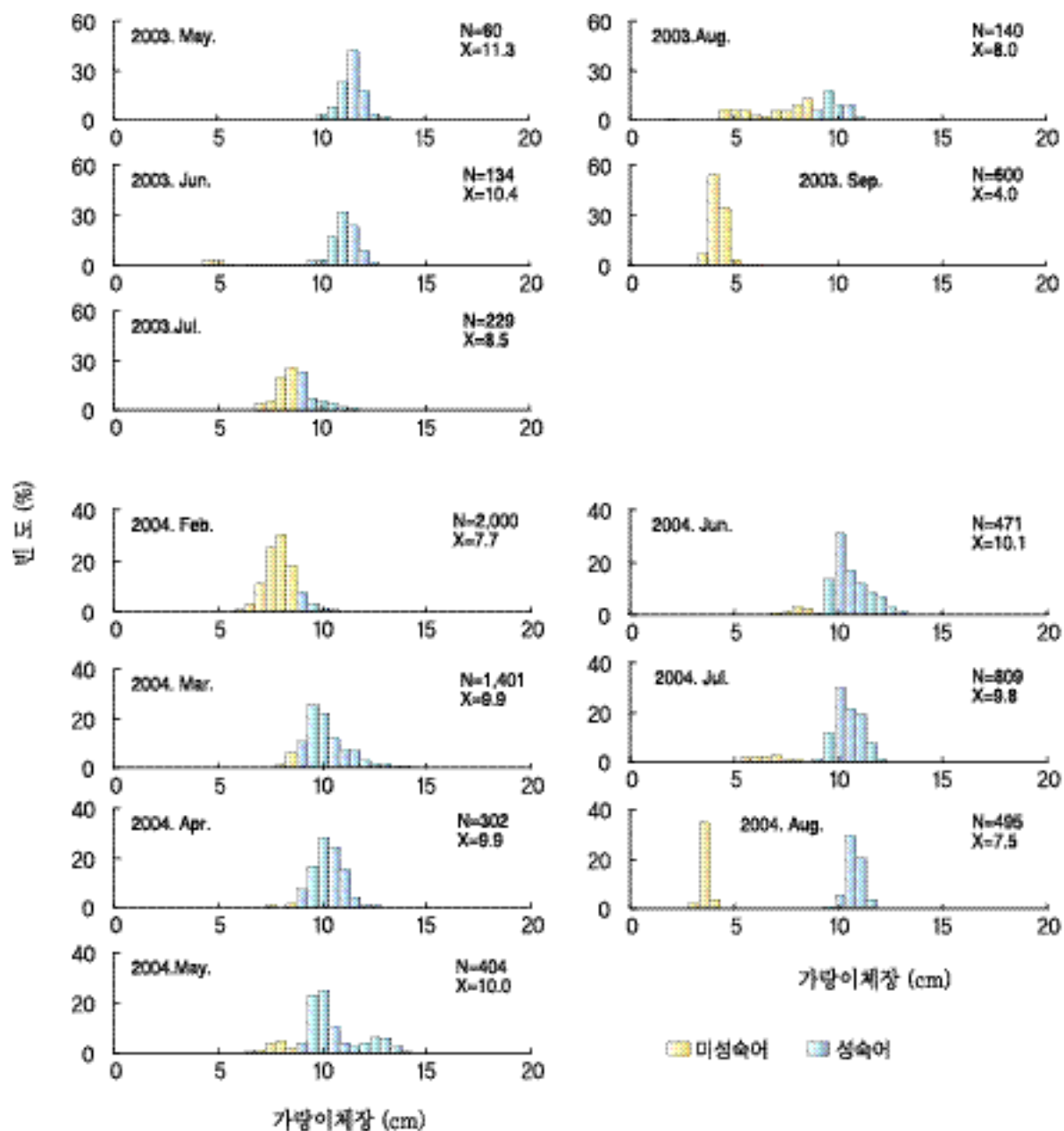


2-108.

2003 (가 ) 6.5cm ( 1,163 ) ,  
 2004 9.0cm ( 5,882 ) . 2003  
 (가 9.0cm) 44.8% , 2004 35.3%  
 . 2003 7~9 , 가

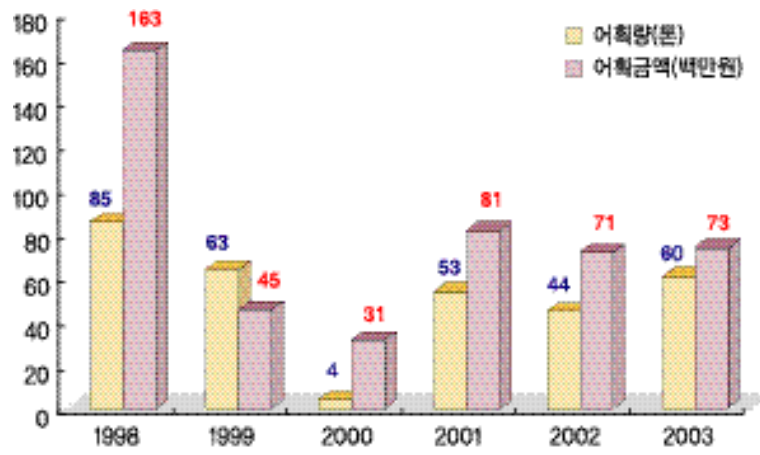


2-109.



2-110.

) ( )



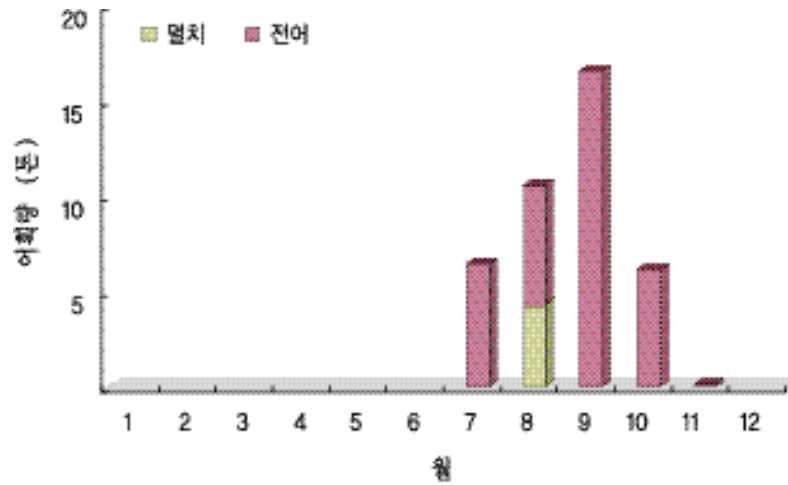
2-111.

( )

( )

1998

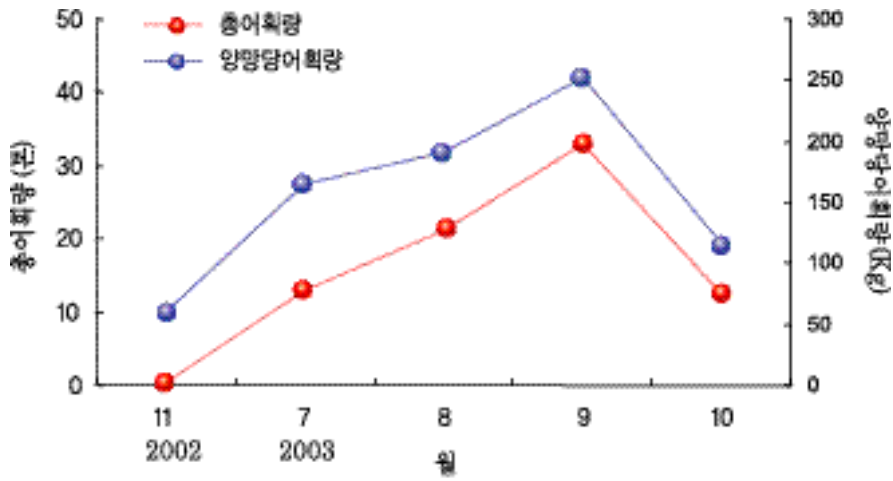
85 가 , 2000 4 가 .



2-112.

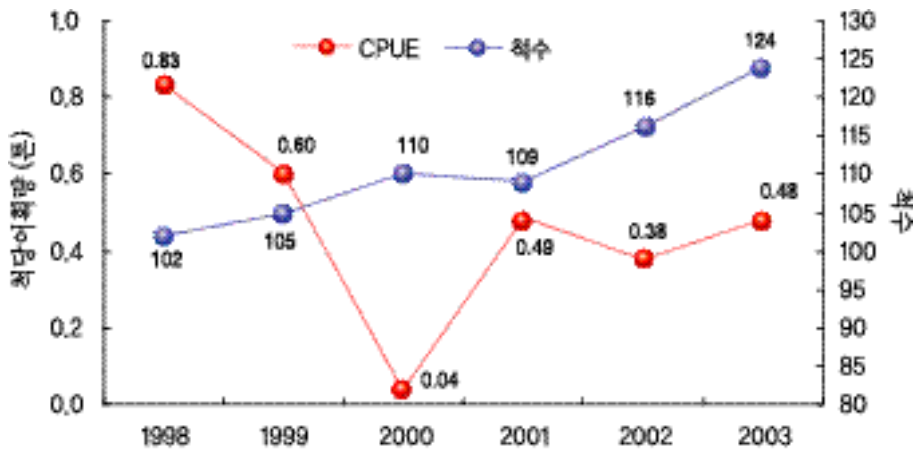
( )

2003 9 16.6 가 , 가



2-113.

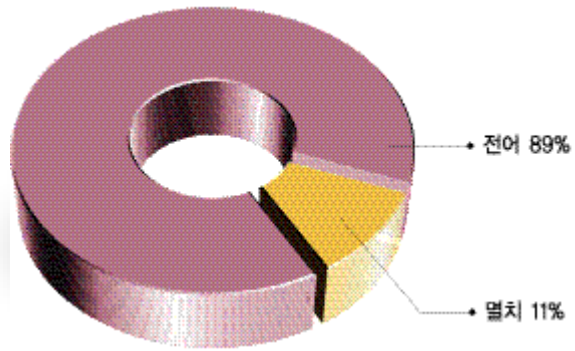
( ) (CPUE) . 2002  
 11 0.3 가 , 2003 9 33  
 10 12



2-114.

( ) (CPUE)  
 . 1998 102 가 2003 124 가  
 1998 0.83 2000 0.04 가  
 , 가 2003 0.48 .



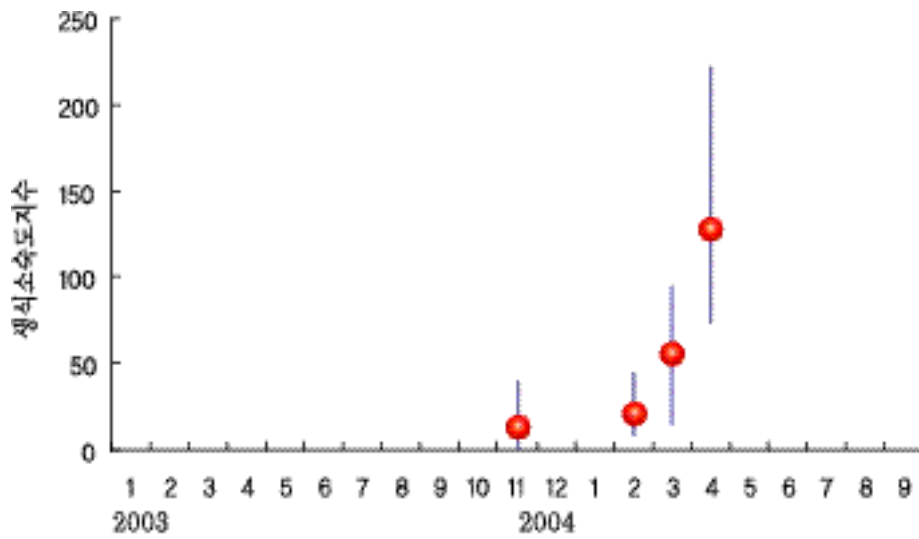


2-115.

, 가 89% 가 , 가 11%

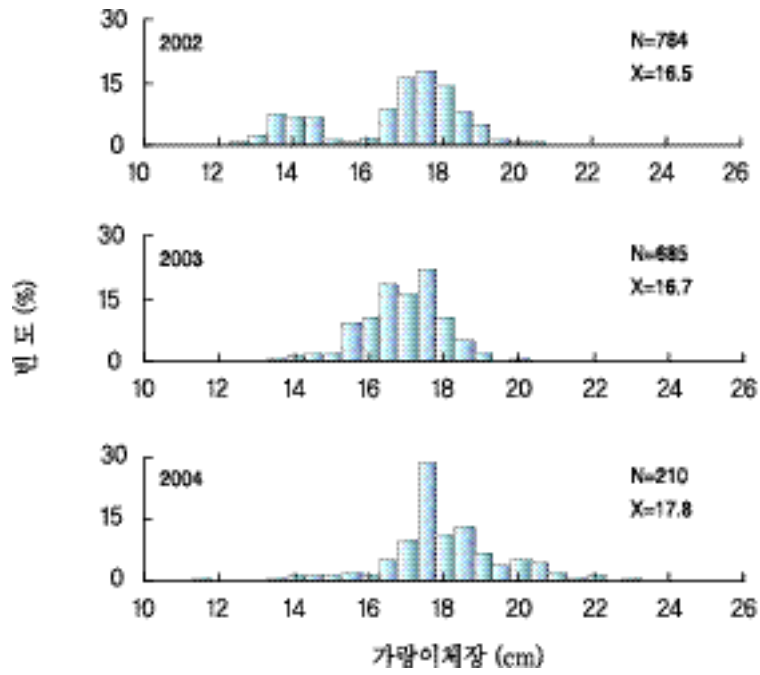
( )

50% 가 4~8 (Fork Length) 11.0cm , 6~7

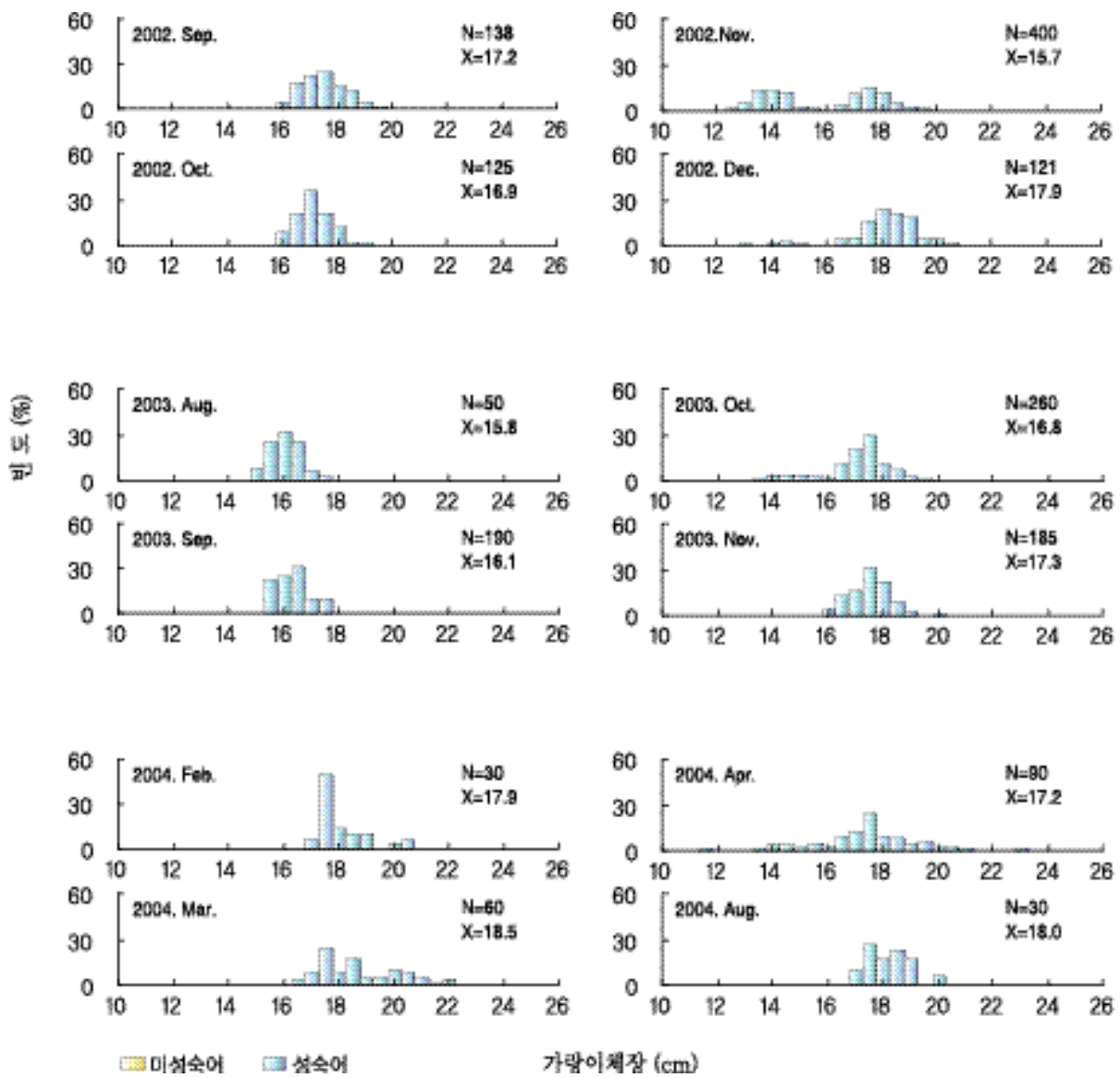


2-116.

2002 (가 ) 16.5cm ( 784 ) , 2003  
 16.7cm ( 685 ) . 2002 2003  
 11~12 가  
 , 10 가 .

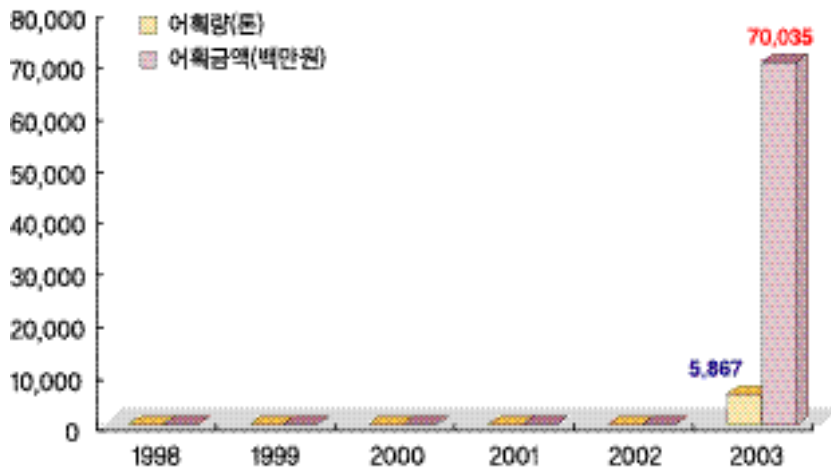


2-117.



2-118.

)



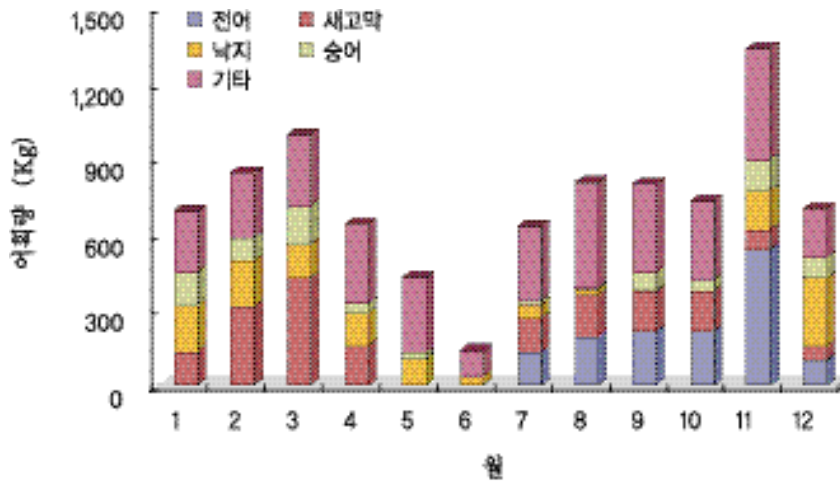
2-119.

( )

2003

5,867

70,035



2-120.

( )

2003

11

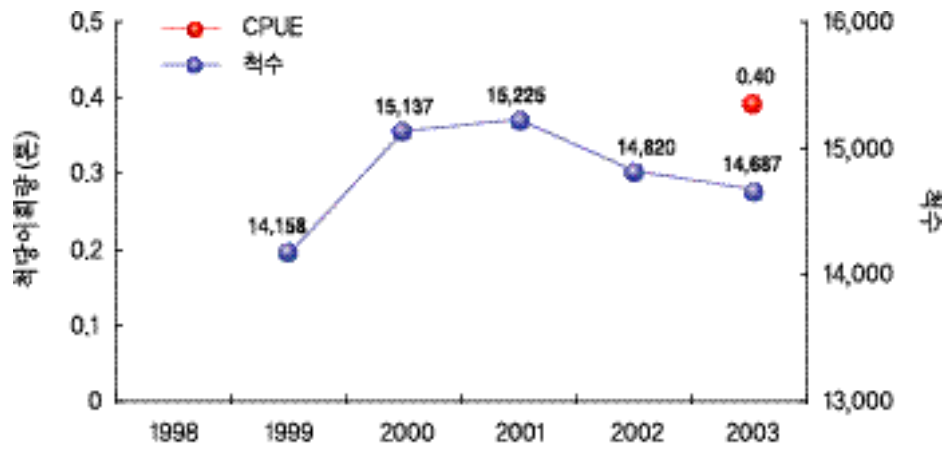
1,339kg

가

, 6

134kg

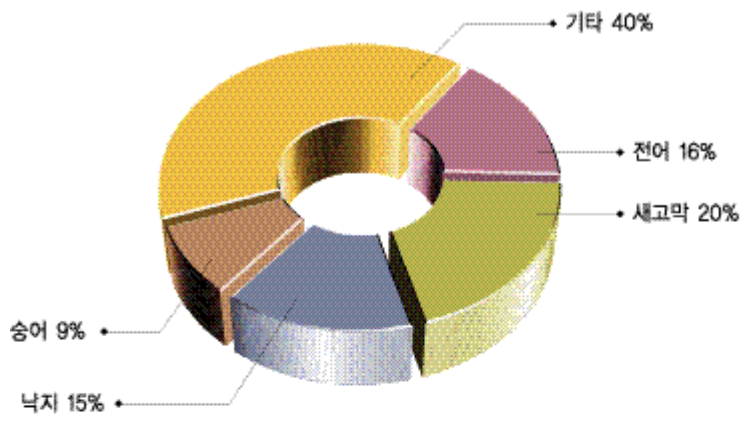
가



2-121.

(CPUE)

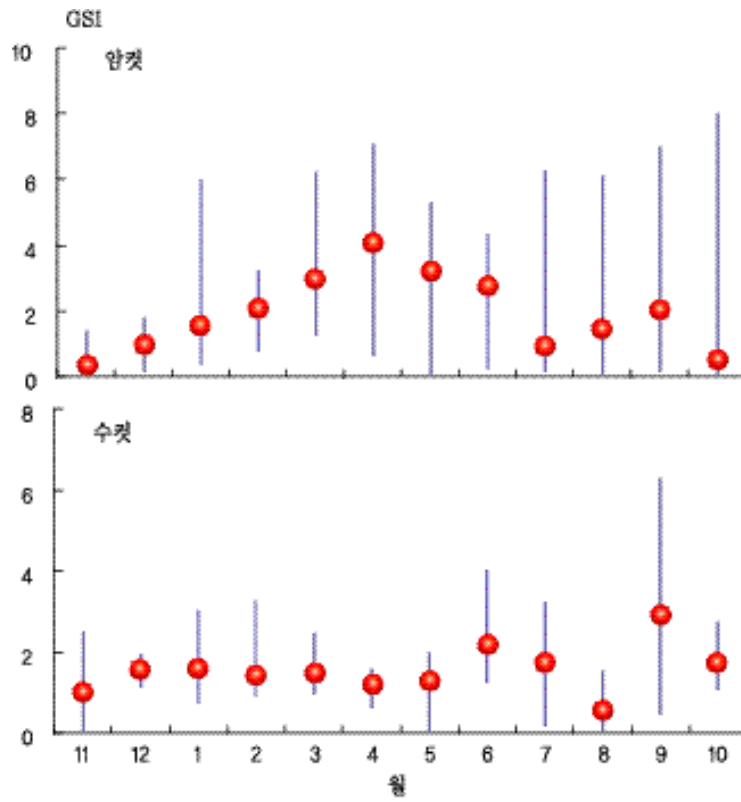
2003 14,687 , 0.40



2-122.

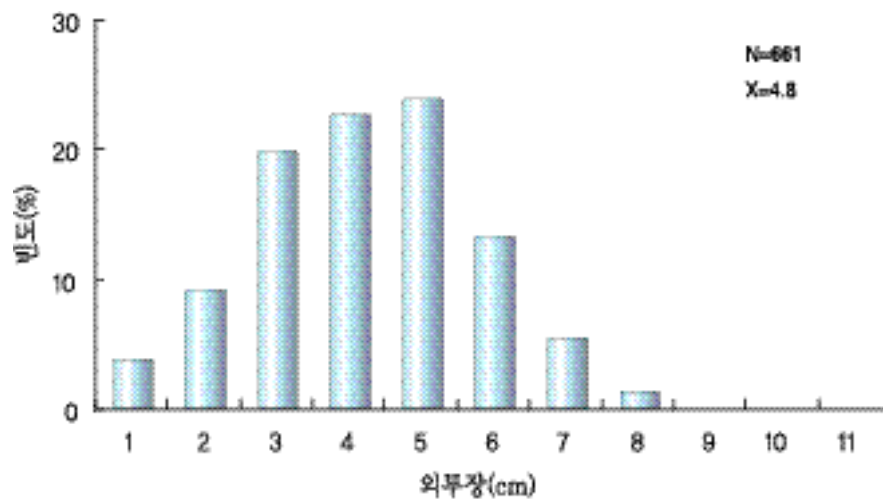
20% 가 , 가 16%, 가 15%, 가 9%

, 4  
 , 4cm 가 7~10 , 11  
 , 10cm 1 4~5

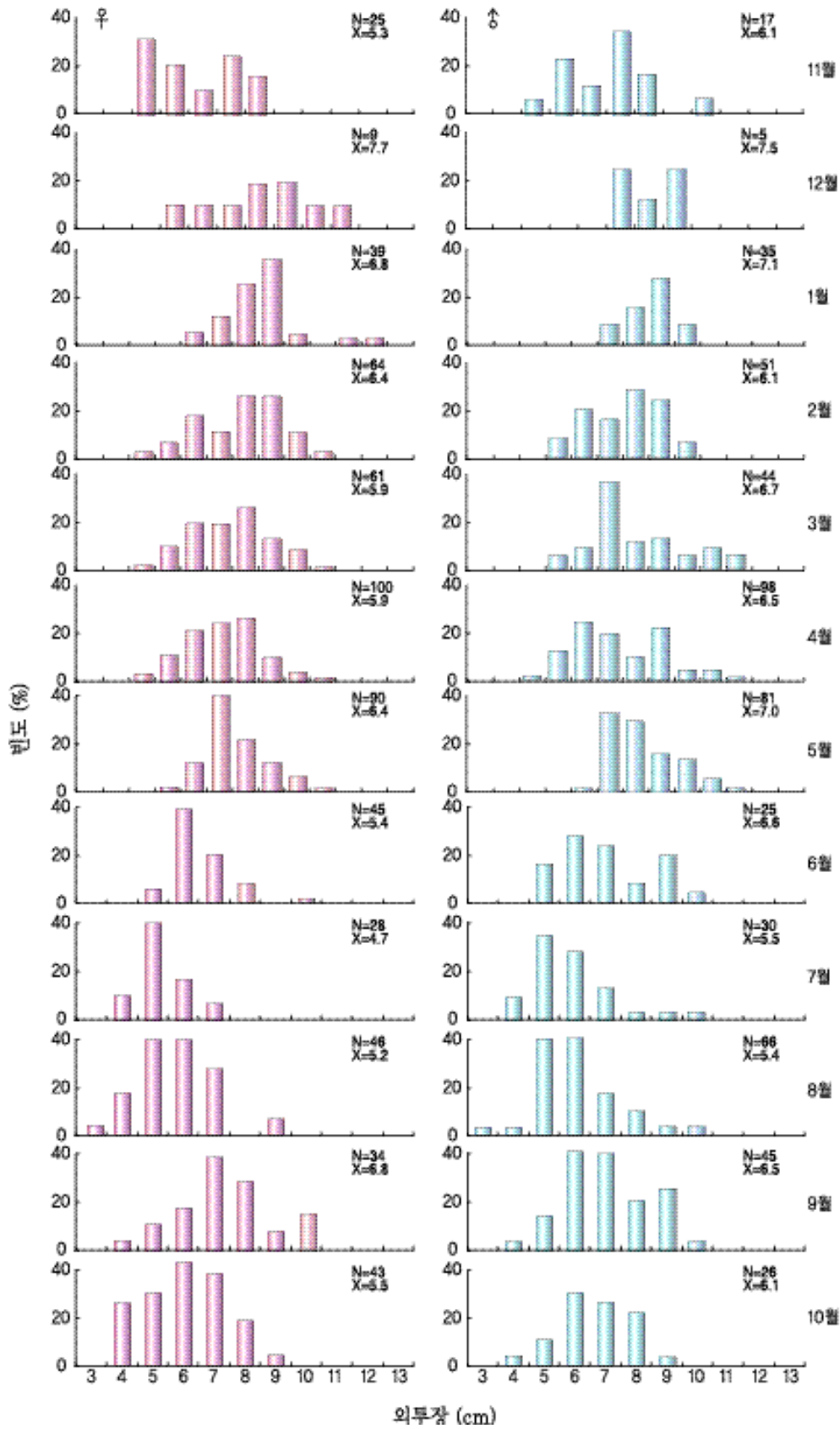


2-123.

2002 ( ) 4.8cm ( 661 )

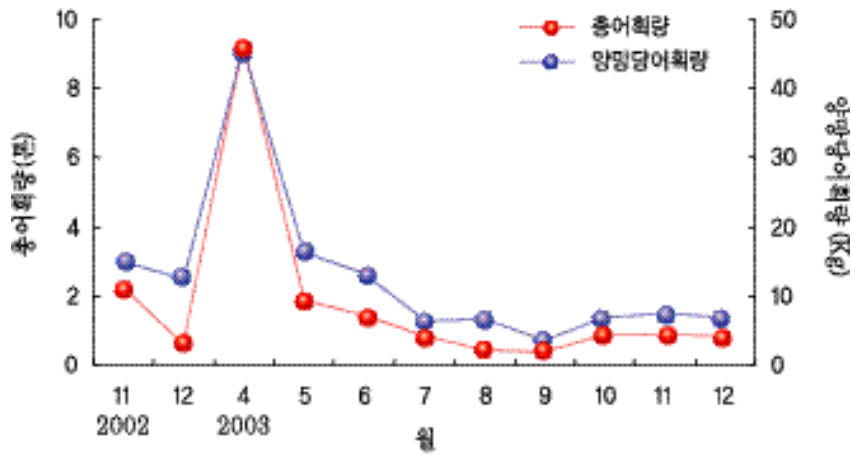


2-124.



2-125.

)



2-126.

(CPUE)

2.2

2003

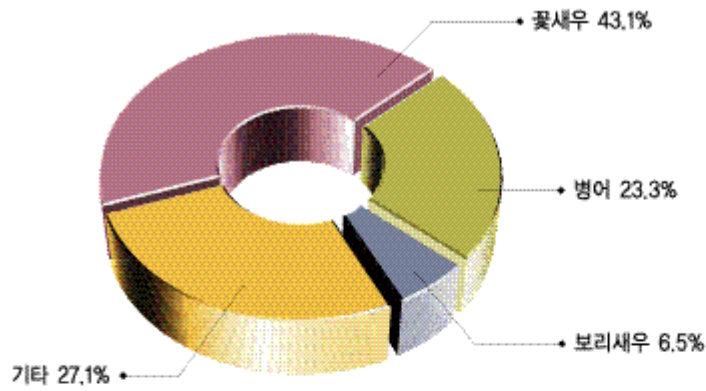
4

9.3

가

. 2002 11

2



2-127.

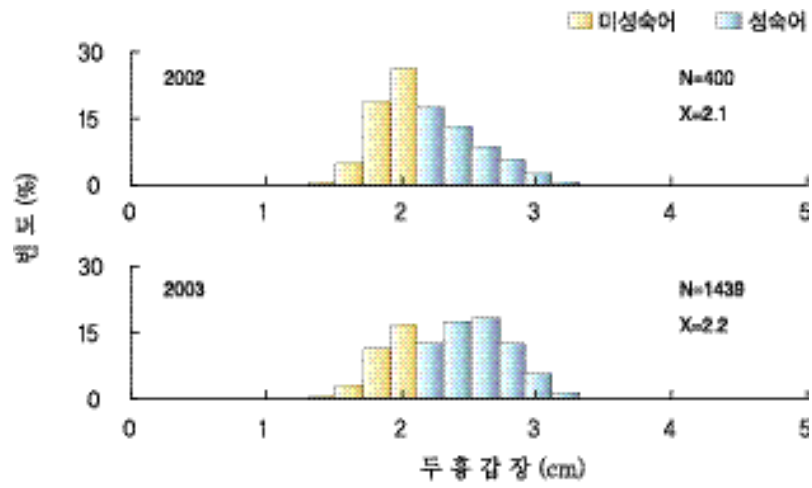
가 43.1% 가

, 가 23.3%,

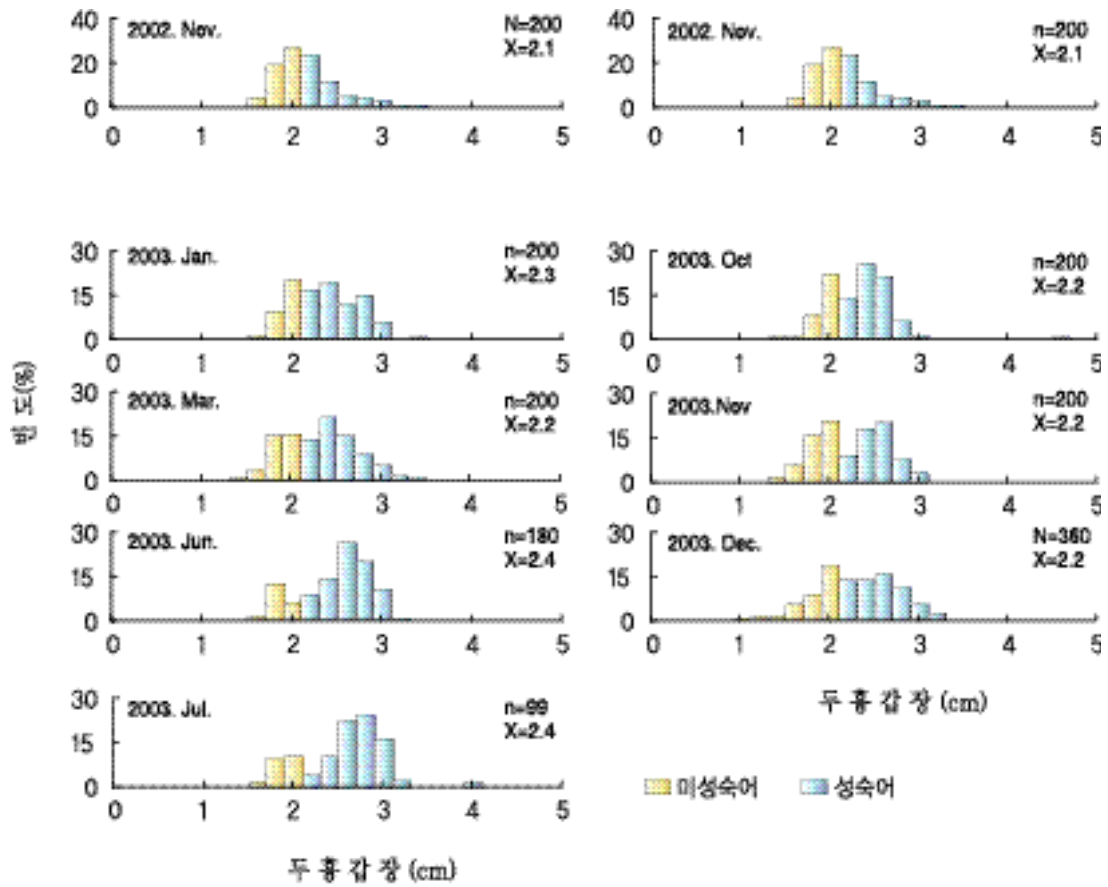
6.5%

2002 6~8 , 15mm .  
 ( ) 2.1cm ( 400 ) , 2003  
 2.2cm( 1,439 ) .



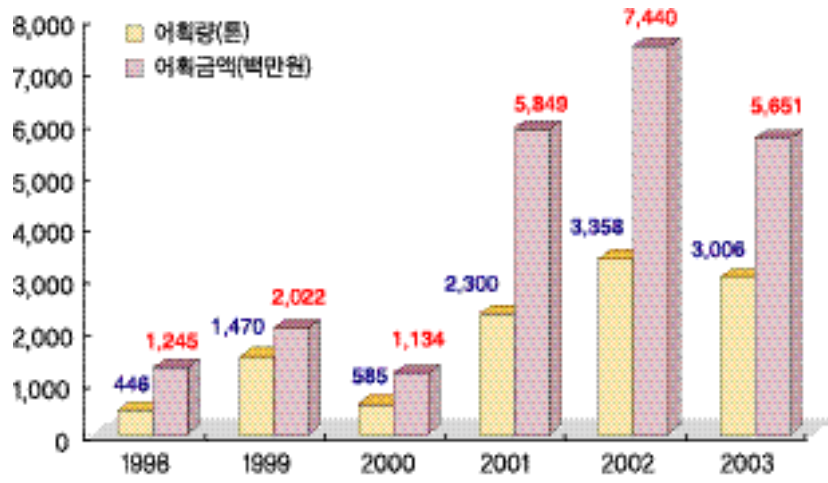


2-128.



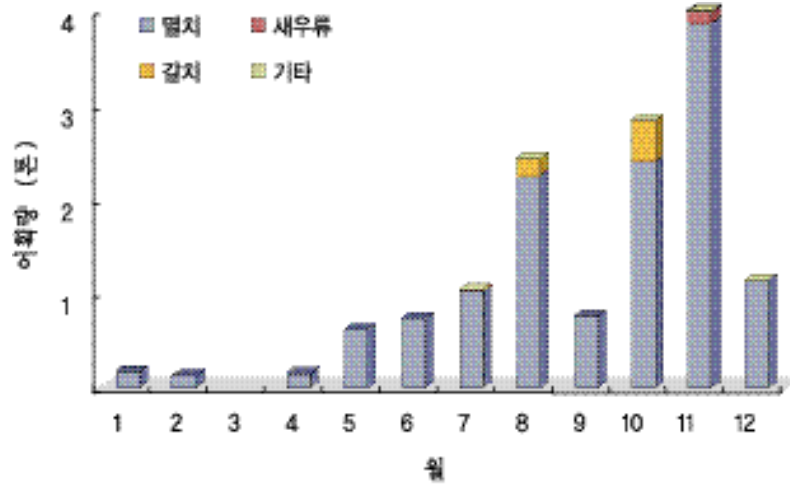
2-129.

3)  
가)



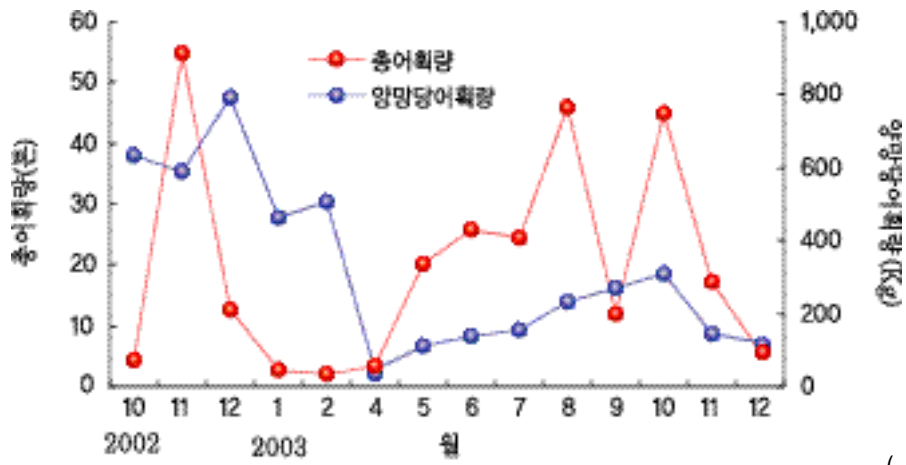
2-130.

가 , 1998 446 가 . 2002 3,358  
가 . 2002 7,440



2-131.

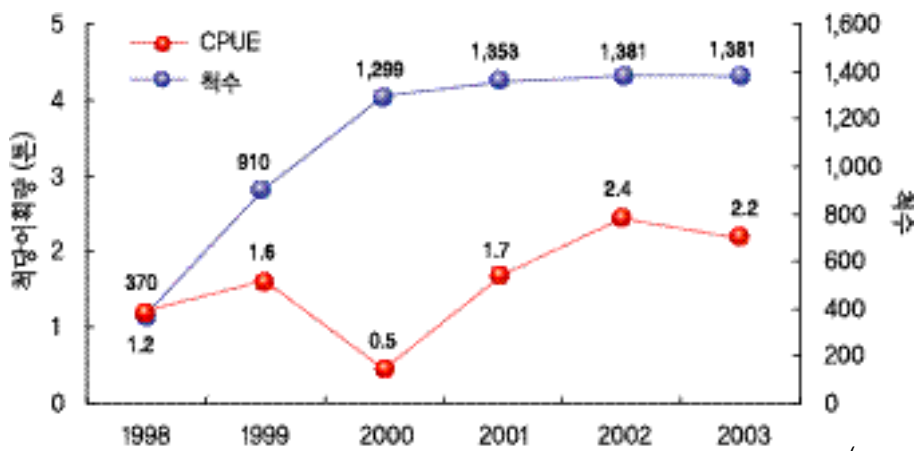
2003 11 4.2 가 , 1~4  
가 ,



2-132.

(CPUE)

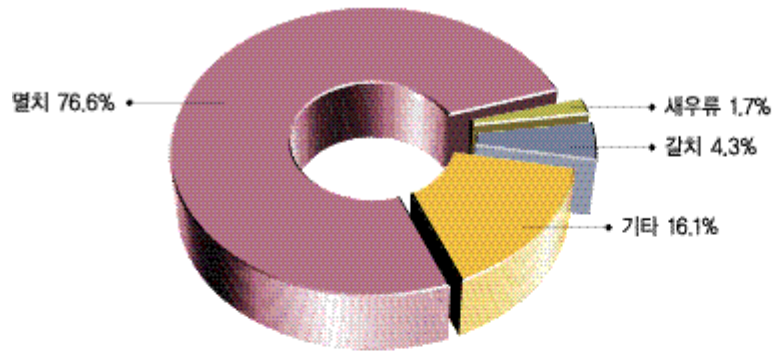
2002 11 54 가 , 가 2003 12 5



2-133.

(CPUE)

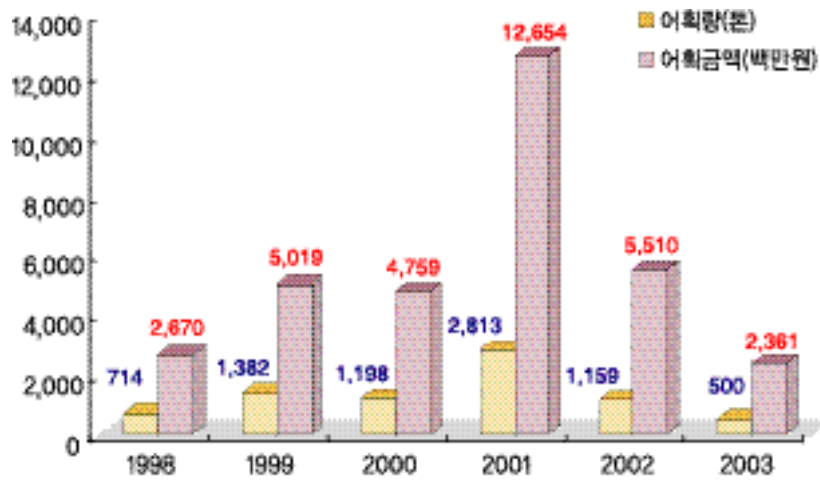
1998 370 가 2003 1,381 가  
2000 0.5 가 , 2002 2.4 가



2-134.

가 76.6% 가 , 4.3%,  
1.7%

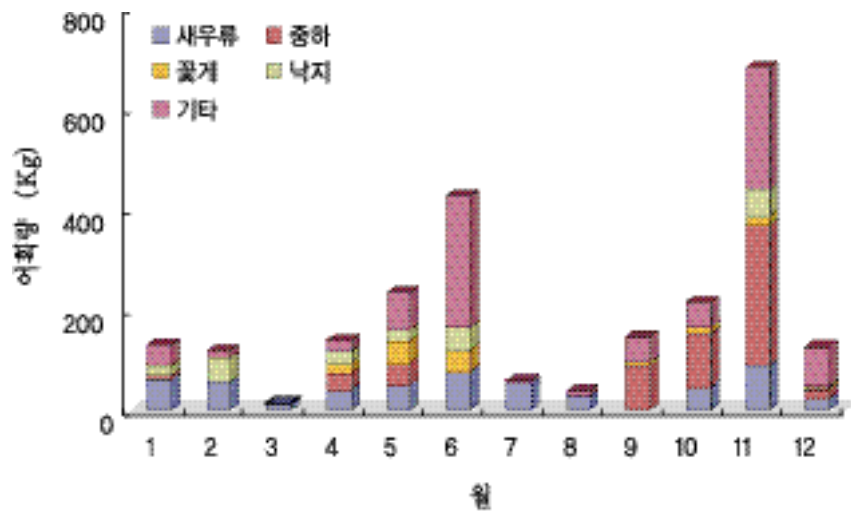
)



2-135.

( )

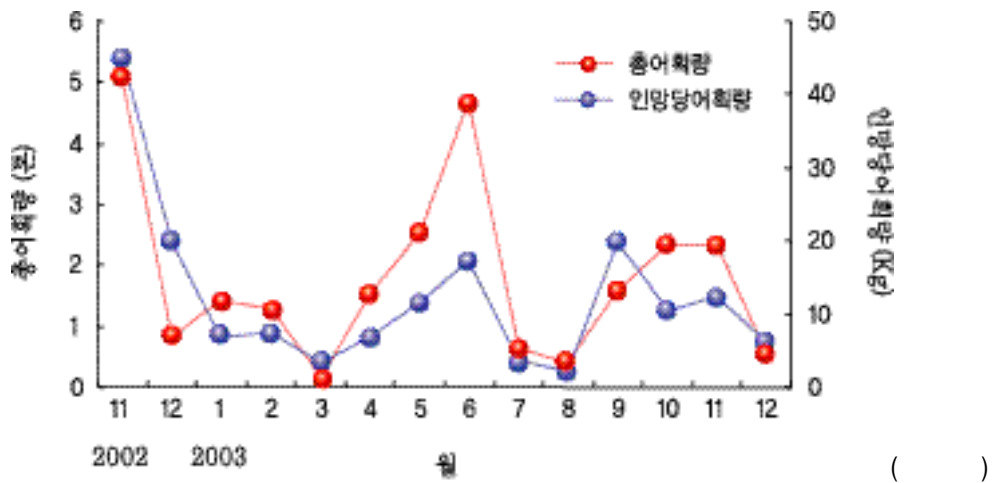
2,813 가 , 2003 500 가 . 2001 12,654 가



2-136

( )

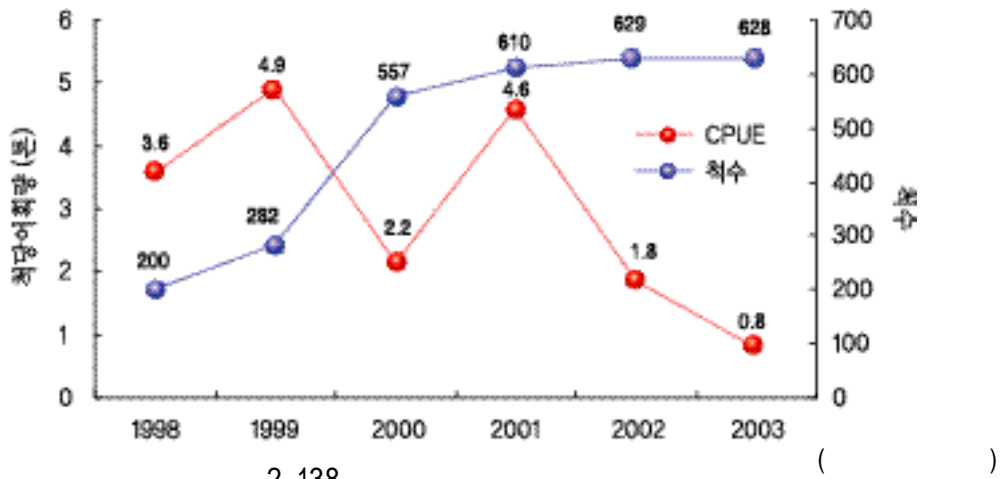
2003 11 682kg 가 , 3 14kg 가



2-137.

(CPUE)

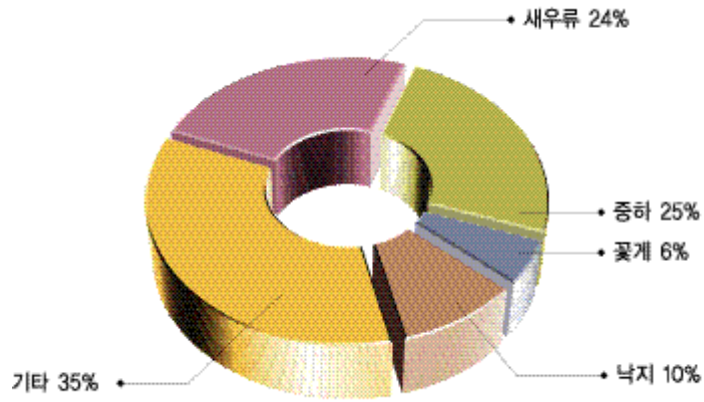
2002 11 5 , 2003 3 가  
 . 6 4 가 가 12 0.5



2-138.

(CPUE)

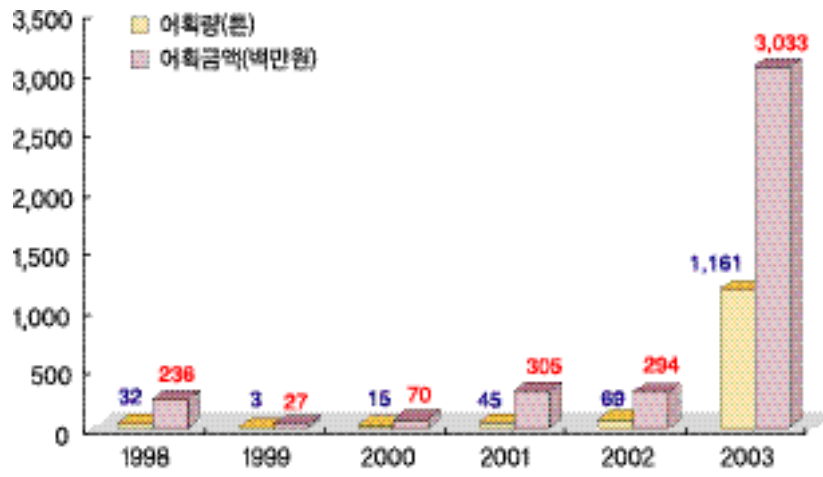
1998 200 가 2003 628  
 2000 4.9 가 , 2003 0.8 가



2-139

10%, 6% . 가 25% 가 , 24%,

)



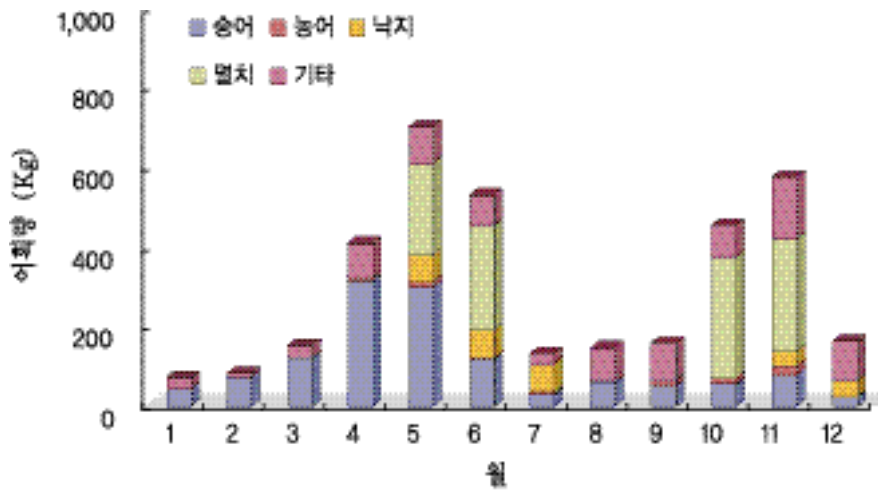
2-140.

( )

1998~2002

100

, 2003 1,161 가

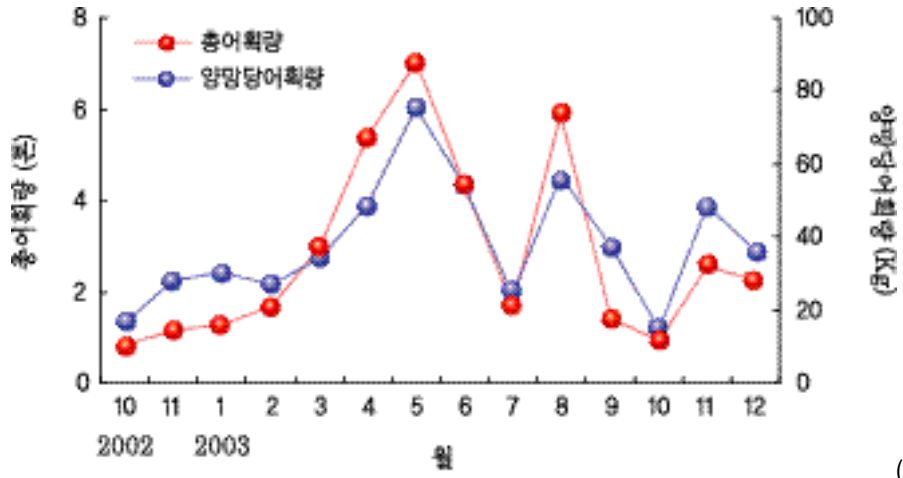


2-141

( )

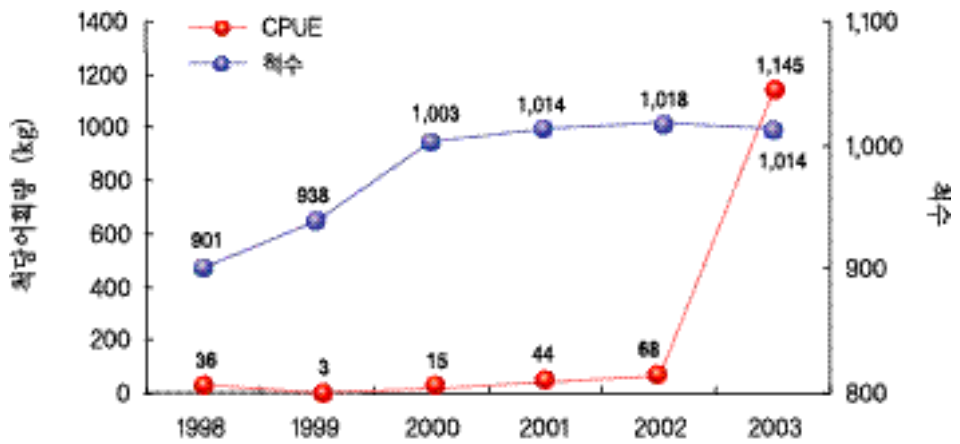
2003 5 682kg 가 , 1 161kg 가





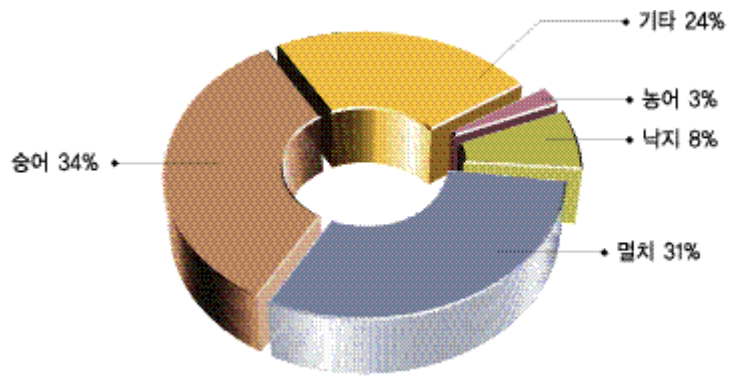
2-142.

(CPUE) . 2002 10  
 ~2003 2 3 , 가 2003 5 6  
 가 12 2



2-143.

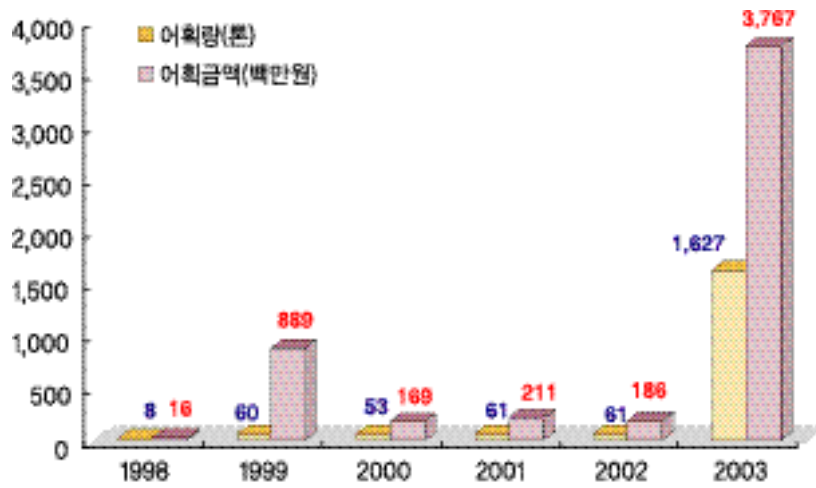
(CPUE)  
 1998 901 가 2003 1,014 ,  
 1998~2002 100kg , 2003 1,145kg 가



2-14.

가 34% 가 , 31%,  
8%, 3% .

)



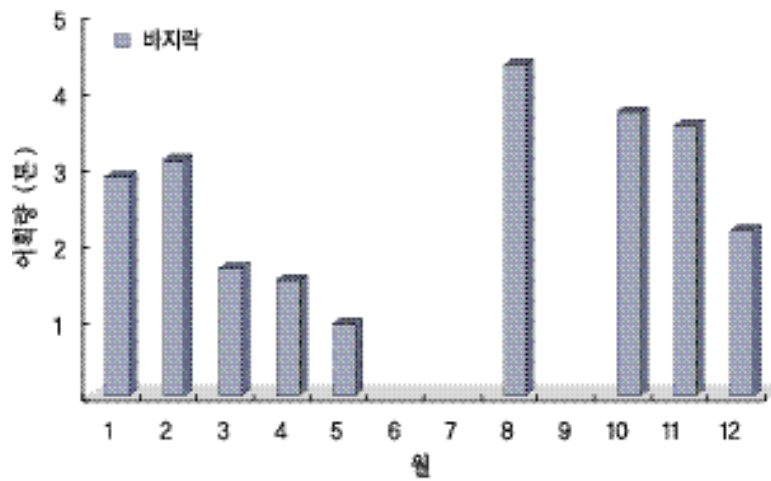
2-145.

( )

1998~2002

1000

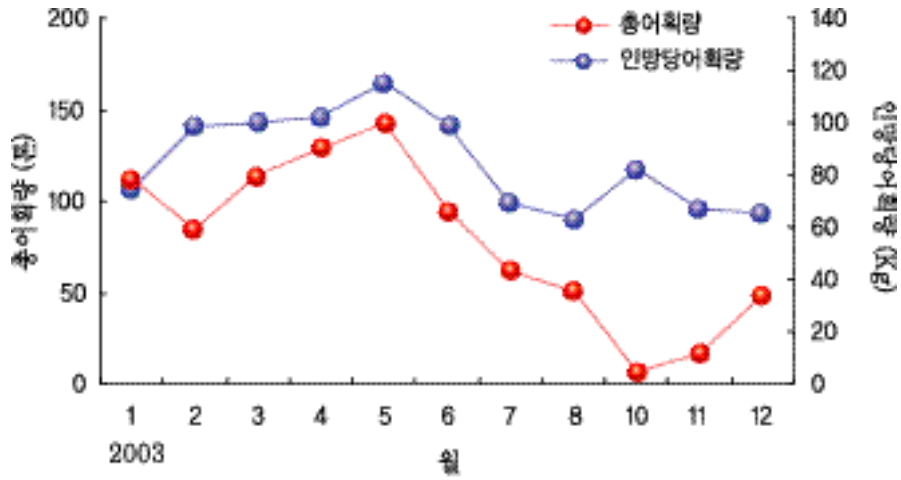
, 2003 1,627 가



2-146.

( )

2003 8 4.3 가 , 5 0.9 가  
 , 6~7 , 9



2-147.

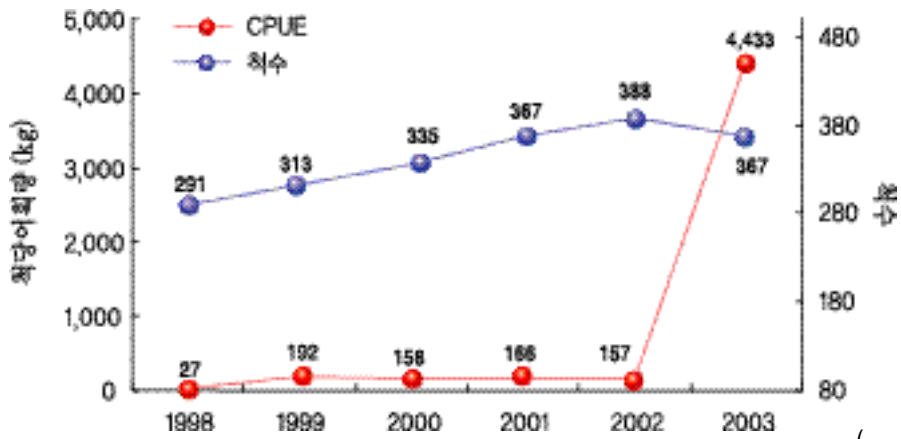
(CPUE)

( )

. 2003 5

142

, 10 6 .

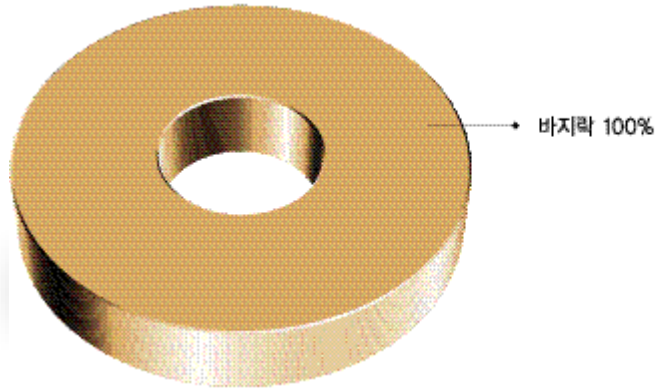


2-148.

(CPUE)

( )

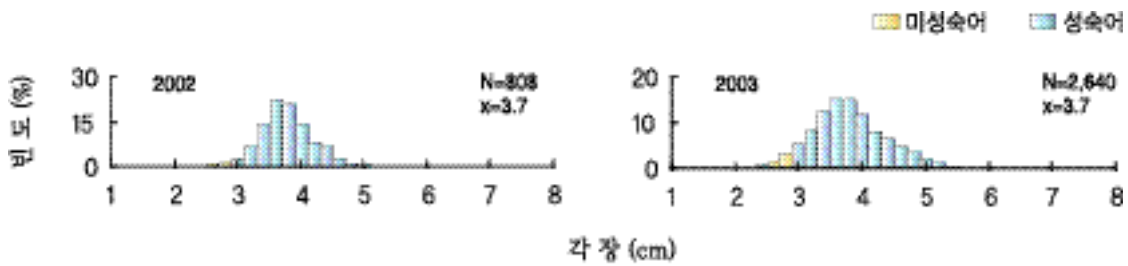
1998 291 가 2003 367 ,  
 1998~2002 200kg , 2003 4,433kg 가



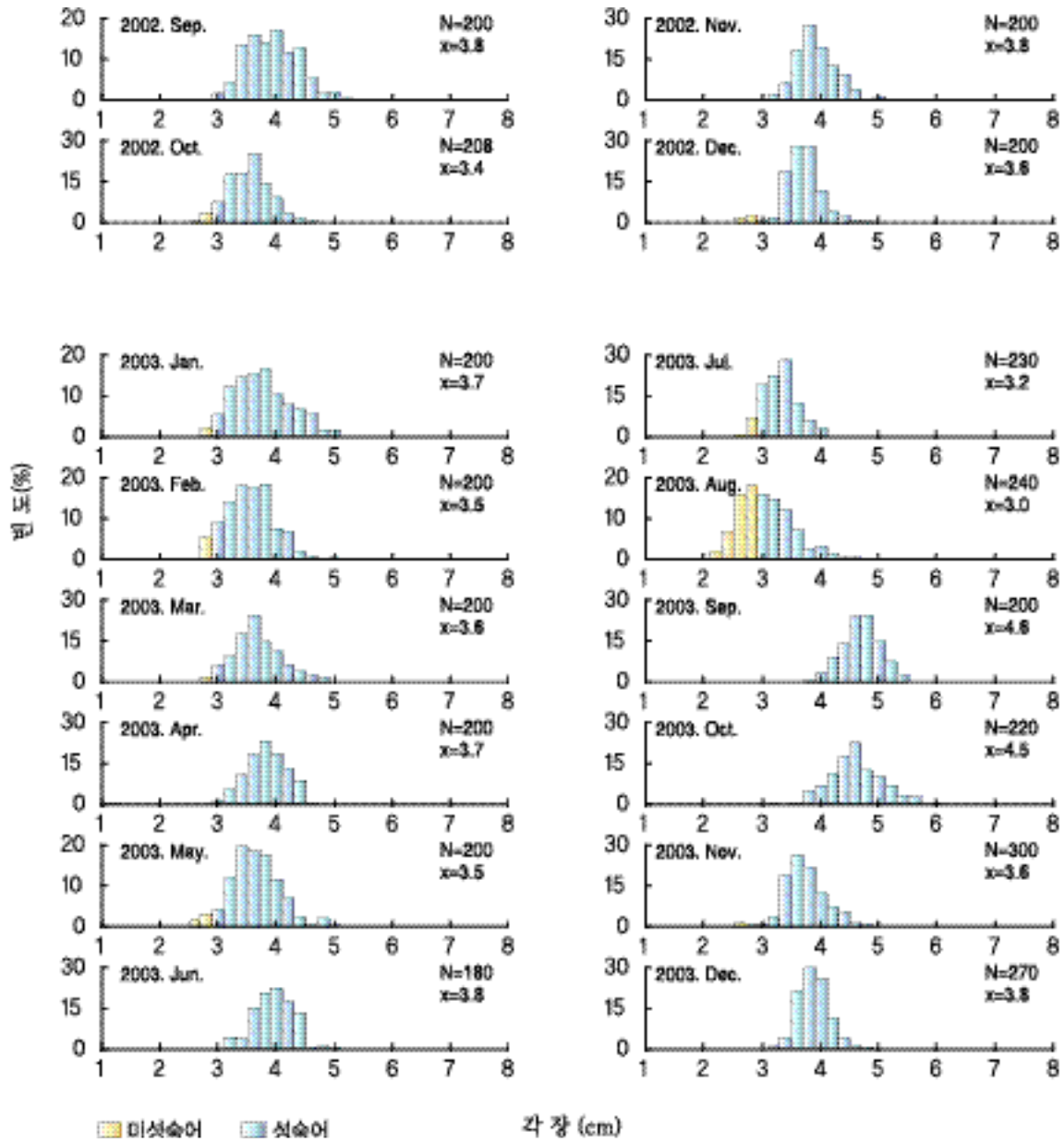
2-149.

100% .

6~9 , 7~8 . 50%  
 (Shell Length) 3cm .  
 2002 ( ) 3.7 cm ( 808 ) , 2003  
 3.7 cm ( 2,640 ) . 2002  
 1.6% , 2003 16.6% .  
 2003 7~8 .

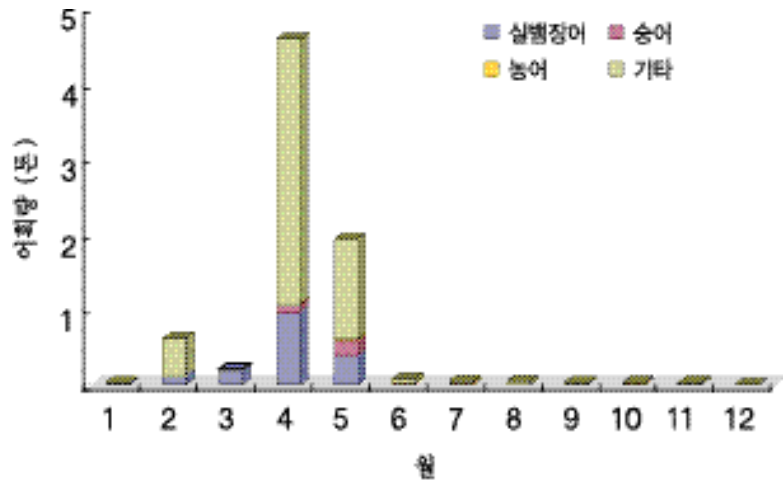


2-150.



2-151.

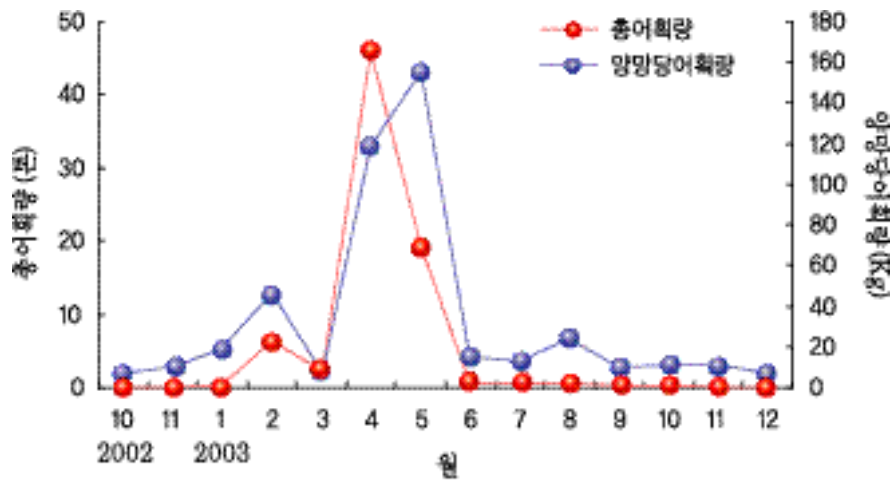
)



( )

2-152.

4 4.5 가 , 6~12 .

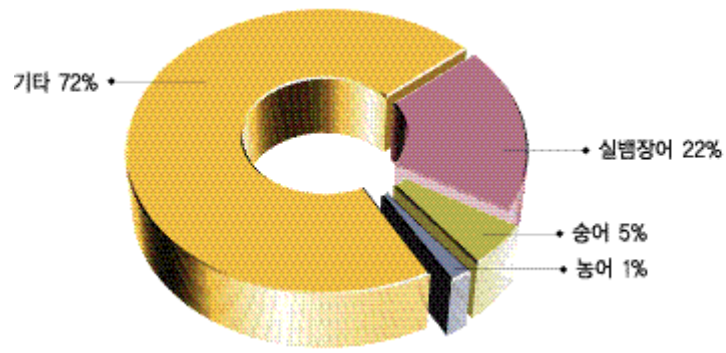


( )

2-153.

(CPUE)

4 45 가 , 1

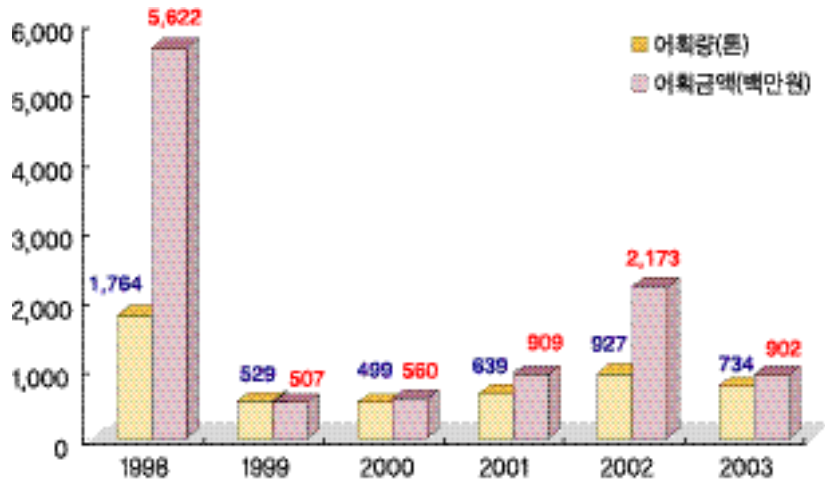


2-154.

1% . 5%,



)

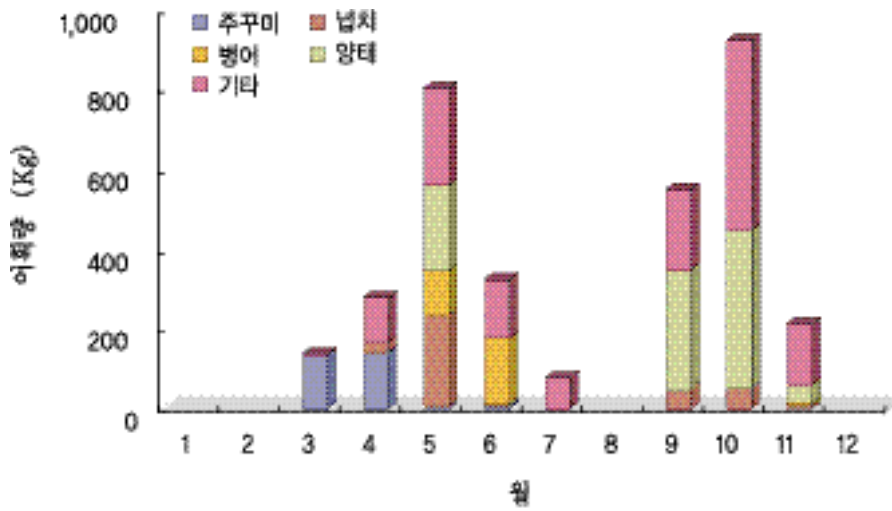


( )

2-155.

1998 1,764

가 , 1000

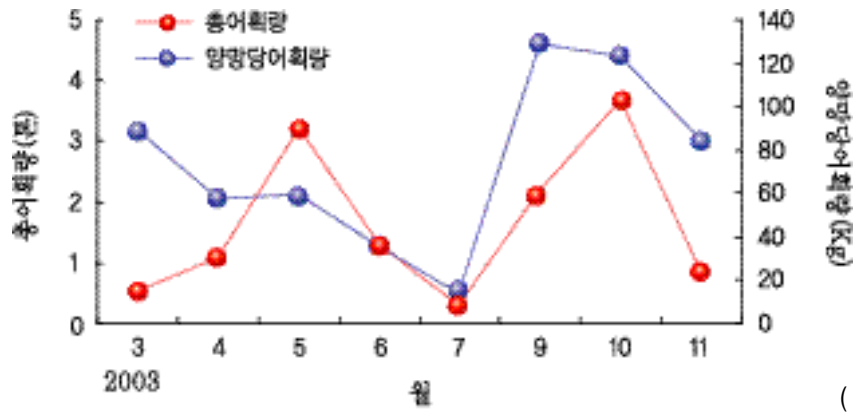


( )

2-156.

5 10 , 1 , 2 , 8

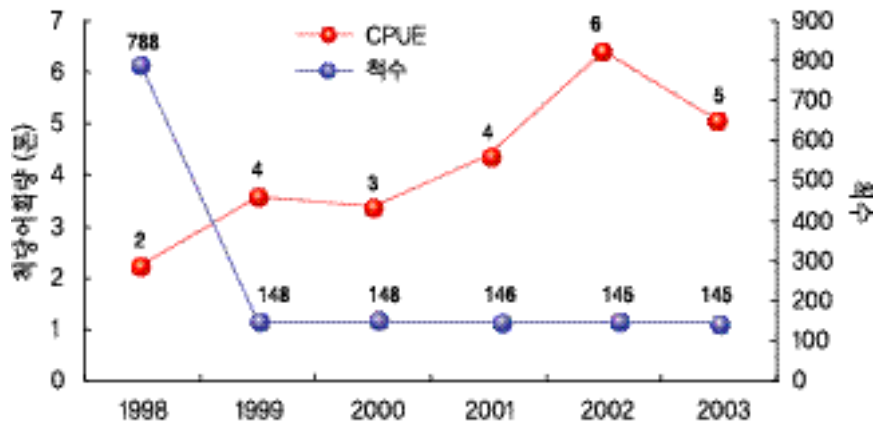
가



2-157.

(CPUE)

, 2003 5 3.2 , 10 3.6



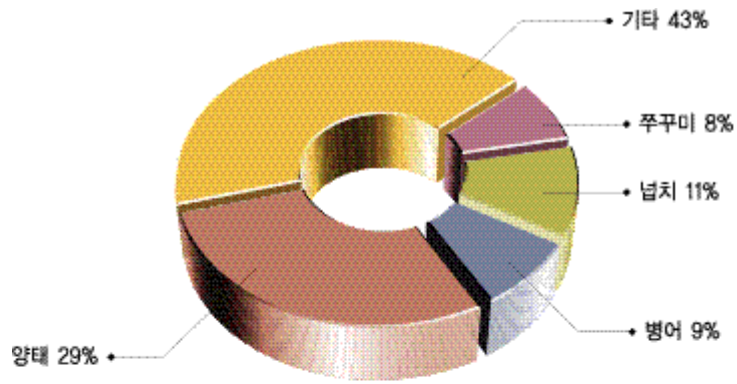
2-158.

(CPUE)

1998 788 가 , 2003 145

1998 2 가 , 2002 6 가

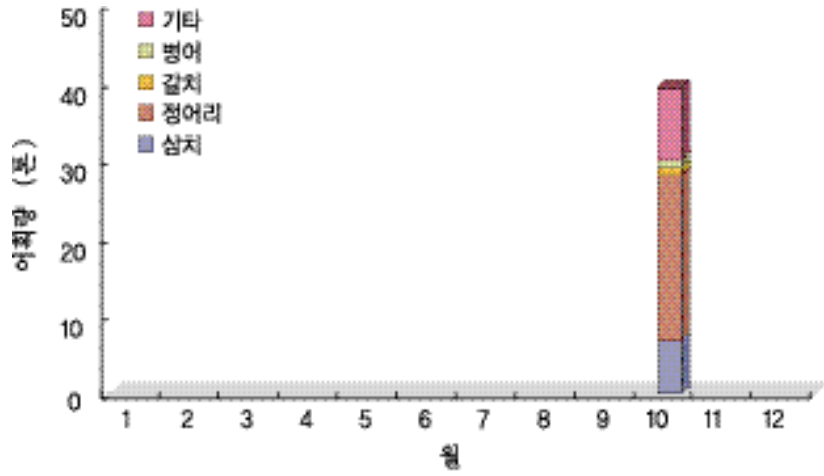
, 2003 5



2-159.

9%, 8%, , 가 29% 가 , 11%,

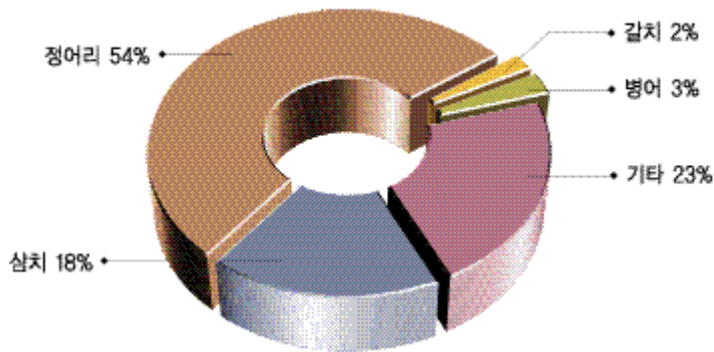
4)  
가)



( )

2-160.

2003 10 39 .

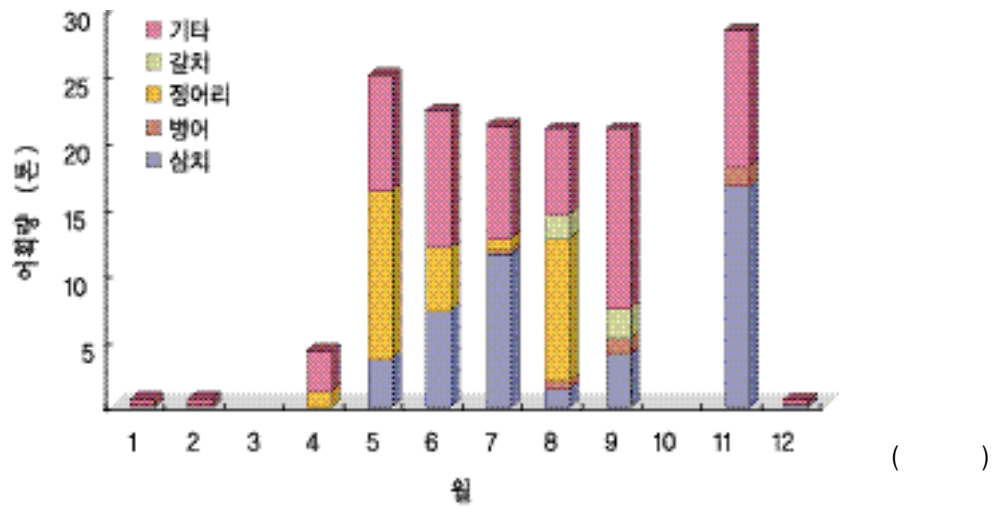


2-161.

가 54% 가 , 18%,

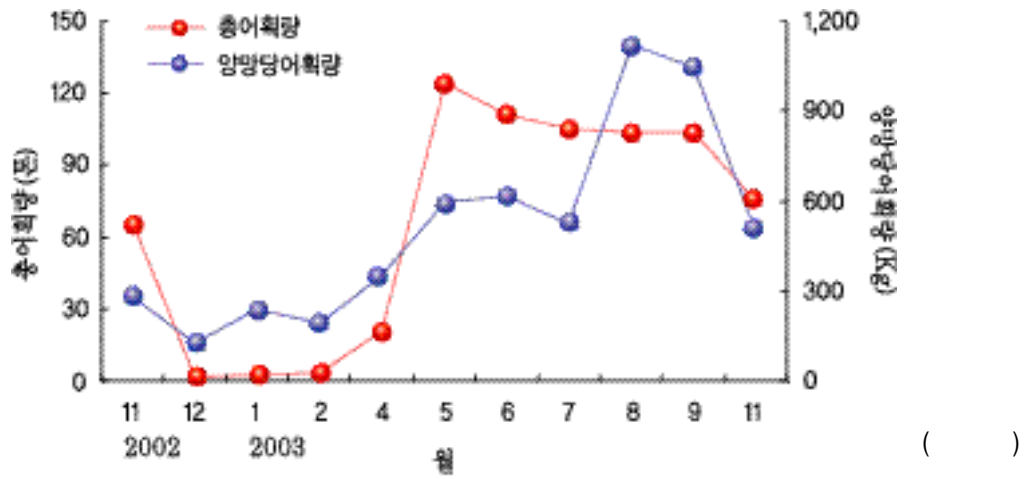
3%, 2%

)



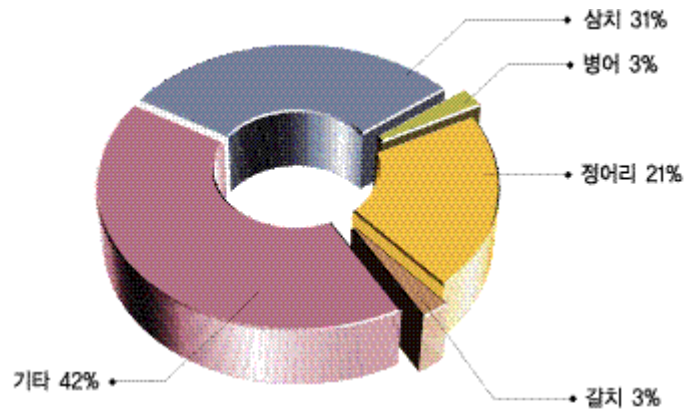
2-162.

2003 11 28 가 ,  
 . 3 10 .



2-163.

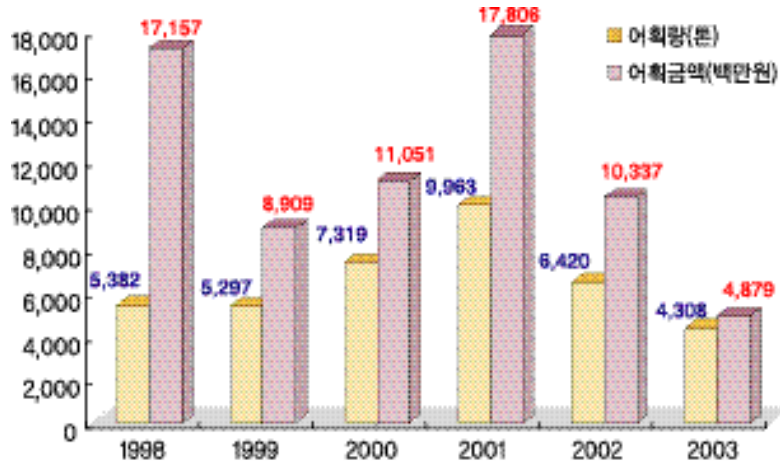
(CPUE) . 2002  
 11 2003 4 , 8 가 124 가  
 , 11 75 .



2-164.

가 31% 가 , 21%,  
3% .

5)

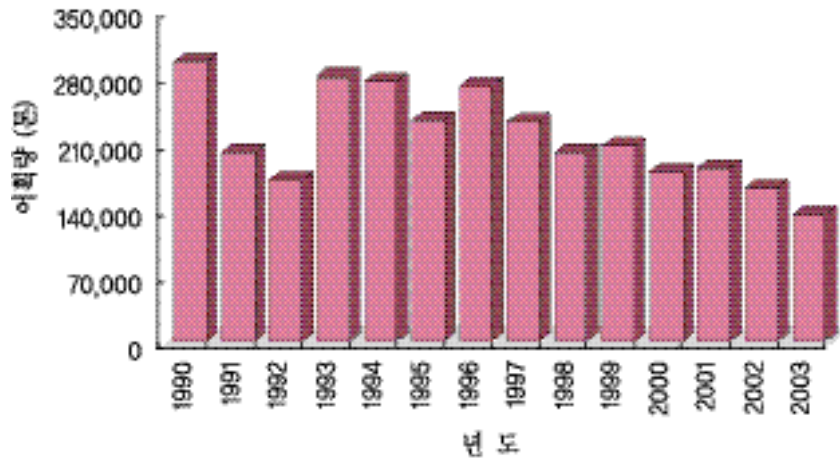


2-165.

1998 5,382 ,  
 가 2001 9,963 가 , 2003  
 4,308 .  
 16 , 266,000kg 가  
 , 가380kg 가 .

2-1.

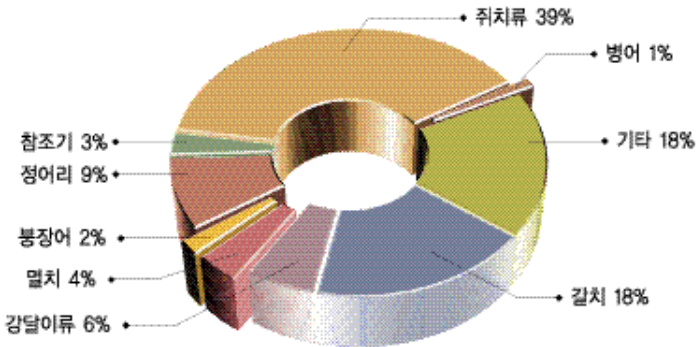
(kg)															
2002		149	3	4,300				4,300							
2002		121	3	1,600				1,600							
2002		57	20	6,000	6,000										
2002		630	10	20,200	1,000		19,000								200
2002		173	50	17,620			11,000		2,500	3,000	1,120				
2002		133	20	266,000	266,000										
2002		108	163	31,211		26,850		2,570	1,767					24	
2003		173	50	18,000			16,000			1,440	560				
2003		133	32	85,120	85,120										
2003		105	201	228,064		214,209		10,380	3,475						
2003		345	150	8,000											8,000
2003		208	32	400							400				
2003		108	27	380										380	
2002		20	12	700							700				
2002		20	12	700							700				
2002		546	48	2,205							811	244.9	1,149		



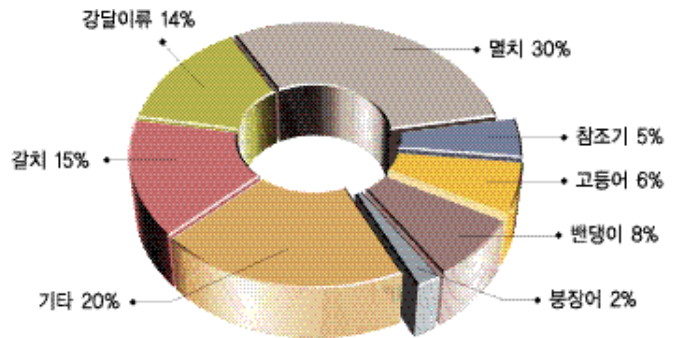
2-166.

1990 296,666 가  
 , 1992 170,200 , 2002 2003  
 161,864 , 134,833 (216,086 )

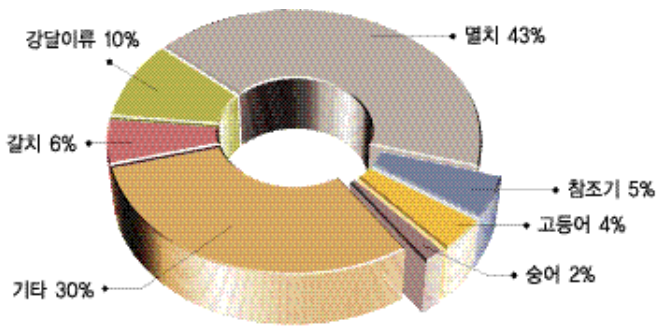
1)



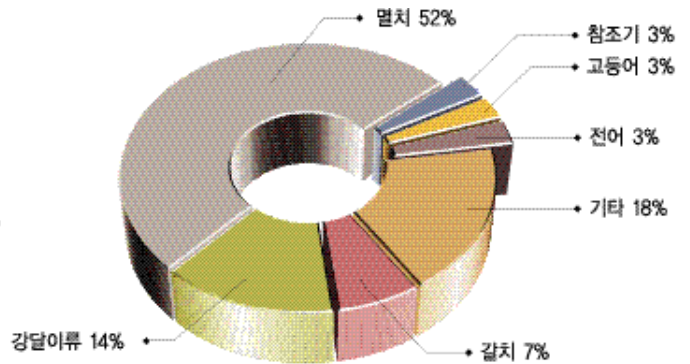
1990



1995



2000



2003

2-167.

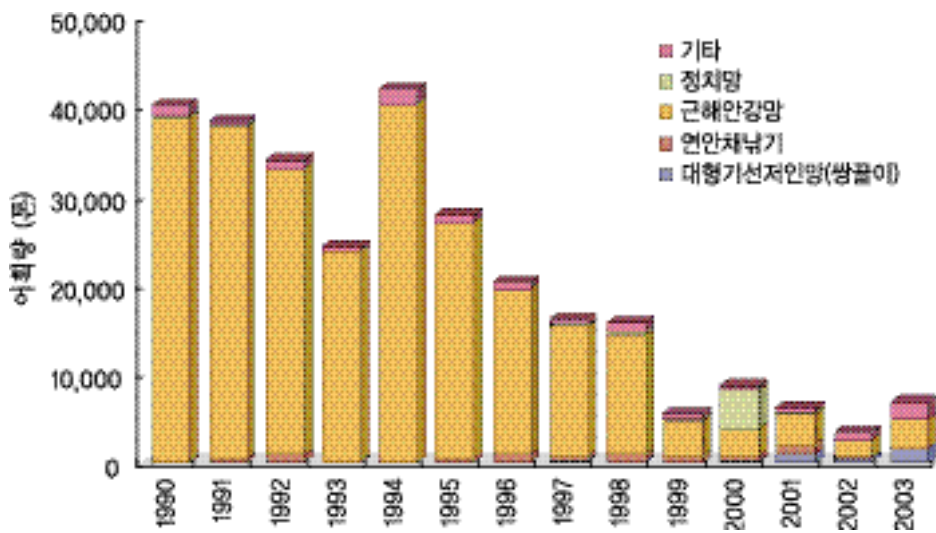


1990 (87,129), (40,135), (20,339), (12,565), (8,428), (6,082), (4,117), (3,002), 1995 (54,720), (27,770), (25,613), (14,753), (10,917), (9,031), (4,564) 가 .

2000 (58,277), (13,453), (8,656), (6,307), (4,825), (2,988) 가 , 2003 (52,602), (13,772), (6,829), (3,222), (2,752), (2,667) 가 , 2000

2)

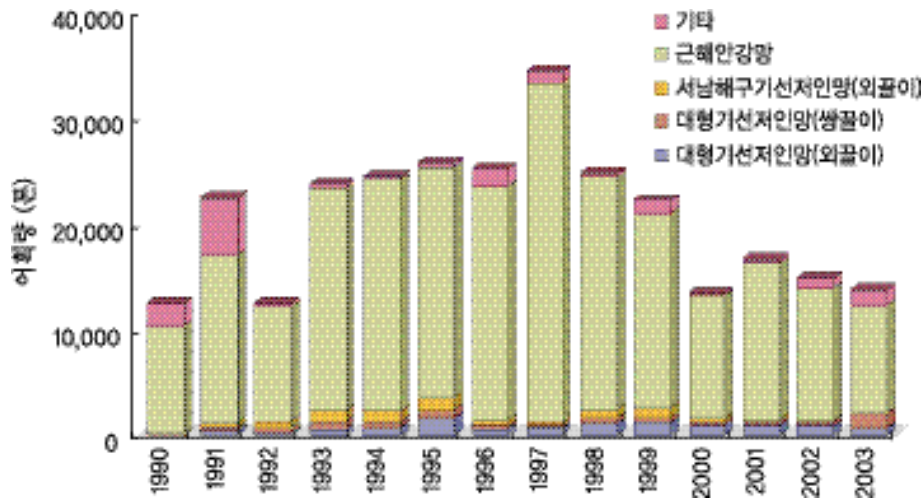
가)



2-168.

1994 41,781 가 , 2002 3,281 가 . 91% ( )

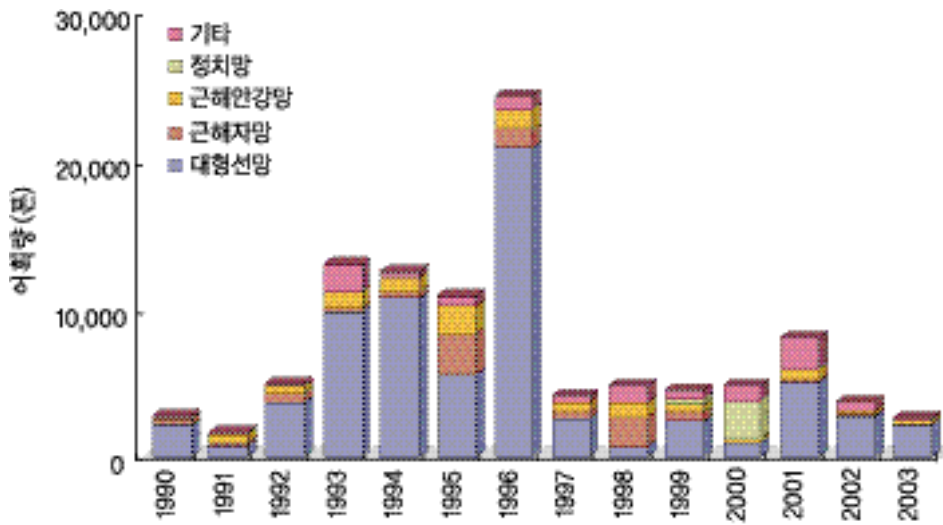
)



2-169.

가 . 1997 34,336 가 , 1992 12,479  
 가 85%가 ,  
 ( ), ( ), ( )

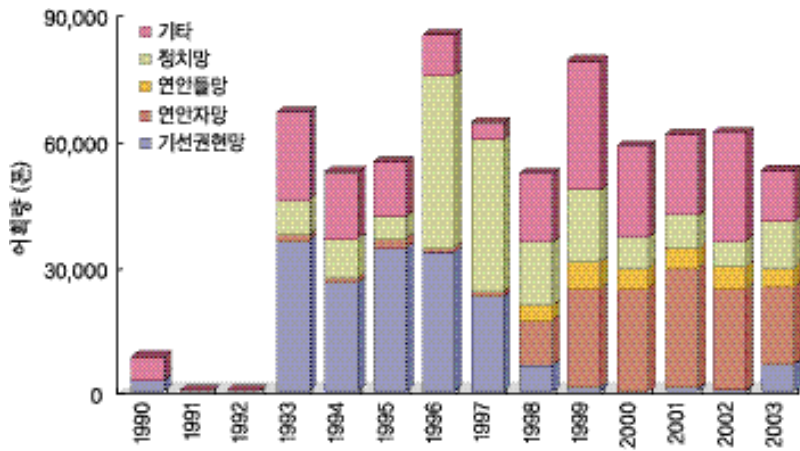
)



2-170.

가 . 1996 24,244 가 , 1991 1,647  
 가 69%가 ,  
 10%, 9%, 3%, 10%가 .

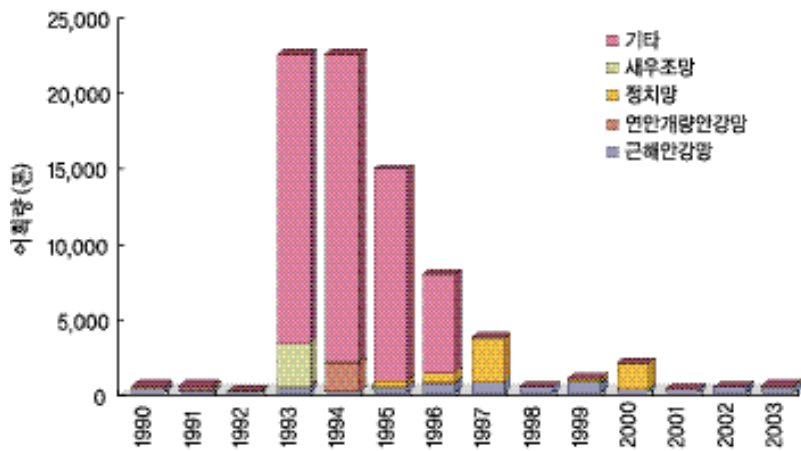
)



2-171.

1996 84,436 가 , 1991 92 가  
 . 1990 가 1993 66,497 가  
 54% , 13%, 2%, 31%  
 . 2003 35%, 21%, 12%,  
 9%, 23% , 1998 가 .

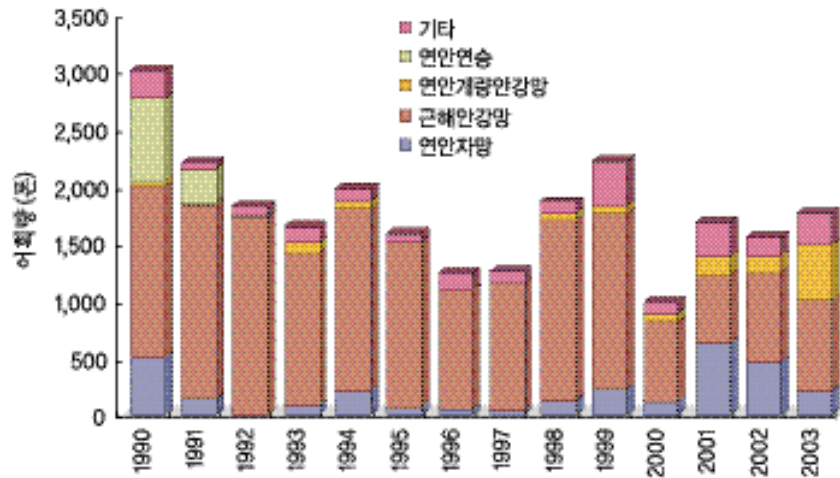
)



2-172.

1993 22,416 가 , 1992 142  
 가 . 1990 463 56%,  
 44% , 2003 76%, 24%  
 . 1993 가 1997 5,000

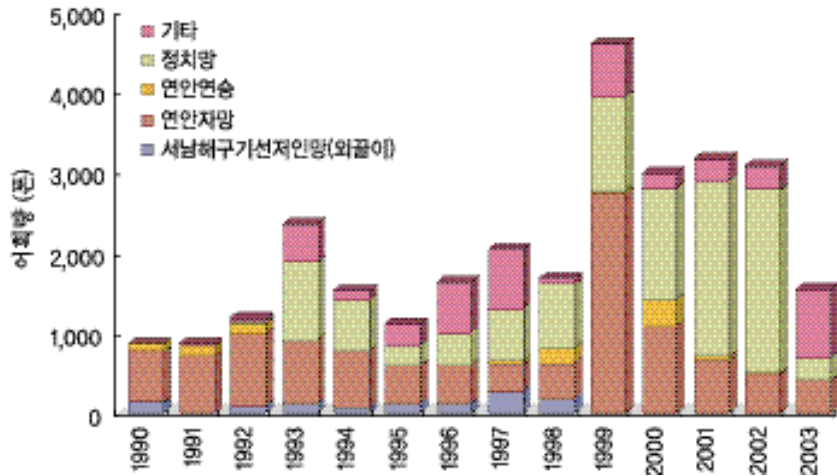
)



2-173.

1990 3,002 가 , 2000  
 984 가 1990 가  
 49%, 24%, 17%, 2%, 8%  
 5%, 4%, 9%, 70%, 12%

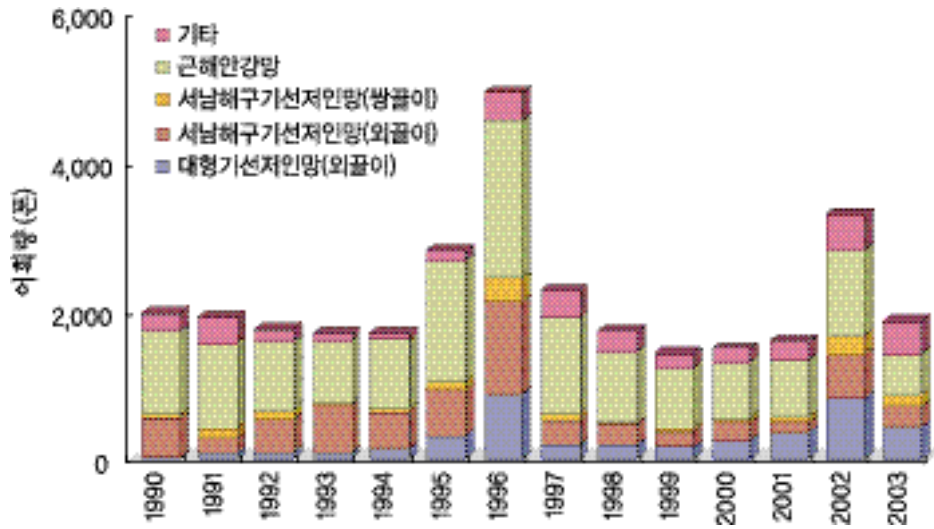
)



2-174.

1990 1991 871 가 ,  
 가 1999 4,594 , 2003  
 1,549 . 1990 72%, ( )  
 16%, 10%, 2%, , 1993  
 가 2003 26%, 19%,  
 56%

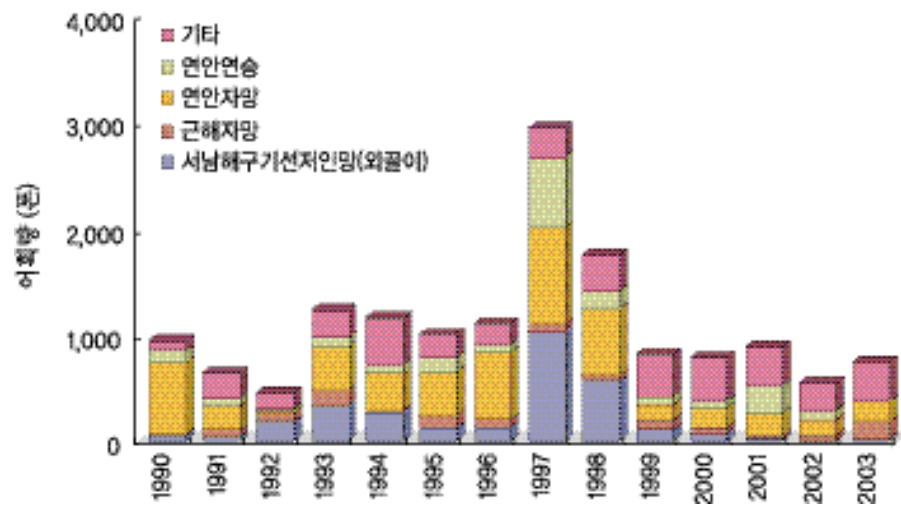
)



2-175.

가 . 1990 1996 4,922 가 , 1999 1,414  
 ) 26%, ( ) 3%, ( ) 2% ,  
 2003 30%, ( ) 24%,  
 ( ) 14%, ( ) 8%, 23%  
 ( ) 가 .

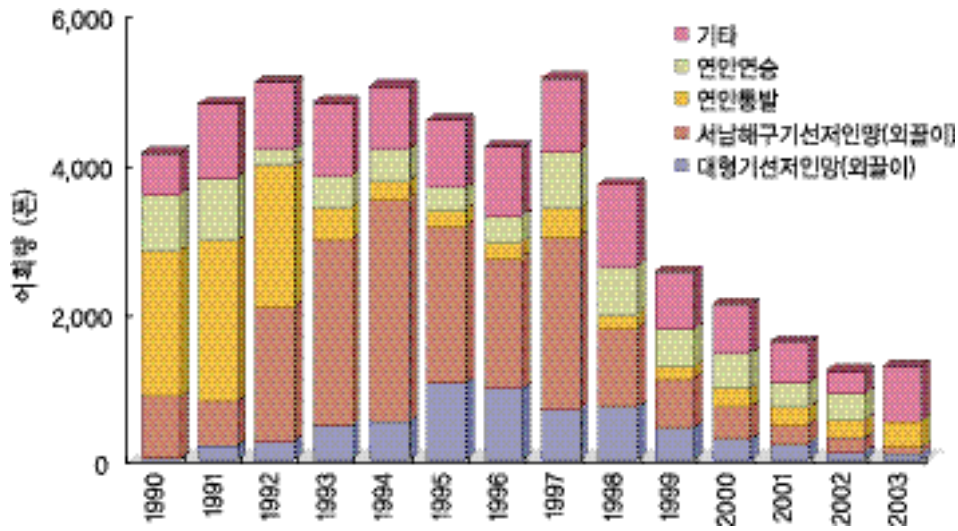
)



2-176.

1997 2,955 가 , 1992 458 가  
 . 1990 73%, 11%,  
 ( ) 7%, 9% . 2003 28%,  
 23%, ( ) 3%, 47%

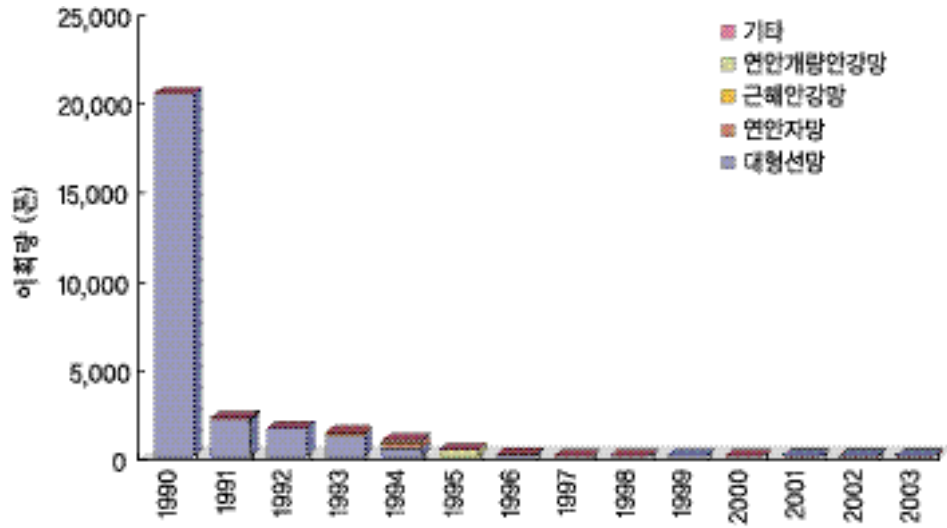
)



2-17.

1990 1997 5,135 가 ,  
 2002 1,194 가 . 1990 48%,  
 20%, 19% , ( ) ,  
 . 2003 28%,  
 ( ) 8%, ( ) 6%, 58%

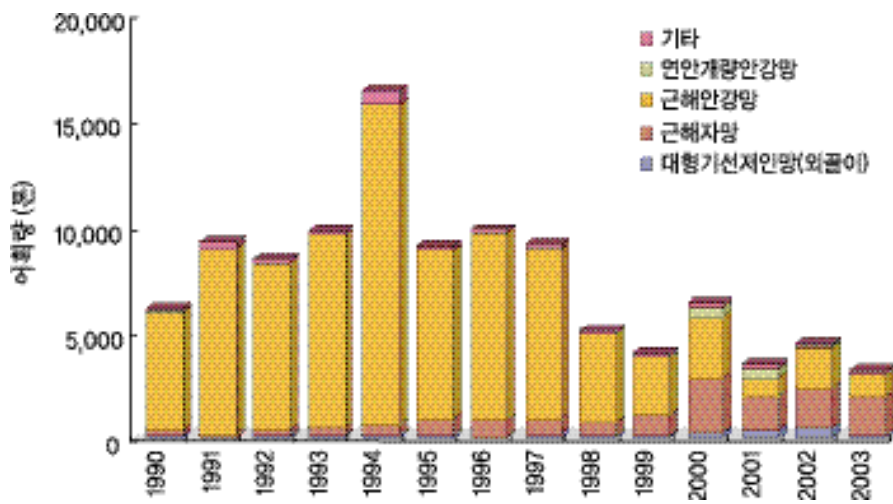
)



2-178.

1990 20,339 가 , 1997 50 , 95% 가

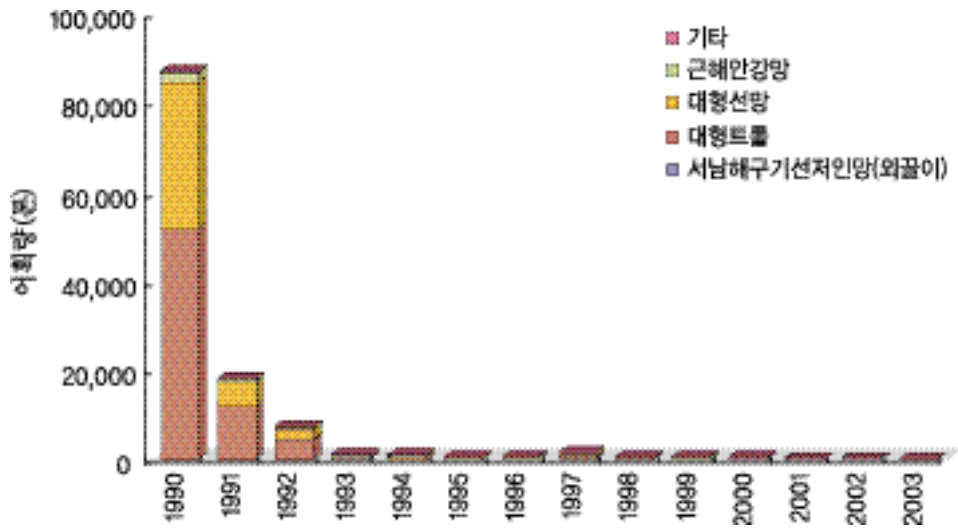
)



2-179.

1990 1994 16,322 가 ,  
 2003 3,222 가 .  
 . 1990 91% 가 , ,  
 ( ), 2000  
 가 2003 59%, 30%  
 , ( ), , .

)



2-180.

1990 1990 87,129 가 ,  
 1993 1994 1,032 , 733 , 1999  
 500 . 1990



# [ 3. ]

가.

1)

3-1.

가	吳		吳	吳	吳 吳	吳	吳	吳	吳	吳 吳
		吳		吳			吳	吳	吳	吳
			吳				吳	吳	吳	吳
		吳					吳	吳	吳	吳

( 吳 : , : )



	吴		吴 吴	吴				
	吴			吴	吴		吴	
			吴					吴
	吴	吴		吴		吴		
	吴							
			吴					

( 吴： ， ： )

	吴	吴				
			吴	吴	吴	吴

( 吴： ， ： )

1)

3-3.

		( )	( )	( )		
					,	
		8~10	7~20	7~9	13~15 /	1~2 /
			10~30	4~5	300 /	30~40
	,	:6~11 :8~4	38~56	10~13	: 81mm : 50~58mm	:200~250 :500~600
		6~12	15~20	6~7	11.2mm	69
		9~1	60~70	11~12	41mm	2 (1,500~2,000 )
		1~8	60~70	11~12	23.3mm	4 (1,500~2,000 )
		7~3	21~30	35~42	140 ~3,600mm	1
	,	8~12	69~75	7~8	33~40mm	3
	,	9~5	39~69	8~9	40.4mm	1
	,	8~6	39~69	8~9	35~3,200mm	
	,		4~5	3	(10 )	1

2)

3-4.

		( )	( )	( )		
					,	
	,	4~11	1~3	1~3	2~5 /	1 /
	:	8~10	2~5	1~3	1 /	6~8
	:	11~2	2~5	1	45~60 /	1
		7~11	3~7	4~6	13~15 /	1~2 /
		6~10	2~7	3~4	120 /	25~30
		4~12	2~7	3~4	100 /	12~30
		12~4	2~7	3~4	100 /	30~40
		4~9	2~7	3~4	100 /	40~50
		9~10	1~3	2	70 /	3
		1~7	4~7	2~4	24mm	15~20 (50~100 / )
		3~6 10~12	1~3	2~3	18.5mm	15~20 (75 /1 )
			3~7	3~5	12mm	10~15 (100~150 / )
			4~7	3~5	82mm	150
		6~7	4~5	3~5	97mm	20~30
			2~5	3~4	67mm	50~70
			3~5	3~4	125mm (360mm)	50~80
	,	5~10	1~3	1	51mm	1
		4~11	5	5~7	4.8mm	
		10~5	1~3	2~3		6~7 (1,000 / )

		( )	( )	( )		
					,	
		3~6, 9~12	2~7	5~10	120	1
		2~5, 9~12	2~3	2	23.3~28mm	1
	,	3~7	5~6	2~3	12.7~101mm	2
	,	4~7	5	2~3	30.3mm	1
	,	9~12				
	,	4~11	3~6	2~3	5~330mm	5
	,	4~7, 9~12	5~7	3~4	25~303mm	5
		6~11	5~7	6~8	25.6mm	1
	,	7~12	2~5	2~4	100mm	10 (200~300 / )
	,	5~9	-	2~3	80mm	-
	,	5~9	1~2	1~2	105	1
		3~10	1~5	1~3	31~121mm	2~3
		3~10	1~5	1~3	33~121mm	2~3
		3~10	1~5	1~3	23~27.5mm	2~3
	,	3~10	2~5	5~6	105	1

3)

가)

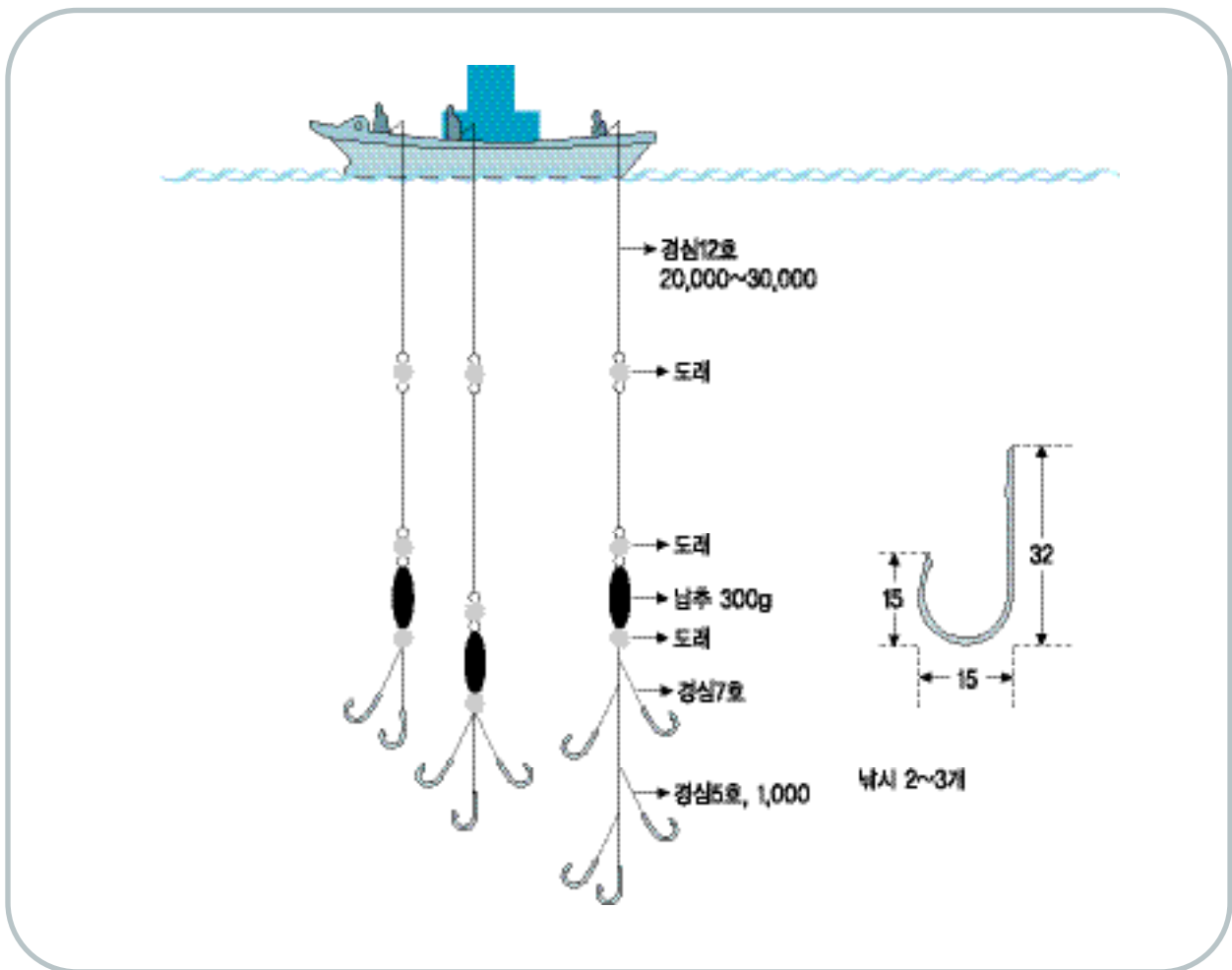
가

가

가

가

(1)



: 4~11 9

: 15~20m,

: ,

: 1~2 1~2

:

12 , ( 7 ) 1.5m 300g

1 . 5 ( 0.5~1m) 2~5가 ,

4

가 가

가

1

가

2

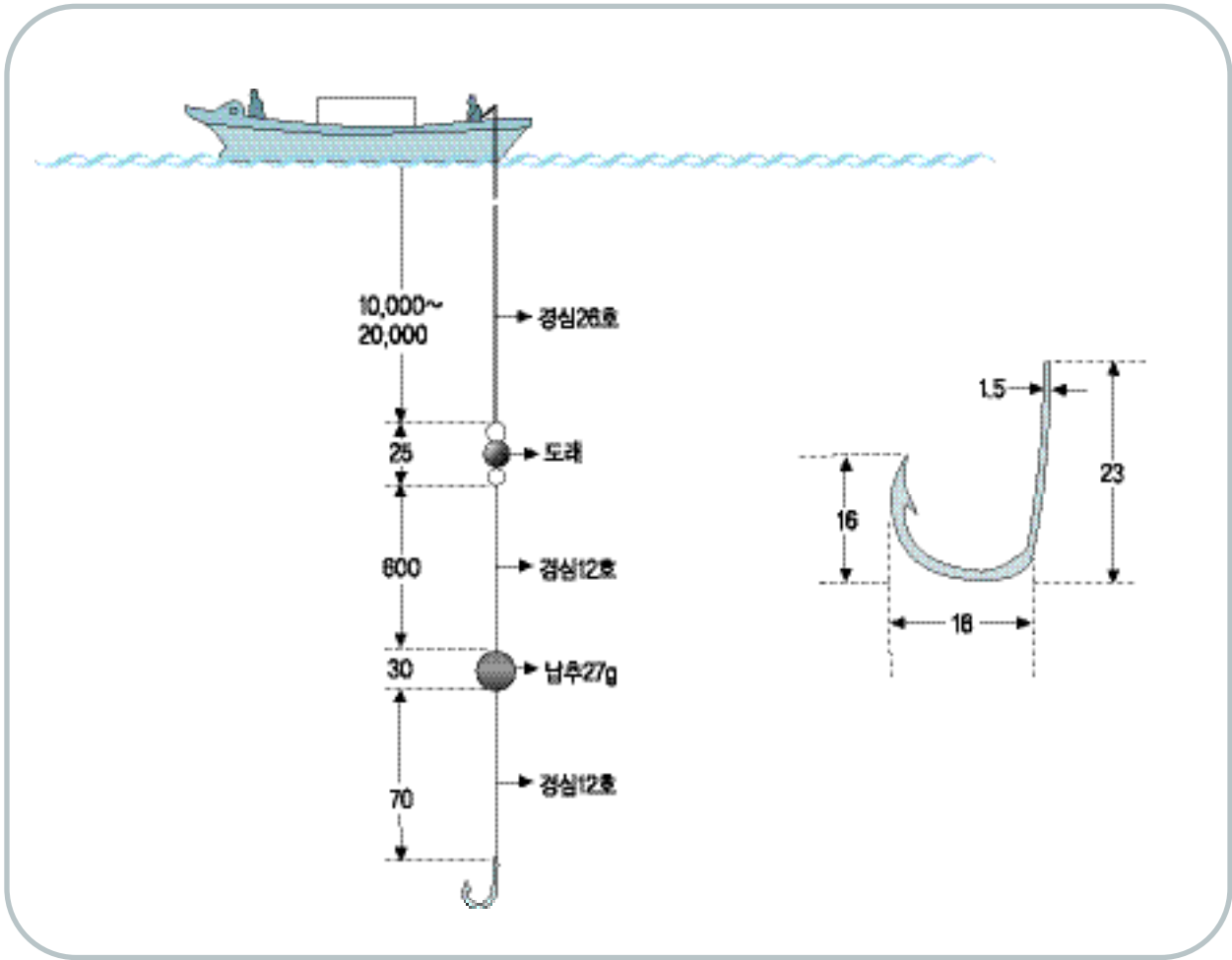
가

1

가

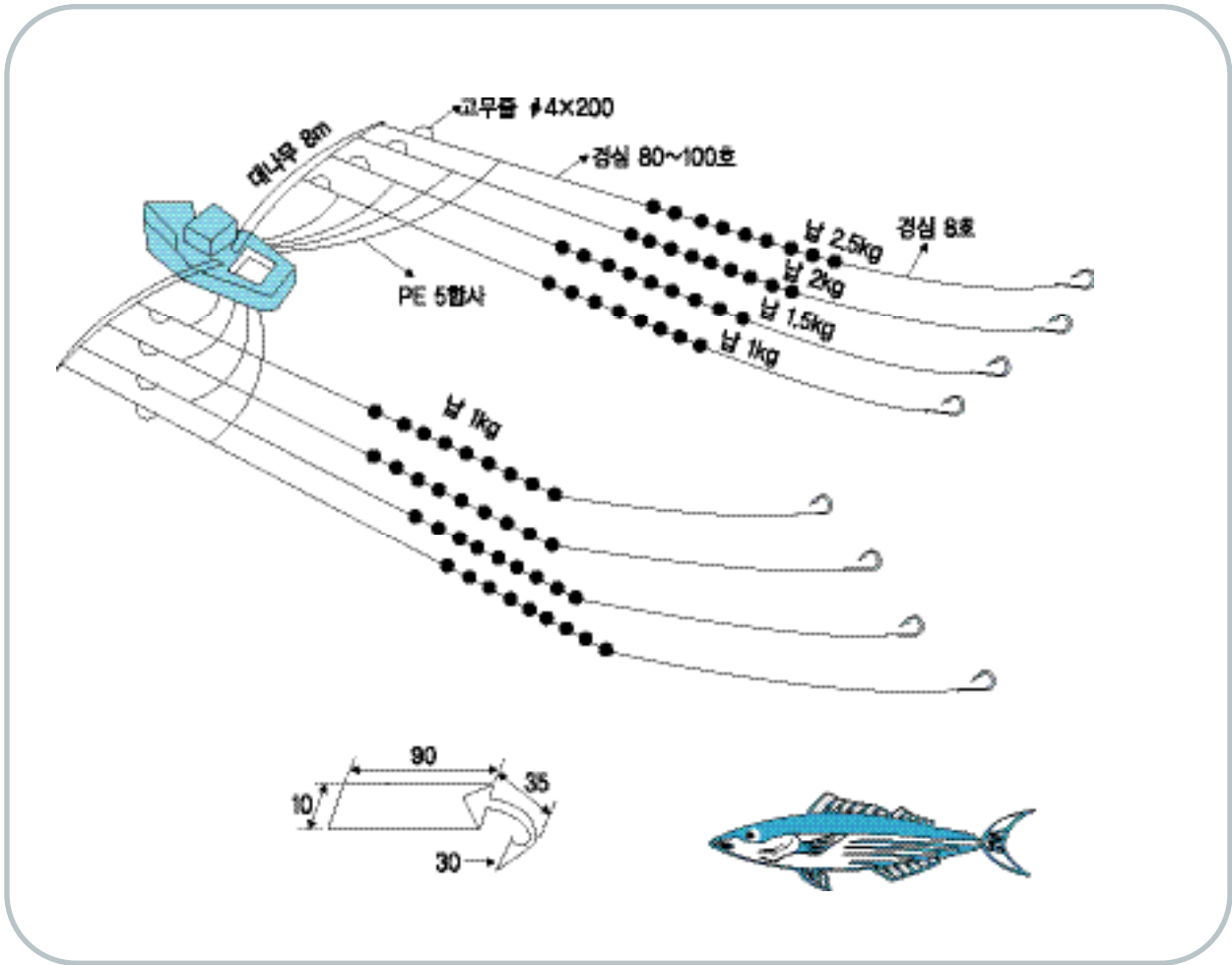


(2)



: , , , 가  
 : 40~50m,  
 : . . .  
 : 1~3 1~3  
 :  
 30 , ( 18 ) 8m  
 650g 1 . 2.5m 가 ( 8 ) 3  
 , 1 .  
 . 가 , 4  
 . 가 가  
 . 가 , 2  
 2~3 , 가  
 가 . , 가  
 .

)  
(1)



3~4

1 가

가

80~100 가 8

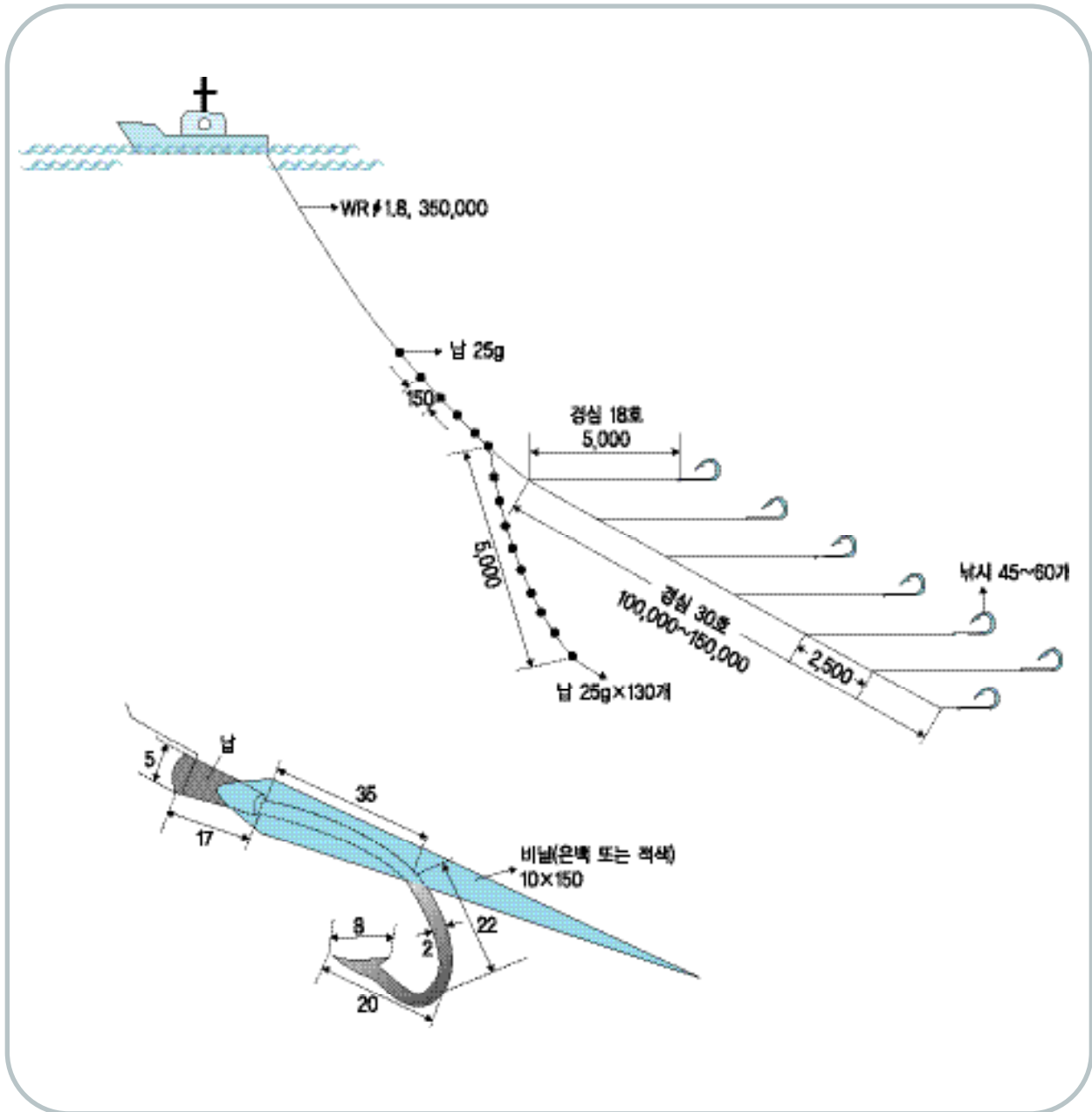
5~6

5~6kt

3~5

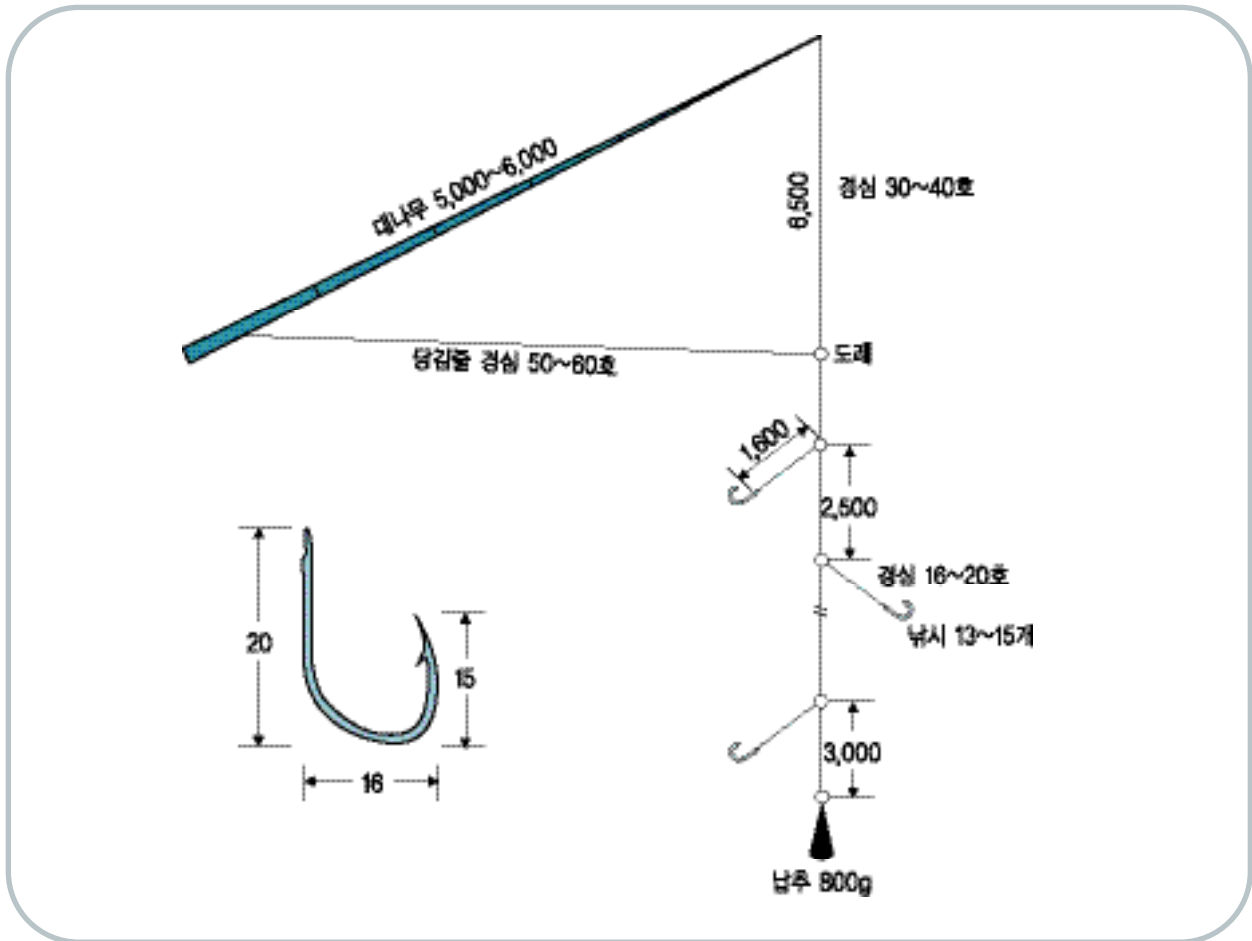
15m

(2)



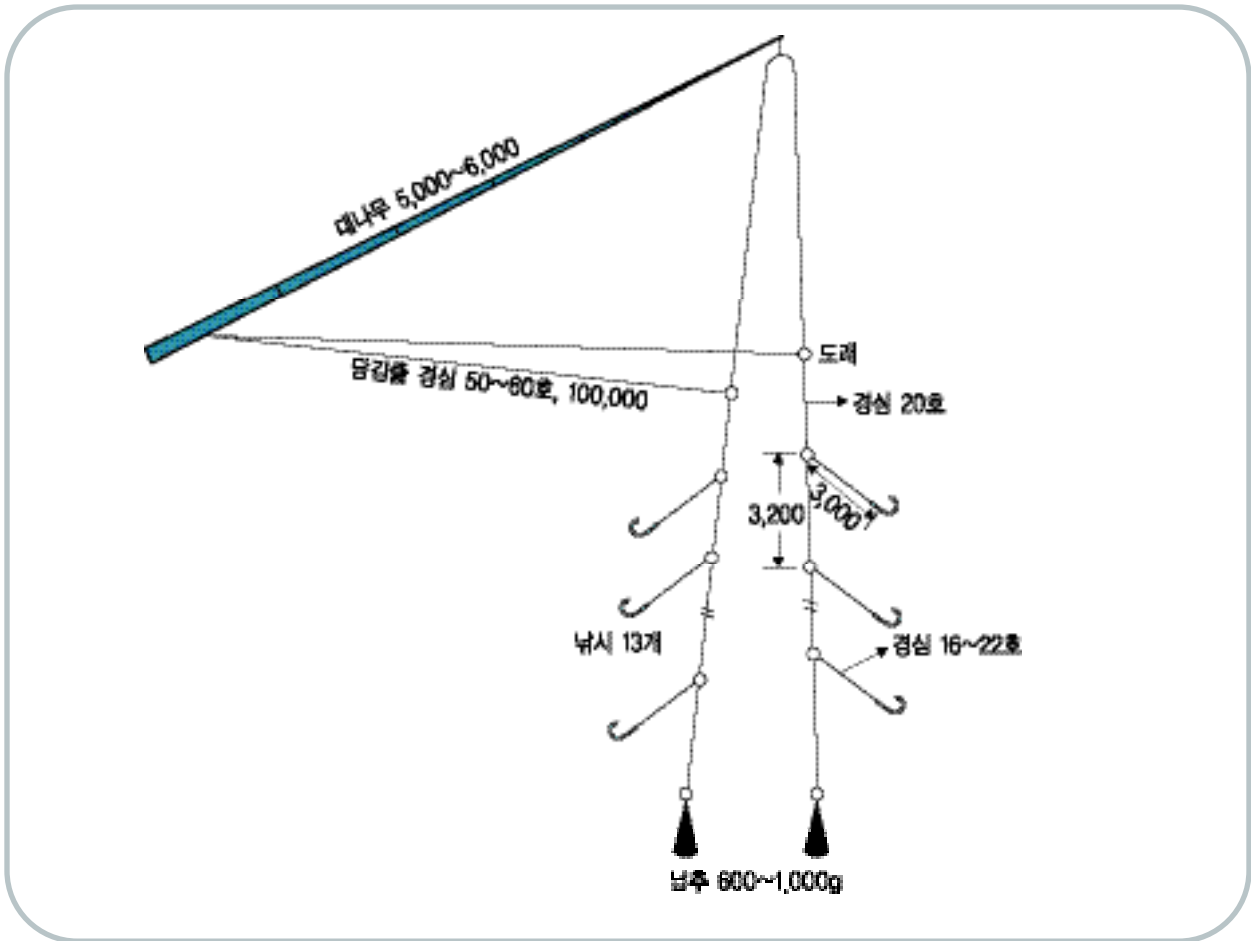
: , , , 가  
 : (40~50m, )  
 (100m , )  
 : ( , , , )  
 ( , )  
 : 1~3  
 1  
 :  
 . 45~60 , 25g  
 130 . 1.5~1.8mm ,  
 30 . 2.5m 가 ( 18 )  
 , 1 .  
 5~6 ,  
 1.5 , 10cm 2~3kt  
 , . 1  
 , 1 .

)  
(1)



( 5~6m ) ( 30~40 ) 6.5m ,  
 ( 18~20 ) 40m , 800g 1 .  
 2.5m 가 ( 16~20 , 1.6m ) 13~15가  
 , 가 .  
 ( 50~60 , 50m ) .  
 가 . 가 ,  
 1.5kW 20 가  
 .  
 45~60  
 . 가 ,  
 가 가 .  
 가 , 8~10 , 4~6 ,

(2)



: 7~11

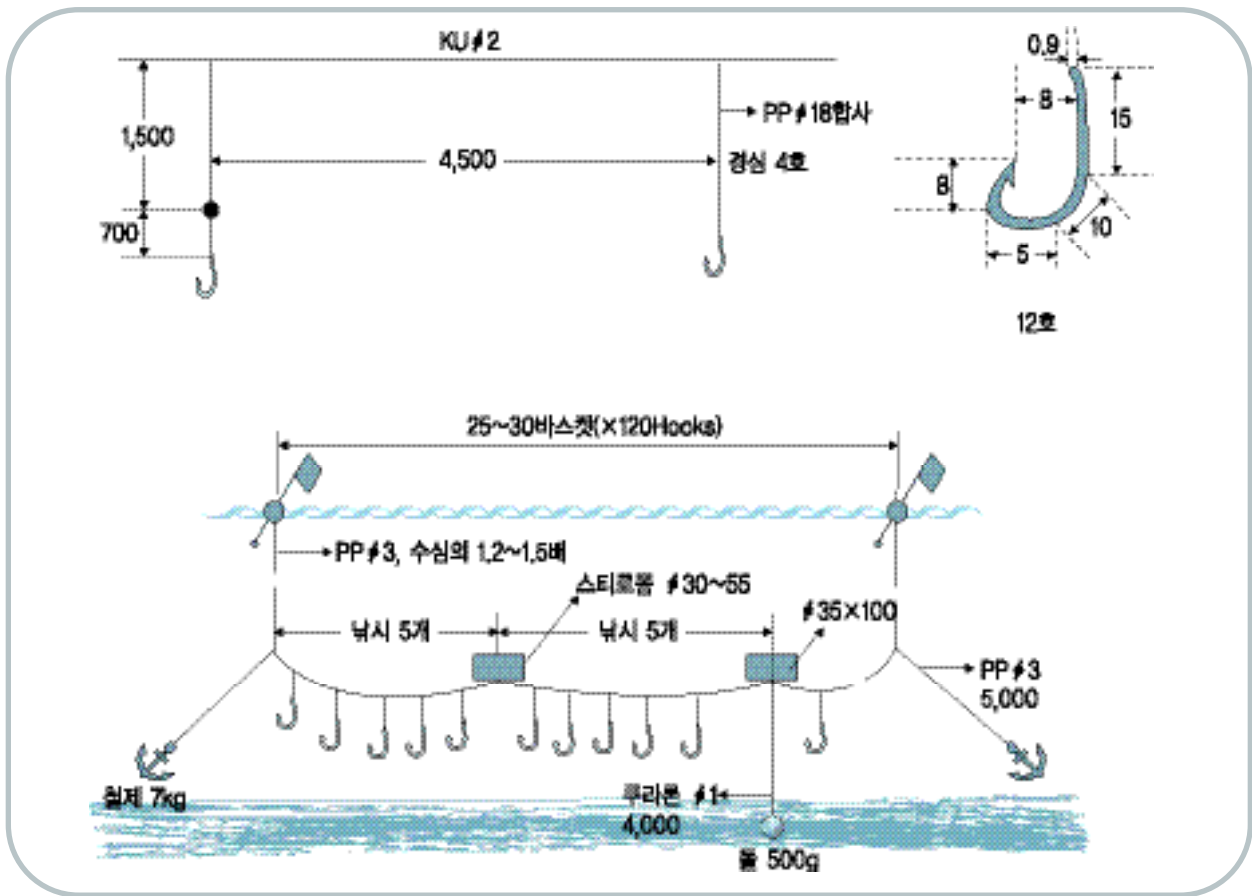
: 150m ,

:

: 5~7          5~6

: 7~10 (    ), 11 (    )

)  
(1)



: , 6~10

: 20m ,

: 50%, 20%, 가 ,

: 2~7 3~4

:

KU 2.0mm , Nylon 1.3mm 4 , 12

, 4.5m , 2.2m .

120 .

가 가 1~2m

5 1 , 가 .

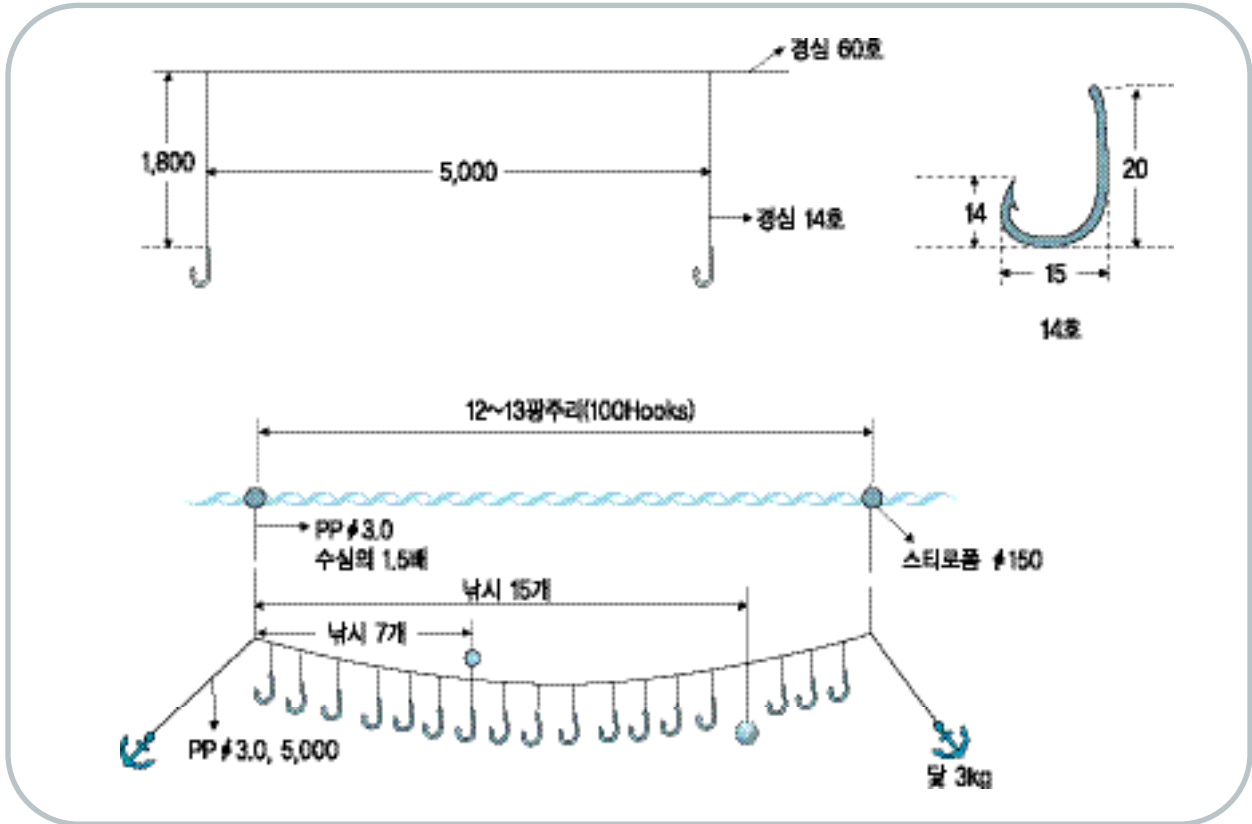
10 500g 1 . 25~30 1

3~4 가 .

1.5 , 3~4 .



(2)



: 4~12

: 20~30m ,

: 60%, , ,

: 2~7 3~4

:

60 , 14 , 14 ,  
5.0m , 1.8m . 100 .

가 ,

3 가 1~2m 가 . 가

7 1 , 가 . 가

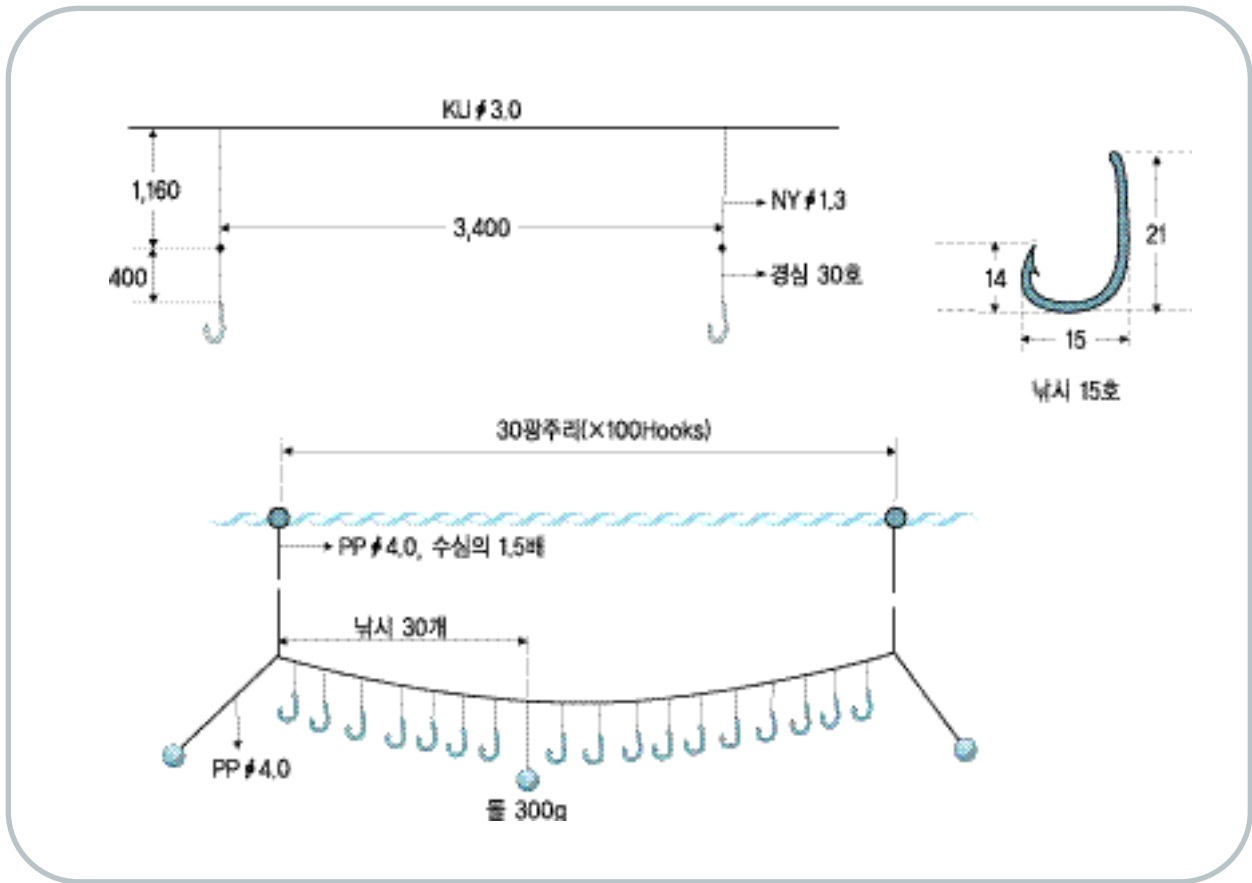
15 1 .

12~30 1 . 가 ,

, 3~4 .

1

(3)



: 12~ 4

: 20~30m ,

:

: 2~7 3~4

:

KU 3.0mm , Nylon 1.3mm 30 , 15

, 3.4m , 1.6m .

100 .

가 ,

가

30 300g

1 30~40 .

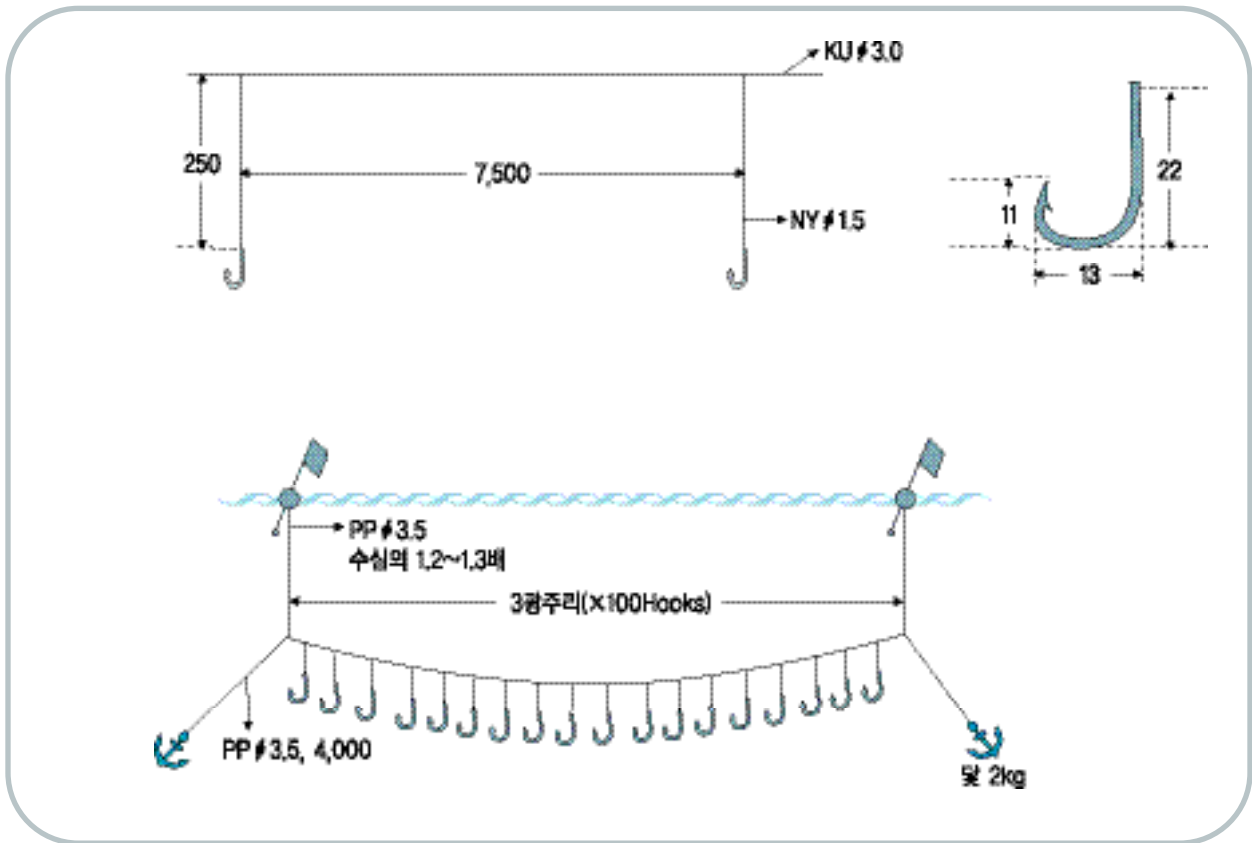
3

가 .

1 ,

3~4 .

(4)



: 4~9

: 15m ,

: 90%,

: 2~7      3~4

:

KU 3.0mm ,      Nylon 1.5mm ,      13

,      7.5m ,      0.25m .      100 .

가

5cm

3

40~50

, 1

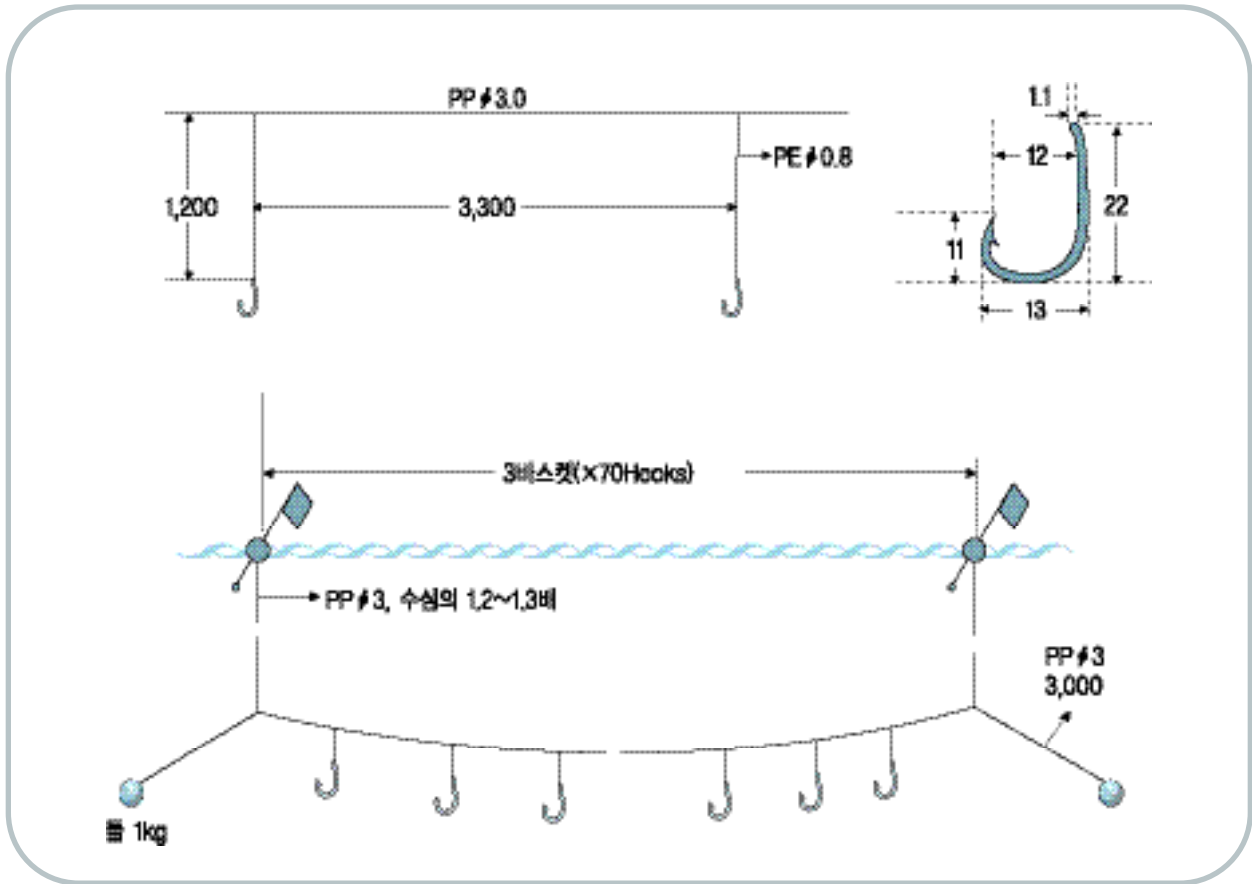
가

. 1 1

1

5~7

(5)



: , 9~10

: 10m ,

: 90%,

: 1~3 2

:

PP 3.0mm , PE 0.8mm , 15 ,

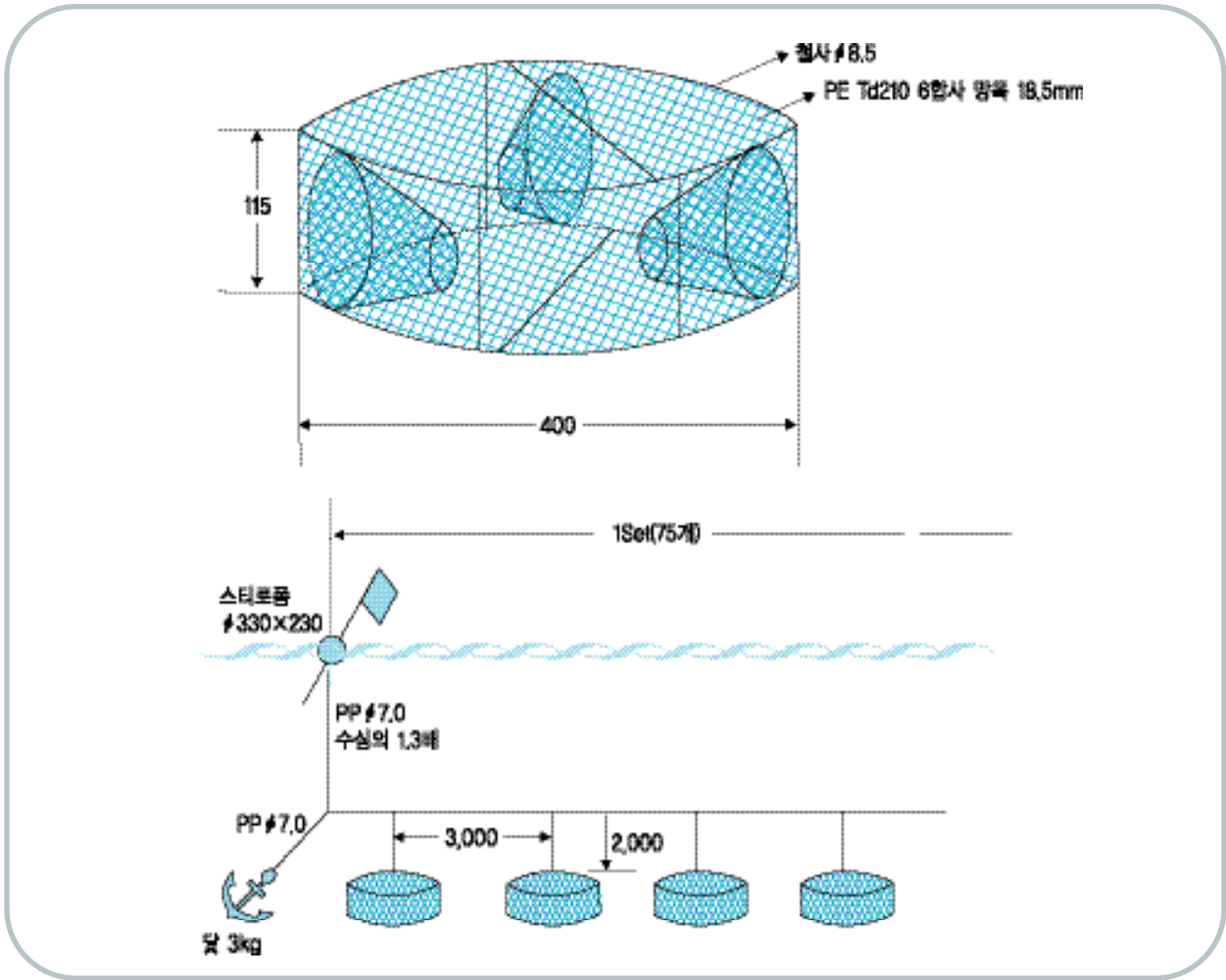
3.3m , 1.2m , 70 .

3~5 , , , ,

3 1 가 .

1 , 2 .

)  
(1)



: 10m ,

: 90%,

: 1~3 2~3

:

8.5mm

18.5mm

,

가 .

,

Ny Td210 6

40cm,

11.5cm

PE

7.0mm

.

3m,

2m .

75

1

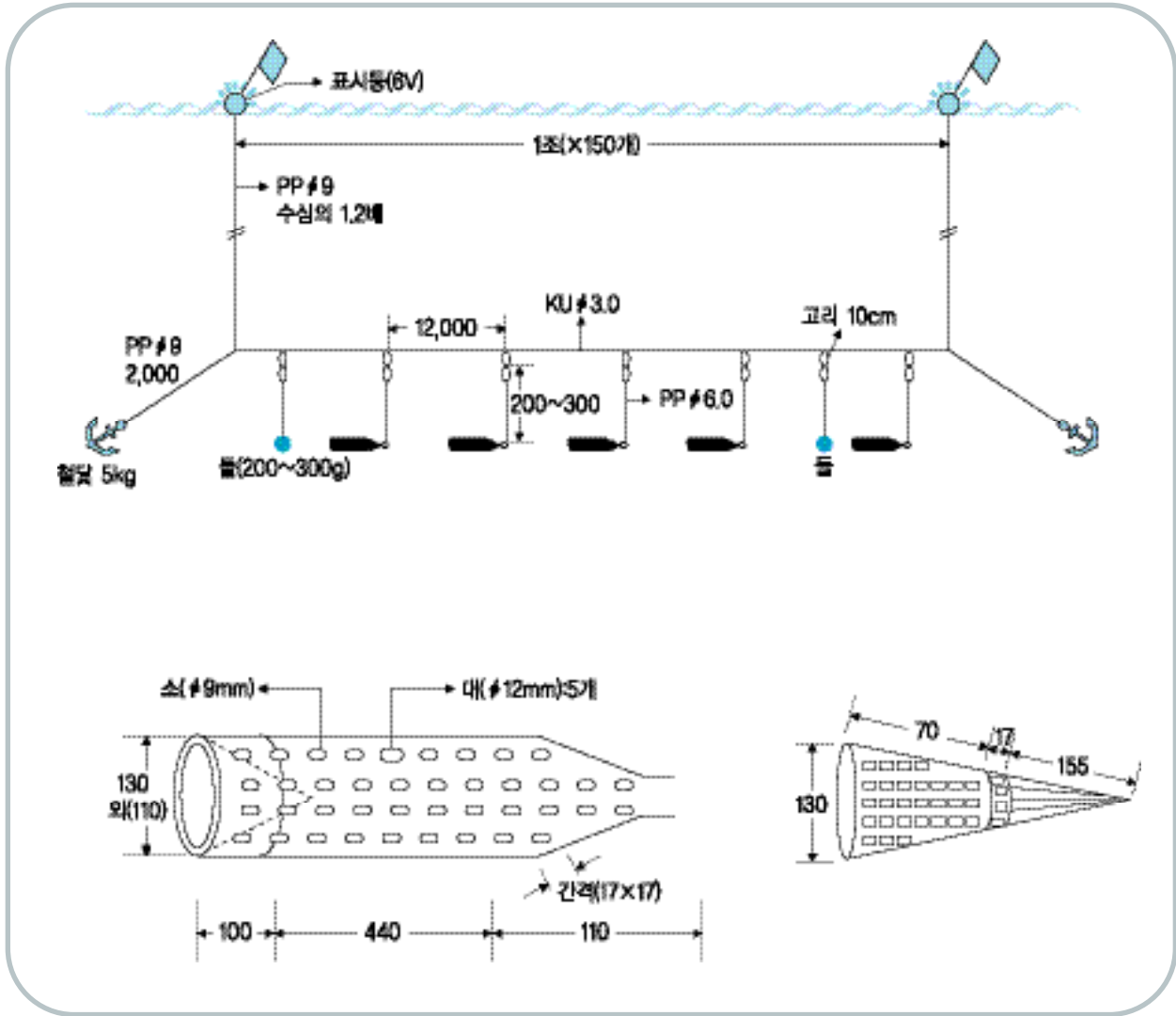
15~20

가

3~5

1 5 .

(2)



:

: 120~100m,

: 100%

: 3~7                      3~5

:

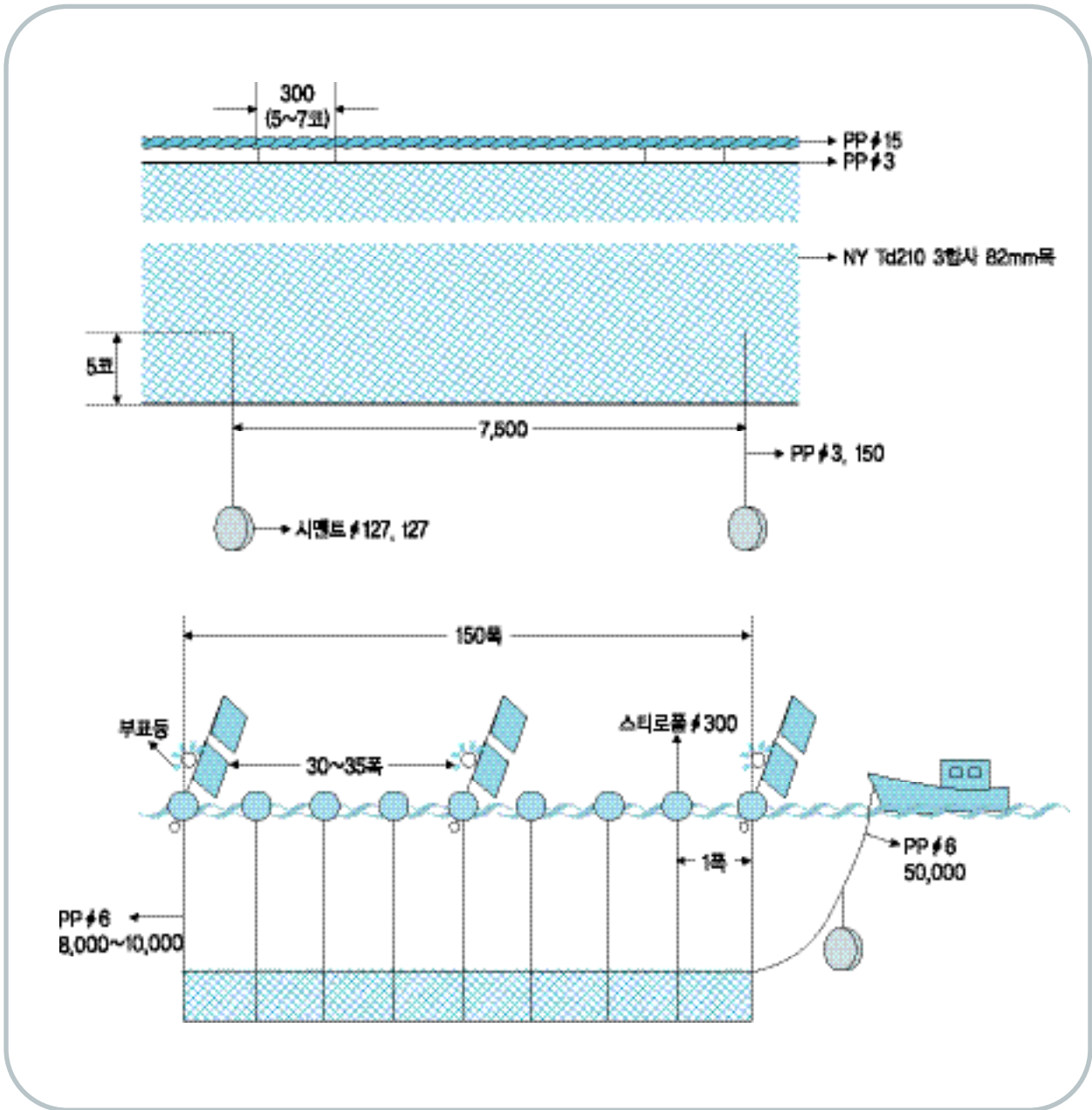
9mm 12mm , 65cm, 13cm , 12m, 0.2m .

100~150 1 10~15 가 3~5

1 5 .

)

(1)



:

: (80~90%), , , ,

: 4~7 3~5

Ny Td210 3 82mm 60~70% .

1 151.5m, 100 , 1 90m .

5~6 . 가

. 30 ,

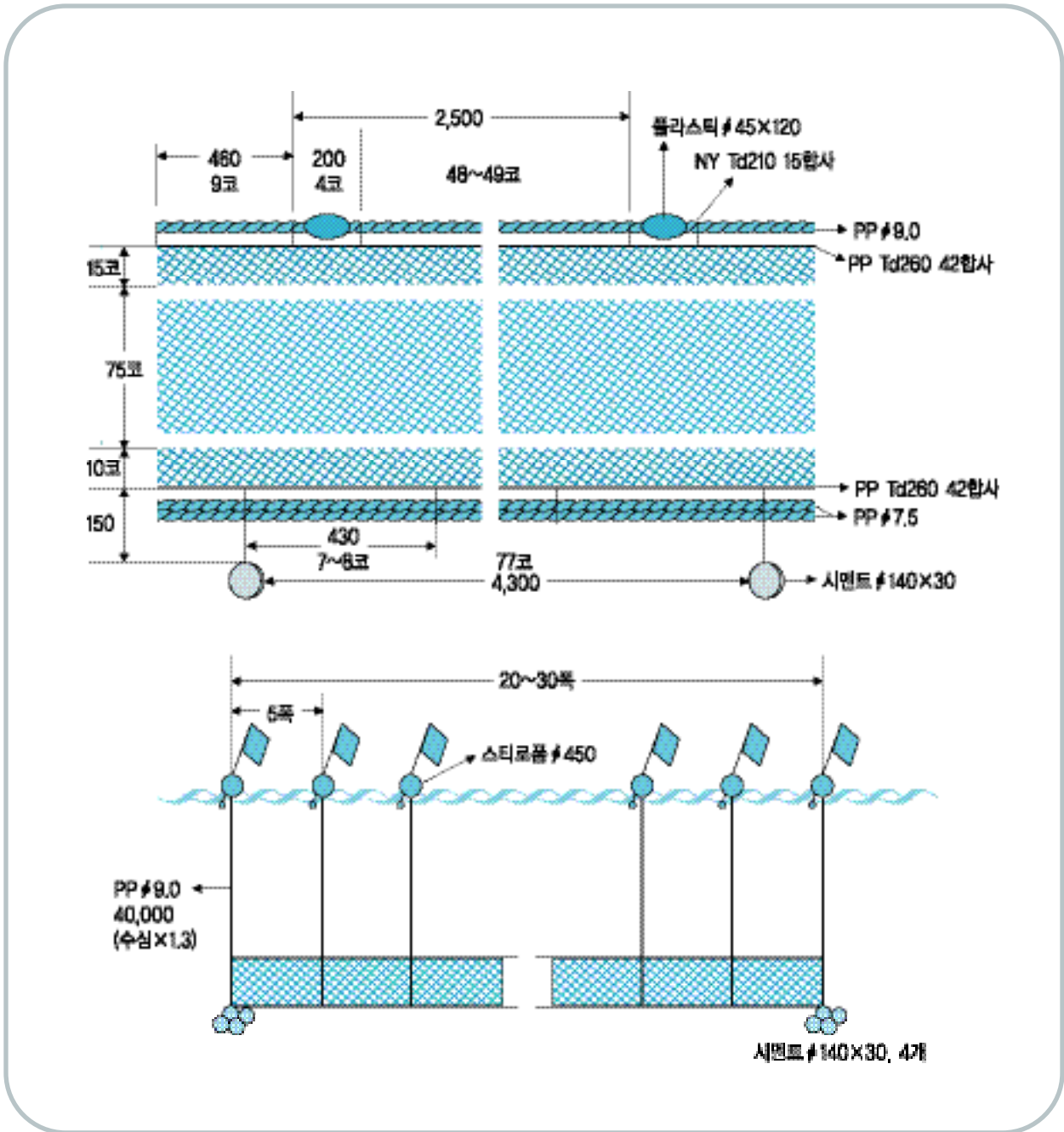
.

4 , 1

40 , 3 .



(2)



: 6~7

: (70~80%), ,

: 4~5 3~5

Ny Td210 4 97mm

53%, 57%

.

(Knot Ny Td210 6

97mm ) , 가

4.3m 1

.

20~30 1

2~3

2~3

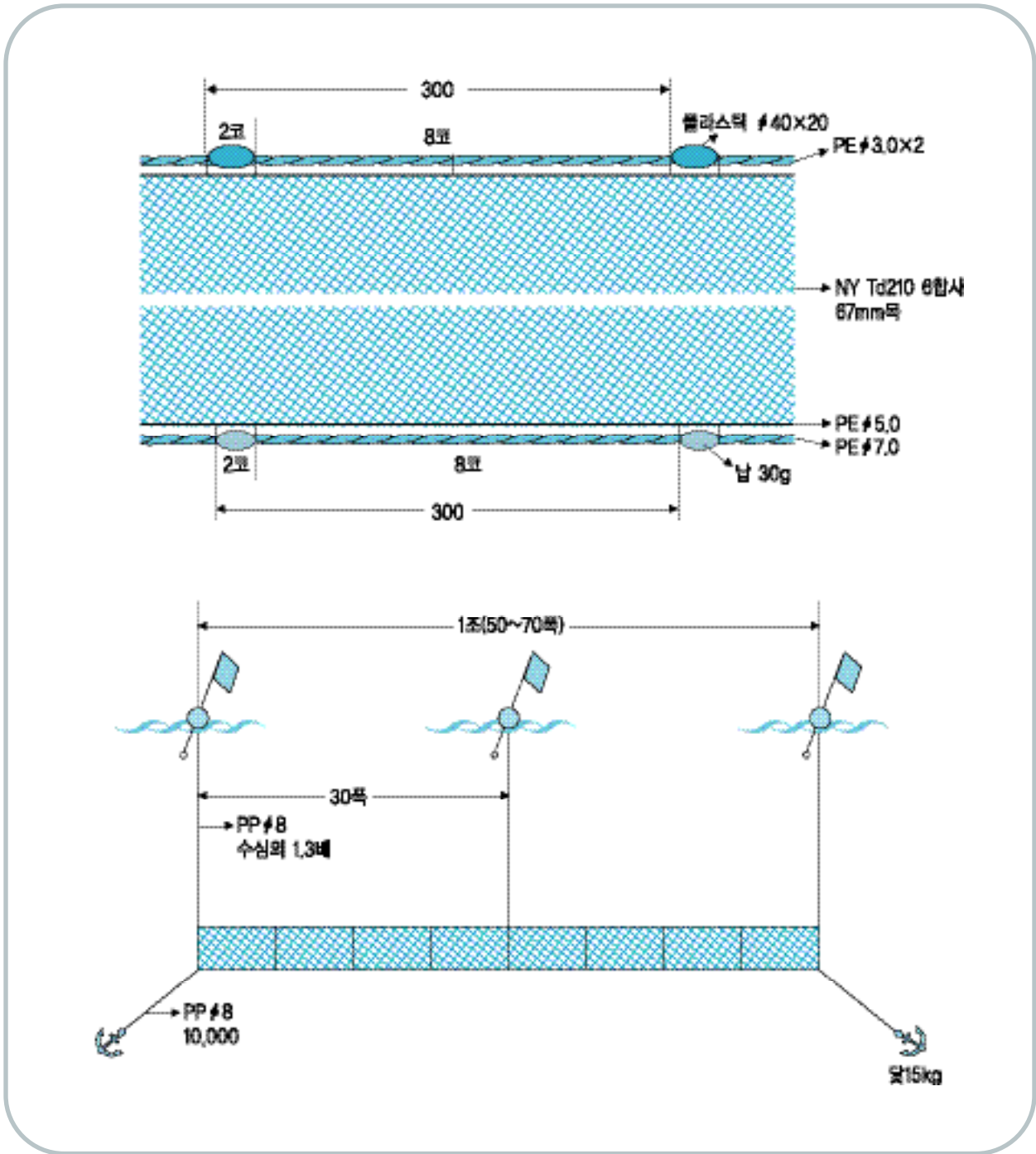
가

, 1 2~3

1

20~30 , 1

(3)



:

: (50~60%), , ,

: 2~5 3~4

Ny Td210 6 67mm

52%, 57%

4~5 .

25 1

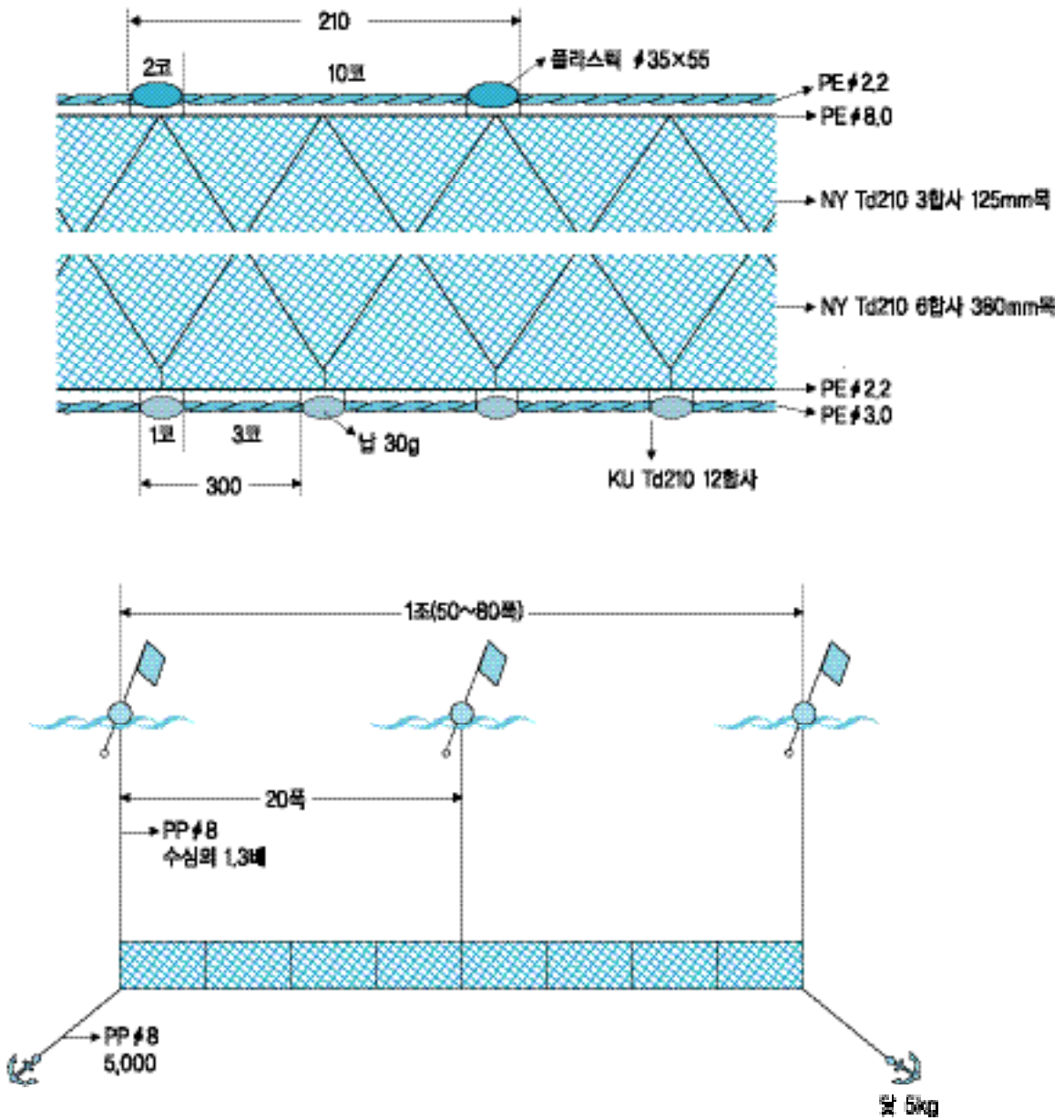
6~8

4

, 1

40 , 2

(4)



:

: (50~70%), , , , 가

: 3~5 3~4

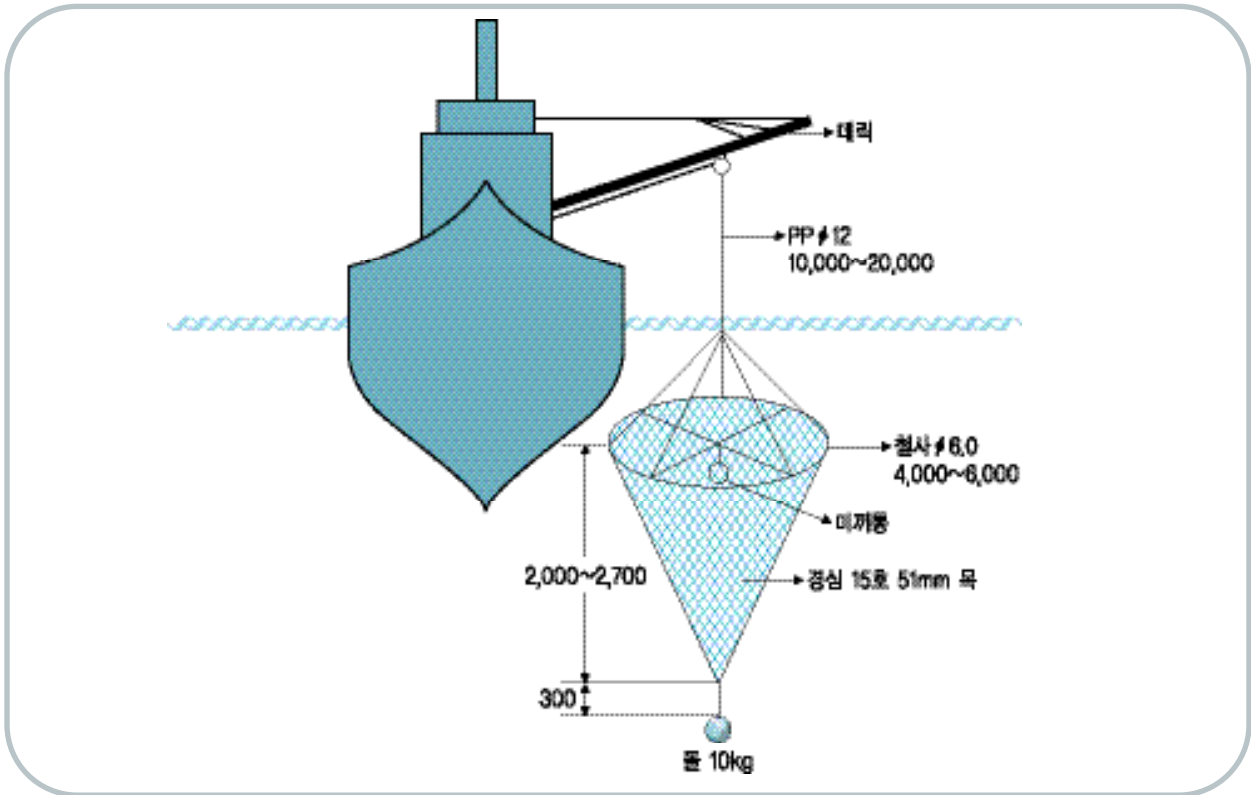
Ny Td210 3 125mm , Ny Td210 6 360mm ,  
60%, 40% .

5~6 20 50~80 1  
1 가 .

1 40 , 2 .

)

(1) 1



: 5~10

: , ,

: ,

: 1~3 1

6mm

1.3m

15 51mm

PP

3.3mm

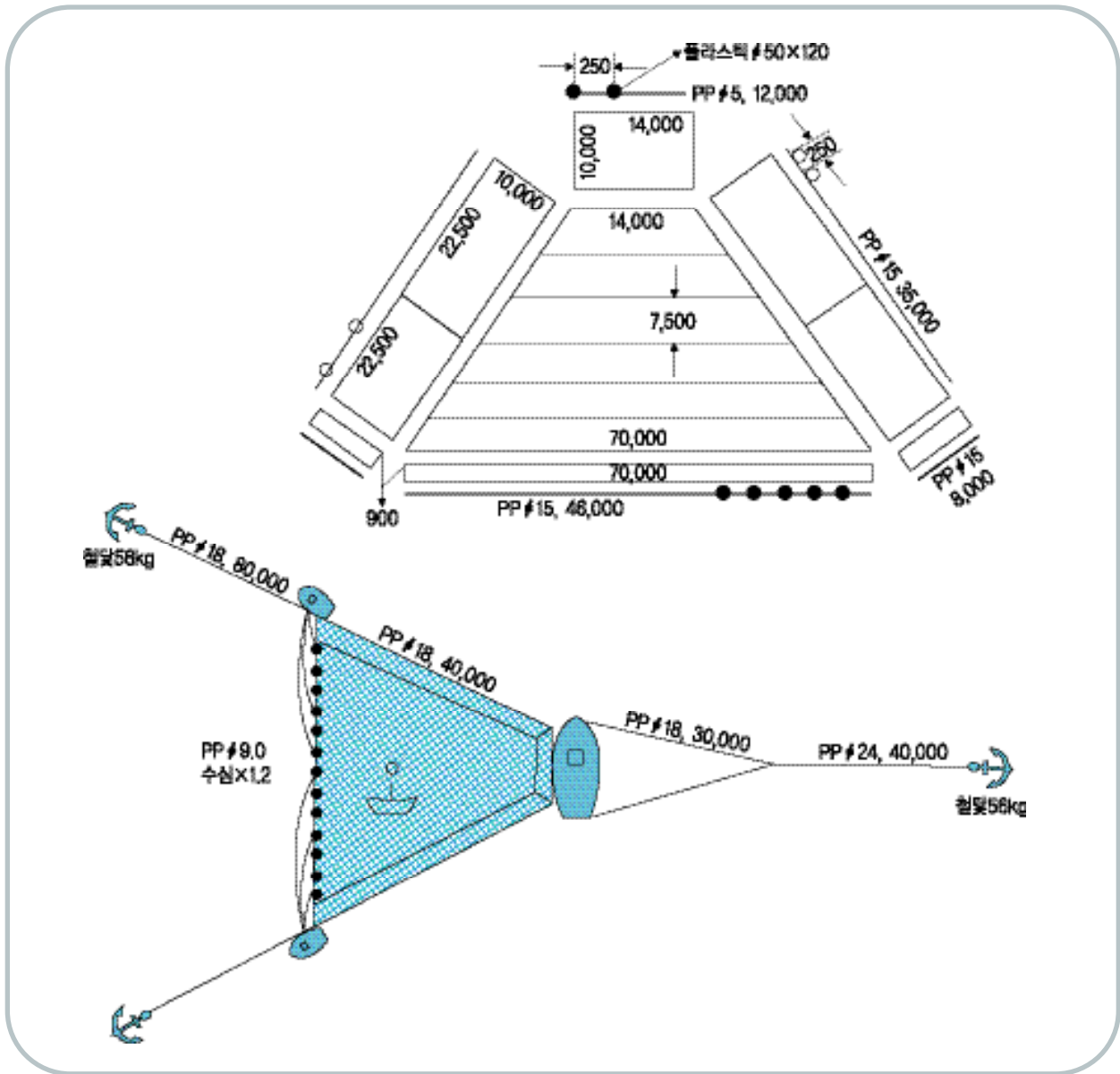
10kg

4.7m

5m

, 1

(2) 3



: 4~11

:

: 5 (4~5 ), 1~2 (1~2 )

6

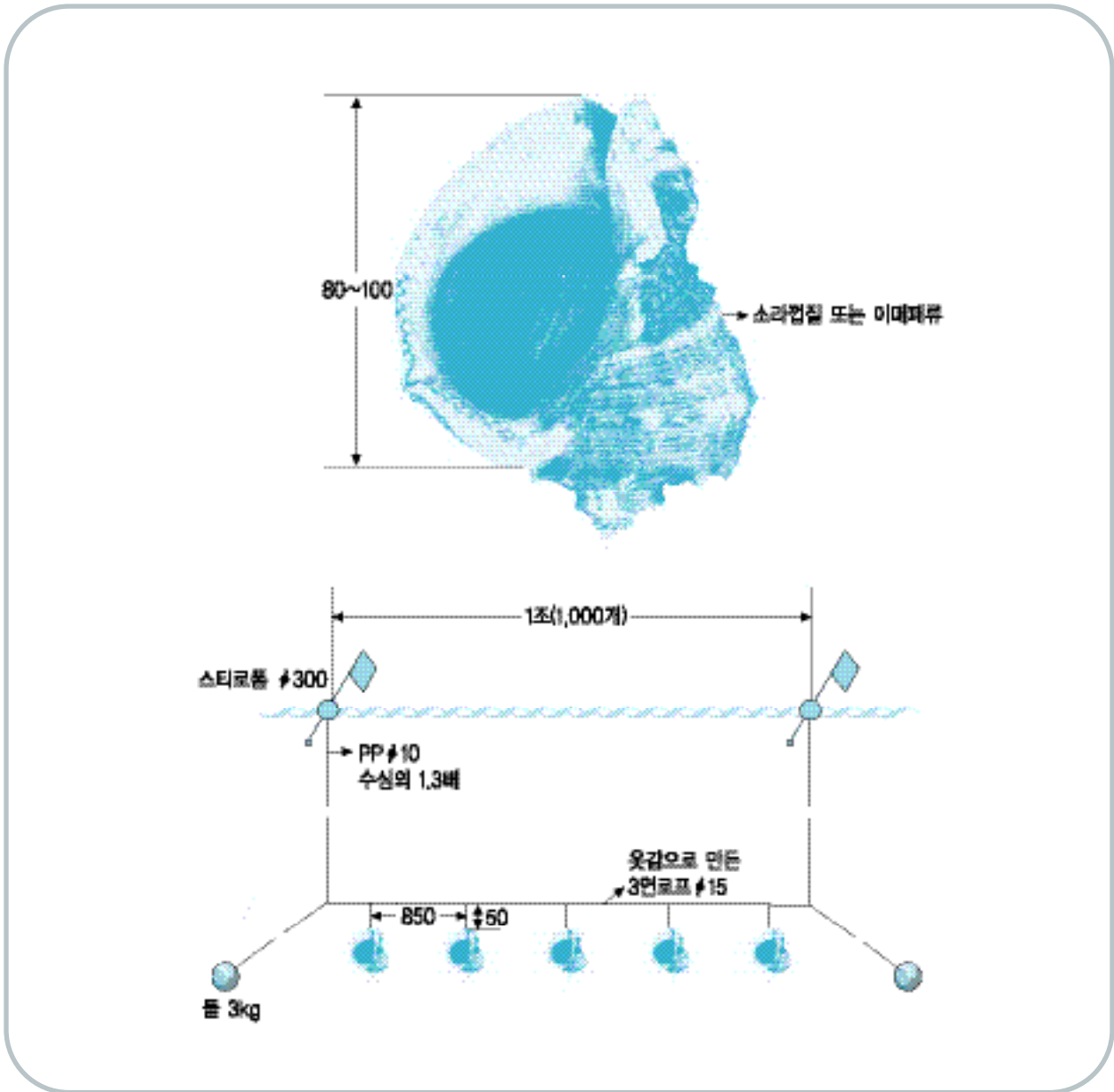
105 , 120 , 140

1 2 , 2kW 1

가 , 1



)



: 10 ~ 5

: 10mm ,

:

:

: 1~3 2~3

가

10cm

PP 2~3mm

5cm

85cm

15mm

1 1,000

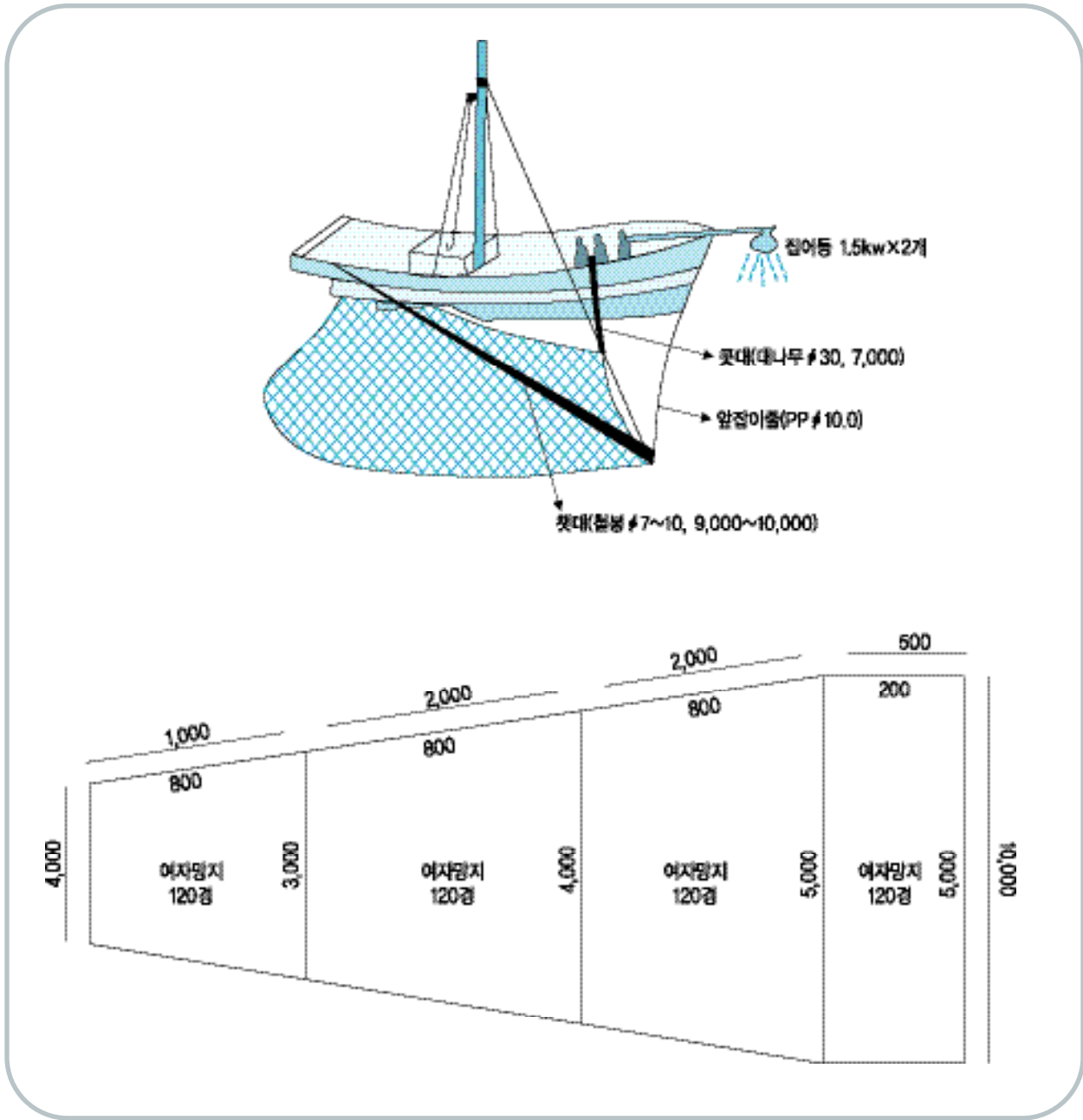
6~8

1 1

. ,1

1 1

)



: 3~6 , 9~12

:

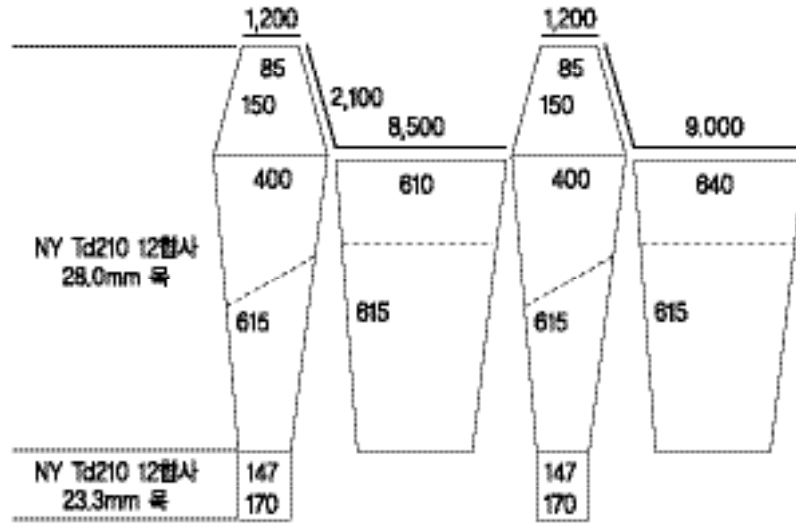
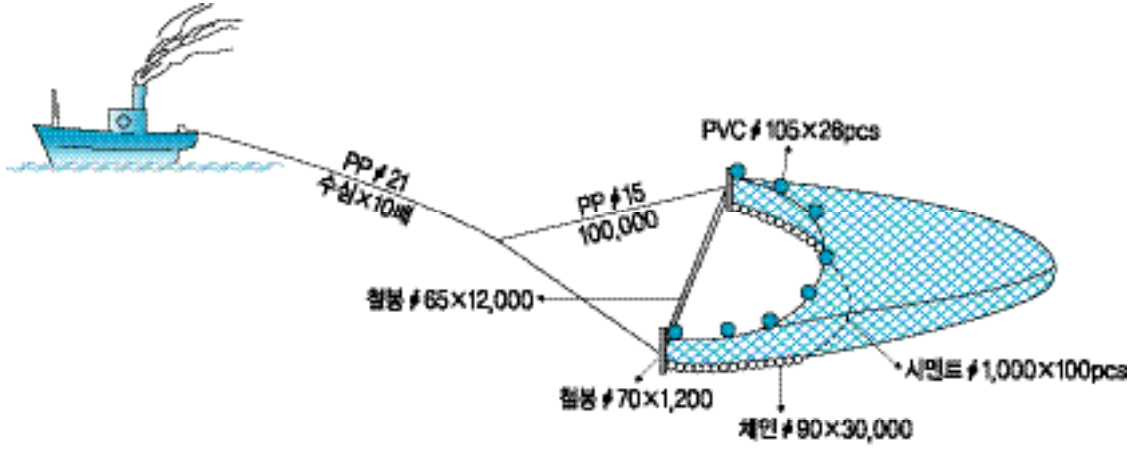
: 1.5kW 2

: 2~3 4~5

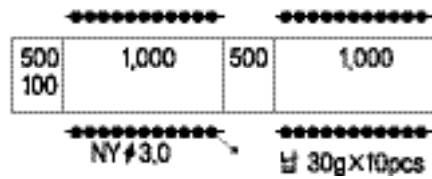
) ( 120 ), ( 7m), ( 9m  
1.5kW 2  
.

2~3kt

3~4m . 가  
가 , 2  
. 가  
. 가  
.  
.



<잡대기>



: 2~5 , 9~12

:

: 2~3 2

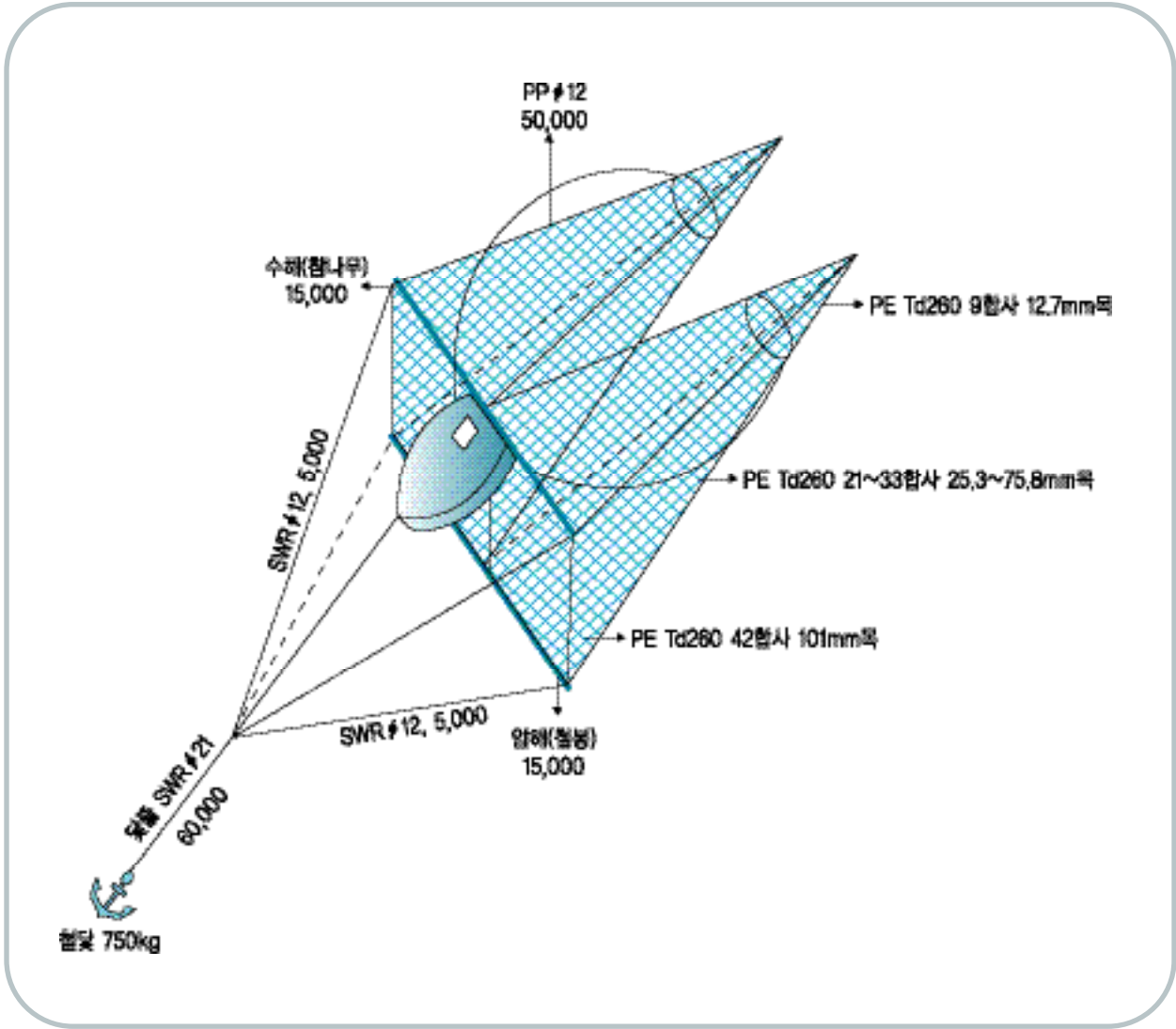
Ny Td210 12 23.3mm Ny Td210 12 28mm

( 12m) ,

가

3~4 2k t 1

)



: 3~7

: (90%),

: 10m ,

가 , 1

2 4 , ,

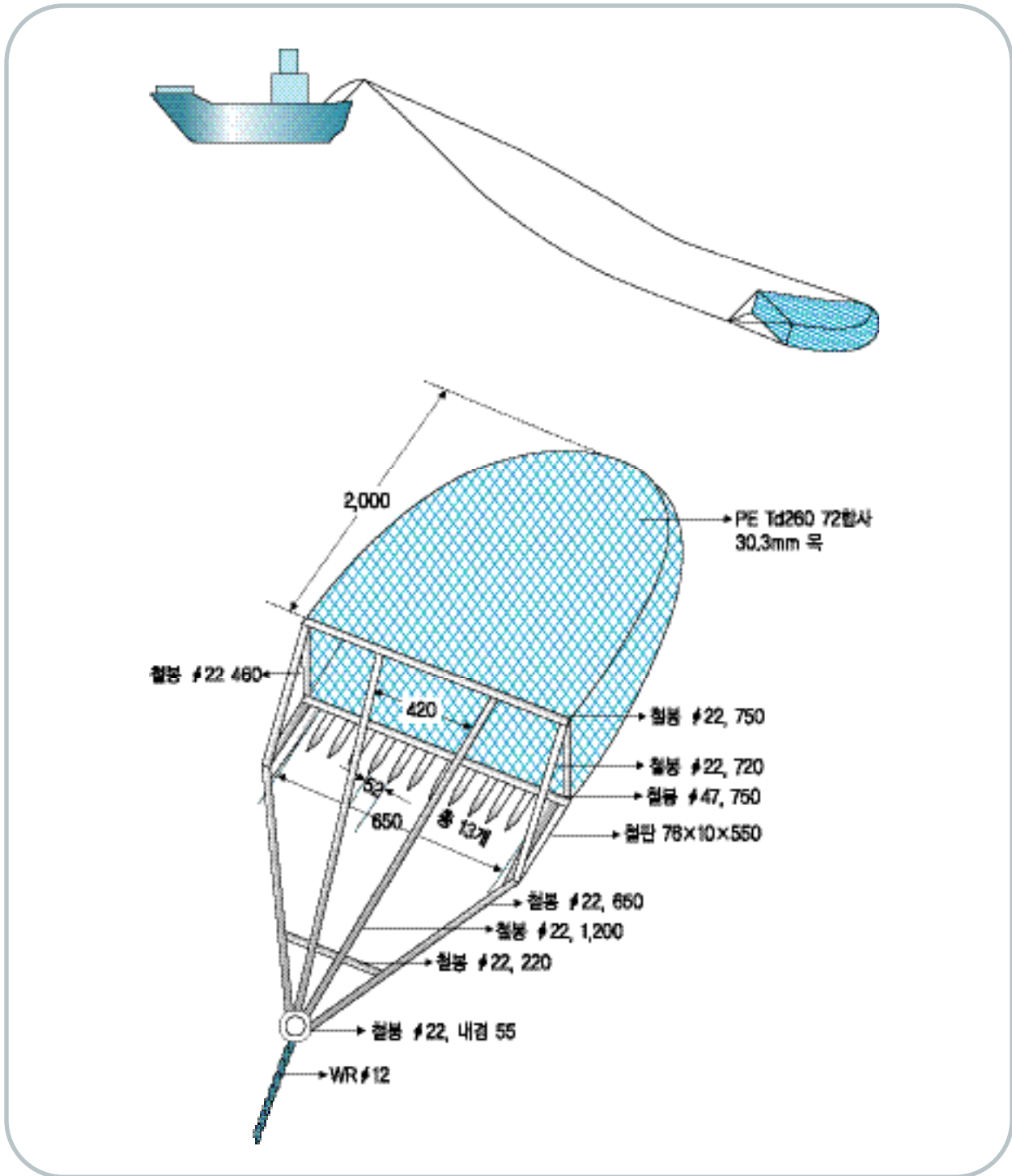
가 , 가 ,

, 1 2 가 ,

, 가 1 4



)



: 4~7 , 9~12

: , , , ,

: 5m ,

PE Td260 72 30.3mm , 13

.

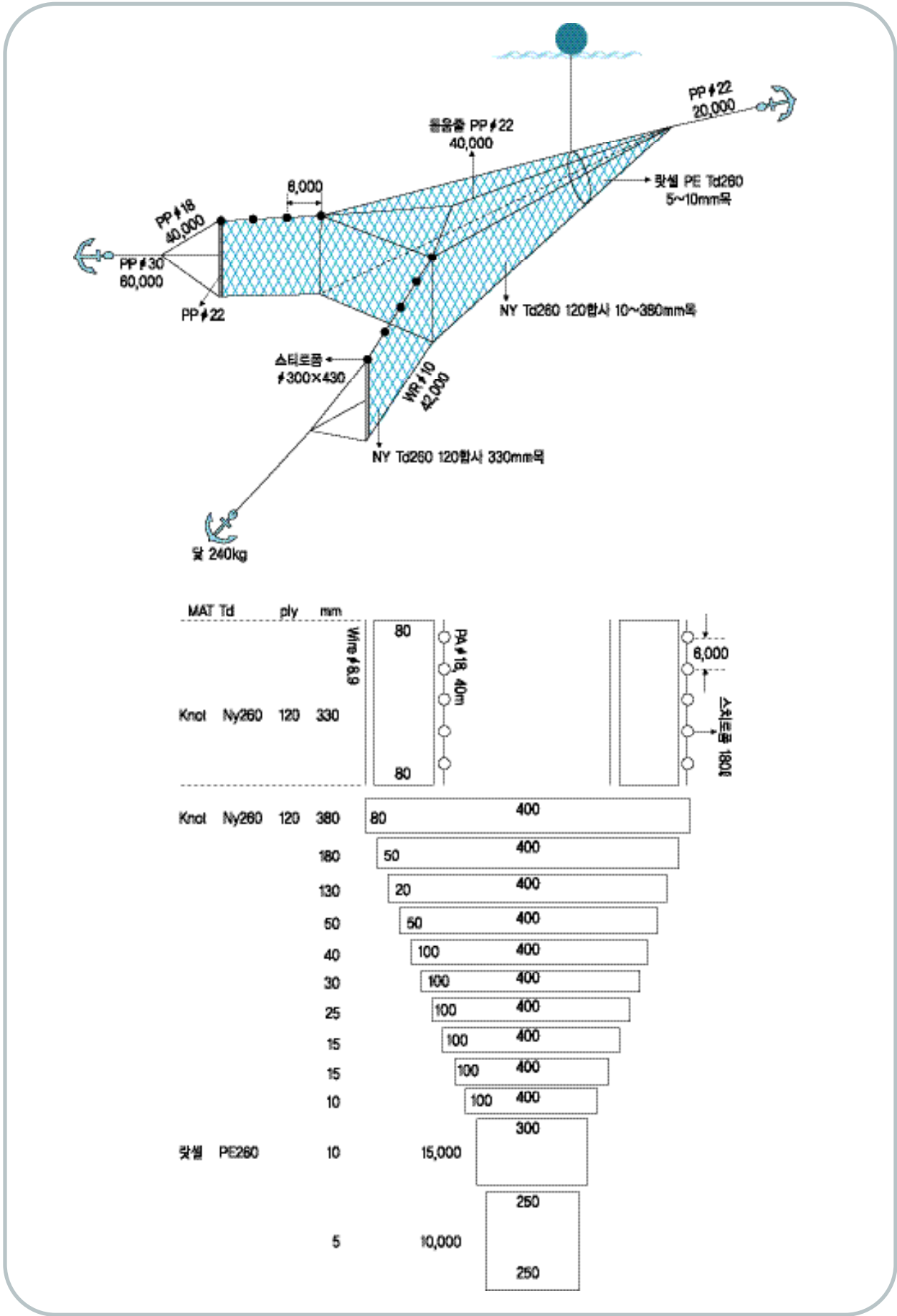
30 , . 4 ,

가

1 1 , 1k t, 1

20 .

)



: 4~11

: (80~90%), 4~6 , 7~11 가

: 20m ,

, , . ,

6m

10mm .

Ny Td210 120 330mm .

Knot Ny Td260 120 380mm ,

5mm , 5m .

가 ,

가

(240kg) .

1 2 ,

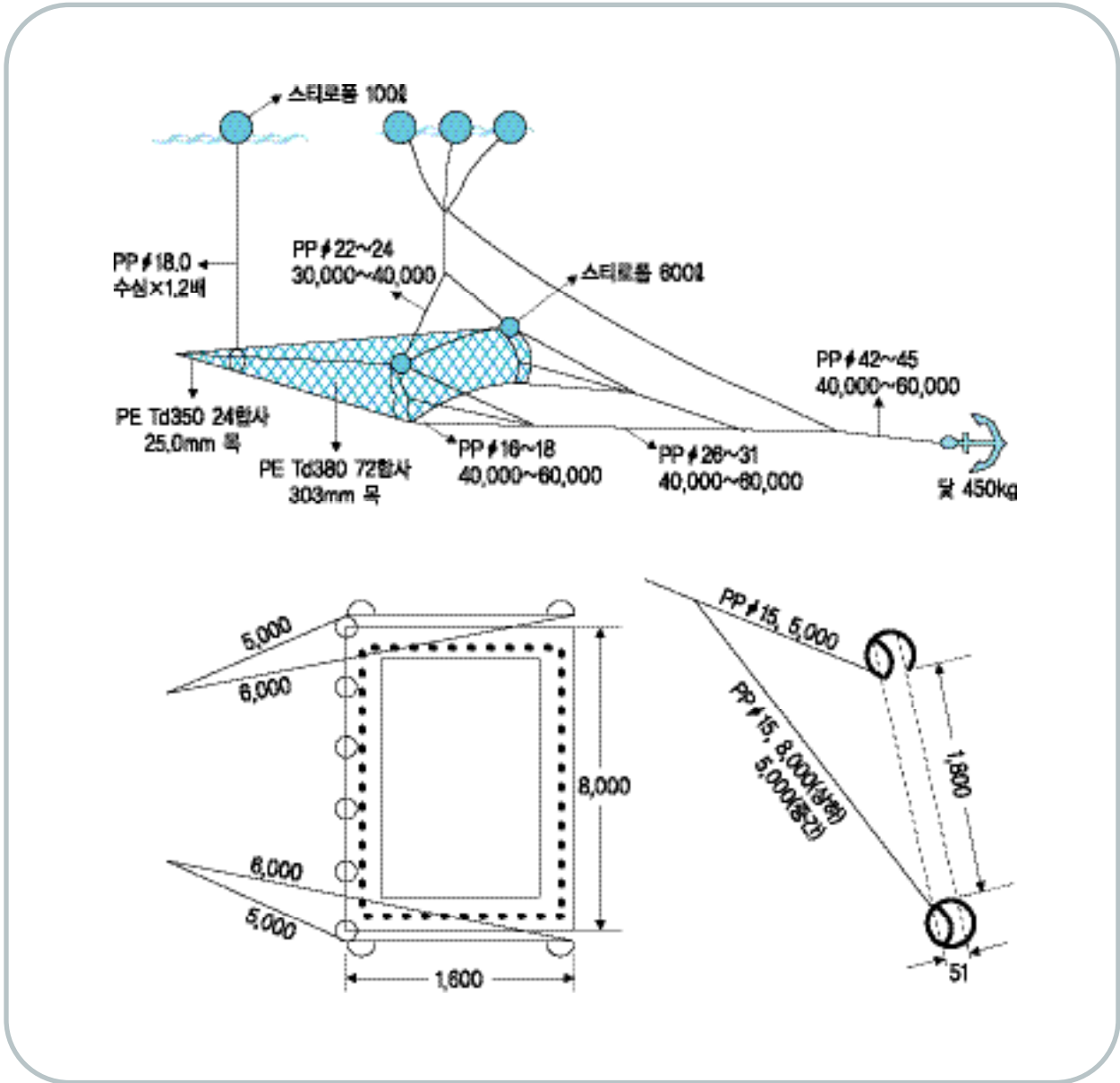
,

1 30~40m 5 ,

30~45 ,

500mm , .

)



: 4~7 , 9~12

:

: 15m ,

: 5~7 3~4

4

PE 72

303mm~30mm

PE Td360 24 25mm

가

1.6m, 8m .

가

가

( )

1 5

가

가

가

1 2~4

1

20 , 30

가

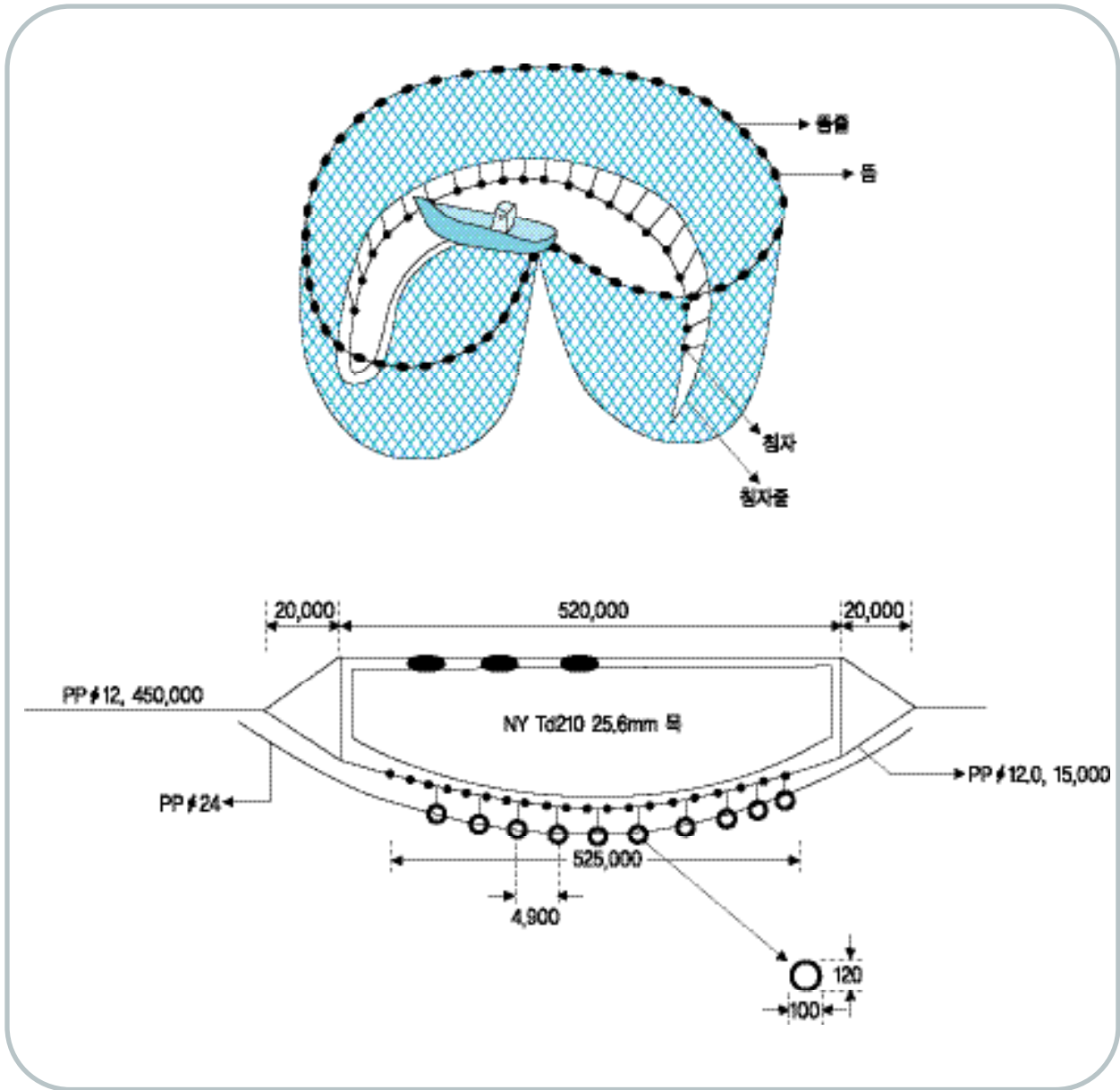
4~5

1

가 19~20

1

)



: 6~11

:

: 10m ,

: 5~7          6~8

Ny Td210 4~6    25.6mm          ,          70%

,          62%          .          1          520m,          13.5m          .

가

,

,

1/3

.

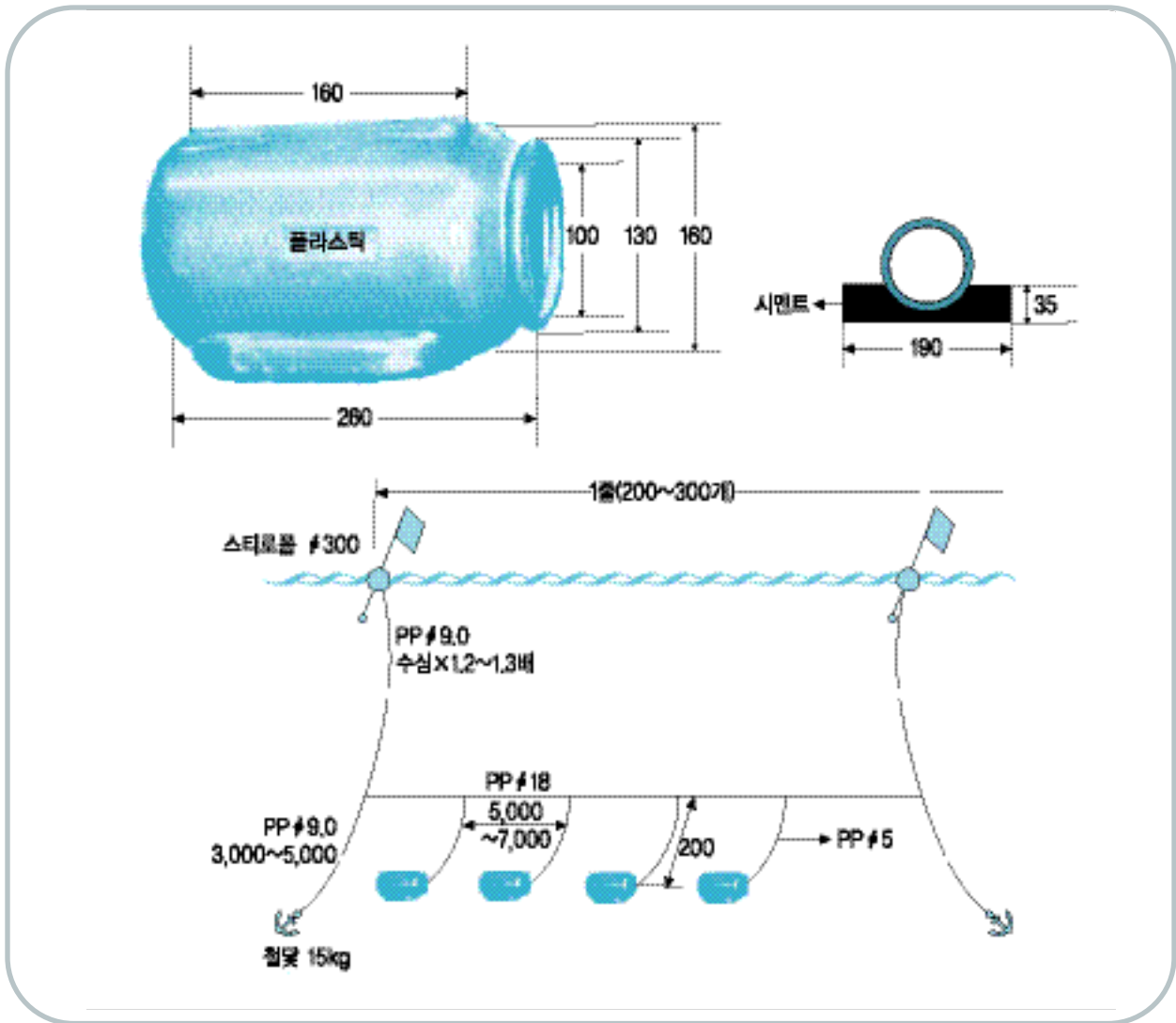
3/4

1    5~6          ,          .1          5~10 ,

1    ~1    30          .



)



: 7~12

: 10m ,

: (90%), ,

: 2~5          2~4

PP 5mm

5~7m

PP

18mm

5~6

1

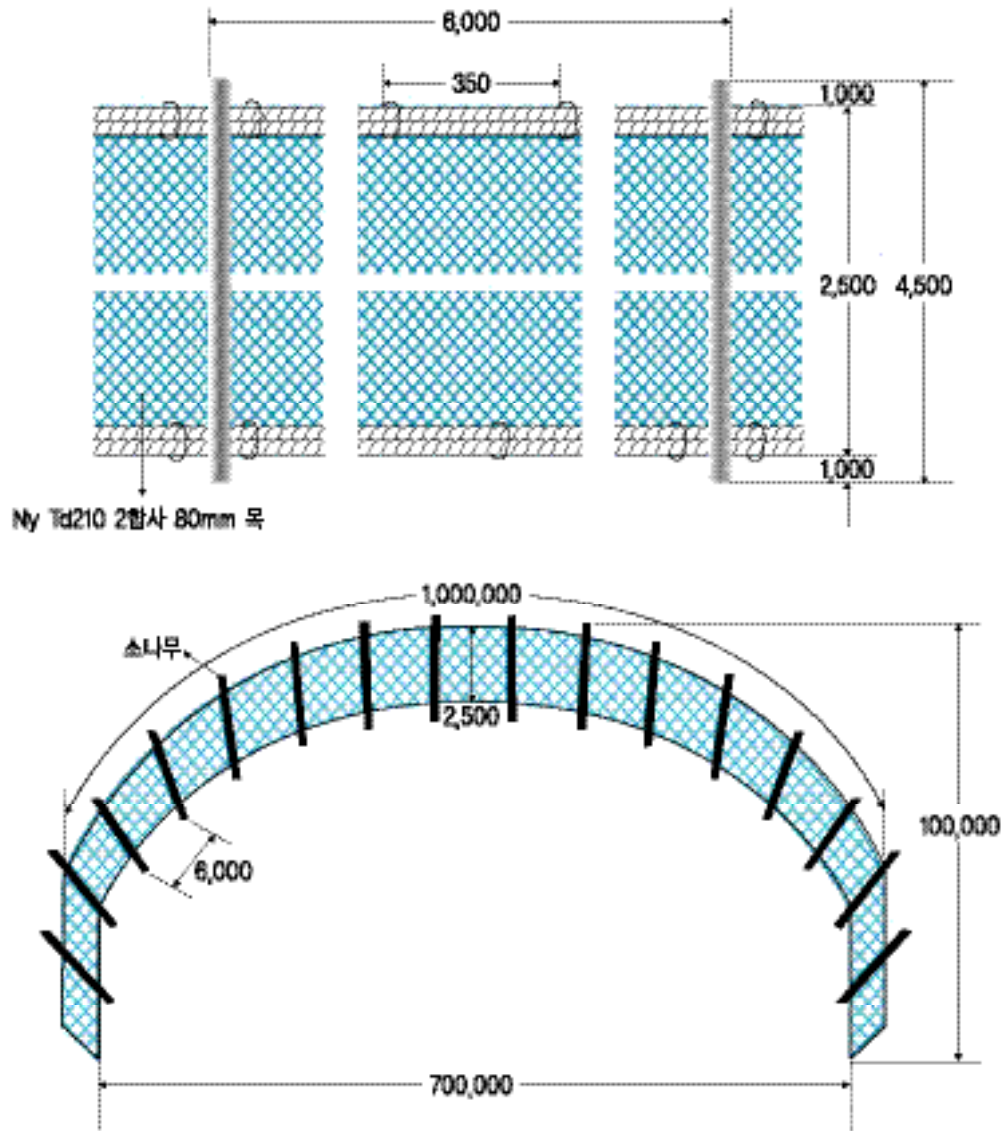
200~300

10

1

, 1 4~5

)  
(1)



: 5~9

: , ,

: 3m ,

가

가

가

.

4.5m

6m

Ny

Td210 2 80mm

가

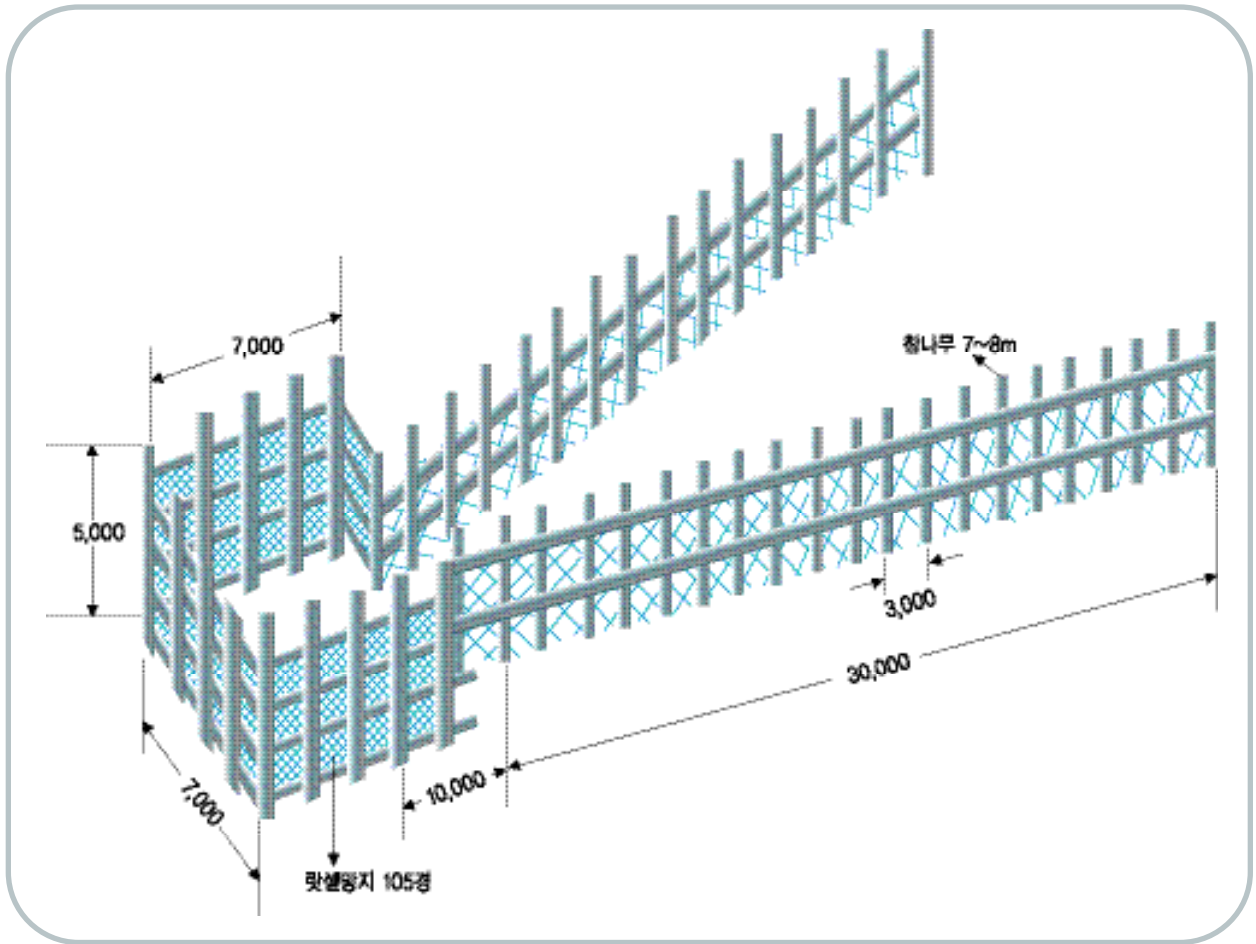
60%

,

2.5m

.

(2)



: 5~9

: 25m ,

:

가

가

가

V

7m

3~4m ,

가

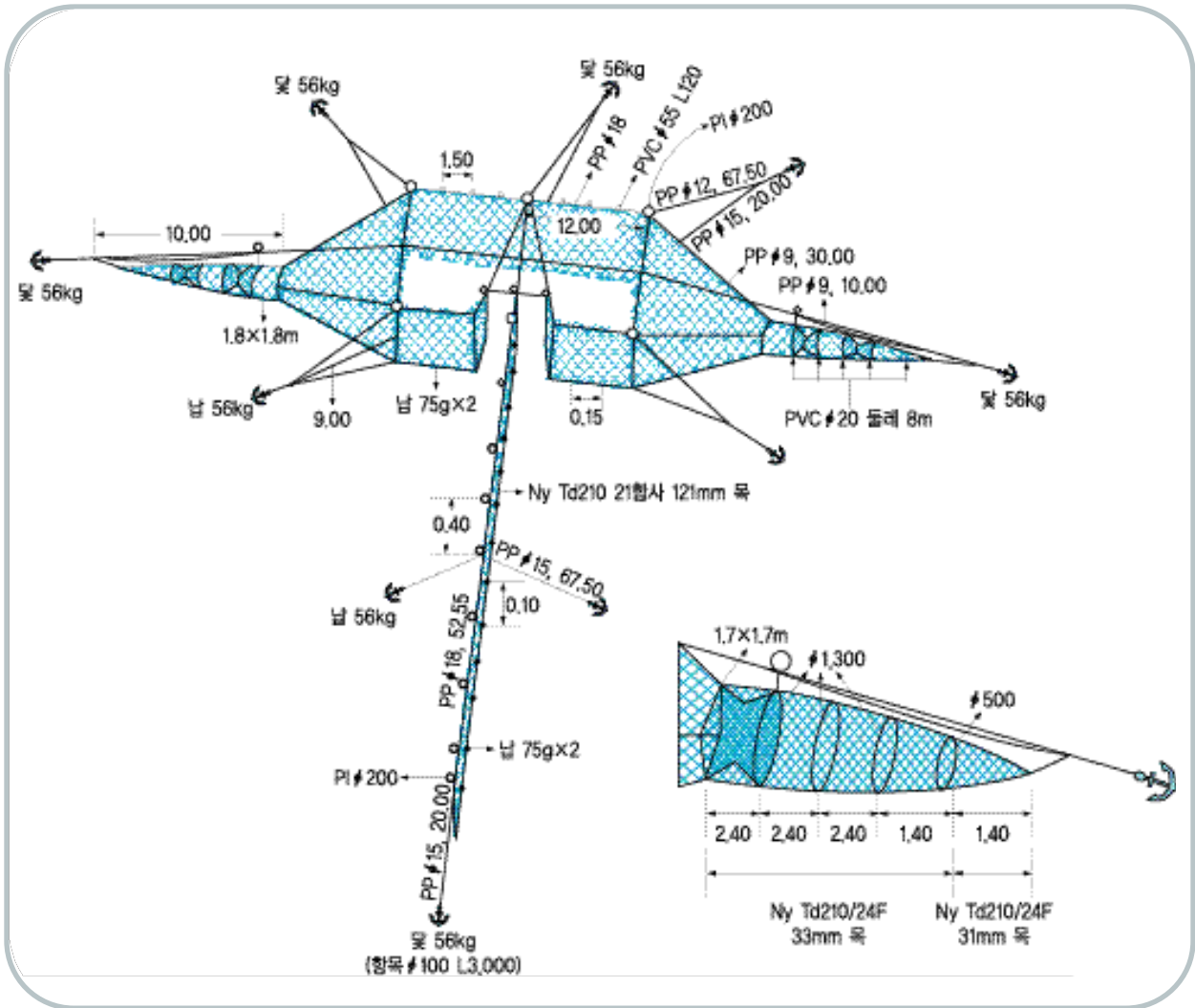
105

가 ,

7~8m .

가

(3)



: 3~10

: 8m ,

: (90%), ,

(Ny Td210 21 121mm ) , (Ny Td210 21 40mm ) ,

(Ny Td210 24 33mm )

가

가 1.7m, 1.7m가 ,

1.3m

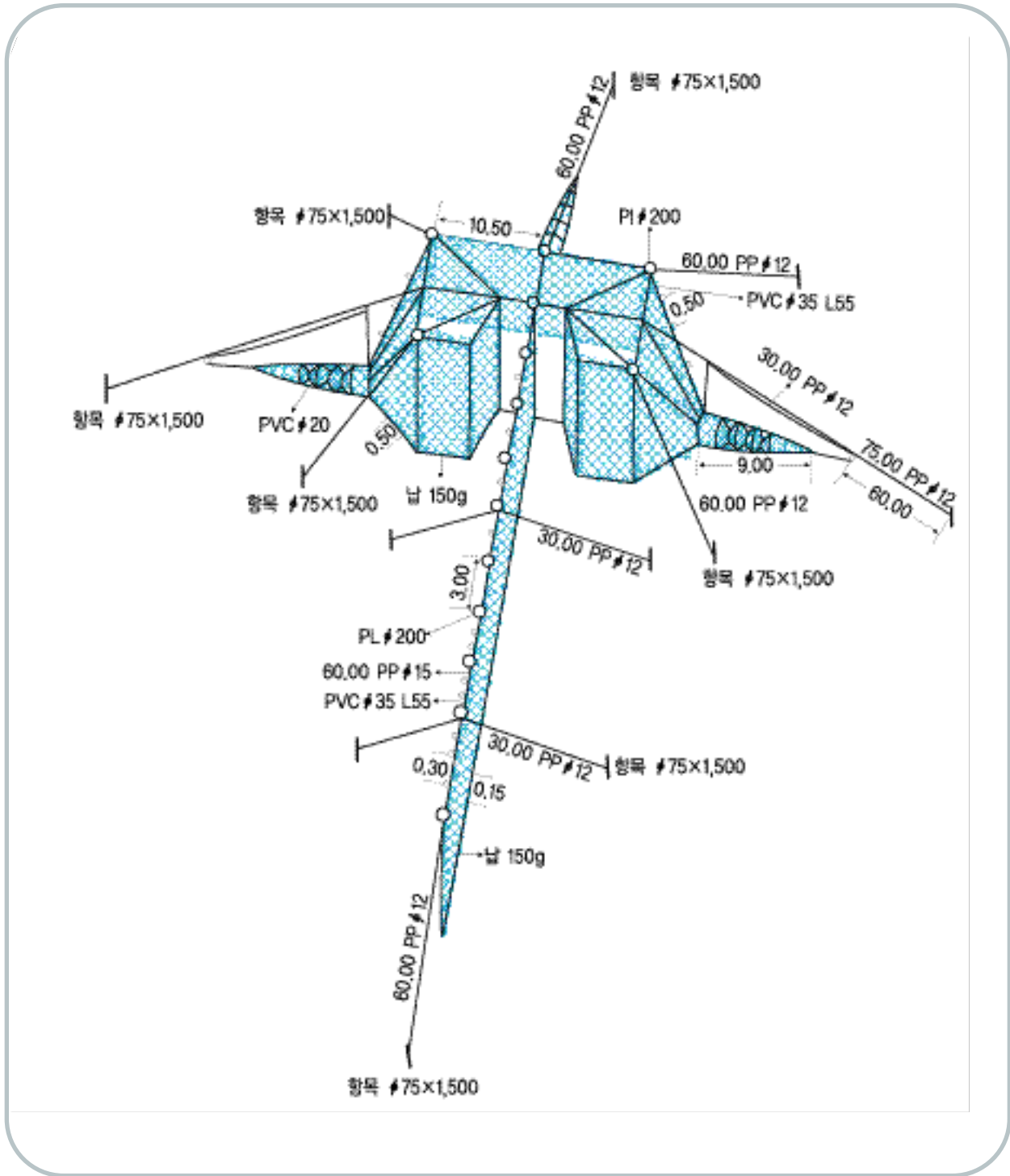
0.5m ,

30

1 2~3

, 1 1

(4)



: 3~10

: 5m ,

: (90%), ,

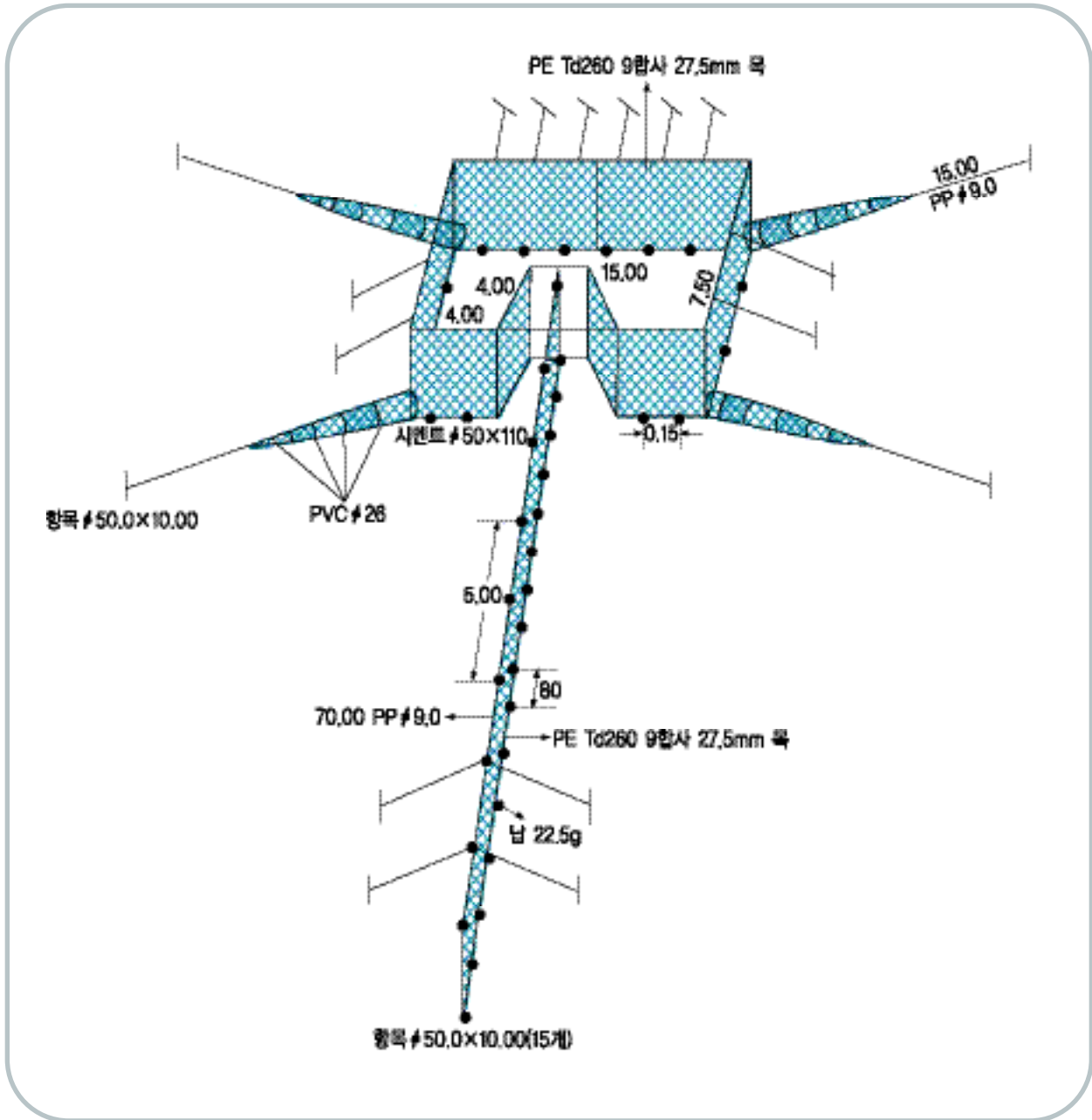
), (Ny Td210 21 40mm ), 가 3 . (Ny Td210 21 121mm  
(Ny Td210 24 33mm ) 가

1.7m, 1.7m가 , 1.3m 가  
0.5m , .

30

1 2~3 , 1 1 .

(6)





: 3~10

: 10m ,

: (90%), , ,

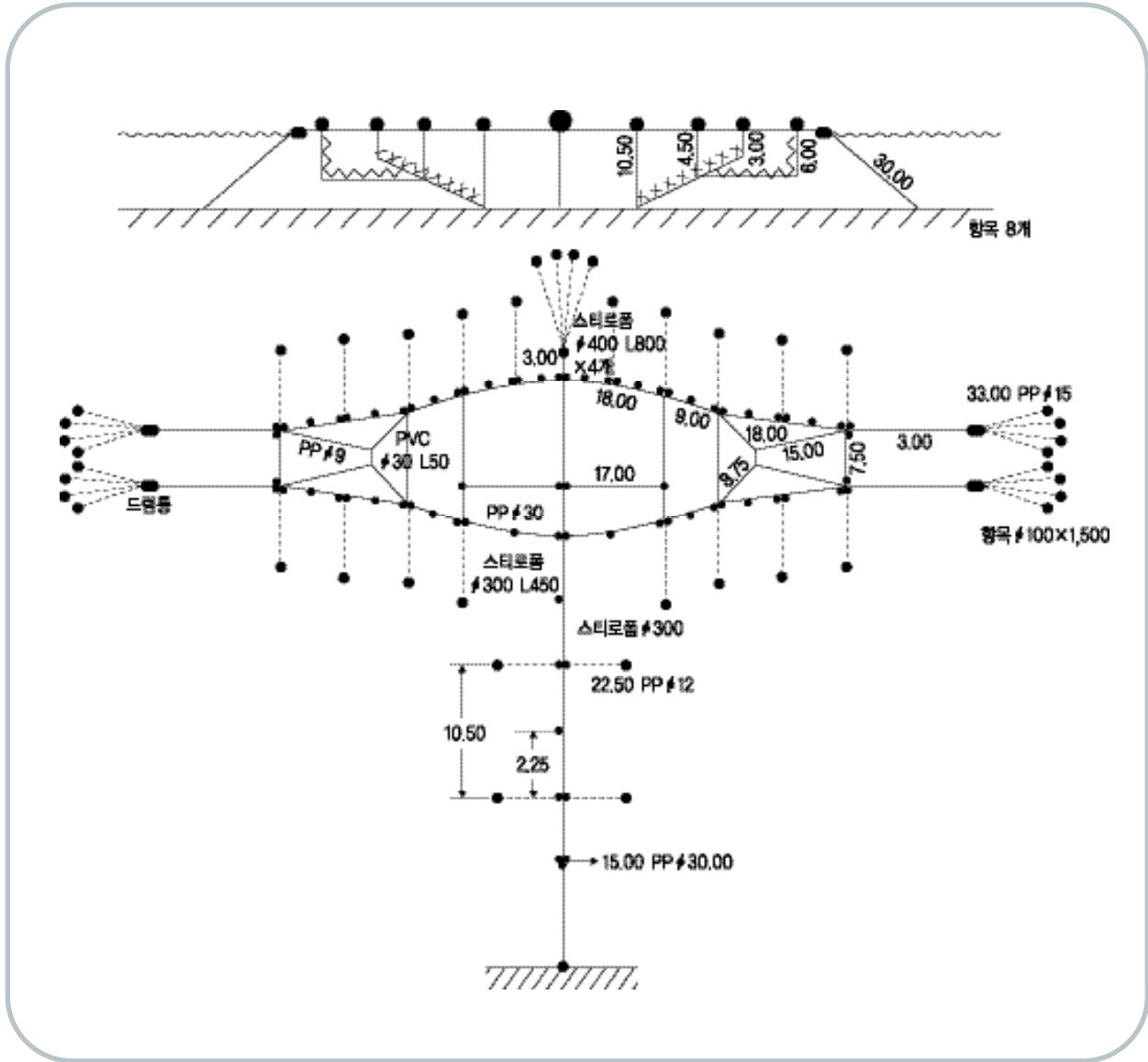
가 4 . (PE Td260 9 27.5mm  
, (PE Td260 9 27.5mm ), (Ny Td210 24 23mm )

가 1.7m, 1.7m가 ,  
1.3m 0.5m ,

30 .

1 2~3 , 1 1 .

(6)



: 3~10

: 10m ,

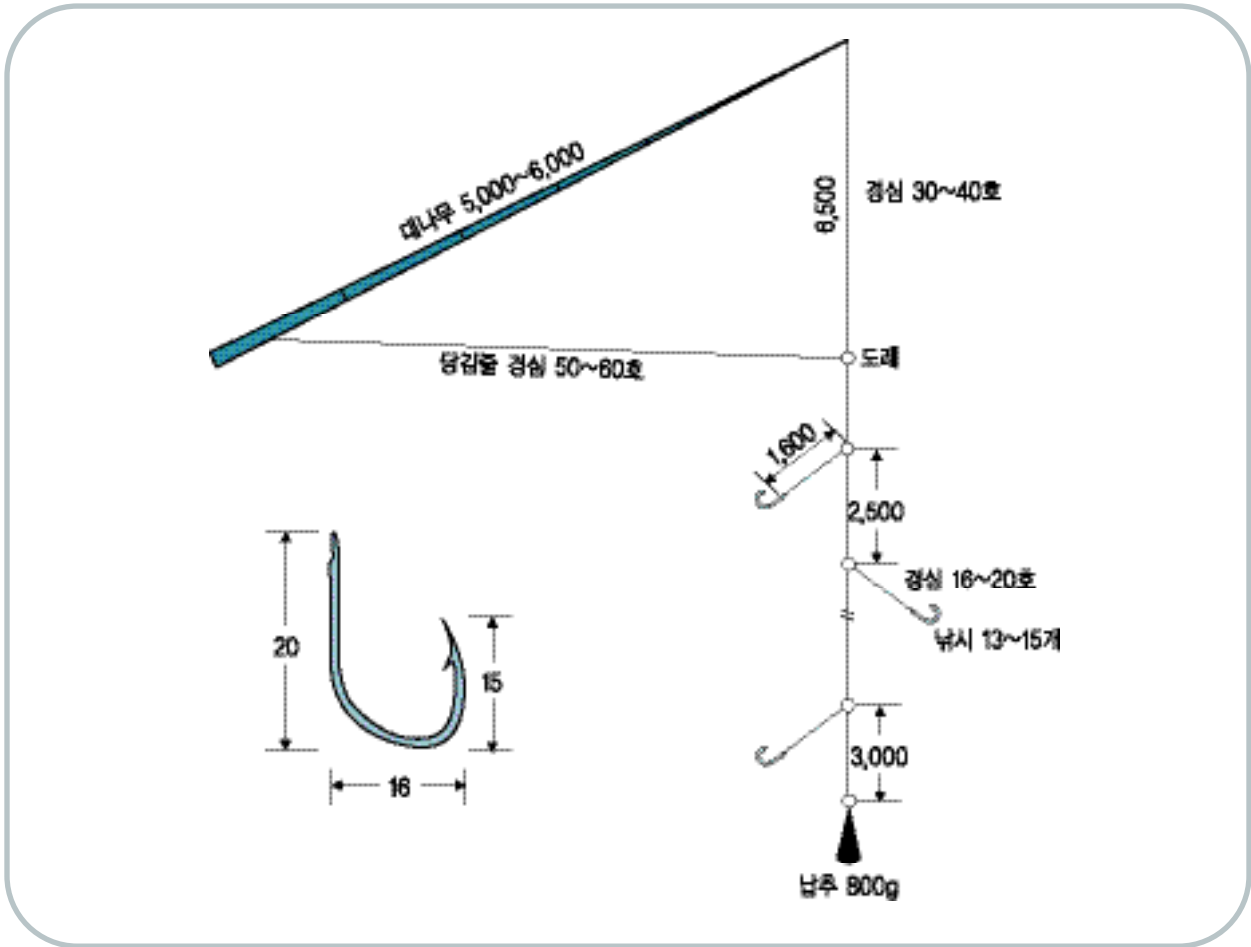
: (90%), , ,

, , . ( )

, ,

가 , 1 2 , 1 1

)  
(1)



( 5~6m ) ( 30~40 ) 6.5m ,  
 ( 18~20 ) 40m , 800g 1  
 2.5m 가 ( 16~20 , 1.6m ) 13~15개  
 , 가 .

( 50~60 , 50m ) .

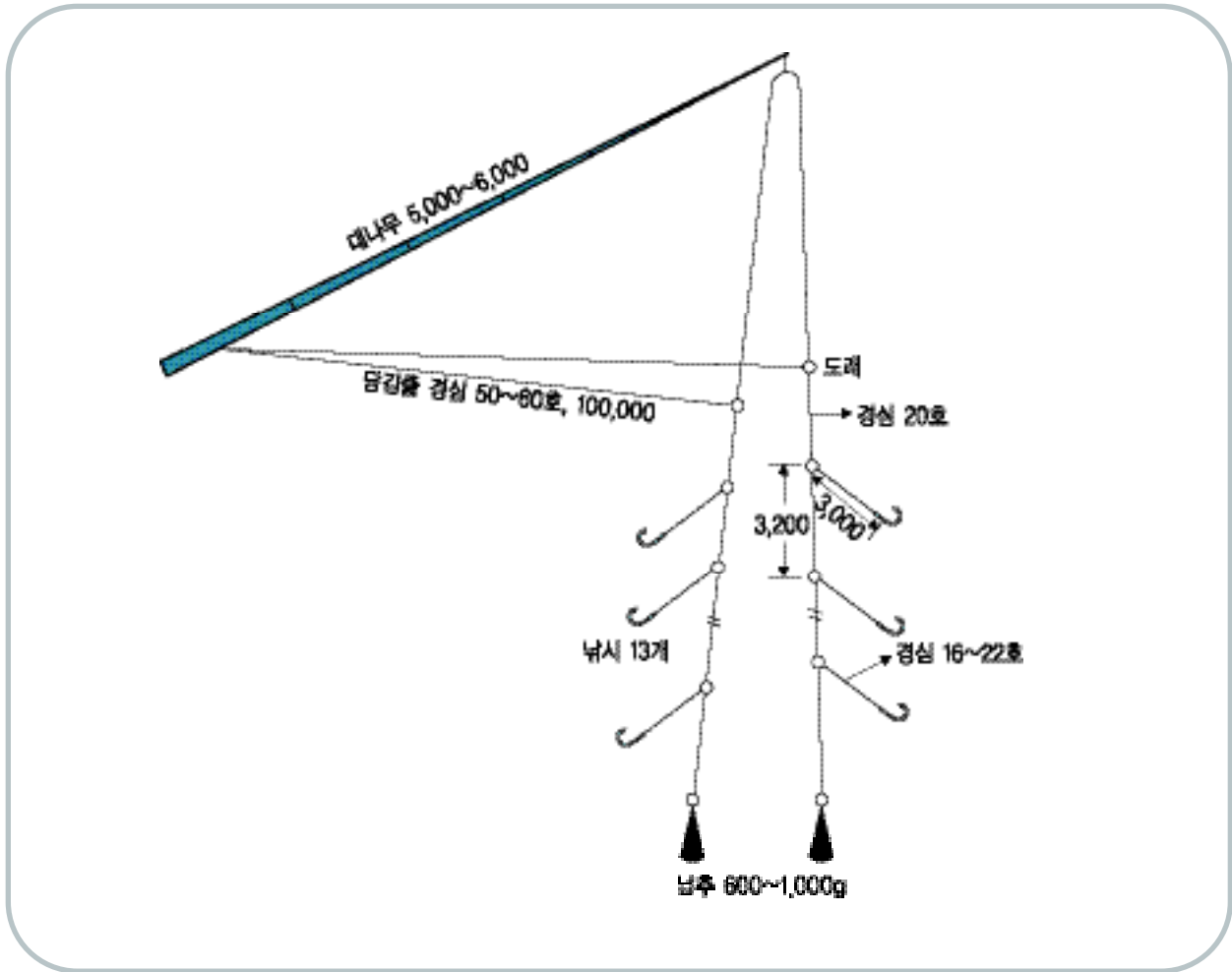
가 . 가 ,  
 1.5kW 20 가

45~60

. 가 ,  
 가 가 .

가 , 8~10 , 4~6 ,

(2)



: 8~10

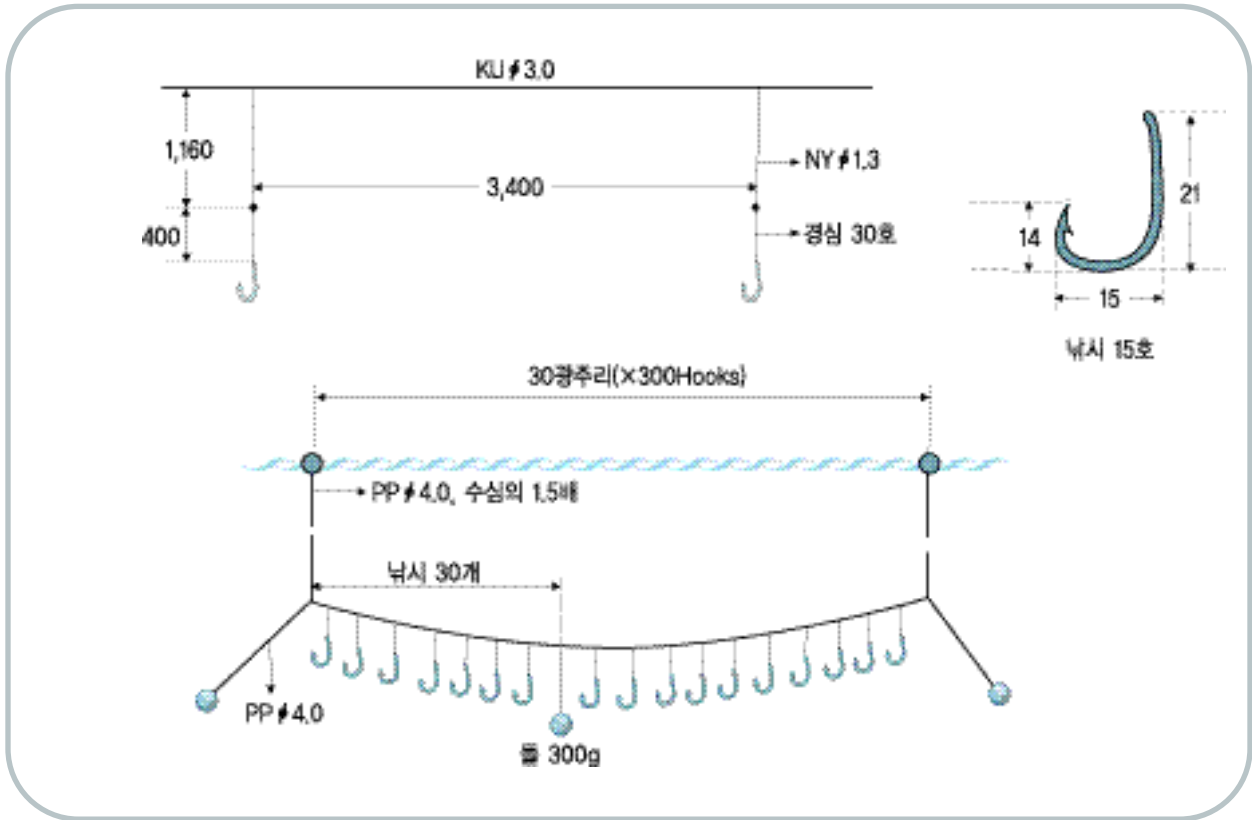
: 150m ,

:

: 7~20          7~9

:

) ( )



:

: 20~30m ,

:

: 10~30 4~5

:

KU 3.0mm , Nylon 1.3mm 30 , 15  
 , 3.4m , 1.6m .

300 .

가 100 ,

.

가 30 300g

1 30~40 .

3

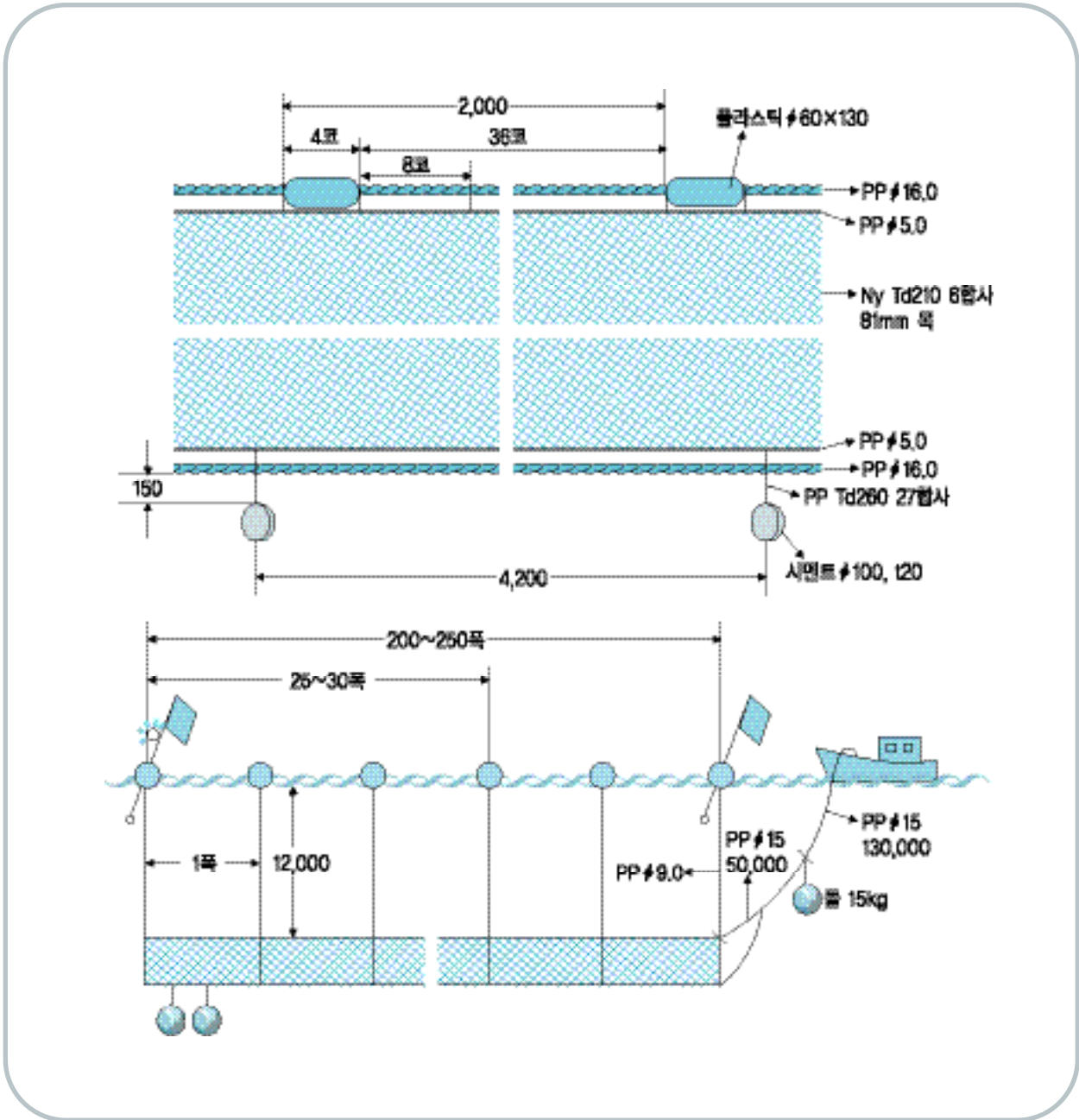
가 .

, 1 1

1 ,

3~4 .

)  
(1)



: (6~11 ), (8~ 4 )

: 70m ,

: ,

: ( 80~90%, , ),

( , , , , )

: 38 10~11

Ny Td210 6 81mm

60~70% .

1 151.5m, 350 ,

1 90m .

200~250

가

3~5 20~25

500~600

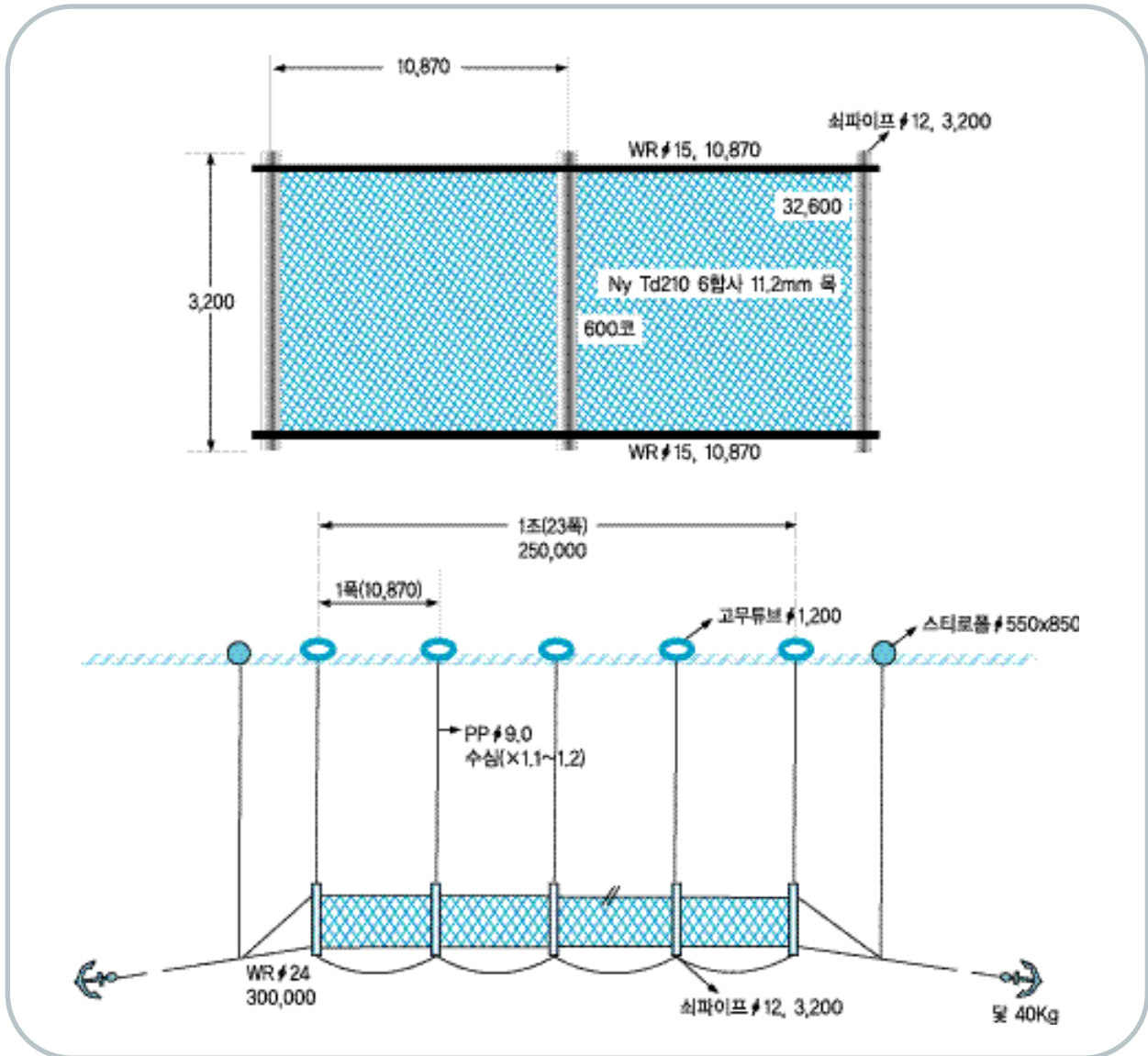
1 2~3

3

4 ,

17 .

(2)



: 6~12 ,

: 30m ,

:

:

; 15 6

Ny Td210 6 11.2mm , 3.2m .

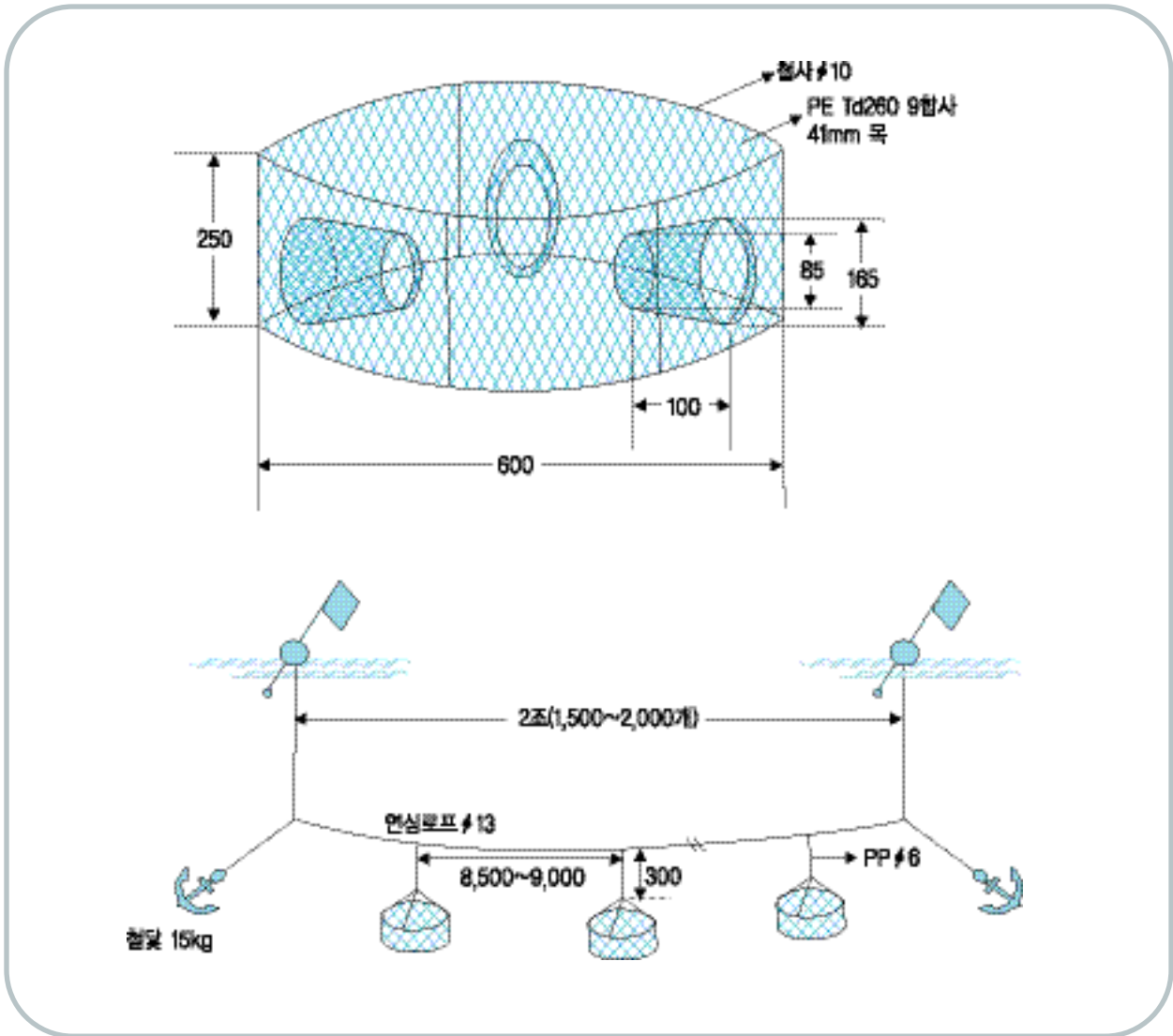
3.2m 1 23 1 3

, ,

, 1 .



)



: 9~ 1

: 50~120m ,

:

: 60~70 11~12

: 1/3

10mm , PE Td260 9 41mm

, 3 가 . 60cm, 25cm ,

가 .

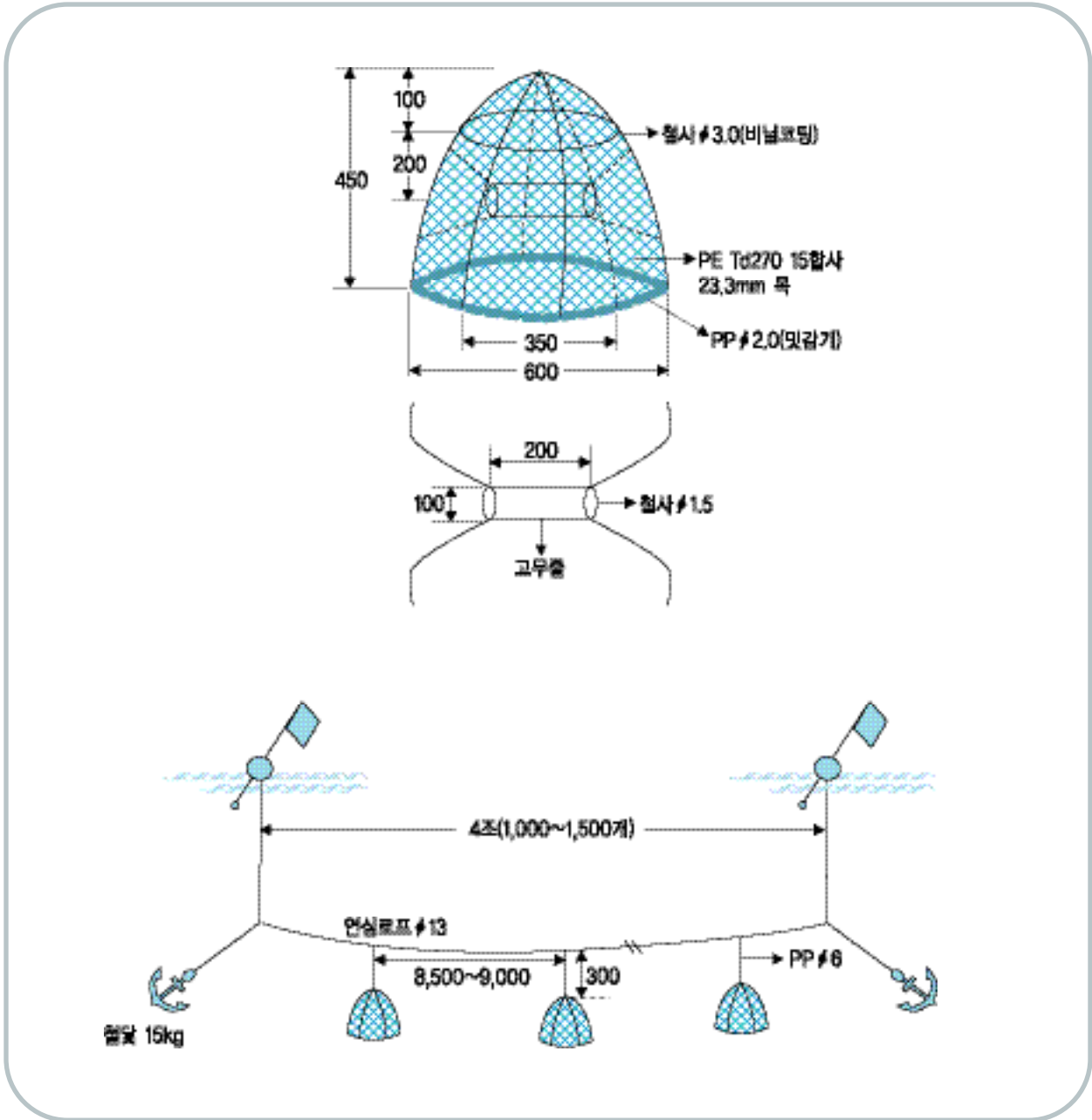
,

8.5~9m, 30cm .

1,500~2,000 1 2

.

(2)



: 1~8

: 1,500m ,

: (90%),

: 60~70 11~12

: 1/5

3mm

PE Td270 15 23.3mm

, 2 가 .

60cm, 45cm ,

가 .

8.5~9m, 30cm .

1,000~1,500 1

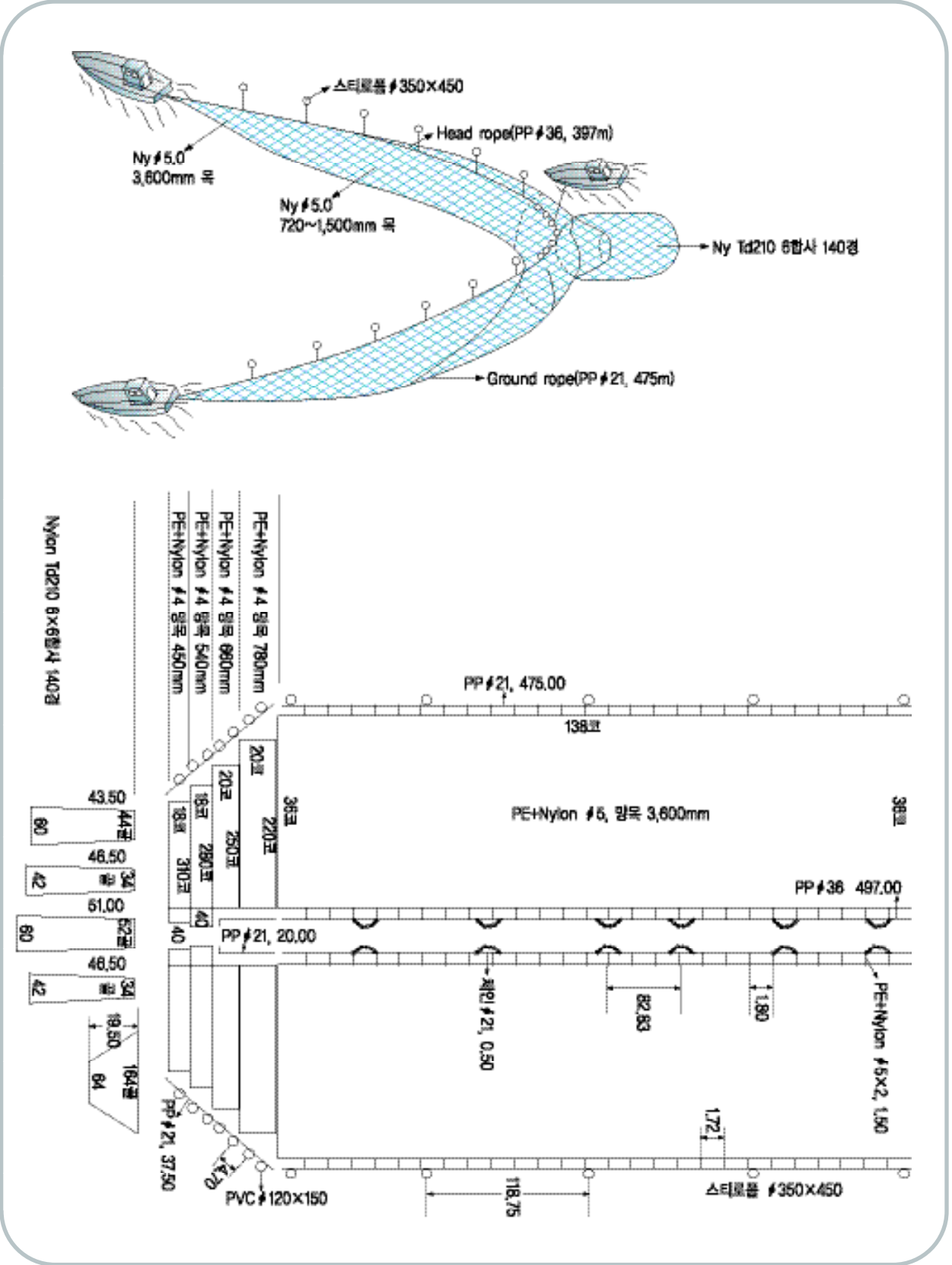
4

1~2

가

. 가 4

)



: 7~ 3

: 50~120m ,

:

:

(Ny 5.0 3,600mm ), (Ny 5.0 720~1,500mm ), (Ny  
Td210 6 140 ) .

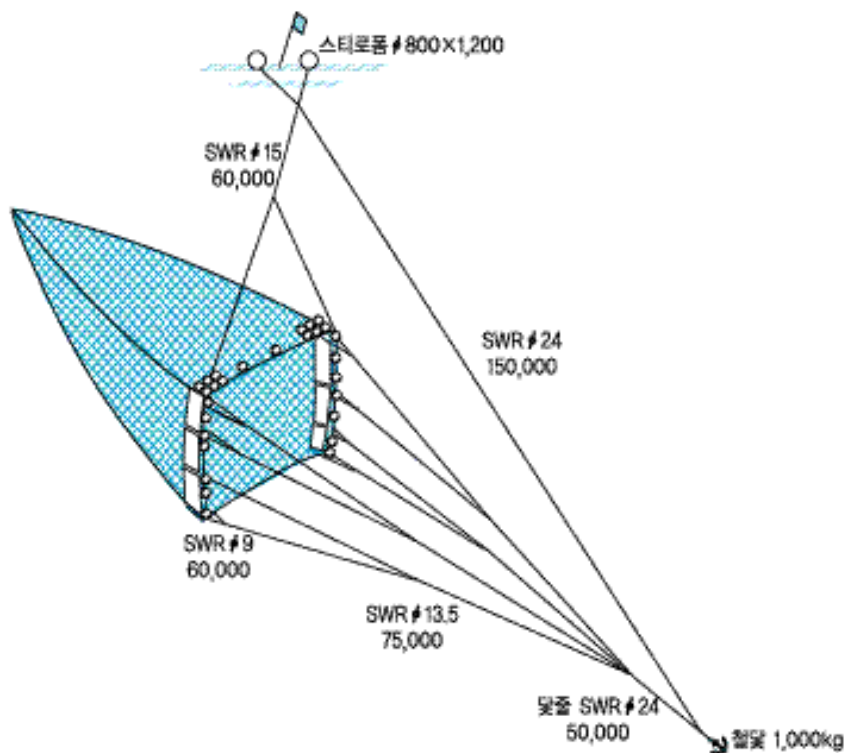
1 , 2 ,가 1~2 5~6 1  
, 8 ,가 14 , 3 , 3  
, 가 15 .  
가 2 ,  
, , , 가

1가 , 500~700m  
. 2k t , 1

1 ,가  
1 가 .  
, 1 5~6 .

)

MAT Td	ply	mm	[가로로프] PP #12, 51,000 (440코)		[세로로프] PP #12, 48,000 (430코)	
	66~90	480	4코		440	
	51~60	420	4		*	
	42~48	360	15		*	
	39	300		10	*	
	36	261		10	*	
	33	225		10	*	
	30	180		10	*	
	27	171		40	*	
	24	153		40	420	
	24	138		50	410	
	21	126		50	400	
	21	114		60	380	
PE260	21	102		50	370	
	18	90		50	360	
	18	81		100	350	
	18	72		70	330	
	18	63		50	310	
	18	54		50	290	
	18	48		50	280	
	18	42		50	260	
	24	39		100	220	
	27	36		100	180	
	33	36		50	150	
	36	33		100	100	
	39	33		50	80	
	45	33		500	70	



: 8~12

: 50~100m ,

: , , , ,

: 70 10

4 , PE Td260

90 480mm ~PE Td260 39 33mm ,

PE Td260 45 33mm ,

48m, 51m, 54m 3 . 48m 440

2m, 51m 460 2.2m, 54m 470 2.2m ,

10~20 . (

360mm)

320m, 20m, 20m , 6m

가 , 가

( ) ,

, , .

1 3 ,

가 , ,

가

가

1 2~4 . 1

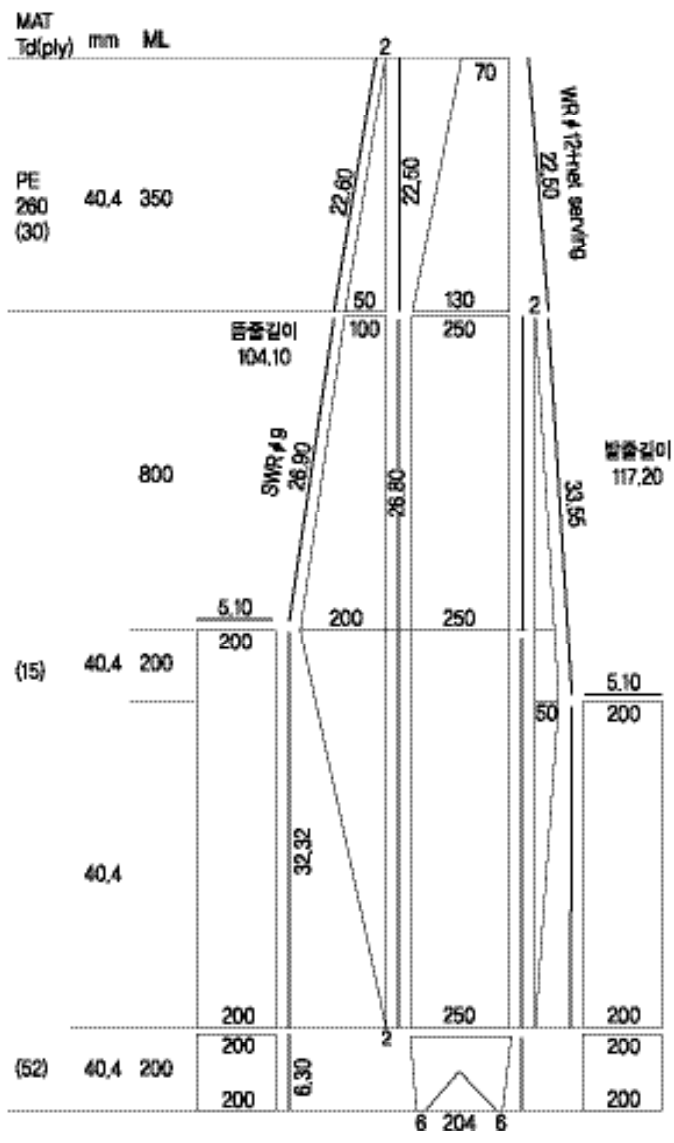
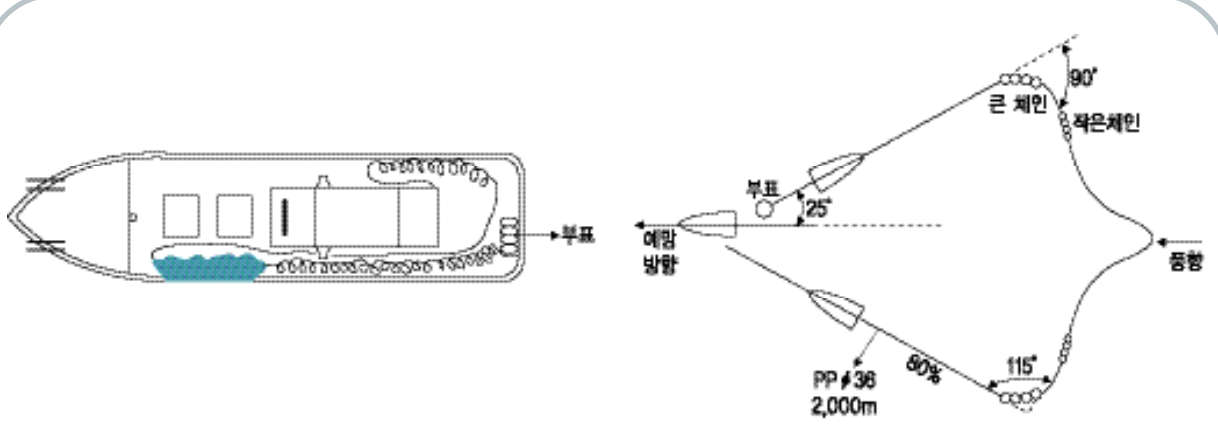
20 , 30 . 가

4~5 10 가 19~20

10 .

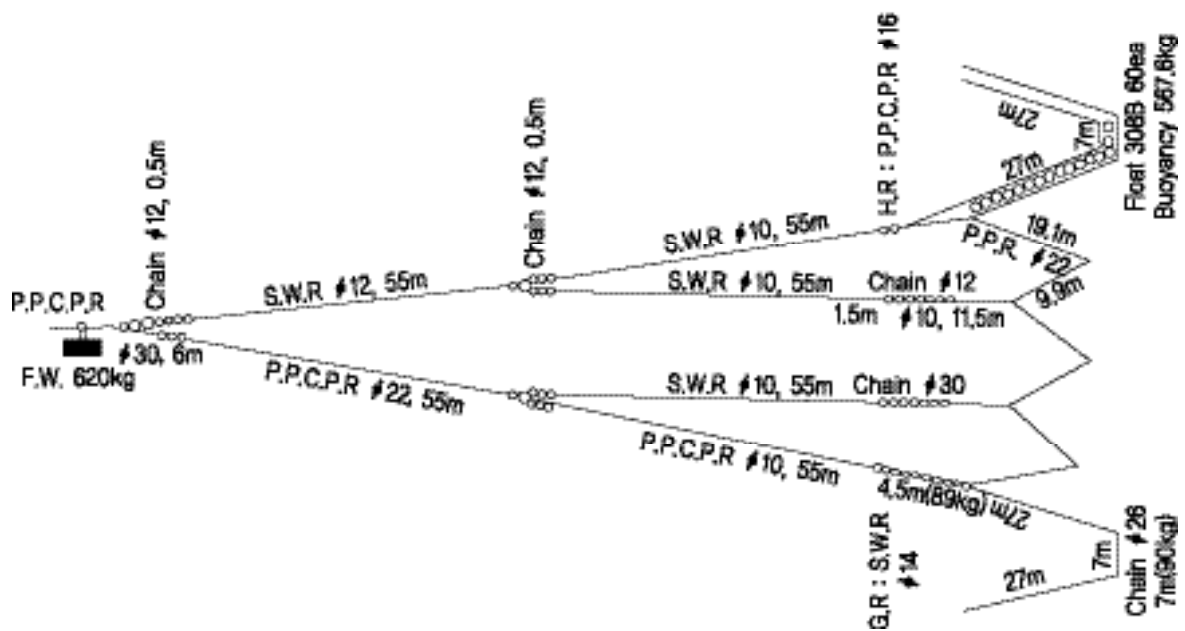
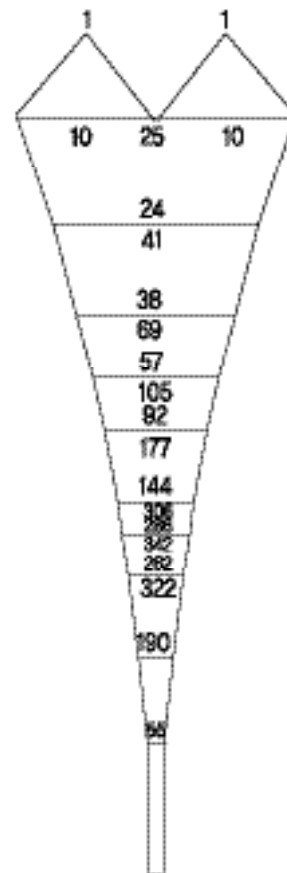
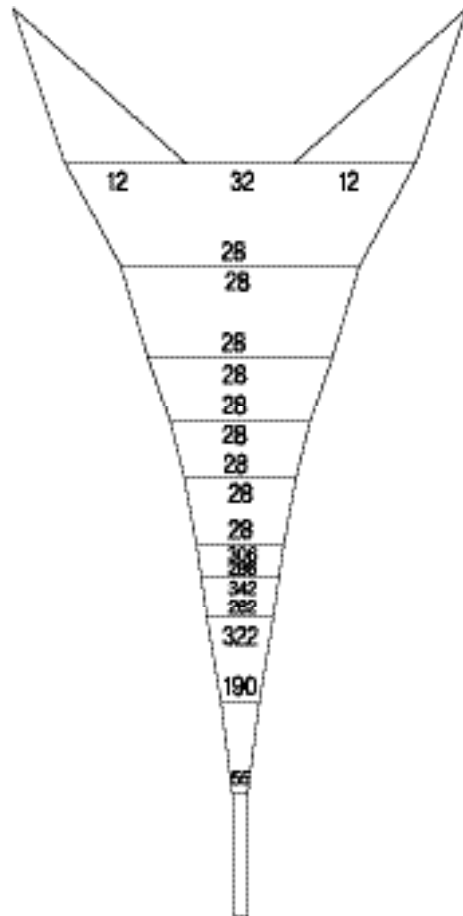
8 , 10 .







ply (#)	mesh size (mm)	number of mesh
6#	3200	6
6#	3200	5
270	1600	8
210	800	13
120	400	20
60	200	50
40	90	50
30	75	100
30	60	200
40	60	200
120	45	400



: 8~ 6

: 50~100m, ,

: , , , , , , , , , 가

: 39~69 8

1993

. 3.2m , 3.2m,  
1.6m, 0.8m, 0.4m, 0.2m , 35mm .

130m 120m, 400m .

40~60m, 60m, 4.5m .

V U

400~600m

3~4kt , 2~3 .

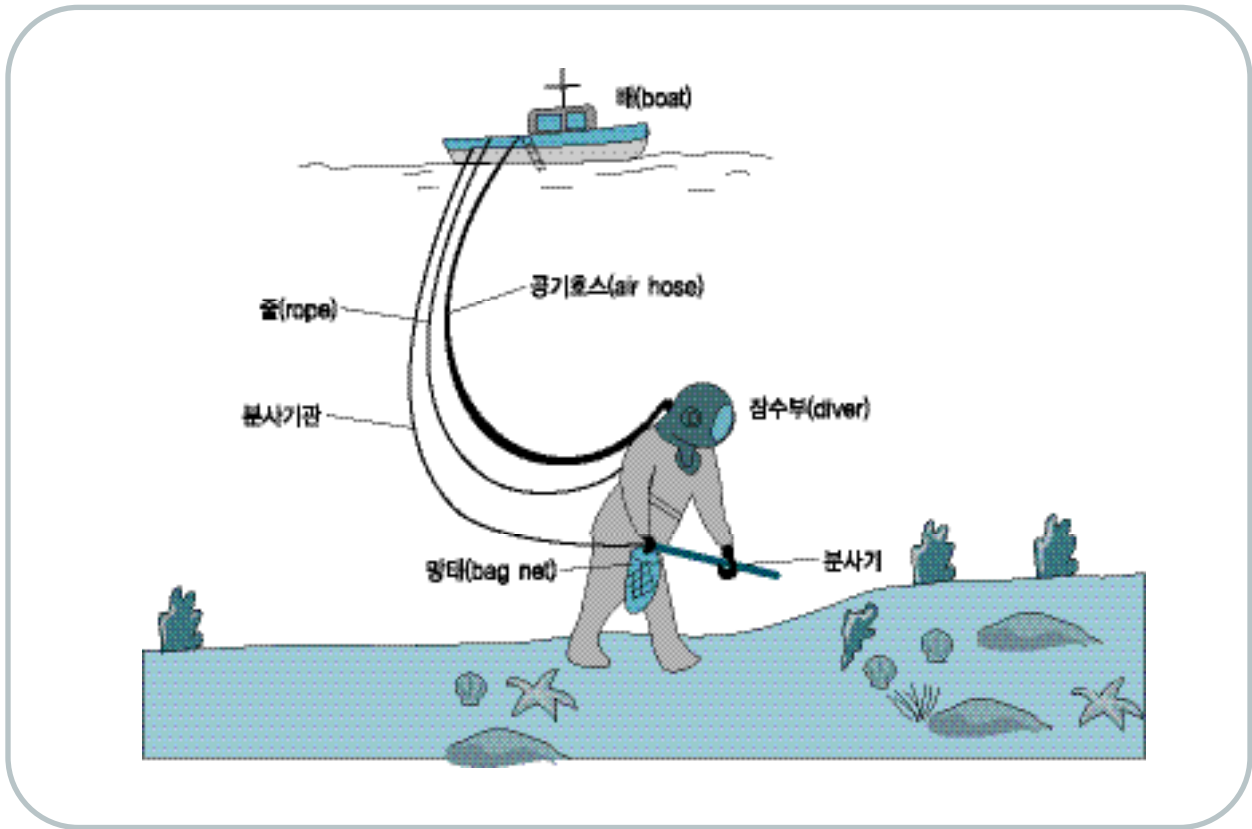
5~10

, 1 4~5 .

. 1 , 8~10 30 , 9~

3 12~15 .

)



:

: 10~40m,

: , , ,

: 4.9 55 , 3

5 가 , , , 가

, 10 가 ,

10cm .

1 4~5 , 1 , 2~3

.

1 120kg .



[4.

]

가.

1)

가)

4-1 , ,

4-1 , ,

36.17 .

가 (79.00 ), (72.63

), (69.00 ), (39.25 ),

(39.00 ) , 가가 (4.81 )

가 83.00 ,가

4.63 . 가가

(35.22 ) , 가가 (0.00 ) (0.00 )

7.74 ,

(13.00 ) (12.50 ), (11.00 ),

(8.50 ) , 가 (3.25 ) .

가가 (0.00 ) , 가가

(5.85 ) . 가 26.00 ,

가 , , 1.00 .

4-1.

( : , )

				( )		( )	( )						
	83.00	26.00	79.00	80.00	11.00	39.00	40.00	83.00	29.00	70.00	4.97	74.00	29.00
	4.63	26.00	79.00	62.00	10.00	39.00	39.00	69.00	9.77	12.00	4.63	13.00	0.60
	36.17	26.00	79.00	69.00	10.25	39.00	39.25	72.63	16.02	37.70	4.81	33.33	3.71
	24.58	0.00	0.00	7.87	0.50	0.00	0.50	5.55	7.25	18.70	0.16	35.22	4.97
	26.00	14.00	7.00	10.00	6.00	10.00	10.00	19.00	15.00	26.00	9.00	16.00	20.00
	1.00	12.00	7.00	3.00	2.00	7.00	1.00	6.00	1.00	1.00	3.00	7.00	0.60
	7.74	13.00	7.00	7.20	3.25	8.50	5.25	12.50	6.23	7.63	6.40	11.00	6.81
	4.89	1.41	0.00	3.42	1.89	2.12	4.03	4.93	3.19	5.85	3.13	4.58	3.90

3.71 6.81 . 가

29.00 , 가 0.60 . 가

20.00 , 가 0.60 .

)

-

-

4-2

26,911.49 .

(60,000.00 ) ,

(50,000.00 ) ,

(42,000.00 ) ,

(32,031.73 ) ,

가

(17,000.00 ) .

가가

(32,563.77 ) ,

가가

(0.00

) .

564,360.14 .

(3,228,600.00 ) ,

(1,132,102.50 ) ,

(1,052,000.00

)

(957,520.00 ) ,

가

(75,746.00 ) .

가가

(986,533.14 ) ,

가가

(0.00 ) .

92%



가 18,304.55 24,851.63  
 가 110,000.00  
 가 37,747.67 100,231.83  
 가 436,000.00

4-2. ( : )

		120,000.00	0.40	4,870,000.00	1.00
		0.00	0.00	56,350.00	0.60
		26,911.49	0.08	564,360.14	0.92
		25,148.40	0.09	797,812.78	0.09
		70,000.00	0.02	3,610,000.00	0.99
		50,000.00	0.01	2,847,200.00	0.98
		60,000.00	0.02	3,228,600.00	0.98
		14,142.14	0.01	539,381.05	0.01
		50,000.00	0.25	151,000.00	0.75
		50,000.00	0.25	151,000.00	0.75
		50,000.00	0.25	151,000.00	0.75
		0.00	0.00	0.00	0.00
	( )	60,000.00	0.08	1,323,800.00	0.97
		27,000.00	0.03	556,800.00	0.92
		42,000.00	0.05	957,520.00	0.95
		14,300.35	0.02	272,207.32	0.02
		0.00	0.00	158,900.00	1.00
		0.00	0.00	105,400.00	1.00
		0.00	0.00	141,700.00	1.00
		0.00	0.00	24,488.07	0.00
		41,000.00	0.04	1,130,000.00	0.99
		11,000.00	0.01	974,000.00	0.96
	( )	26,000.00	0.03	1,052,000.00	0.97
		21,213.20	0.02	110,308.66	0.02
		23,000.00	0.02	1,232,100.00	0.99
		18,000.00	0.01	1,051,200.00	0.98
	( )	19,750.00	0.02	1,132,102.50	0.98
		2,362.91	0.00	82,183.92	0.00

( : )

		42,500.00	0.17	824,000.00	1.00
		0.00	0.00	185,000.00	0.83
		17,000.00	0.05	400,326.86	0.95
		19,864.12	0.08	241,593.97	0.08
		70,000.00	0.19	540,000.00	1.00
		0.00	0.00	70,260.00	0.81
		23,756.15	0.08	254,020.00	0.92
		20,833.82	0.06	144,490.58	0.06
		120,000.00	0.40	4,870,000.00	1.00
		0.00	0.00	59,500.00	0.60
		32,031.73	0.08	599,902.38	0.92
		32,563.7	0.09	986,533.14	0.09
		30,000.00	0.35	108,000.00	0.94
		7,000.00	0.06	56,350.00	0.65
		20,000.00	0.22	75,766.00	0.78
		11,597.41	0.14	25,140.57	0.14
		30,000.00	0.10	326,000.00	0.95
		7,500.00	0.05	155,000.00	0.90
		21,265.00	0.08	238,333.33	0.92
		12,063.92	0.03	85,582.32	0.03
		110,000.00	1.00	436,000.00	1.00
		0.00	0.00	2,500.00	0.00
		18,304.55	0.28	67,776.67	0.72
		24,851.63	0.29	100,231.83	0.29

4-3

96,320.27

(183,488.46 ),

(114,384.62 ), (114,000.00 )

가가 (246,145.48 ) , 가가

(7,961.96 )

112,763.69 ,

가 (396,000.00 ),

(263,125.00 ), (200,764.00 ),

(181,400.00 ) . 가가

(181,120.95 ) ,가 (20,816.66 ) .

7,090.91 11,099.59

, 가가 50,000.00 .

54,397.73 107,257.80 , 가

610,000.00 .

4-3.

( : )

		818,900.00	1.00	514,000.00	1.00
		0.00	0.00	0.00	0.00
		96,320.27	0.42	112,763.69	0.58
		170,188.89	0.44	131,163.13	0.44
		0.00	0.00	100,000.00	1.00
		0.00	0.00	70,000.00	1.00
		0.00	0.00	85,000.00	1.00
		0.00	0.00	21,213.20	0.00
		0.00	0.00	446,000.00	1.00
		0.00	0.00	346,000.00	1.00
		0.00	0.00	396,000.00	1.00
		0.00	0.00	70,710.68	0.00
		160,000.00	1.00	400,000.00	1.00
		0.00	0.00	0.00	0.00
( )		43,800.00	0.31	181,400.00	0.69
		68,170.37	0.43	181,120.95	0.43

( : )

		0.00	0.00	50,000.00	1.00
		0.00	0.00	0.00	1.00
		0.00	0.00	25,000.00	1.00
		0.00	0.00	20,816.66	0.00
( )		178,000.00	1.00	30,000.00	0.14
		50,000.00	0.86	0.00	0.00
		114,000.00	0.93	15,000.00	0.07
		90,509.67	0.10	21,213.20	0.10
( )		51,000.00	0.19	386,500.00	1.00
		0.00	0.00	178,000.00	0.81
		29,000.00	0.10	263,125.00	0.90
		23,537.20	0.09	98,740.72	0.09
		17,500.00	0.16	368,899.00	1.00
		0.00	0.00	93,000.00	0.84
		7,857.14	0.04	200,764.00	0.96
		7,961.96	0.06	91,917.59	0.06
		333,000.00	1.00	342,000.00	0.88
		20,000.00	0.12	0.00	0.00
		114,384.62	0.63	72,076.92	0.37
		114,610.60	0.38	103,421.8	0.38
		818,900.00	1.00	514,000.00	1.00
		0.00	0.00	0.00	0.00
		183,488.46	0.57	89,815.38	0.43
		246,145.8	0.45	132,701.85	0.45
		85,000.00	1.00	128,000.00	1.00
		0.00	0.00	0.00	0.00
		39,000.00	0.60	43,693.00	0.40
		37,815.34	0.55	61,283.21	0.55
		30,000.00	0.38	200,000.00	1.00
		0.00	0.00	50,000.00	0.63
		10,000.00	0.13	110,000.00	0.88
		17,320.51	0.22	79,372.54	0.22
		50,000.00	1.00	610,000.00	1.00
		0.00	0.00	0.00	0.00
		7,090.91	0.36	54,397.73	0.64
		11,099.59	0.42	107,257.80	0.42

)

4-4 , ,  
 , . 343,600.25  
 , (1,329,194.70  
) , (598,424.50 ) , (517,944.90 )  
 (508,538.25 ) , 가  
(131,559.25 ) . 가가  
(649,221.46 ) , 가 (10,911.79 )  
 .  
 333,360.41 ,  
 (1,876,297.00 ) ,  
(597,779.60 ) , (536,850.00 ) (405,005.29 )  
 . 가가 (382,181.04 )  
, 가 (11,999.60 ) .  
 10,239.84 ,  
 (109,851.14 ) ,  
(75,473.90 ) , (61,574.50 ) ,  
 (-547,102.30 ) , (-79,834.70 ) ,  
(-67,812.23 ) (-20,306.10 ) .  
 가가 (319,846.98 ) , 가가  
(0.00 ) .  
 69,411.75 113,871.50  
 , 가 485,072.50 .  
 47,235.95 75,167.50 , 가  
 364.440.00 .  
 20,440.50 74,122.13 , 가  
 443,254.34 .

4-4.

( : )

		1,788,263.60	2,120,143.00	417,907.47
		5,250.00	34,200.00	(762,325.20)
		343,600.25	333,360.41	10,239.8
		270,115.8	343,582.08	193,231.8
		1,788,263.60	2,120,143.00	(331,879.40)
		5,250.00	1,632,451.00	(762,325.20)
		343,600.25	1,876,297.00	(547,102.30)
		270,115.8	344,850.32	304,371.14
		1,788,263.60	639,300.00	88,443.00
		870,125.80	434,400.00	34,706.00
		1,329,194.70	536,850.00	61,57.50
		649,221.8	144,886.18	37,997.80
		727,73.00	679,400.00	70,600.00
( )		469,106.00	514,785.00	(197,350.80)
		598,424.50	597,79.60	(79,834.70)
		182,883.98	58,471.67	106,059.75
		750,000.00	138,75.00	37,750.00
		400,000.00	90,485.00	2,843.00
		517,94.90	116,429.75	15,129.50
		150,123.65	22,891.54	15,483.63
		170,000.00	413,120.00	91,67.70
( )		93,328.00	396,150.00	59,273.10
		131,559.25	404,635.00	75,473.90
		34,771.70	11,999.60	22,911.39
		487,824.70	528,36.00	417,907.47
( )		472,393.10	115,278.43	(56,383.90)
		480,108.90	398,687.11	109,851.14
		10,911.79	194,394.54	211,157.68
		591,507.10	1,005,74.00	240,124.00
		443,290.90	122,328.00	(571,365.65)
		508,538.25	405,005.29	(67,812.23)
		67,190.52	382,181.04	319,846.98
		472,859.00	376,859.00	316,200.00
		22,490.00	39,700.00	(193,120.00)
		337,193.06	180,501.08	18,462.79
		162,709.95	103,44.52	122,694.39

( : )

		455,500.00	724,720.00	367,005.00
		24,200.00	34,200.00	(377,130.00)
		198,963.87	276,004.85	64,025.69
		119,012.91	181,616.61	162,233.69
		700,000.00	178,320.00	90,640.00
		5,250.00	81,769.00	2,215.47
		340,030.54	134,605.70	40,981.49
		215,722.90	35,929.18	32,351.83
		268,960.00	106,829.00	(20,306.10)
		110,400.00	106,829.00	(20,306.10)
		175,590.19	106,829.00	(20,306.10)
		58,000.00	0.00	0.00
		86,522.90	364,400.00	443,254.34
		86,522.90	970.00	(49,934.00)
		86,522.90	47,235.95	20,440.50
		0.00	75,17.50	74,122.13

4-5 , , , , ,  
가 , , .  
155,709.84 ,  
(999,220.00 ), (248,900.00 ),  
(240,484.00 ) (210,035.00 ) .  
가 가 (271,990.64 ) , 가 가  
(0.00 ) .  
111,774.08 ,  
(637,118.00 ), (257,386.00  
) (165,000.00 ) . 가 가  
(105,625.00 ) , 가 (0.00 ) .  
, 18,800.01 ,  
2,563.13 10,382.33 .  
가 31,987.52 , 가  
(110,125.00 ),  
(75,920.50 ), (52,892.00 )  
(52,600.00 ) . 가 가 가  
(73,998.72 ) , 가 (0.00 ) .  
16,728.24 26,136.28  
, 117,400.00 184.00 .  
21,938.82 42,793.39 , 184,200.00  
110.00 . 가 5,446.31  
9,353.99 , 51,000.00 125.00 .



4-5.

( : )

												가	
		1,101,670.00	0.78	698,080.00	0.62	130,500.00		36,000.00	0.11	79,000.00	0.49	243,500.00	0.78
		214.43	0.00	185.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	900.00	0.01
		155,709.48	0.43	111,74.08	0.34	18,800.01	0.00	2,563.13	0.01	10,382.33	0.04	31,987.52	0.13
		191,314.47	0.16	118,758.93	0.15	21,683.51	0.06	5,777.03	0.02	12,331.00	0.06	39,060.64	0.16
		1,101,670.00	0.55	698,080.00	0.35	93,353.00	0.05	36,000.00	0.02	24,000.00	0.01	162,450.00	0.08
		896,70.00	0.52	576,156.00	0.33	50,725.00	0.04	27,000.00	0.02	23,590.00	0.01	57,800.00	0.04
		999,220.00	0.53	637,118.00	0.34	72,039.00	0.03	31,500.00	0.02	23,795.00	0.01	110,125.00	0.06
		144,886.18	0.02	86,213.29	0.02	30,142.55	0.04	6,363.96	0.00	289.91	0.00	73,998.72	0.03
		307,500.00	0.48	190,000.00	0.32	48,000.00	0.01	10,000.00	0.02	25,000.00	0.05	48,800.00	0.10
		190,300.00	0.44	140,000.00	0.30	19,800.00	0.08	10,000.00	0.02	20,000.00	0.04	44,300.00	0.08
		248,900.00	0.46	165,000.00	0.31	33,900.00	0.05	10,000.00	0.02	22,500.00	0.04	46,550.00	0.09
		82,872.91	0.03	35,355.34	0.02	19,940.41	0.06	0.00	0.01	3,535.53	0.00	3,181.98	0.02
( )		298,380.00	0.50	341,930.00	0.54	49,650.00	0.02	6,000.00	0.01	27,000.00	0.05	66,190.00	0.11
( )		196,920.00	0.32	195,000.00	0.32	15,000.00	0.07	30.00	0.00	6,400.00	0.01	27,80.00	0.05
( )		240,84.00	0.40	257,386.00	0.43	25,011.60	0.03	2,226.00	0.00	15,680.00	0.03	52,892.00	0.09
( )		50,890.83	0.08	69,28.49	0.10	14,337.56	0.04	2,813.16	0.00	7,963.17	0.02	15,750.60	0.02
		71,200.00	0.51	70,000.00	0.54	0.00	0.02	100.00	0.00	1,440.00	0.02	9,600.00	0.11
		33,003.00	0.36	46,392.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	5,270.00	0.04
		49,47.00	0.42	58,129.50	0.50	0.00	0.00	50.00	0.00	940.00	0.01	7,836.25	0.07
		17,556.51	0.07	9,767.13	0.05	0.00	0.00	40.82	0.00	680.00	0.01	1,905.80	0.03
( )		213,100.00	0.54	73,200.00	0.18	19,850.00	0.00	10,000.00	0.03	22,500.00	0.05	56,500.00	0.14
( )		206,970.00	0.50	61,000.00	0.15	19,450.00	0.05	9,200.00	0.02	16,500.00	0.04	48,700.00	0.12
( )		210,035.00	0.52	67,100.00	0.17	19,650.00	0.05	9,600.00	0.02	19,500.00	0.05	52,600.00	0.13
( )		4,334.56	0.03	8,626.70	0.02	282.8	0.05	565.69	0.00	4,242.64	0.01	5,515.43	0.01
( )		222,170.00	0.42	188,000.00	0.43	23,27.00	0.00	3,500.00	0.03	8,000.00	0.07	82,920.00	0.61
( )		214.43	0.00	185.00	0.00	14,086.00	0.20	3,150.00	0.01	7,700.00	0.01	70,102.00	0.15
( )		143,015.36	0.29	139,796.25	0.29	19,275.00	0.03	3,280.00	0.01	7,850.00	0.03	75,920.50	0.27
( )		103,873.11	0.20	93,089.68	0.19	3,835.76	0.08	154.70	0.01	129.10	0.03	5,434.50	0.22
		754,289.30	0.75	359,400.00	0.55	54,305.00	0.08	8,649.00	0.01	34,696.00	0.06	88,572.00	0.72
		12,875.00	0.11	16,000.00	0.13	1,881.00	0.12	54.00	0.00	2,000.00	0.02	6,210.00	0.03
		209,669.79	0.39	129,402.00	0.37	22,103.88	0.02	2,230.75	0.00	13,667.13	0.04	27,631.63	0.13
		271,990.64	0.18	105,625.00	0.15	20,763.49	0.06	3,034.29	0.00	11,012.99	0.02	27,395.64	0.24
		260,000.00	0.76	80,000.00	0.49	20,400.00	0.03	8,000.00	0.06	79,000.00	0.49	51,140.00	0.56
		11,550.00	0.12	3,307.00	0.07	0.00	0.19	0.00	0.00	0.00	0.00	3,513.00	0.03
		96,871.85	0.48	48,823.85	0.28	6,989.00	0.00	1,312.31	0.01	11,369.23	0.06	15,134.85	0.12
		85,310.54	0.19	24,406.12	0.13	6,465.37	0.05	2,686.59	0.02	21,42.88	0.13	12,698.4	0.15

( : )

										가			
		330,000.00	0.71	200,000.00	0.62	130,500.00	0.06	7,581.00	0.11	25,000.00	0.07	243,500.00	0.78
		3,881.00	0.11	1,200.00	0.04	214.00	0.24	0.00	0.00	0.00	0.00	900.00	0.01
		122,289.52	0.42	89,197.60	0.33	23,217.64	0.00	867.57	0.01	8,666.4	0.03	31,288.88	0.14
		94,368.38	0.16	57,42.24	0.16	26,281.4	0.07	2,037.28	0.02	9,643.56	0.02	50,409.94	0.18
		76,500.00	0.4	77,000.00	0.56	12,910.00	0.05	1,300.00	0.01	9,700.00	0.09	42,700.00	0.28
		37,429.00	0.25	27,000.00	0.33	5,290.00	0.07	0.00	0.00	1,500.00	0.01	2,817.50	0.02
		48,778.20	0.37	58,700.00	0.43	8,434.20	0.05	260.00	0.00	5,666.00	0.05	12,767.30	0.09
		16,542.04	0.10	20,400.98	0.08	2,785.47	0.06	581.38	0.00	3,687.52	0.03	17,243.76	0.11
		45,100.00	0.42	35,250.00	0.33	9,479.00	0.01	0.00	0.00	0.00	0.00	13.00	0.12
		45,100.00	0.42	35,250.00	0.33	9,479.00	0.09	0.00	0.00	0.00	0.00	13.00	0.12
		45,100.00	0.42	35,250.00	0.33	9,479.00	0.09	0.00	0.00	0.00	0.00	13.00	0.12
		0.00	0.00	0.00	0.00	0.00	0.09	0.00		0.00		0.00	
		117,400.00	0.88	184,200.00	0.71	34,100.00	0.4	2,000.00	0.03	2,280.00	0.10	51,000.00	1.00
		184.00	0.00	110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.00	0.00
		16,728.24	0.36	21,938.82	0.38	3,910.66	0.07	124.87	0.00	480.00	0.01	5,446.31	0.17
		26,136.28	0.21	42,793.39	0.19	7,424.19	0.10	337.6	0.00	690.72	0.02	9,353.99	0.21

4 - 6

21% , 10%  
(22%), (20%)  
(-64%), (-53%), (-32%), (-23%),  
(-20%) (-9%)  
가 가 (171%) , 가  
(3%)  
61% ,  
(213%), (88%)  
가 가 (251%) , 가  
(0%)

63% ,  
 (197%), (85%), (75%),  
 (74%), (72%) .  
 (65%) , 가 가 가  
 (1%) .  
 1.13 ,  
 (3.96 ) , (2.54 ) ,  
 (1.19 ) . 가 가 (1.90 ) , 가  
 (0.04 ) .  
 -10% 87% .  
 142%, 200% , 275%  
 895% . 1.65 5.30  
 4.95 .

4-6.

		( )			
		0.78	5.00	10.08	3.09
		(5.51)	0.00	0.00	0.00
		(0.21)	0.61	1.13	0.63
		1.14	0.97	1.40	0.56
		(0.19)	0.00	0.50	0.03
		(0.88)	0.00	0.31	0.02
		(0.53)		0.40	0.03
		0.49		0.13	0.01
		0.12	0.00	4.82	2.22
		0.07	0.00	3.11	1.72
		0.10		3.96	1.97
		0.03		1.21	0.35
		0.09	5.00	0.81	0.39
		(0.49)	0.38	0.40	0.08
( )		(0.20)	2.13	0.56	0.23
		0.23	2.51	0.16	0.13

				( )	
		0.22	0.00	1.61	0.47
		0.03	0.00	0.59	0.00
		0.10		0.98	0.20
		0.08		0.45	0.20
( )		0.22	0.00	1.61	0.47
		0.03	0.00	0.59	0.00
		0.10		0.98	0.20
		0.08		0.45	0.20
( )		0.78	0.90	0.49	0.38
		(0.12)	0.35	0.40	0.15
		0.20	0.57	0.45	0.26
		0.40	0.29	0.04	0.10
		0.56	1.54	2.13	2.05
		(4.44)	0.00	0.57	0.13
		(0.64)	0.49	1.19	0.7
		1.71	0.73	0.65	0.65
		0.69	3.50	2.79	2.06
		(1.29)	0.00	0.04	0.06
		(0.09)	0.58	0.99	0.75
		0.67	1.05	0.68	0.54
		0.71	3.10	10.08	3.09
		(5.51)	0.08	0.00	0.00
		(0.32)	0.45	1.19	0.72
		1.59	0.70	1.90	0.60
		0.34	0.50	4.62	1.11
		0.01	0.35	1.57	0.60
		0.22	0.45	2.54	0.85
		0.12	0.08	1.30	0.21
		(0.23)	0.88	0.37	0.56
		(0.23)	0.88	0.00	0.31
		(0.23)	0.88	0.12	0.45
				0.21	0.13
		0.91	8.57	32.34	55.45
		(3.51)	0.00	0.04	0.00
		(0.10)	1.42	1.65	2.75
		0.87	2.00	4.95	8.95

2)

가)

4-7 , ,  
 . , , , ,  
 ,  
 4.23 . 가  
 (8.24 ) , (7.31 ) , (5.53 ) , 가가  
 (3.69 ) . 가 ,  
 9.77 , 가 0.34 .  
 가가 (2.78 ) , 가  
 (0.00 ) .  
 6.21 ,  
 (9.50 ) (6.81 ) , 가 (3.50 )  
 . 가 25 , 가  
 , 1 .  
 가가 (7.05 ) ,  
 가가 (0 ) .  
 3.62 6.76 . 가  
 4.99 , 가 0.38 . 가  
 27 , 가 1 .

4-7. ( : , )

		9.77	7.31	8.55	9.77	7.93	9.77	7.93	7.93	4.99	7.93
		0.34	7.31	7.93	0.34	1.85	0.41	0.51	0.55	0.38	0.50
		4.23	7.31	8.24	4.39	3.55	4.05	5.53	3.69	3.62	2.13
		2.75	0.00	0.44	2.78	1.94	3.13	2.45	2.40	1.66	1.56
		25.00	6.00	6.00	15.00	9.00	20.00	25.00	12.00	27.00	20.00
		1.00	6.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00
		6.21	6.00	3.50	5.41	6.00	6.81	9.50	6.06	6.26	7.72
		4.21	0.00	3.54	3.87	3.56	4.71	7.05	3.15	4.67	4.11

2.13 7.72 .  
 가 7.93 , 가 0.50 . 가  
 20 , 가 1 .

)

	4 - 8	.
	34,147.63	.
	(134,312.50 ),	(60,483.87 )
, 가	(5,000.00 )	.
	가 가	
(1,300,000.00 ) ,	가가	(2,500.00 ) .
	59,344.84	.
	(130,300.00 ),	
(103,500.00 ) ,	가	(19,945.00 )
.	가가	(375,950.00 )
, 가	(1,000.00 )	.
	75% ,	(94%),
(85%)	.	
	29,617.64	56,458.15
.	가가 228,538.00	, 가 0
.	가가 152,700.00	, 가
600.00	.	
	35,725.19	34,040.74
.	가가 376,600.00	, 가 0
.	가가 214,000.00	, 가
600.00	.	

4-8.

( : )

		1,300,000.00	1.00	380,000.00	1.00
		0.00	0.00	1,800.00	0.00
		34,147.63	0.25	59,344.84	0.75
		140,681.57	0.24	58,994.20	0.24
		7,500.00	0.07	104,000.00	0.95
		5,000.00	0.05	103,000.00	0.93
		6,250.00	0.06	103,500.00	0.94
		1,767.7	0.02	707.11	0.02
		20,000.00	0.49	226,800.00	1.00
		0.00	0.00	21,000.00	0.51
		11,666.67	0.18	130,300.00	0.82
		10,408.33	0.27	103,495.36	0.27
		70,809.00	0.68	236,000.00	1.00
		0.00	0.00	1,800.00	0.32
		13,781.88	0.21	62,108.71	0.79
		16,937.87	0.18	52,279.4	0.18
		955,000.00	0.97	45,000.00	1.00
		0.00	0.00	6,000.00	0.03
		134,312.50	0.27	19,945.00	0.73
		333,561.19	0.37	12,537.20	0.37
		1,300,000.00	0.98	380,000.00	1.00
		0.00	0.00	4,050.00	0.02
		60,483.87	0.30	70,435.10	0.70
		231,906.33	0.27	85,003.29	0.27
		30,000.00	0.38	93,660.00	1.00
		0.00	0.00	8,000.00	0.63
		13,222.22	0.15	49,473.33	0.85
		12,966.57	0.16	33,582.41	0.16
		162,000.00	1.00	150,000.00	1.00
		0.00	0.00	3,200.00	0.00
		21,625.00	0.30	49,223.43	0.70
		31,820.79	0.26	37,507.59	0.26
		208,538.00	1.00	152,700.00	1.00
		0.00	0.00	600.00	0.00
		29,617.64	0.31	56,458.15	0.69
		57,527.59	0.31	46,180.79	0.31
		376,600.00	0.93	214,000.00	1.00
		0.00	0.00	600.00	0.07
		35,725.19	0.29	34,040.4	0.71
		86,898.71	0.27	41,194.26	0.27

4-9				
.		17,118.70	.	
)	(18,333.33 ) ,		(27,730.95 ) ,	(19,874.19
	(281,000.00 )		가 가	
(5,000.00 )	.		28,937.40	,
		가		
(80,000.00 )		(37,697.22 )	.	
가 가		(215,000.00 )	, 가	
(50,000.00 )		0	.	
			24,342.86	34,282.14
.		가 가	162,700.00	, 가 0
.		가 가	250,000.00	, 가
0	.			
			15,137.04	52,961.44
.		가 가	125,200.00	, 가 0
.		가 가	318,000.00	, 가
0	.			



4-9.

( : )

		281,000.00	1.00	215,000.00	1.00
		0.00	0.00	0.00	0.00
		17,118.70	0.36	28,937.40	0.64
		39,737.13	0.41	38,883.16	0.41
		13,000.00	0.14	80,000.00	0.91
		8,000.00	0.09	80,000.00	0.86
		10,500.00	0.12	80,000.00	0.88
		3,535.53	0.03	0.00	0.03
		40,000.00	0.38	175,000.00	0.92
		0.00	0.08	0.00	0.62
		18,333.33	0.23	80,000.00	0.77
		20,207.26	0.21	88,459.03	0.21
		281,000.00	1.00	104,000.00	1.00
		0.00	0.00	0.00	0.00
		27,730.95	0.43	22,885.71	0.57
		59,953.87	0.44	27,476.03	0.44
		0.00	0.00	80,000.00	1.00
		0.00	0.00	0.00	1.00
		0.00	0.00	19,000.00	1.00
		0.00	0.00	25,840.17	0.00
		130,000.00	1.00	130,000.00	1.00
		0.00	0.00	0.00	0.00
		19,87.19	0.44	25,887.10	0.56
		35,733.7	0.42	35,992.99	0.42
		30,000.00	1.00	50,000.00	1.00
		0.00	0.00	0.00	0.00
		8,750.00	0.52	13,111.11	0.48
		12,637.8	0.52	18,258.18	0.52
		55,000.00	1.00	215,000.00	1.00
		0.00	0.00	0.00	0.00
		8,527.78	0.27	37,697.22	0.73
		13,937.59	0.36	48,717.49	0.36
		162,700.00	1.00	250,000.00	1.00
		0.00	0.00	0.00	0.00
		24,342.86	0.27	34,282.14	0.73
		52,866.99	0.37	55,640.7	0.37
		125,200.00	1.00	318,000.00	1.00
		0.00	0.00	0.00	0.00
		15,137.04	0.36	52,961.4	0.64
		30,934.65	0.45	81,375.00	0.45

4 - 10

20,331.30 ,

가

(71,666.67 ),

(55,000.00 )

(25,644.44 )

가

가 (150,000.00 ) , 가 가

(50,000.00 )

4-10.

( : )

		150,000.00	1.00	98,000.00	1.00	50,000.00	1.00
		0.00	0.00	0.00	0.00	0.00	0.00
		20,331.30	0.70	7,449.62	0.26	1,156.49	0.04
		28,040.19	0.33	15,978.07	0.32	6,446.25	0.15
		80,000.00	1.00	0.00	0.00	50,000.00	0.63
		30,000.00	0.38	0.00	0.00	0.00	0.00
		55,000.00	0.69	0.00	0.00	25,000.00	0.31
		35,355.34	0.44	0.00	0.00	35,355.34	0.44
		150,000.00	1.00	25,000.00	0.14	0.00	0.00
		0.00	0.86	0.00	0.00	0.00	0.00
		71,666.67	0.93	8,333.33	0.07	0.00	0.00
		75,221.89	0.10	14,433.76	0.10	0.00	0.00
		104,000.00	1.00	50,000.00	1.00	2,000.00	0.14
		0.00	0.00	0.00	0.00	0.00	0.00
		17,695.24	0.76	5,142.86	0.24	47.62	0.01
		23,965.26	0.29	10,657.81	0.29	308.61	0.03
		80,000.00	1.00	18,000.00	0.67	5,000.00	1.00
		0.00	0.00	0.00	0.00	0.00	0.00
		14,625.00	0.61	3,125.00	0.18	1,250.00	0.21
		26,693.70	0.41	6,490.38	0.31	1,908.63	0.38
		80,000.00	1.00	50,000.00	1.00	50,000.00	0.50
		0.00	0.00	0.00	0.00	0.00	0.00
		15,806.45	0.60	7,532.26	0.32	2,543.39	0.07
		22,837.72	0.37	14,881.16	0.37	9,545.81	0.14
		50,000.00	1.00	20,000.00	1.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00
		7,222.22	0.36	5,888.89	0.64	0.00	0.00
		16,791.20	0.48	8,922.51	0.48	0.00	0.00

( : )

		117,000.00	1.00	98,000.00	0.91	10,000.00	0.13
		0.00	0.09	0.00	0.00	0.00	0.00
		25,644.44	0.77	11,761.11	0.22	291.67	0.01
		28,858.51	0.28	23,520.21	0.27	1,666.37	0.03
		107,000.00	1.00	143,000.00	1.00	1,000.00	1.00
		0.00	0.00	0.00	0.00	0.00	0.00
		21,032.14	0.62	13,214.29	0.33	35.71	0.05
		27,809.52	0.36	31,304.19	0.34	188.98	0.22
		250,000.00	1.00	118,000.00	1.00	20,000.00	1.00
		0.00	0.00	0.00	0.00	0.00	0.00
		29,680.37	0.40	21,836.63	0.42	1,500.00	0.18
		58,857.8	0.36	34,740.41	0.37	4,365.78	0.36

7,449.62 ,  
(11,761.11 ) ,

(8,333.33 ) .

가 가 (98,000.00 ) , 가  
(18,000.00 ) 0 .

21,032.14 13,214.29  
가 107,000.00 , 가 0 .  
가 143,000.00 , 가 0 .  
29,680.37 21,836.63  
가 250,000.00 , 가 0 .  
가 118,000.00 , 가 0 .

)

4-11 , ,  
51,292.21 ,  
(115,731.33 ),  
(67,066.09 ) (53,189.50 ) .  
가 가 (299,073.00 ) , 가  
(21,933.00 ) .  
33,016.37 ,  
(115,745.27 ), (42,750.00  
) (38,409.86 ) .  
가 가 (175,310.00 ) , 가  
(10,348.00 ) .  
16,318.12 ,  
(25,675.52 ) .  
가 가 (241,800.00 ) , 가  
(3,226.00 ) .  
72,655.20 32,389.37 ,  
37,760.48 . 162,790.42  
80,498.90 , 111,912.02 .  
가 558,512.00 , 가 -14,162.00 .

4-11.

( : )

		300,000.00	175,933.00	212,575.00
		535.00	623.00	(93,120.00)
		51,292.21	33,016.37	16,318.12
		62,751.62	39,779.43	39,161.14
		65,834.00	65,550.00	3,510.00
		23,460.00	19,950.00	284.00
		44,647.00	42,750.00	1,897.00
		29,962.94	32,244.07	2,281.13
		163,437.00	165,099.00	34,330.20
		53,500.00	19,169.80	(32,710.00)
		115,731.33	115,745.27	(13.93)
		56,389.56	83,643.60	33,550.47
		260,000.00	175,933.00	183,965.00
		535.00	623.00	(41,408.00)
		67,066.09	38,409.86	25,675.52
		67,805.09	39,358.29	46,050.61
		23,933.00	15,168.00	12,200.00
		2,000.00	4,820.00	(2,820.00)
		12,214.83	7,966.03	4,248.80
		9,056.43	3,764.16	6,259.33
		238,975.00	151,120.00	90,695.00
		750.00	3,476.00	(93,120.00)
		40,153.33	28,306.42	11,846.92
		57,677.99	38,987.76	35,593.21
		207,938.00	148,614.00	59,324.00
		2,000.00	3,000.00	(3,663.00)
		53,189.50	35,614.71	9,976.29
		79,112.22	52,509.14	22,506.03
		300,000.00	101,786.00	212,575.00
		927.00	1,105.00	(29,225.00)
		43,181.88	26,650.13	14,064.21
		59,951.45	29,341.61	39,436.22
		562,664.00	323,595.00	558,512.00
		200.00	999.00	(14,162.00)
		72,655.20	32,389.37	37,760.8
		162,790.42	80,498.90	111,912.02
		84,418.00	55,715.20	28,702.80
		4,000.00	1,575.00	(12,945.00)
		23,316.80	16,098.19	7,218.62
		18,463.65	15,501.88	10,353.22

			23,316.8	16098.19	,
	7,218.62	.		18,463.65	
15,501.88	,		10,353.22	.	
가	28,702.80	,	가	-12,945.00	.
4-12					,
	가	,		.	
	16,133.17	,			
(52,358.00	)	,	(24,250.00	)	,
				(18,594.35	)
.			가	가	
(90,593.00	)	,	가	(2578	)
					.
		10,695.19	,		
	(44,720.00	)	,	(20,891.67	)
(12,500.00	)	.		가	가
	(88,950.00	)	,	가	(4,800.00
				)	.
				1,524.99	,
870.00	.			128.45	
	가	3,820.15	,	가	
	(12,764.00	)	,	(4,875.00	)
	가			.	가
	가			(45,996.00	)
	(150.00	)	.		,
			8,668.76	17,439.31	,
가	3,606.86	.		12,486.01	
61,684.57	,	가	4,654.06	.	
가가	50,640.00	,	가	125.00	.
			9,353.58	4,820.00	,
가	1,539.25	.		10,561.56	
7,900.94	,	가	934.53	.	가
가	36,100.00	,	가	875.00	.

												가	
		91,723.00	1.00	90,400.00	0.86	11,359.00	0.28	2,400.00	0.05	10,600.00	0.48	45,996.00	1.00
		155.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		16,133.17	0.53	10,695.19	0.24	1,524.99	0.04	128.45	0.01	870.00	0.03	3,820.15	0.16
		18,259.42	0.23	17,957.18	0.21	2,276.20	0.05	342.91	0.01	1,804.76	0.06	7,133.56	0.18
		36,400.00	0.61	22,000.00	0.34	900.00	0.01	100.00	0.00	1,200.00	0.02	4,950.00	0.24
		12,100.00	0.56	3,000.00	0.15	0.00	0.00	50.00	0.00	0.00	0.00	4,800.00	0.08
		24,250.00	0.58	12,500.00	0.24	450.00	0.01	75.00	0.00	600.00	0.01	4,875.00	0.16
		17,182.69	0.04	13,435.03	0.13	636.40	0.01	35.36	0.00	848.53	0.01	106.07	0.12
		91,723.00	0.56	74,700.00	0.45	7,095.00	0.13	600.00	0.03	2,391.00	0.09	16,332.00	0.56
		1,130.00	0.06	2,400.00	0.13	2,439.80	0.02	0.00	0.00	0.00	0.00	10,800.00	0.07
		52,358.00	0.34	44,720.00	0.31	4,186.27	0.06	320.00	0.01	1,397.00	0.04	12,764.00	0.24
		46,446.97	0.26	37,696.54	0.17	2,535.92	0.06	301.99	0.02	1,245.40	0.05	3,095.22	0.28
		58,160.00	1.00	71,500.00	0.65	10,000.00	0.28	1,500.00	0.03	10,600.00	0.20	43,517.00	0.70
		299.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		18,594.35	0.55	11,897.33	0.24	2,282.27	0.06	98.91	0.00	1,439.04	0.03	4,067.17	0.12
		15,938.30	0.21	17,100.23	0.21	2,719.18	0.06	313.25	0.01	2,734.60	0.05	8,924.47	0.13
		4,668.00	0.66	6,000.00	0.40	240.00	0.05	50.00	0.01	200.00	0.03	3,500.00	0.31
		2,090.00	0.31	1,200.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	180.00	0.03
		3,244.20	0.44	2,833.33	0.34	53.00	0.01	13.33	0.00	96.67	0.02	1,558.83	0.18
		860.32	0.12	1,699.02	0.06	96.78	0.02	18.62	0.00	81.65	0.01	1,211.71	0.09
		76,000.00	0.97	70,000.00	0.76	11,359.00	0.26	1,000.00	0.02	4,275.00	0.48	19,000.00	0.36
		1,100.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		13,735.01	0.56	9,751.97	0.22	1,172.83	0.05	38.70	0.00	567.05	0.04	3,013.60	0.13
		17,109.28	0.24	18,319.53	0.24	2,194.35	0.07	173.13	0.00	1,146.25	0.10	4,363.94	0.09
		53,450.00	0.56	90,400.00	0.61	2,839.00	0.07	0.00	0.00	1,500.00	0.04	4,764.00	1.00
		2,850.00	0.36	1,450.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	720.00	0.03
		15,911.17	0.45	20,891.67	0.36	903.17	0.02	0.00	0.00	540.00	0.02	2,832.43	0.27
		19,565.70	0.08	34,711.37	0.14	1,401.57	0.03	0.00	0.00	744.26	0.01	1,645.58	0.34
		74,415.00	1.00	37,200.00	0.86	6,200.00	0.11	2,400.00	0.05	2,800.00	0.14	45,996.00	0.81
		155.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		13,908.72	0.51	6,619.14	0.22	1,075.65	0.03	279.43	0.01	583.43	0.03	4,021.33	0.19
		17,351.13	0.26	10,544.17	0.21	1,626.65	0.03	494.36	0.02	702.41	0.03	7,958.6	0.24
		50,640.00	1.00	240,000.00	0.96	25,125.00	0.36	3,600.00	0.07	2,400.00	0.05	18,625.00	0.84
		125.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		8,668.76	0.51	17,439.31	0.15	2,130.99	0.04	255.52	0.01	224.14	0.00	3,606.86	0.29
		12,486.01	0.29	61,684.57	0.27	6,321.81	0.07	849.67	0.02	629.29	0.01	4,654.06	0.24
		36,100.00	0.99	28,800.00	0.60	1,100.00	0.08	100.00	0.01	500.00	0.02	3,200.00	0.71
		875.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	310.00	0.01
		9,353.58	0.58	4,820.00	0.20	139.50	0.02	10.86	0.00	25.00	0.00	1,539.25	0.19
		10,561.56	0.22	7,900.94	0.25	282.68	0.03	22.33	0.00	111.80	0.00	934.53	0.18

4-13

(13%) (8%) (13%), -14%

(15%) (878%) , 가

112% , (129%) . (38%)

(150%) (567%) , 가

0%

82% , (92%) (84%) .

가 가 (556%) , 가

(458%) .

1.08 , (1.42 ) (1.28 ) .

가 가 (7.72 ) , 가

(0.41 ) .

-5% 2.05 ,

159% 4.71 .

가 99% , 가 -748% .

949% 129% , 2,629%

223% .

33% 1.26 ,

40% 1.69 .

가 91% , 가 -50% .

97% 196% , 267% 286%



4-13.

( : )

		( )			
		0.85	5.67	7.72	5.61
		(7.98)	0.00	0.00	0.00
		(0.14)	1.12	1.08	0.82
		1.57	1.42	1.29	0.99
		0.15	0.94	0.63	0.85
		0.00	0.38	0.23	0.80
		0.08	0.66	0.43	0.82
		0.10	0.39	0.29	0.04
		0.64	0.38	2.55	1.33
		(0.25)	0.00	0.57	0.00
		0.13	0.19	1.42	0.59
		0.46	0.27	1.02	0.68
		0.85	5.60	4.87	5.61
		(6.91)	0.00	0.00	0.05
		0.13	1.50	1.28	0.82
		1.16	1.59	1.20	0.97
		0.61	0.00	0.93	3.25
		(1.41)	0.00	0.00	0.00
		(0.02)		0.41	0.92
		0.7		0.33	1.06
		0.77	2.50	7.72	4.58
		(6.16)	0.00	0.00	0.00
		(0.33)	0.75	1.19	0.84
		1.86	0.80	1.63	1.14
		0.29	0.67	2.22	1.42
		(1.83)	0.00	0.00	0.00
		(0.29)	0.27	0.58	0.40
		0.81	0.37	0.71	0.42
		0.79	5.67	6.21	5.00
		(7.98)	0.00	0.00	0.00
		(0.34)	1.29	1.02	0.89
		2.00	1.77	1.31	1.04
		0.99	100.00	20.46	11.00
		(7.48)	0.00	0.00	0.00
		(0.05)	9.49	2.05	1.29
		1.59	26.29	4.71	2.23
		0.91	9.42	6.67	13.23
		(0.50)	0.00	0.00	0.00
		0.33	0.97	1.26	1.96
		0.40	2.67	1.69	2.86

) 가 가  
 4-14 가 ,  
 , 가  
 59,346.40 , 가 가  
 (116,731.33 ) (76241.75 )  
 (75,666.46 ) 가 가가  
 (786,705.00 ) , 가  
 (23,933.00 ) .

4-14. 가 ( : )

		787,240.00	82,050.00
		0.00	0.00
		59,346.40	6,783.82
		85,938.37	15,808.66
		65,834.00	82,050.00
		23,460.00	29,050.00
		44,647.00	55,550.00
		29,962.94	37,476.66
		163,437.00	0.00
		56,500.00	0.00
		116,731.33	0.00
		54,736.53	0.00
		787,240.00	81,585.00
		535.00	0.00
		76,241.75	5,051.16
		130,447.45	13,755.97
		23,933.00	19,000.00
		0.00	0.00
		8,710.03	9,018.75
		8,867.43	8,200.00
		238,975.00	63,508.00
		1,000.00	0.00
		47,465.78	6,569.09
		56,771.64	13,711.94
		207,938.00	80,000.00
		5,000.00	0.00
		67,704.00	9,500.00
		75,666.4	26,464.60

		가 ( : )	
		300,000.00	58,800.00
		3,775.00	0.00
		57,930.68	5,530.73
		57,651.97	13,571.02
		523,452.00	26,725.00
		8,110.00	0.00
		81,975.03	4,826.96
		137,307.07	6,303.75
		81,173.00	81,600.00
		3,000.00	0.00
		23,252.23	7,684.00
		20,371.07	17,386.67

가 6,783.812 ,

가 (55,550.00 ) , 가 (9,500.00 ) , 가 (9,018.75 )

가 (81,585.00 ) , 가 (19,000.00 )

0 .

4-15 가 , , 가 ,

28,677.92 , 가 (128,726.60 ) , 가 (36,727.78 ) ,

(29,075.35 ) . 가 가 (6,160.00 )

(167,241.20 ) , 가

0 .

가 1,111.22 ,

가 (1,744.44 ) , 가 (1,504.05 ) d (1,481.25 ) .

가 가 (50,000.00

) , 가 (1,300.00 ) 0 .

가 8,919.01 , 가 가  
 가 (18,333.33 ),  
 (10,444.08 ) (9,388.89 ) . 가  
 가가 (30,500.00 ) , 가가  
 (10,900.00 ) 0 .  
 , 55,113.25 3,664.81  
 , 98,706.38 5,946.25 .  
 가 325,095.00 .  
 , 12,381.52 19,653.20  
 , 18,633.67 91,173.24 .  
 가 95,000.00 .

4-15. 가 ( : )

		186,411.00	50,000.00	30,500.00
		0.00	0.00	0.00
		28,67.92	1,111.22	8,919.01
		37,618.25	4,810.29	9,276.58
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
		186,411.00	1,300.00	30,500.00
		19,169.80	0.00	0.00
		128,726.60	433.33	18,333.33
		94,923.4	750.56	16,158.07
		123,897.4	11,300.00	29,500.00
		0.00	0.00	0.00
		29,075.35	972.37	10,444.08
		32,365.57	2,595.65	10,038.70

4-15.

가

( : )

		6,160.00	3,750.00	10,900.00
		0.00	0.00	0.00
		3,031.65	1,481.25	5,181.25
		2,708.36	1,746.00	4,533.91
		151,859.00	9,600.00	25,300.00
		1,210.00	0.00	0.00
		25,807.21	709.41	8,566.91
		37,151.73	1,744.81	7,909.85
		164,514.00	14,500.00	25,700.00
		3,530.00	0.00	0.00
		36,727.78	1,744.44	9,388.89
		50,090.12	4,790.38	10,501.8
		99,733.00	50,000.00	24,000.00
		0.00	0.00	0.00
		27,932.88	1,504.05	8,088.92
		25,652.61	8,218.83	9,411.26
		325,095.00	22,500.00	384,000.00
		3,200.00	0.00	0.00
		55,113.25	3,664.81	29,822.22
		98,706.38	5,946.25	89,494.88
		95,000.00	456,900.00	20,000.00
		875.00	0.00	0.00
		12,381.52	19,653.20	7,464.40
		18,633.67	91,173.24	6,832.94

3)

가)

4-16

4-16

6.67 0.00  
 5.50 , (9.00 )  
 , 가 (4.33 ) . 가가  
 (0.00 ) , 가가 (2.52 ) .  
 가 9.00 , 가  
 2.00 .

4-16.

( : , )

		6.67	0.00	0.00	6.67	0.00	0.00	0.00
		6.67	0.00	0.00	6.67	0.00	0.00	0.00
		6.67	-	-	6.67	-	-	-
		0.00	-	-	0.00	-	-	-
		9.00	7.00	0.00	9.00	0.00	0.00	0.00
		2.00	2.00	0.00	9.00	0.00	0.00	0.00
		5.50	4.33	-	9.00	-	-	-
		3.11	2.52	-	0.00	-	-	-

)

4-17

31.44ha ,  
 (51.70ha) (49.53ha), (33.67ha) . 가  
 가 (3.38ha) , 가 가  
 (49.32ha) .

75,309,124.00 ,  
 (167,400,000.00) . 가가  
 (0.00 ) , 가 가  
 (288,040,066.66) .

124.44 ,  
 (237.50 ) . 가 가 (7.12 ) ,  
 가가 (99.04 ) .

81.04 (56.7%), 57.82 (40.5%), 4.00 (2.8%) .  
 (100%), (93.2%), (81.1%), (56.8%)  
 10.2% .

4-17.

( : ha, , )

		130.00	500,000,000.00	389.00	458.00	198.00	43.2%	247.00	53.9%	13.00	2.8%
		2.20	1,000,000.00	10.00	10.00	6.00	60.0%	3.00	30.0%	1.00	10.0%
		31.44	75,309,124.00	124.44	142.85	81.04	56.7%	57.82	40.5%	4.00	2.8%
		31.59	153,357,603.88	107.63	134.28	53.96	40.2%	74.33	55.4%	6.00	4.5%
		98.00	500,000,000.00	115.00	119.00	115.00	96.6%	3.00	2.5%	1.00	0.8%
		30.00	1,000,000.00	10.00	10.00	6.00	60.0%	3.00	30.0%	1.00	10.0%
		51.70	167,400,000.00	56.25	58.75	54.75	93.2%	3.00	5.1%	1.00	1.7%
		27.84	288,040,066.66	46.44	48.15	48.15	100.0%	0.00	0.0%	0.00	0.0%
		130.00	-	50.00	116.00	78.00	67.2%	25.00	21.6%	13.00	11.2%
		2.20	-	30.00	41.00	20.00	48.8%	20.00	48.8%	1.00	2.4%
		49.53	-	40.33	68.33	38.83	56.8%	22.50	32.9%	7.00	10.2%
		49.32	-	7.12	32.81	20.79	63.4%	3.54	10.8%	8.49	25.9%
		78.00	102,000,000.00	184.00	184.00	184.00	100.0%	0.00	0.0%	0.00	0.0%
		5.00	6,687,240.00	50.00	50.00	50.00	100.0%	0.00	0.0%	0.00	0.0%
		33.67	48,872,810.00	106.40	98.50	98.50	100.0%	0.00	0.0%	0.00	0.0%
		27.63	49,466,511.79	52.60	50.87	50.87	100.0%	0.00	0.0%	0.00	0.0%
		10.00	-	345.00	128.00	108.00	84.4%	20.00	15.6%	0.00	0.0%
		3.50	-	105.00	73.00	58.00	79.5%	15.00	20.5%	0.00	0.0%
		7.13	-	237.50	96.83	78.50	81.1%	18.33	18.9%	0.00	0.0%
		3.38	-	99.04	27.67	24.79	89.6%	2.89	10.4%	0.00	0.0%
		24.50	9,700,000.00	389.00	445.00	198.00	44.5%	247.00	55.5%	0.00	0.0%
		6.00	9,700,000.00	242.00	185.00	110.00	59.5%	75.00	40.5%	0.00	0.0%
		16.50	9,700,000.00	286.75	294.50	162.00	55.0%	132.50	45.0%	0.00	0.0%
		9.46	0.00	69.67	124.66	43.57	35.0%	81.08	65.0%	0.00	0.0%
		24.85	36,000,000.00	130.00	130.00	130.00	100.0%	0.00	0.0%	0.00	0.0%
		9.00	36,000,000.00	30.00	30.00	30.00	100.0%	0.00	0.0%	0.00	0.0%
		14.88	36,000,000.00	66.00	66.00	66.00	100.0%	0.00	0.0%	0.00	0.0%
		7.36	0.00	46.85	46.85	46.85	100.0%	0.00	0.0%	0.00	0.0%



4-18

17 (43.6%), 10 (25.6%), 8 (20.5%), 1  
 (2.6%), 3 (7.7%) .  
 (100.0%)  
 (100.0%) (36.4%) .  
 (27.3%), (25.0%), (25.0%),  
 (25.0%) , (12.5%) .

4-18.

( : )

	39	17	43.6%	10	25.6%	8	20.5%	1	2.6%	3	7.7%
	11	4	36.4%	4	36.4%	3	27.3%	0	0.0%	0	25.0%
	8	0	0.0%	4	50.0%	2	25.0%	0	0.0%	2	25.0%
	8	3	37.5%	1	12.5%	2	25.0%	1	12.5%	1	12.5%
	4	4	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	4	4	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	4	2	50.0%	1	25.0%	1	25.0%	0	0.0%	0	0.0%

)

4-19

15,537.93

(22,250.00 ) (16,250.00) ,

가 (400.00 ) .

가 (46,460.33 )

, 가 (547.72 ) .

28,962.07

(102,500.00 ) ,

(46,166.67 ) , 가 (0.00 ) .

가 (131,874.94 ) , 가 (0.00 ) .

49% .

4-19.

( : )

		98,500.00	1.00	300,000.00	1.00
		0.00	0.00	0.00	0.00
		15,537.93	0.51	28,962.07	0.49
		21,980.18	0.38	61,117.62	0.38
		1,000.00	0.38	1,600.00	0.62
		0.00	0.38	0.00	0.62
		400.00	0.38	640.00	0.62
		547.72	0.00	876.36	0.00
		60,000.00	1.00	150,000.00	1.00
		0.00	0.00	0.00	0.00
		11,850.00	0.38	46,166.67	0.62
		23,75.29	0.49	59,87.86	0.49
		30,000.00	1.00	34,500.00	0.55
		0.00	0.45	0.00	0.00
		14,833.33	0.72	10,783.33	0.28
		14,972.20	0.30	16,688.97	0.30

( : )

		25,000.00	0.62	30,000.00	0.55
		20,000.00	0.45	15,000.00	0.38
		22,250.00	0.52	21,250.00	0.48
		2,629.96	0.07	6,291.53	0.07
		25,000.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		16,250.00	1.00	0.00	0.00
		11,086.78	0.00	0.00	0.00
		98,500.00	0.55	300,000.00	1.00
		0.00	0.00	30,000.00	0.45
		33,625.00	0.20	102,500.00	0.80
		46,460.33	0.26	131,879.94	0.26

4 - 20

가 (67,082.04 ) , 가가 , 가  
(0.00 ) . 5,241.38 (30,000.00 ) 가

4-20.

( : )

		150,000.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		5,241.38	1.00	0.00	0.00
		27,843.51	0.00	0.00	0.00
		150,000.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		30,000.00	1.00	0.00	0.00
		67,082.04	-	0.00	-
		0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
		0.00	-	0.00	-
		0.00	-	0.00	-
		2,000.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		333.33	1.00	0.00	0.00
		816.50	-	0.00	-
		0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
		0.00	-	0.00	-
		0.00	-	0.00	-
		0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
		0.00	-	0.00	-
		0.00	-	0.00	-

)

4-21

98,299.14  
 (250,010.25 ), (131,694.00 ), (112,770.00  
 ) , 가 (19,925.00 ) .  
 가 가 (317,036.53 ) , 가  
 (34,053.28 ) .

4-21.

( : )

		716,625.00	61,650.00	662,036.76
		0.00	0.00	(10,220.00)
		98,299.14	9,955.86	88,343.27
		182,058.28	14,300.53	176,276.38
		110,000.00	23,200.00	28,800.00
		20,000.00	3,020.00	0.00
		42,740.00	10,610.00	8,340.00
		37,917.12	8,185.67	12,240.42
		381,000.00	11,400.00	381,000.00
		5,020.00	0.00	550.00
		112,700.00	3,986.67	108,783.33
		141,971.93	4,886.36	144,358.99
		668,724.00	7,048.80	662,036.76
		0.00	0.00	0.00
		131,694.00	4,300.34	127,393.66
		264,130.62	2,610.70	262,807.11
		73,500.00	39,000.00	34,500.00
		2,250.00	170.00	1,980.00
		22,612.50	10,197.50	12,415.00
		34,053.28	19,209.10	15,044.05
		79,700.00	13,350.00	66,350.00
		0.00	3,230.00	(10,220.00)
		19,925.00	8,437.50	11,487.50
		39,850.00	4,345.14	36,686.31
		716,625.00	61,650.00	654,975.00
		15,711.00	0.00	6,783.00
		250,010.25	27,852.00	222,158.25
		317,036.53	28,534.61	295,893.66

9,955.86 ,  
 (27,852.00 ), (10,610.00 ),  
 (10,197.50 ) . 가 가  
 (28,534.61 ) , 가 (2,610.70 ) .  
 88,343.27 ,  
 (222,158.25 ), (127,393.66 ), (108,783.33  
 ) . 가 가 (295,893.66 )  
 , 가 가 (12,240.42 ) .

4-22

가 , , , , ,  
 가 , , .  
 7,007.24 ,  
 (27,487.50 ), (9,370.00 ) .  
 가 가 (28,863.83 ) , 가 가  
 (1,011.97 ) .  
 2,050.34 ,  
 (7,800.00 ), (3,197.50 ), (2,178.33 ) .  
 가 가 (14,810.81 ) , 가  
 가 (0.00 ) .  
 , 288.30 ,  
 4.48 1.38 가 0.00 .

4-22.

( : )

												가	
		61,650.00	1.00	30,000.00	0.98	1,700.00	0.22	50.00	0.29	20.00	0.12	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		7,007.24	0.61	2,050.34	0.21	288.30	0.04	4.48	0.02	1.38	0.01	0.00	0.00
		13,420.8	0.39	5,812.71	0.35	510.36	0.06	13.78	0.07	5.16	0.03	0.00	0.00
		20,500.00	1.00	1,000.00	0.13	1,700.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
		3,000.00	0.71	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		9,370.00	0.89	480.00	0.05	760.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
		7,221.98	0.12	460.43	0.05	742.60	0.07	0.00	0.00	0.00	0.00	0.00	0.00
		10,500.00	0.92	7,850.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1,750.00	0.31	2,178.33	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		4,286.61	0.53	3,244.20	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5,000.00	1.00	0.00	0.00	244.80	0.05	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1,966.67	0.58	0.00	0.00	85.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00
		2,264.21	0.53	0.00	0.00	102.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00
		9,000.00	0.7	30,000.00	0.89	120.00	0.09	50.00	0.29	20.00	0.12	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		2,325.00	0.39	7,800.00	0.41	30.00	0.02	32.50	0.13	10.00	0.05	0.00	0.00
		4,450.75	0.34	14,810.81	0.48	60.00	0.04	23.63	0.14	11.55	0.06	0.00	0.00
		4,515.00	0.70	7,300.00	0.55	1,500.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
		2,255.00	0.34	0.00	0.00	385.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
		3,702.50	0.50	3,197.50	0.27	982.50	0.13	0.00	0.00	0.00	0.00	0.00	0.00
		1,011.97	0.18	3,765.37	0.31	461.35	0.06	0.00	0.00	0.00	0.00	0.00	0.00
		61,650.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		27,475.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		28,863.83	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4 - 23

72% ,  
(83%), (81%), (77%) .

0.00% .

12.92 ,  
(42.42 ) , (18.19 ) .

가가 (71.52 ) , 가 (3.98 ) .

4-23.

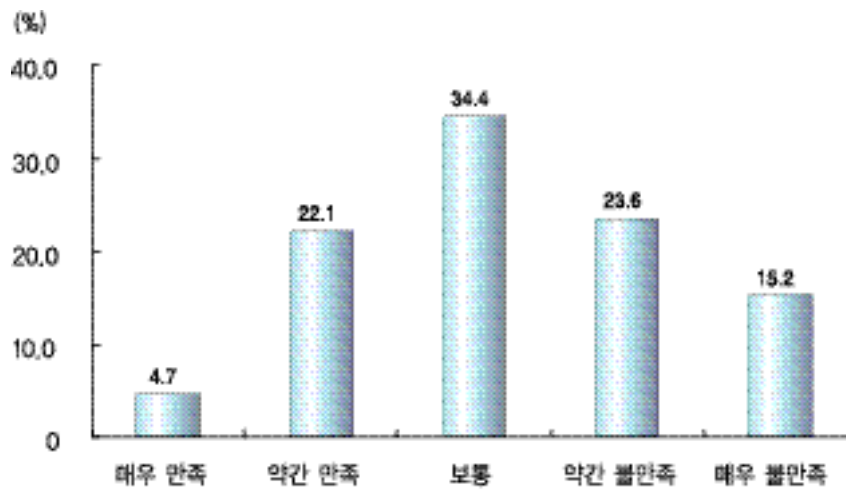
( : )

		( )			
		1.00	0.00	125.00	0.00
		0.09	0.00	0.00	0.00
		0.72	0.00	12.92	0.00
		0.30	0.00	29.98	0.00
		0.86	0.00	21.00	0.00
		0.00	0.00	15.38	0.00
		0.28	0.00	18.19	0.00
		0.37	0.00	3.98	0.00
		1.00	0.00	25.00	0.00
		0.09	0.00	0.56	0.00
		0.68	-	7.87	0.00
		0.45	-	11.57	0.00
		0.99	0.00	125.00	0.00
		0.50	0.00	0.00	0.00
		0.81	0.00	42.42	0.00
		0.19	0.00	71.52	0.00
		0.98	0.00	2.45	0.00
		0.47	0.00	0.11	0.00
		0.77	-	0.85	0.00
		0.22	-	1.08	0.00
		0.83	0.00	0.00	0.00
		0.83	0.00	0.00	0.00
		0.83	-	-	0.00
		0.00	-	-	0.00
		1.00	0.00	15.25	0.00
		0.43	0.00	0.34	0.00
		0.74	-	5.28	0.00
		0.27	-	6.99	0.00



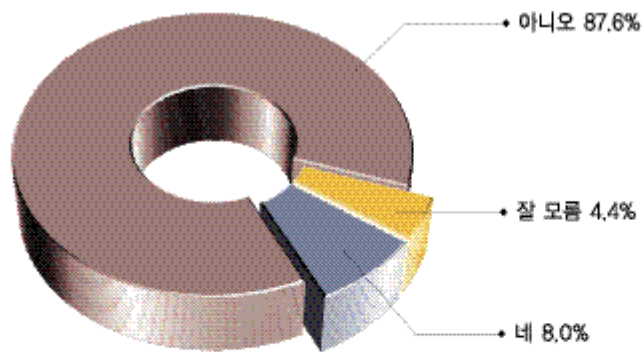
1)  
가)

4.7%, “ ” 22.1% “ ” 34.4% “ ”  
“ ” 23.6%, 15.2% 38.8%



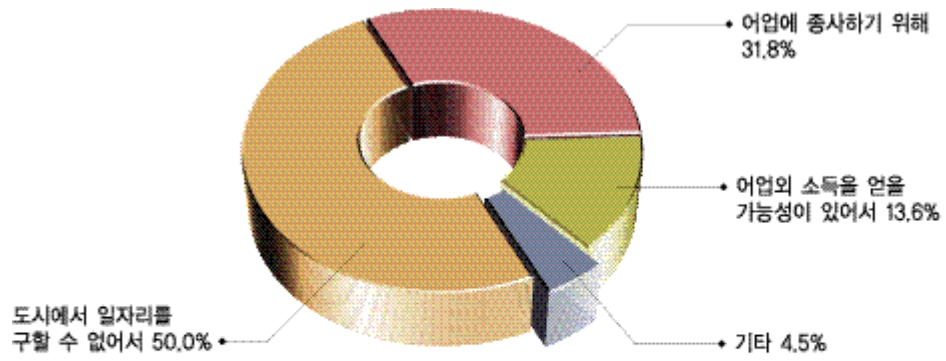
4-1.

가 , 20 ~ 40 가 가  
가 87.6%가 , 가  
8.0%



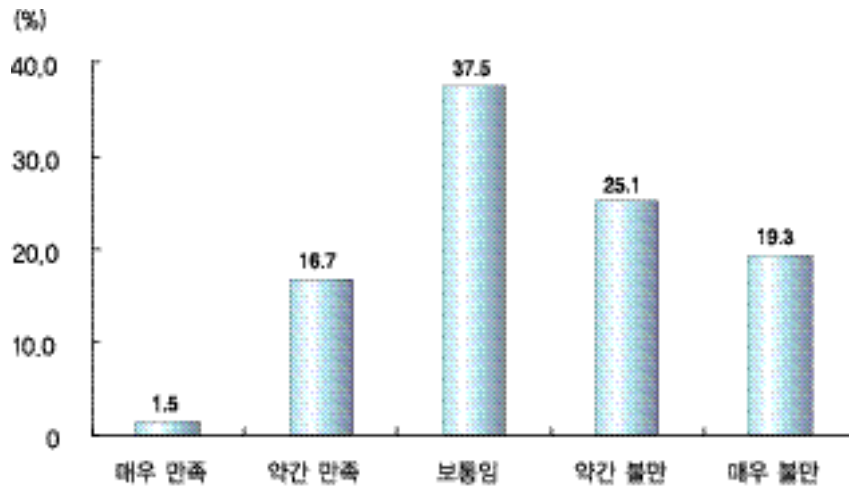
4-2. 가

가 , .  
 “ ”가 50.0% .  
 “ ”가 31.8% .  
 “ ”가 13.6% .  
 “ ”가



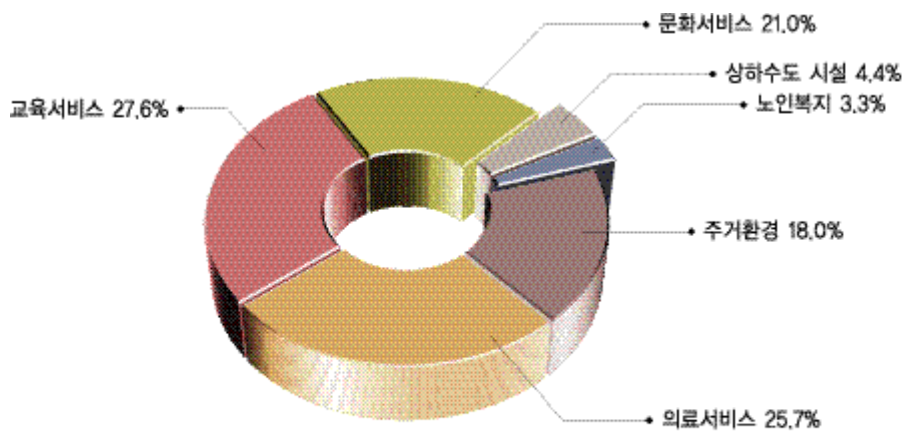
4-3. 가

가 가 ,  
 . 가 “ ”  
 ”가 37.5% 가 , “ ” “ ”  
 44.4% , 18.2% .  
 가



4-4.

가 . 가  
 “ ” 27.6% 가  
 , “ ” 25.7%, “ ” 21.0% . “ ”  
 18.0% 가 , “ ” “ ” 4.4%, 3.3%



4-5.

가 ,

)

5 가 , “ ”

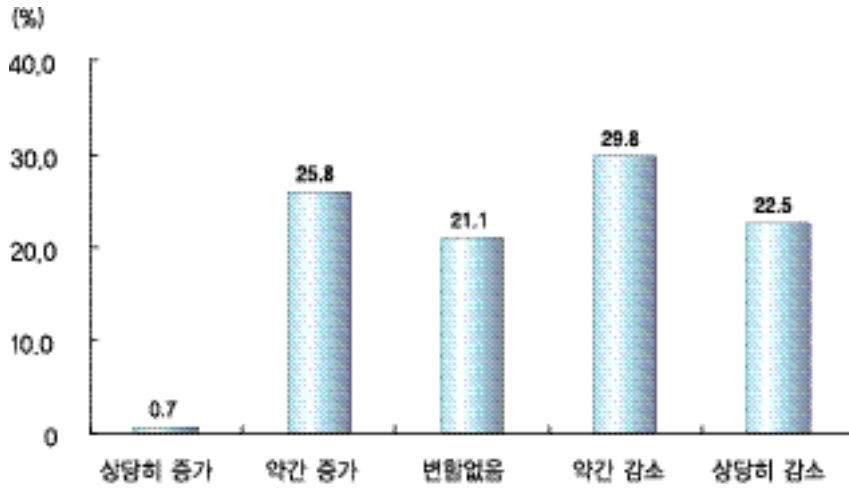
가 29.8% 가 “ 가 까 25.8% . “

”22.5%, “ ” 21.1%

5

52.3% , 가

26.5%

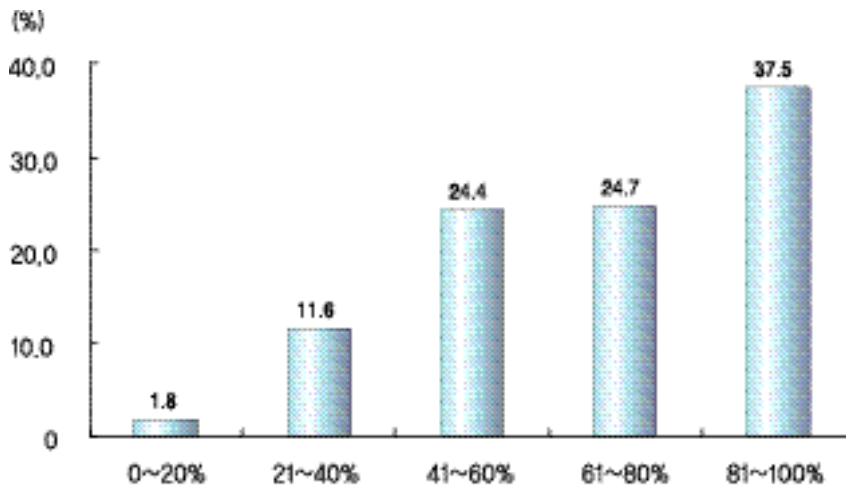


4-6. 5

37.5%가 “ 81~100% ”

“ 61~80% ” 24.7%, “ 41~60% ” 24.4% 가 ,

60%

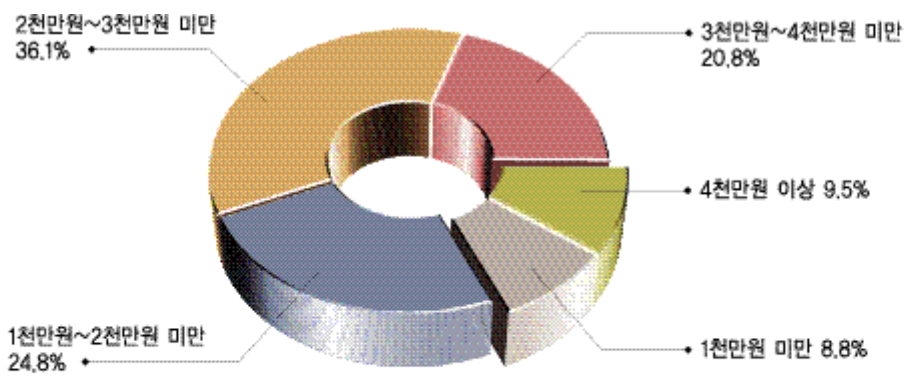


4-7.

EEZ

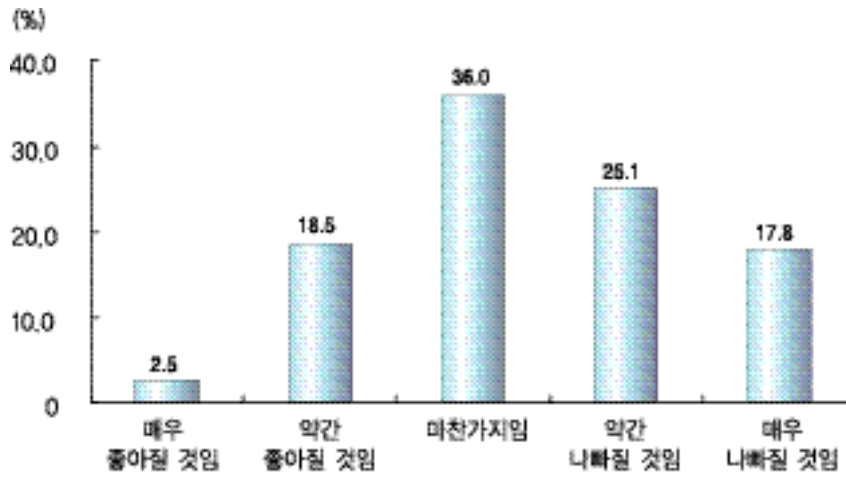
가

~3 ” 36.1% “1 ~2 ” 24.8% , “ 2  
 가



4-8.

5 가 36.0% , 가 “ 가 ”  
 “ 가 25.2% “ 가 ” 17.8%  
 , 42.9%  
 21.0% 가 , 5

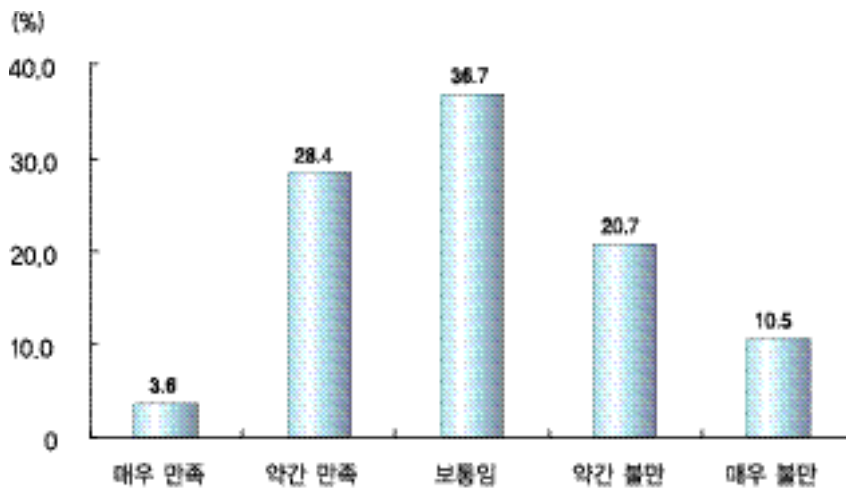


4-9. 5

36.7%

“ ”

32.0% 가 31.2% ,  
가

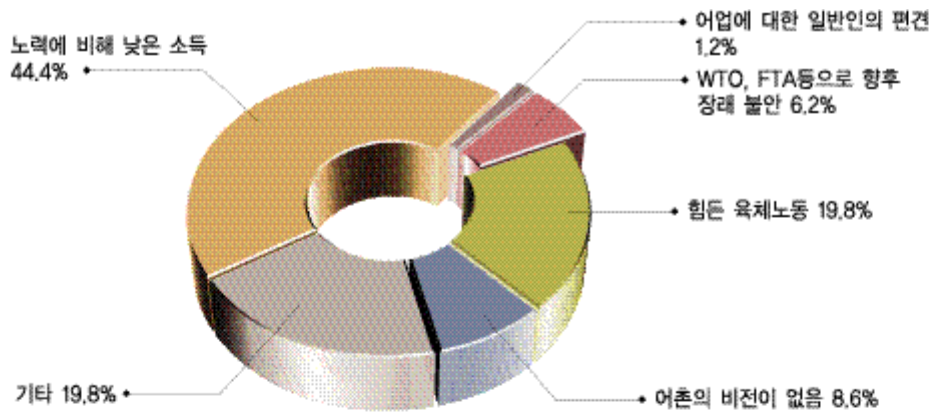


4-10.

“ ” 44.4% 가 “ ”

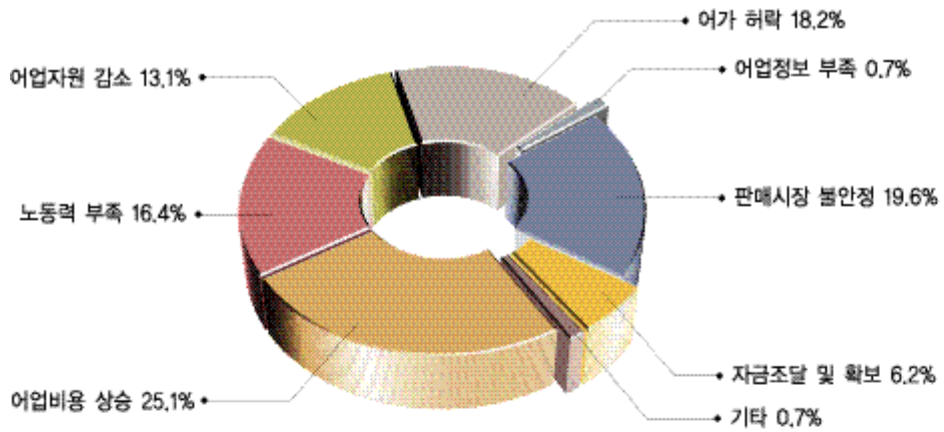
“ ” 가 19.8% , 3D

“ ” “WTO, FTA”  
가 ” 8.6%, 6.2% ,



4-11.

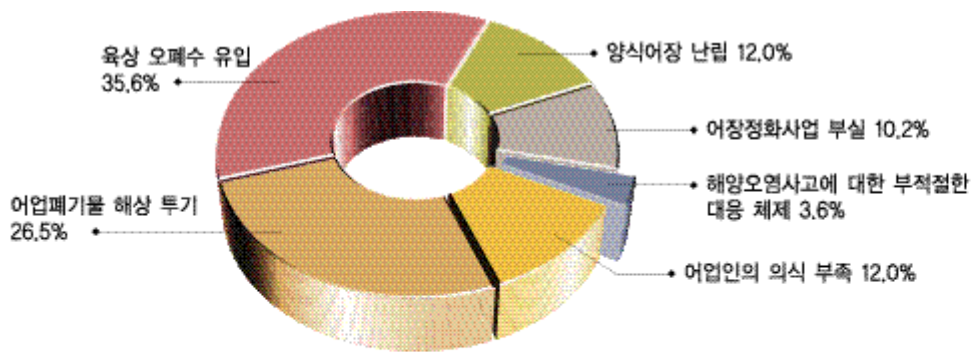
3 “ ” 25.1%가 “ ”  
 , “ ” 19.6% , “ 가 ” “  
 ” 18.2% 16.4% . 가 ,  
 가  
 ,  
 가



4-12.

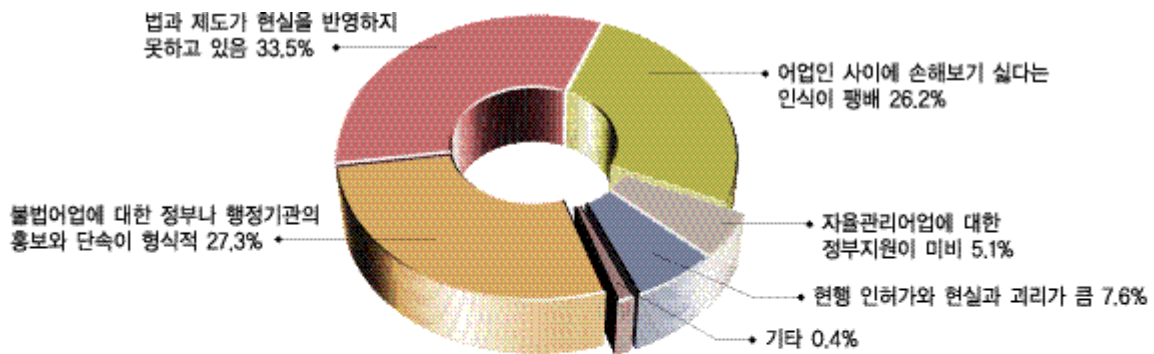
( 3 )

가 35.6%가  
 ” 26.5%  
 ” “ 12.0%,”  
 ” 10.2%  
 가



4-13.

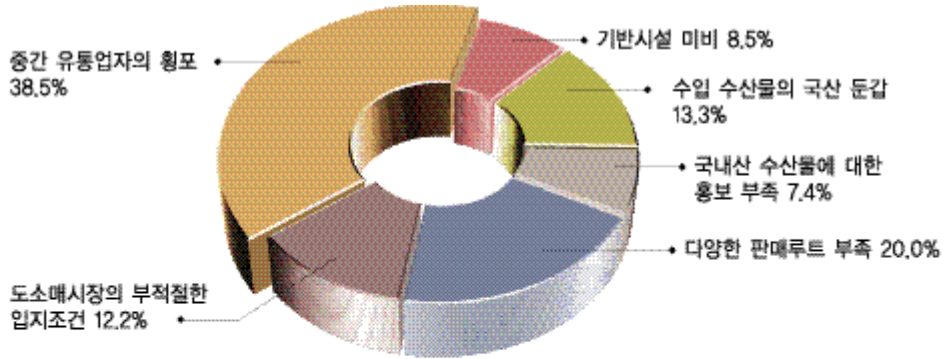
가 33.5%가  
 ” 27.3%  
 ” 26.2%  
 가



4-14.



가 , “ ” 38.5% 가 “ ” 20.2% “ ” “ ” 13.3% 12.2%

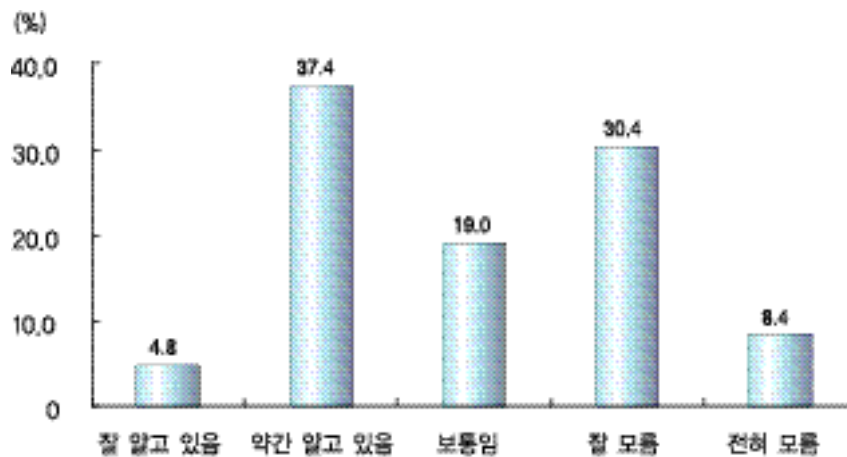


4-15.

(WTO, WTO)

WTO , ( , )

가 , “ ” 가 4.8%, “ ” 37.4% “ ” “ ” 42.2% “ ” “ ” 30.4%, 8.4% , 가 38.3%



4-16. WTO ( )

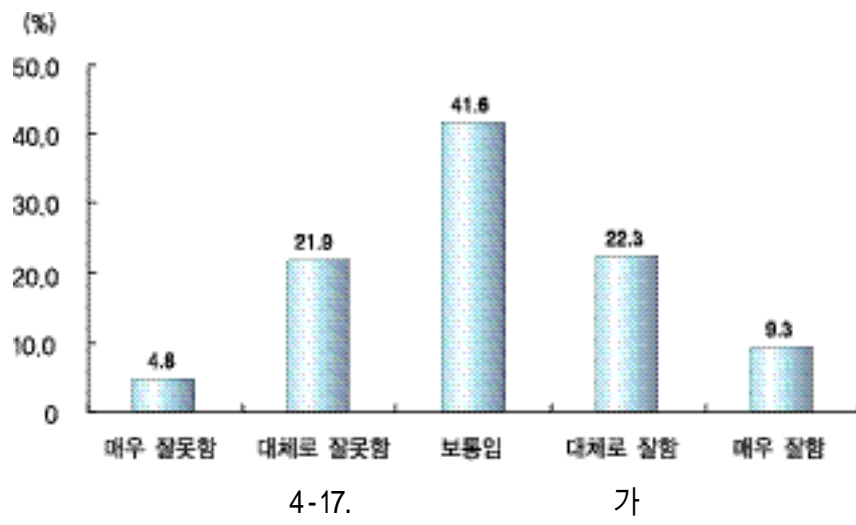
)

가

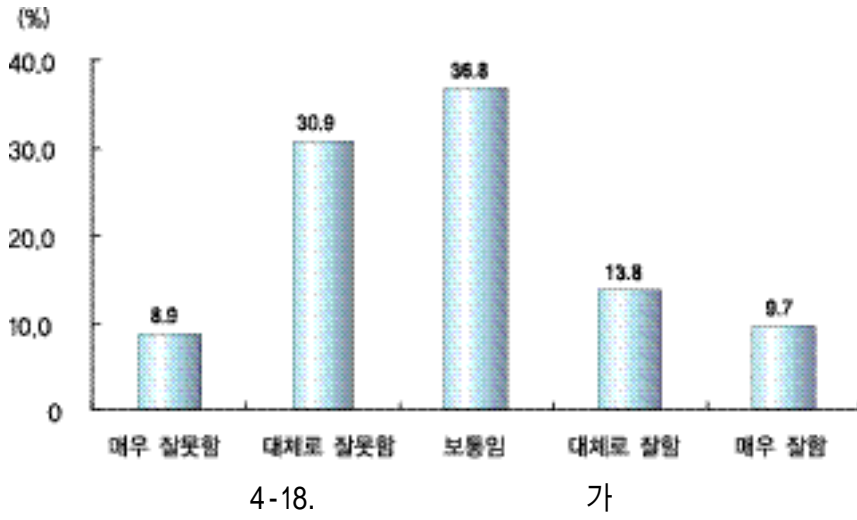
가

가

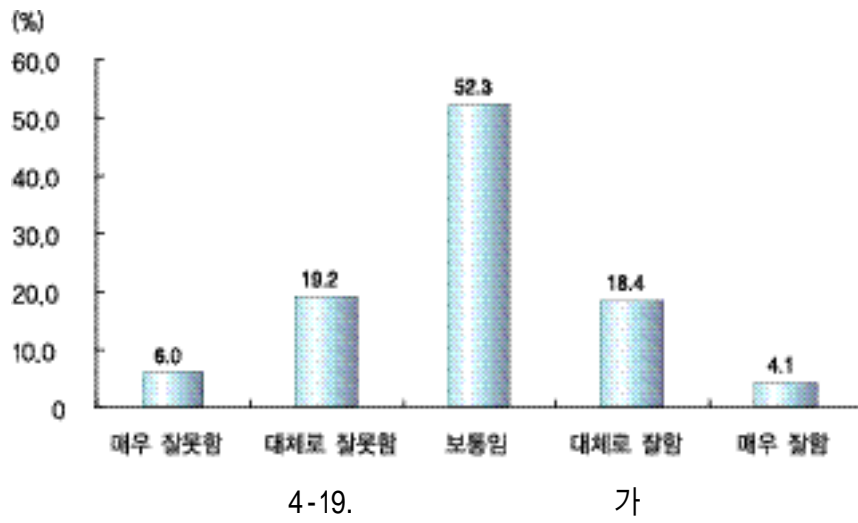
“ (41.6%) 가  
 , “ ” 22.3%, “ ” 9.3%  
 , 가 31.6% , “ ” “  
 ” 26.7% .  
 , 가 가



“ ” 가가 36.8% 가  
 가 39.8% ,  
 23.5% .  
 가 가



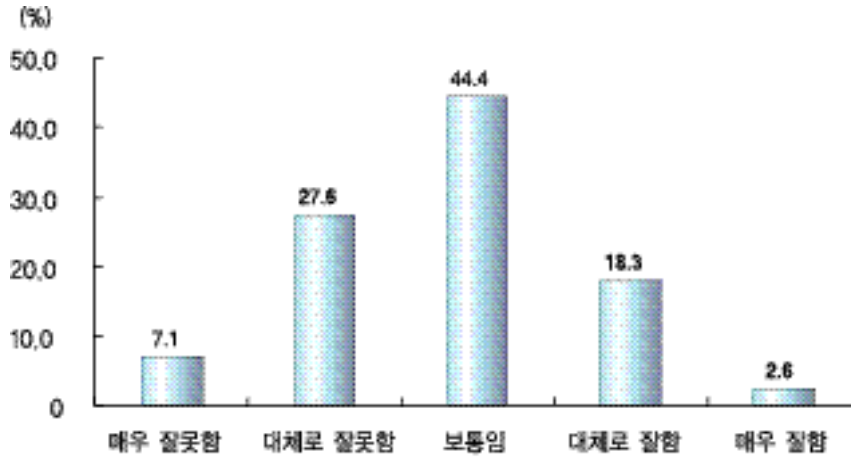
“ ” 가 52.3% 가  
 가 25.2%, 가 22.5% ,  
 가



가  
 ,  
 가  
 1980 “  
 ” 44.4% 가  
 ”가 27.6%, “ ” 7.1% , “ ” “ ”  
 18.3%, 2.6%

가 가

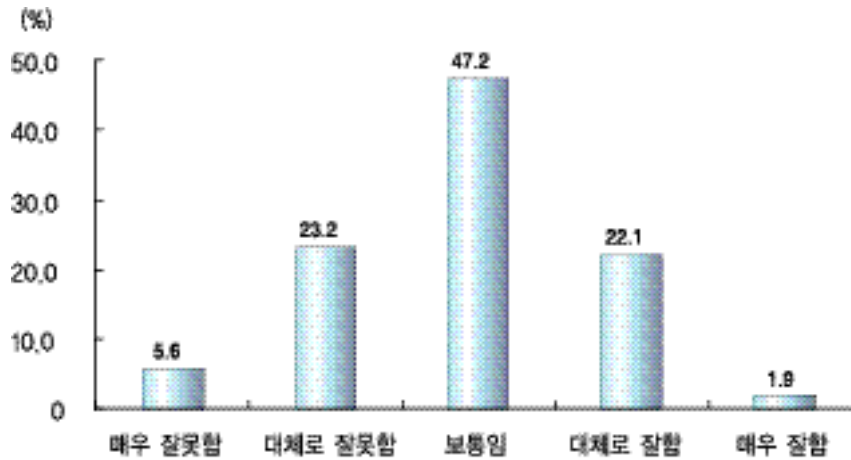
가 , 가 (34.7%)  
(20.9%)



4-20. 가

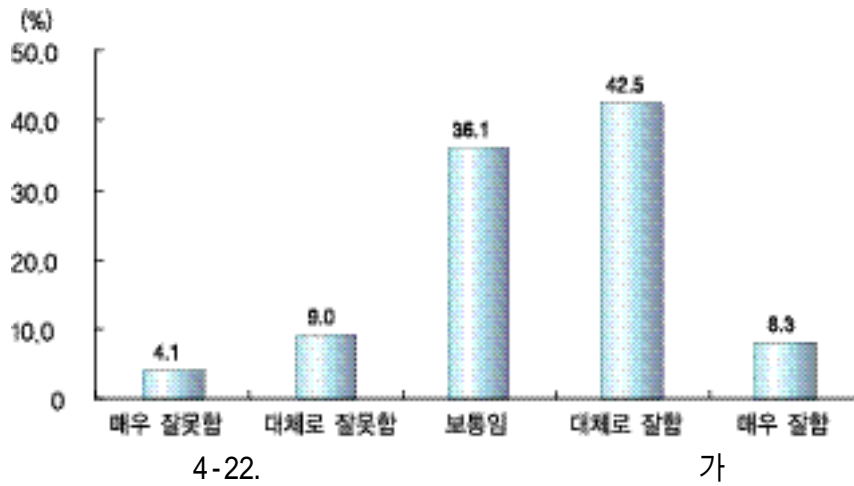
“ ” 가(47.2%) , “ ” 가 28.8%  
가 24.0%

“ ” 가 가 , “ ” 가 8.3%  
36.1%

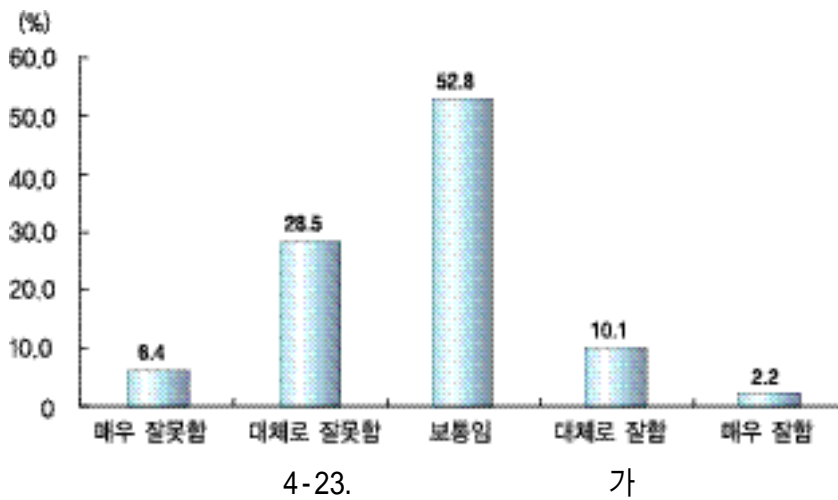


4-21. 가

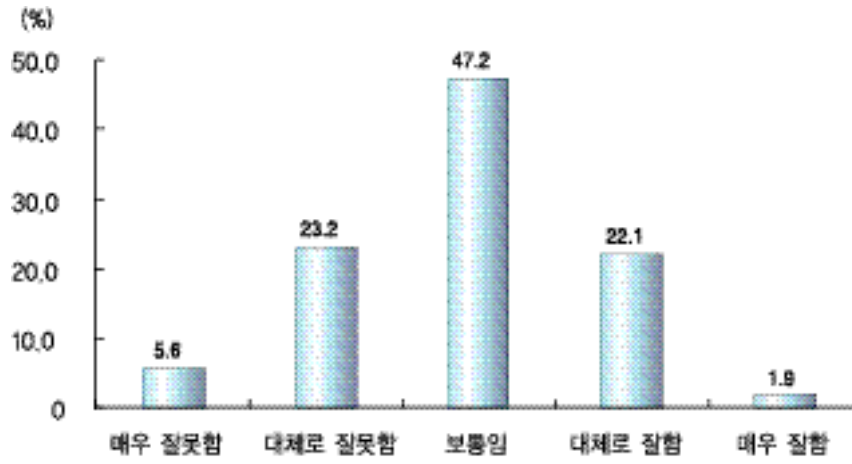
가 가 , 가 13.1%  
가



가 “ 52.8%가 “ ” 가  
가 “ ” 가 28.5%, “ ” 6.4% ,  
가 34.9% 가 , ?  
가



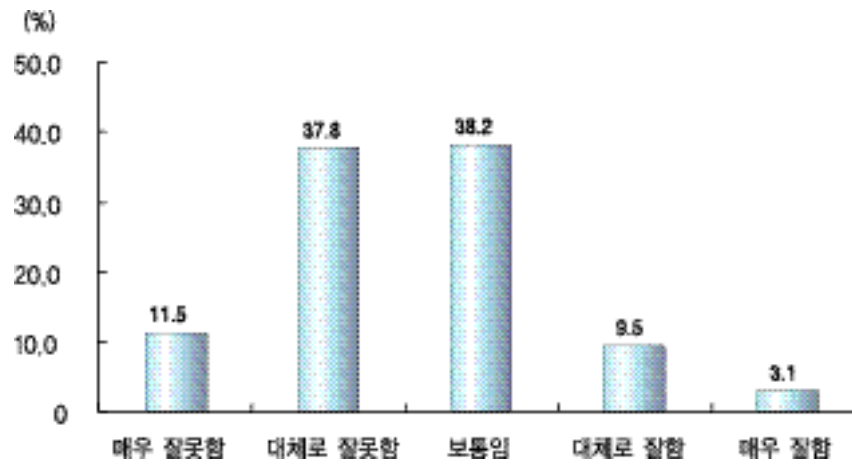
WTO , FTA 가  
가 “ ” 가  
37.1% 가 , “ ” 가 가 33.3%,  
“ ” 17.0% , 가 50.3% . “ ”  
“ ” 가 12.5% ,  
가



4-24.

가

가 . 가 .  
 가 38.2%가 “ ” , “ ” 가 37.8%  
 가 . 가  
 49.3% 가 , 12.6%  
 가 .

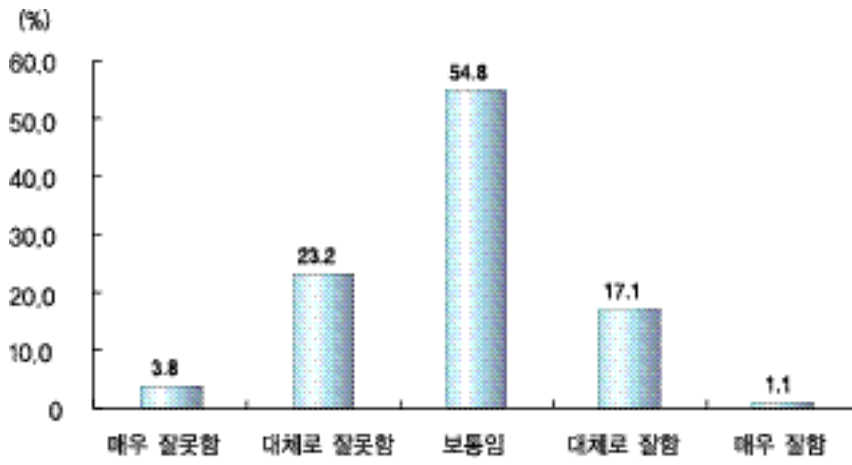


4-25.

가 .

가

“ ” 가 54.8% 가  
 27.0%,  
 가 18.2% .  
 가 , 가 가



4-26.

가

가

가

가

가

“ ” 가

가

“ 가 26.1%, “ ” 5.2% 가  
 31.3% , “ ” 14.2%, “ ” 3.0% 17.2%

가

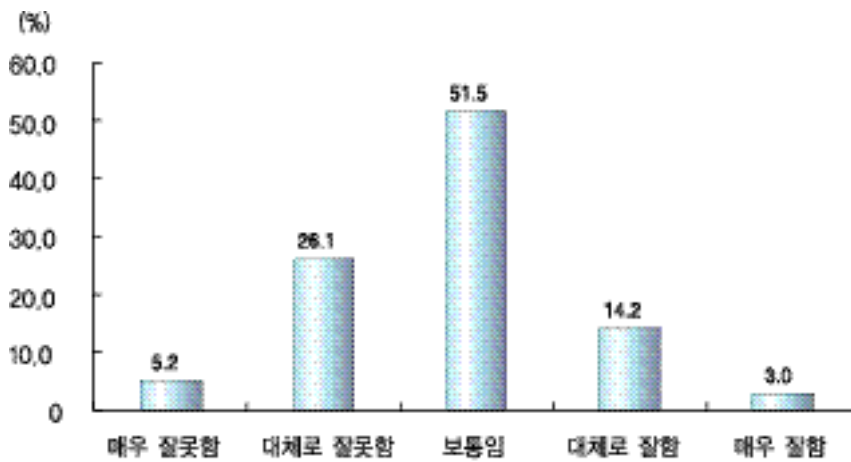
가

,

가

가

가



4-27.

가

가

2)

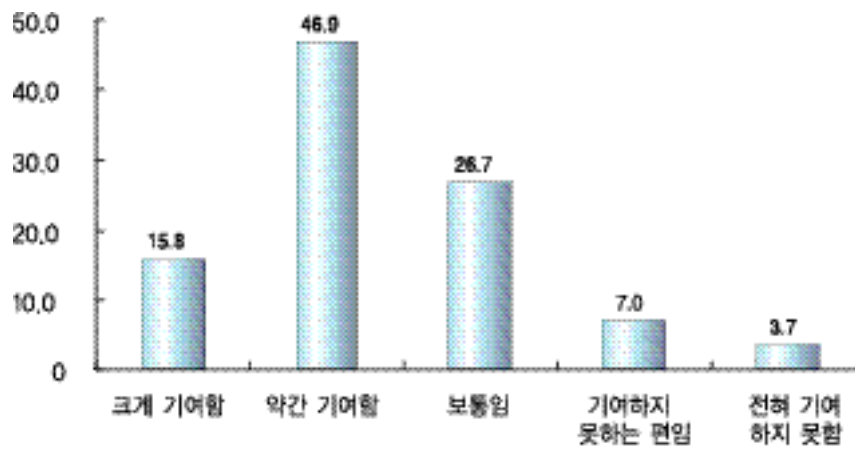
가 , , 가

가)

” 가 46.9% “ ”

15.8% “ ” “ ” 가

10.7% , 62.7%



4-28.

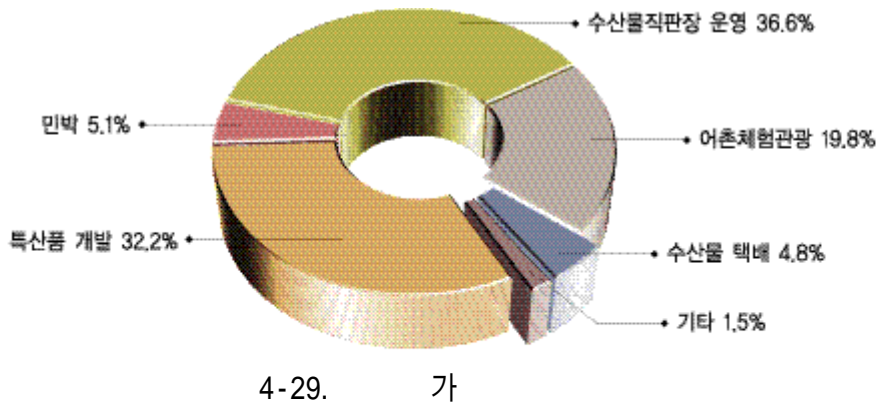
가

, 36.6% “ ” , 32.2% “ ”

가

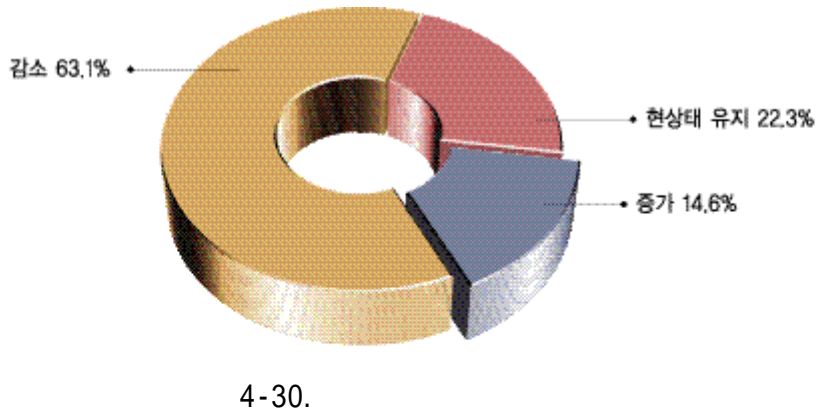
” 19.8%



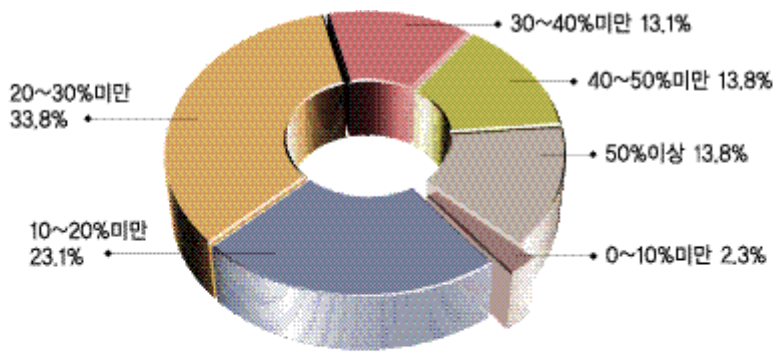


) 가

가  
 , “ ”  
 . “ ” 63.1% 가  
 ” 22.3% , “ 가  
 ” 14.6% .

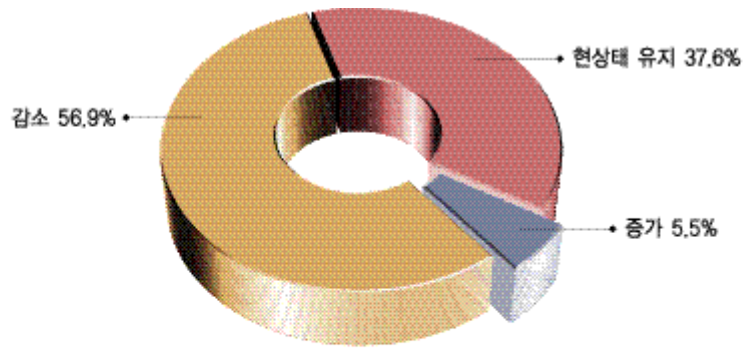


가 가 ,  
 . “20~30%  
 ” 33.8% 가 , “10~20% ”  
 23.1% . “50% ”, “40~50% ” 13.8% , “30~40% ”  
 13.1% .  
 “20~30% ”  
 가 .



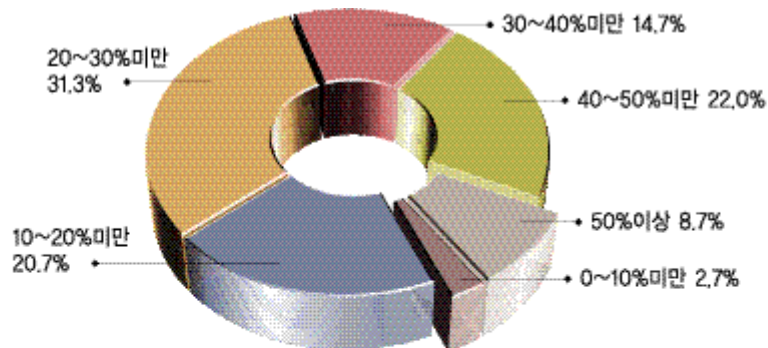
4-31.

가  
 가가 가 ,  
 “ (56.9%)  
 ” 37.6% “ 가  
 ” 5.5%



4-32. 가

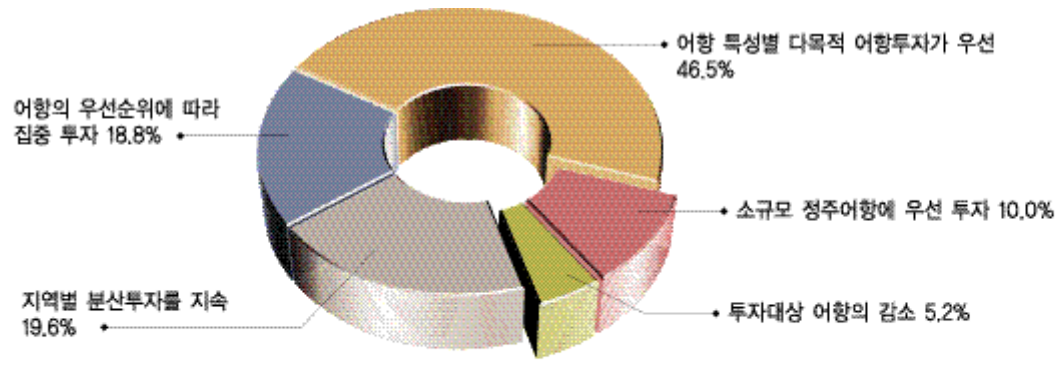
가  
 , “ 20~30% ” 31.3% 가  
 “ 40~50% ”  
 가 22.0% , “ 10~20% ” 20.7%  
 가 “ 20~30% ”  
 가



4-33. 가

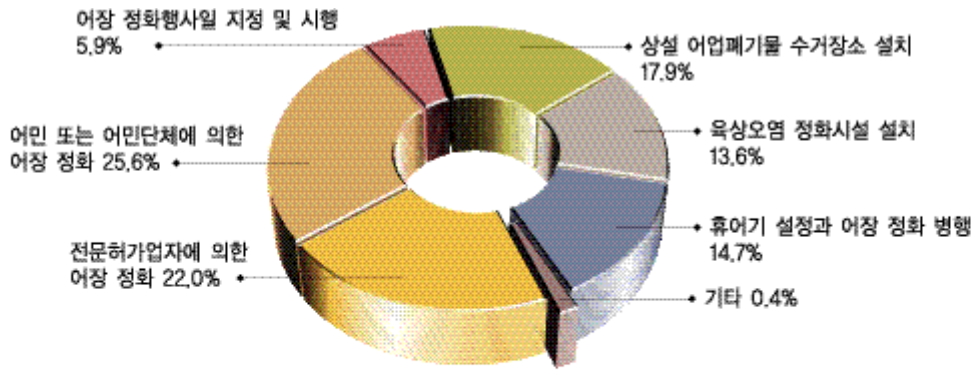
)

가 “ 가 46.5% “ 가 ”  
 ”가 19.6% ,“ ”  
 18.8%



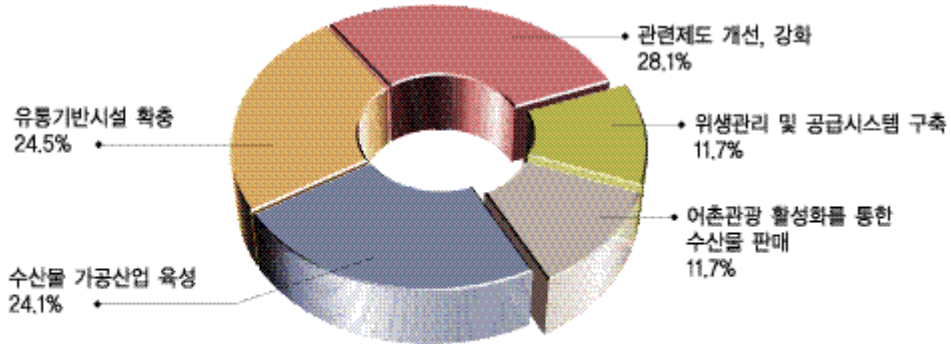
4-34.

가 “ (25.6%)가 ”  
 가 , “ 가 ” 17.9%  
 22.0% “ ”  
 “ ”  
 ” 14.7% 13.6%



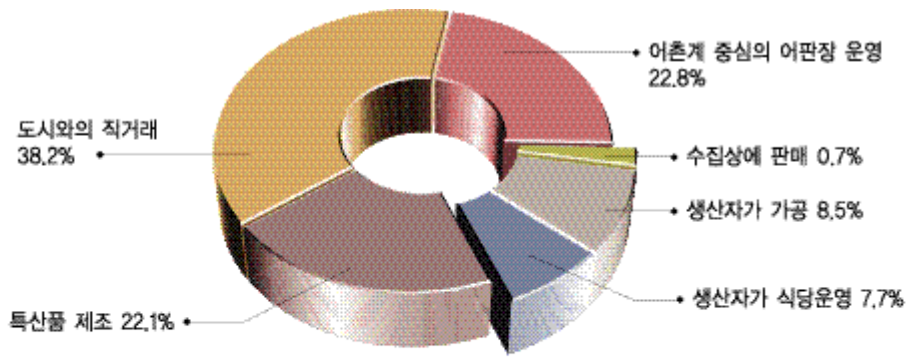
4-35.

가가 . 가  
 “ , ”  
 28.1% 가 , “ , ”  
 (24.5%) “ 가 (24.1%) “  
 ” “ . ” 11.7%



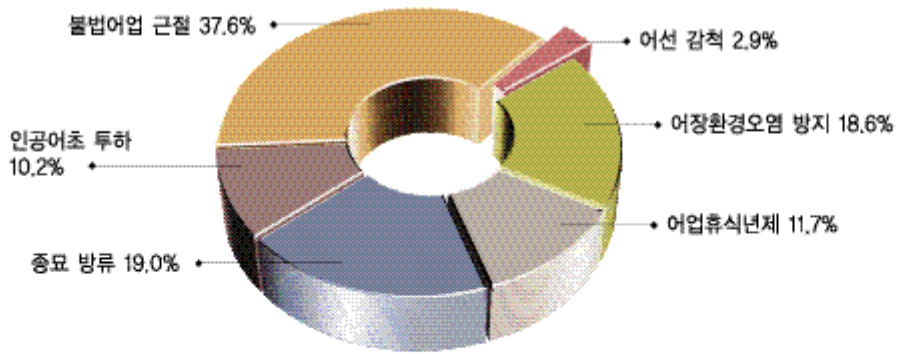
4-36. 가가 . ( )

가가  
 가 38.2%가 “ ” “  
 ” 22.8% , “ ”  
 가 . “ ”  
 가가 22.1%  
 . “ 가가 ” “ 가 ” 10%



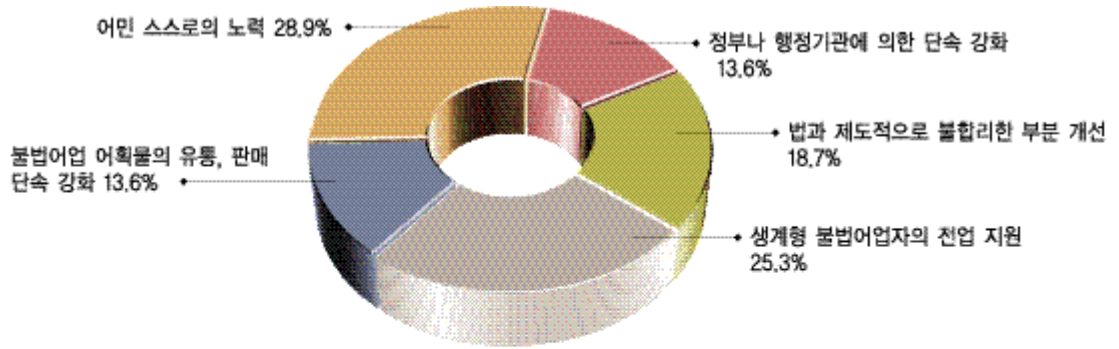
4-37. 가가 ( )

“ (37.6%) ”  
 가 “ ”  
 19.0% , “ ” 18.6% . “ ”  
 “ ” 10% .



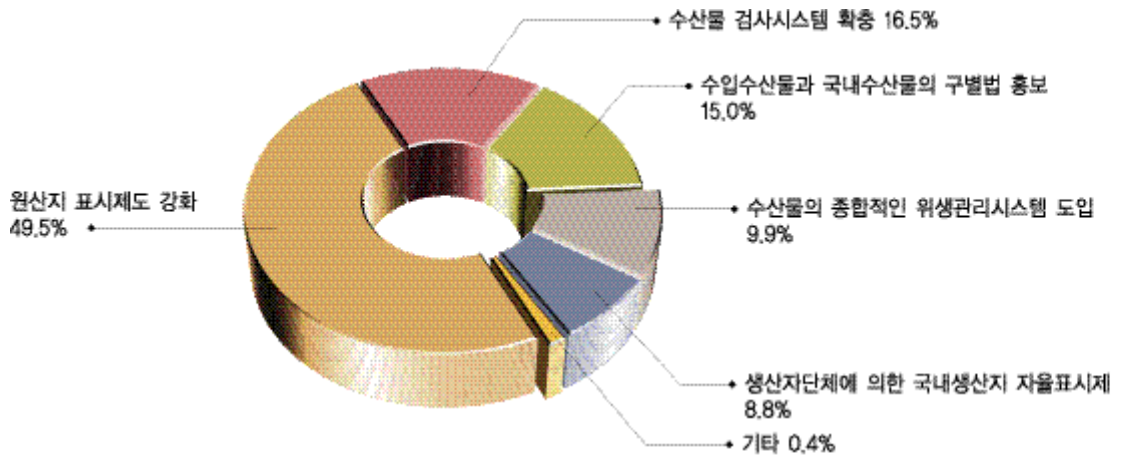
4-38.

가  
 , “ (28.9%) 가 , “  
 (25.3%) “  
 ” 18.7% , “  
 ” “ 13.6% .



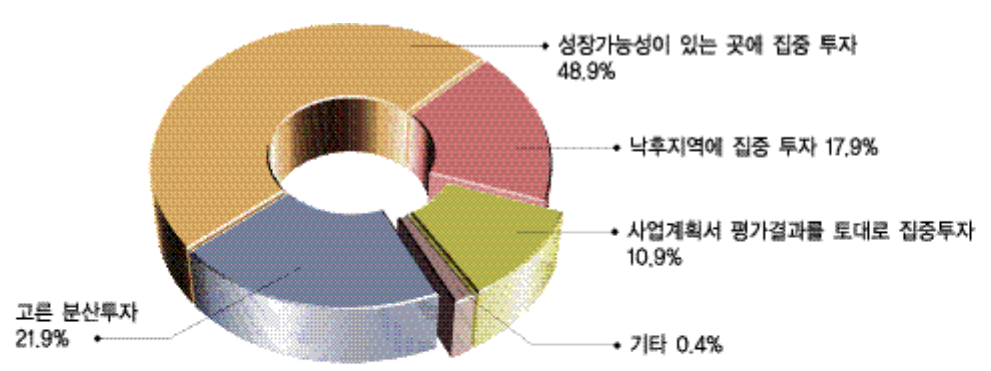
4-39.

가 , 가 “ ” 가  
 . “ ” “ ”  
 , “ ” “ ”  
 ” “ 16.5% 15.0% . “ ”  
 ” “ ” 10%



4-40.

) 가 가 , 가  
 가 가 .  
 가 가 “  
 가 (48.9%) 가 .  
 “ 가 21.9%, “ ” 17.9% .  
 가 가



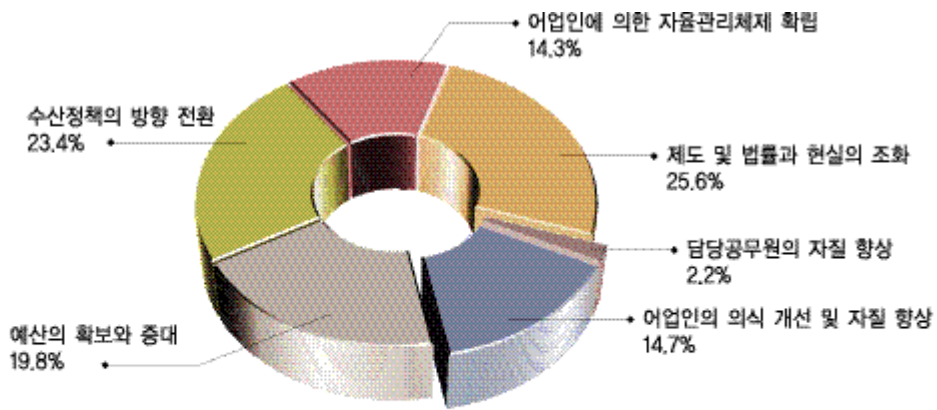
4-41.

가 가 가  
 가 ,  
 .  
 가 가 , “ ”  
 “ 가 . ” 16.3%, 15.3% .  
 “ ” “ ” “ ” 10% .  
 ” “ ” “ ” 11 “ ”  
 1.7% 가

4-24.

		(%)
	535	100.0
	46	8.6
	87	16.3
	70	13.1
	53	9.9
	66	12.3
	55	10.3
	29	5.4
	26	4.9
가 .	82	15.3
	9	1.7
가	12	2.2

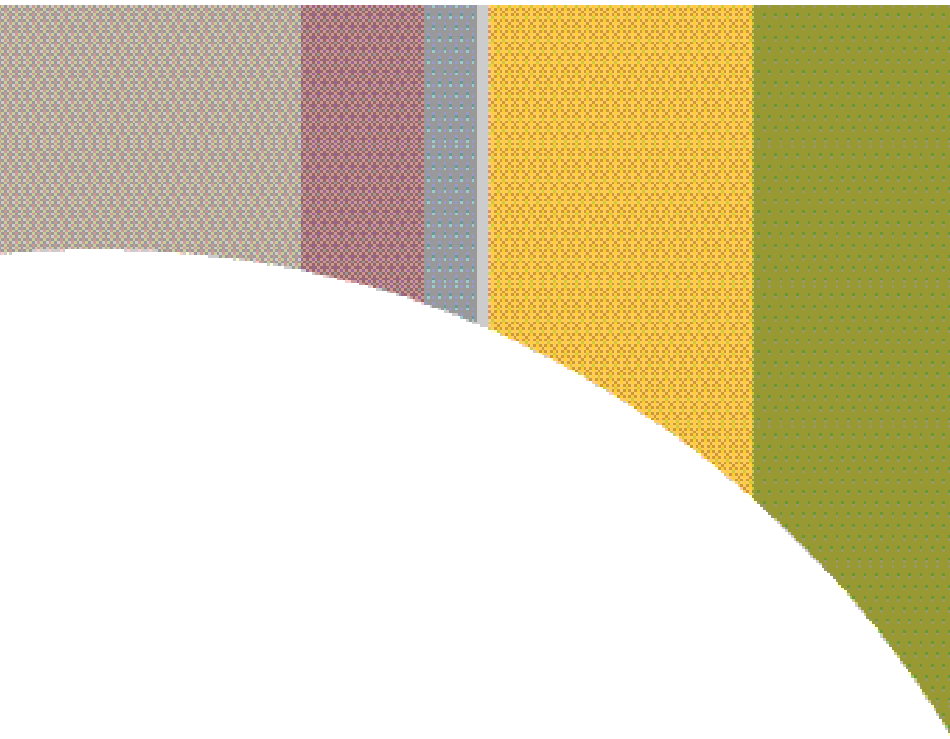
“ ” 25.6% 가 , “ ” 23.4% . ” 19.8% “ ” , 14.7% “ ” , “ ” 14.3% .



4-42.



# Korean Coastal and Offshore Fishery Census



[ ]



해양수산부  
국립수산과학원  
National Fisheries Research &  
Development Institute



1.	가 .	.....	277
2.		.....	277
3.		.....	278
4.		.....	279

1.	가 .		
	가.	.....	283
	.	.....	285
	.	.....	286
	.	.....	287
2.			
	가.		
	1)	.....	289
	가)	.....	289
	)	.....	294
	)	.....	299
	2)	.....	302
	가)	.....	302
	)	.....	304
	)	.....	307
	3)	.....	311
	4)	.....	316

.		
1)	.....	320
2)	.....	321
3.		
가.	.....	325
.	.....	326
1)	.....	326
2)	.....	326
2)	.....	327
4.		
가.		
1)	.....	349
가)	.....	349
)	.....	350
)	.....	353
2)	.....	358
가)	.....	358
)	.....	358
)	.....	361
)	가      가      .....	364
3)	.....	367
가)	.....	367
)	.....	367
)	.....	369
)	.....	371

.		
1)		
가)		.....374
)		.....376
)		.....380
)	가.....	.....382
2)		
가)		.....388
)	가	.....389
)		.....391
)	가	.....395



# CHAPTER 1

1. 가 .
- 2.
- 3.
- 4.





## 1. 가 .

가.

가	가
2003 12 31	.
1998 2003	.
.	.
가	가
2003 12 31	.
1998 2003	.
.	.
가 .	가 .
	1998 2003 .
.	.
가 .	가 .
	1998 2003 .

## 2.

가.

1)	(CPUE)
20	3
2002 8	2003 12
2)	.

3)

1)

(CPUE)

5

가가

1

3

2002 8

2003 12

2)

3)

1)

(CPUE)

가가

10ha

2

2002 8

2003 12

2)

3)

가가

10ha

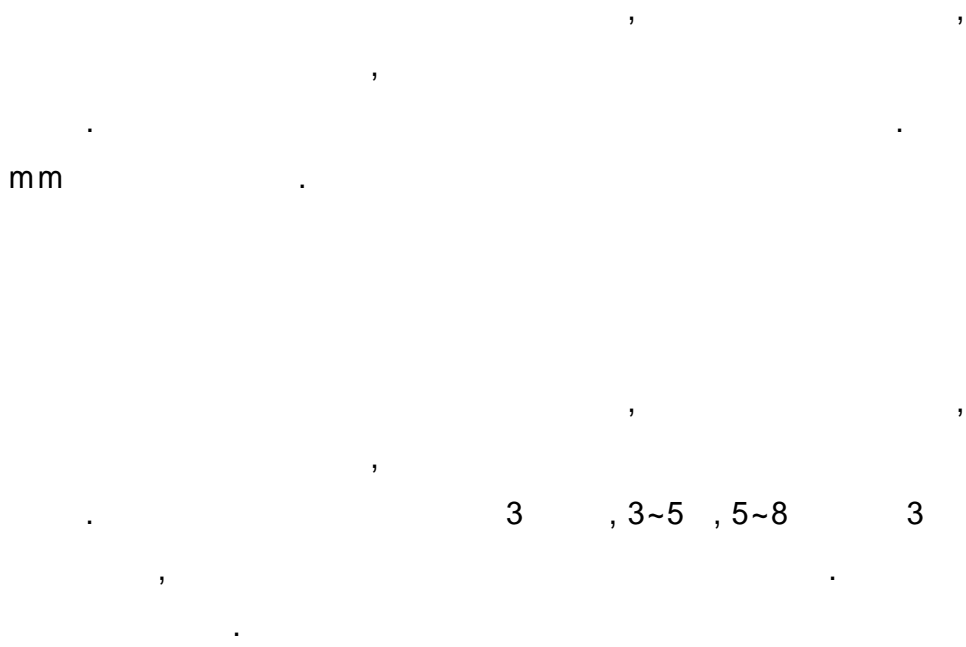
2

2002 12

1

### 3.

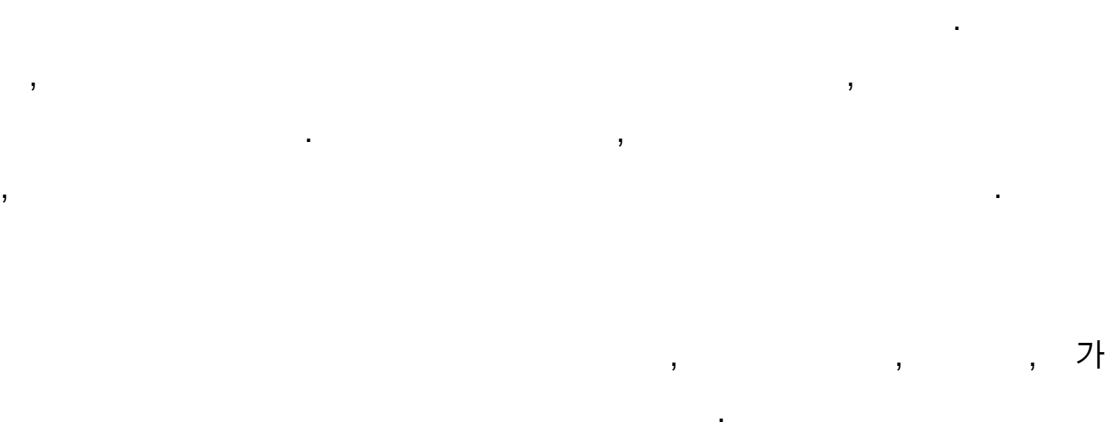
가.



mm

### 4.

가.



가  
, , 가  
, , .  
, , , , , , , .  
.

# CHAPTER 2

1. 가 .
- 2.
- 3.
- 4.

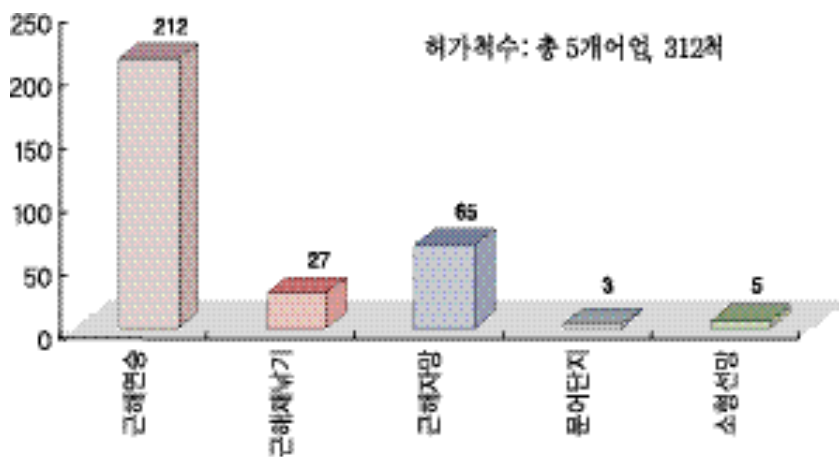
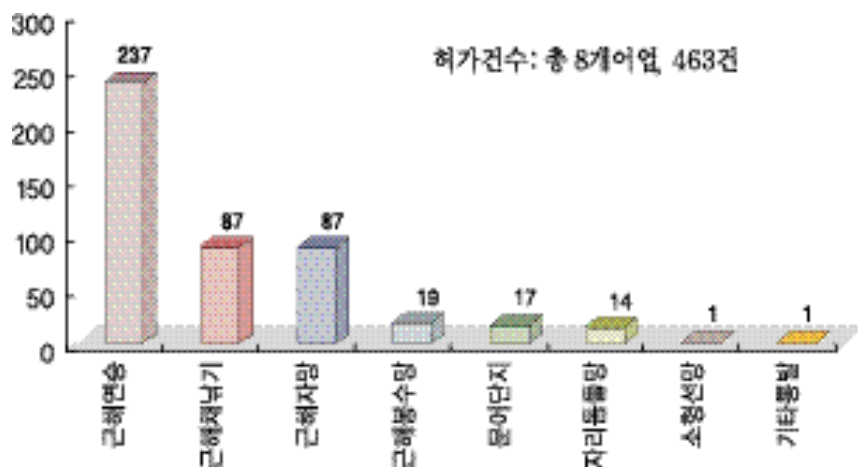


[ 1.

가 .

]

가.



1-1. 가

8 , 463 가 , 312 가 가 . 가

237 가 , 87 , 87 , 19

, 17 , 14 . 가

212 가

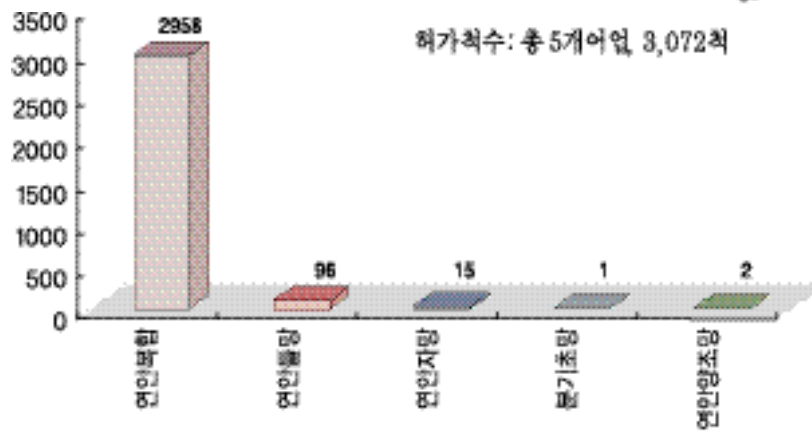
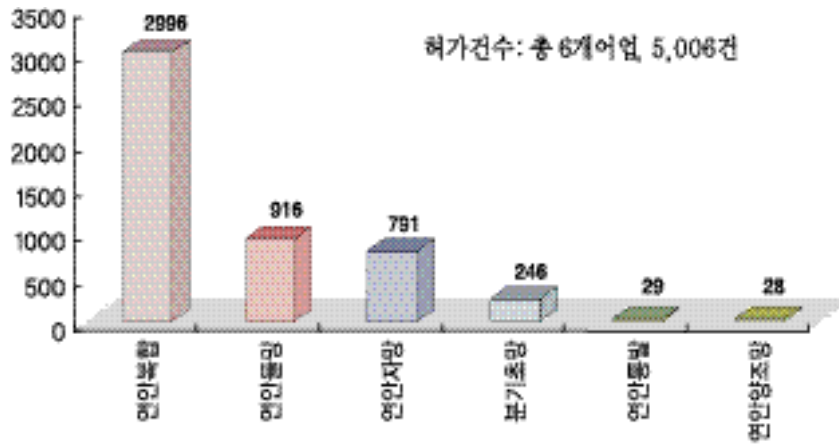
, 27 , 65 .

1-1.

	1998	1999	2000	2001	2002	2003	
	48,432	43,205	42,293	44,430	43,972	45,149	44,580
	2,042	421	377	448	626	340	709
	66	81	51	0	4	62	44
	0	4	0	0	0	0	0
	1,458	2,623	3,326	3,311	4,019	3,622	3,060
	21	86	320	329	211	308	213
	321	491	1,400	1,317	1,556	307	899
	0	84	0	0	0	0	14
	655	1,166	1,064	1,495	2,033	3,077	1,582
	1,684	1,993	1,729	1,413	832	1,215	1,478
	3,571	3,539	2,879	2,596	2,537	2,698	2,970
	5,423	5,482	4,923	4,960	4,857	3,348	4,832
	789	540	465	122	95	26	340
	5,268	601	0	0	0	0	978
	0	3	0	0	2	0	1
	146	66	73	94	47	16	74
	3,833	4,742	6,709	7,929	10,492	9,339	7,174

(1998 2003 ) 1998 48,432 가  
 , 2000 42,293 가 . 45,000  
 6 , 7,174 가  
 2003 , , , , , 63% ,





1-2. 가

6 , 5,006 가 5 , 3,072 가 가

가 2,996 , 가 2,958

가 916 , 가 96

1-2.

	1998	1999	2000	2001	2002	2003	
	11,502	10,344	9,936	10,332	8,673	17,302	11,348
	2	1	0	0	0	57	12
	2,801	4,967	4,053	4,364	3,156	-	-
	990	496	609	621	1,033	856	768
	0	36	0	0	0	0	6
	6	5	13	56	0	32	19
	2,552	3,500	4,879	4,321	4,019	-	-
	5,151	1,339	382	970	465	7,137	2,574
	-	-	-	-	-	9220*	-

\* 2002. 6

가

2002 8,673 가 (1998 2003 ) 2003 17,302 가  
 10,000 . 2000 9,936 1998 2001

2003  
 가 .

1-3. 가

	1998	1999	2000	2001	2002	2003	
가	63	63	62	59	60	60	61
가 (ha)	152	156	148	139	142	144	147
	271	271	271	502	276	308	317

(1998~2003) 가 가 61  
 , 147ha , , 2001 502 가  
 , 2003 308 .

1-4.

\		(ha)		2003	
				(M/T)	( )
	60	144	308	592	1,840
	2	4	12	17	50
	5	15	16	25	178
	42	92	210	489	1,470
	11	33	70	61	144

가 ,

1-5. 가

	1998	1999	2000	2001	2002	2003	
가	128	127	127	127	127	127	127
가 (ha)	14,796	14,790	14,790	14,790	14,791	14,791	14,791

(1998~2003) 가 가 128  
 , 14,796ha , .

1-6.

\		(ha)
	127	14,791
	8	714
	13	1,662
	70	7,384
	40	5,532

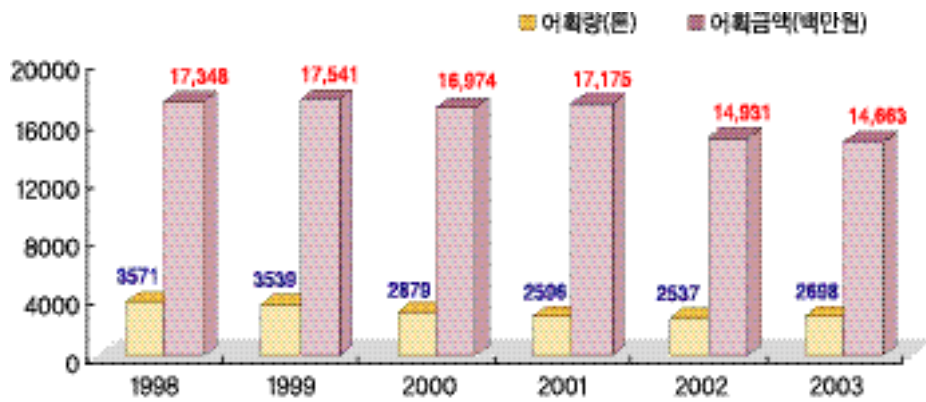
가 , ,  
 . 2003 6,814 .



# [ 2. ]

가.  
1)  
가)

(CPUE)



2-1.

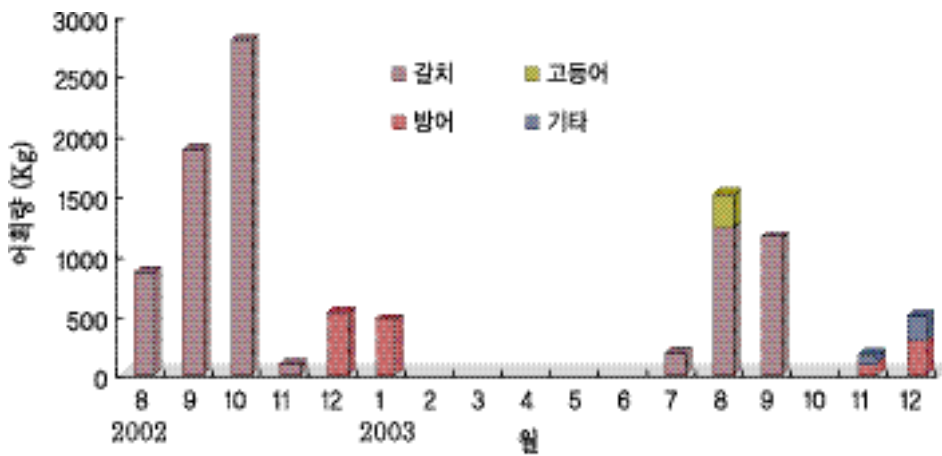
( )

. 1999 3,539

가

, 2002 2,596

가

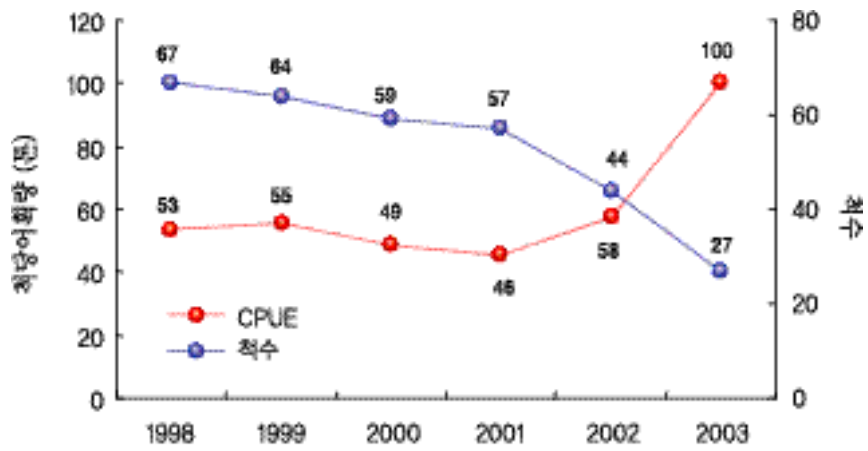


2-2.

( )

2002 10 , 11

2,793kg, 84kg



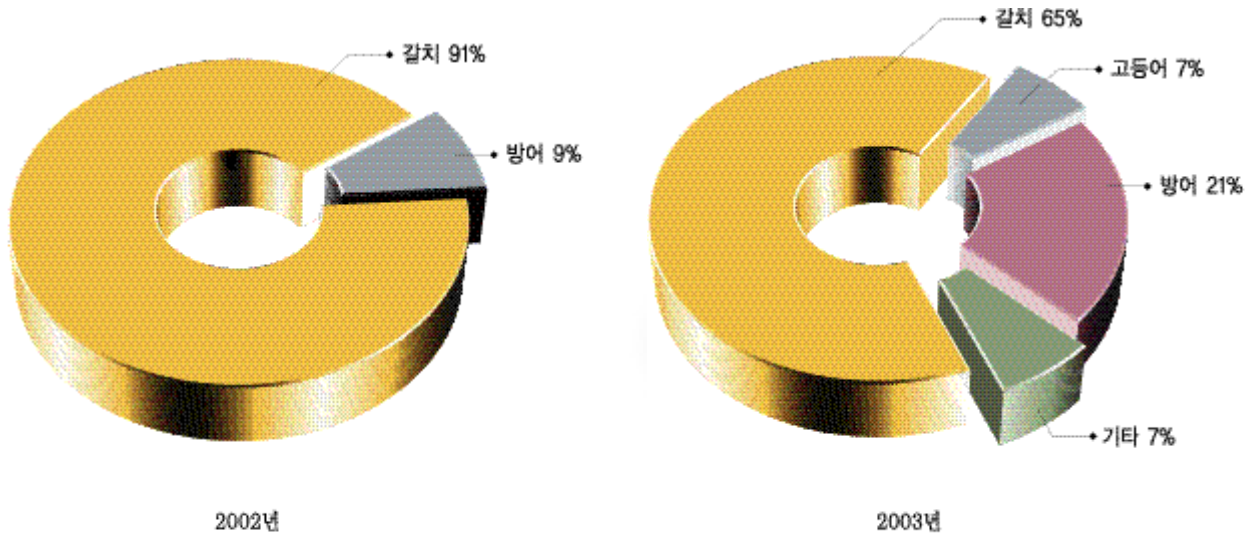
2-3.

CPUE

1998 67  
50

2003 27  
100

, CPUE 2002  
가

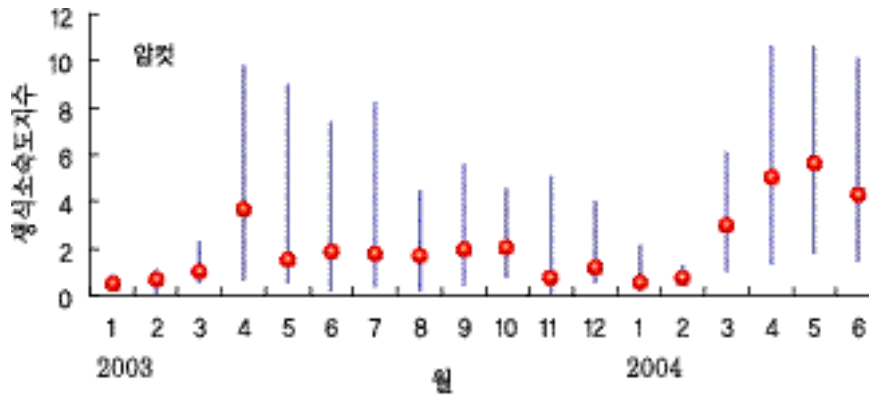


2-4.

2002 , 2003 가 65%,  
가 21%, 7%, 가 7%

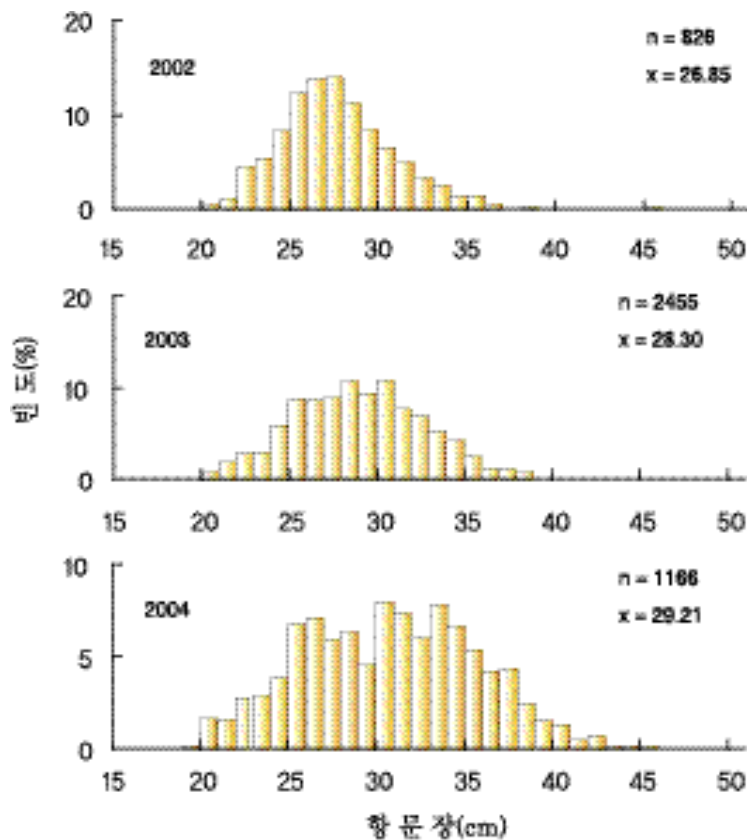
4 5~8 가 3.7 5.1 ( , 2000), 2003 4 2004 4

83.6%

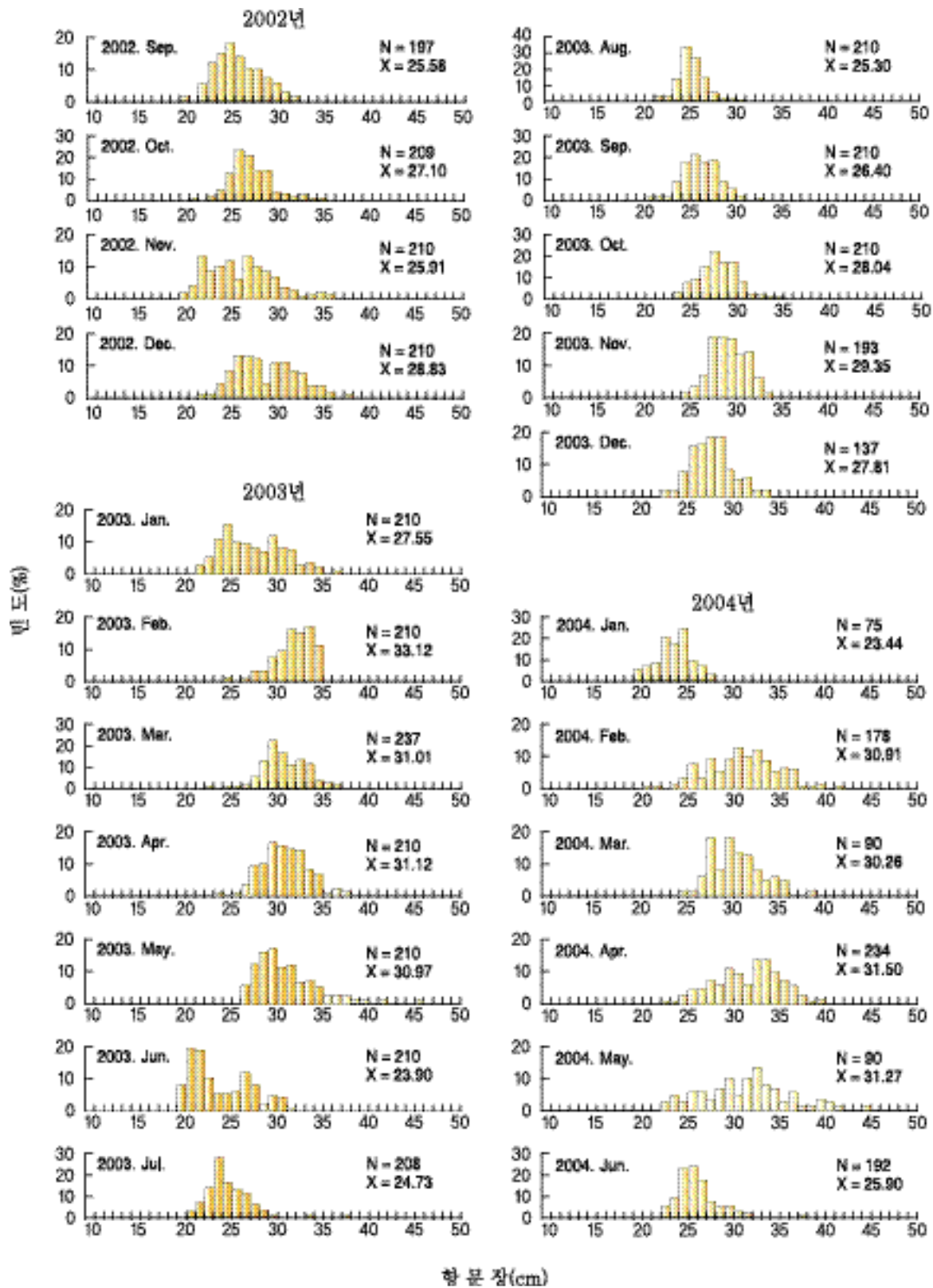


2-5.

2002(9~12) ( ) 26.85 cm ( 826 )  
 , 2003 (1~12) 28.30 cm ( 2455) 2004 (1~6) 29.21  
 cm ( 1166)



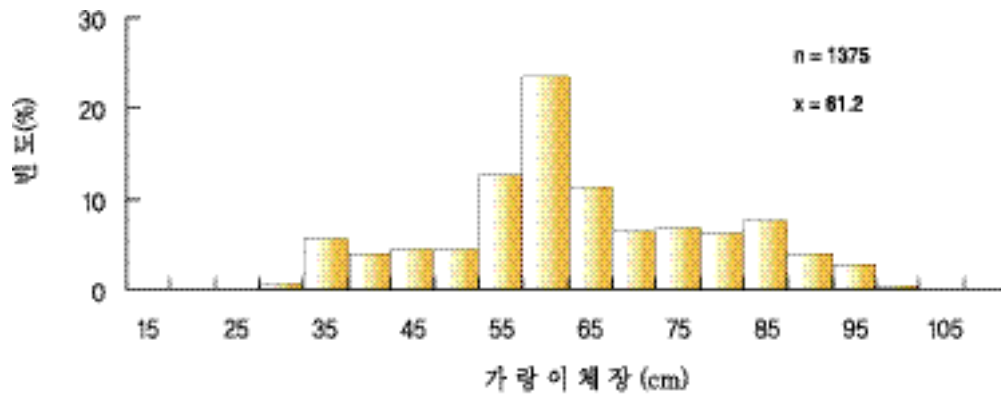
2-6.



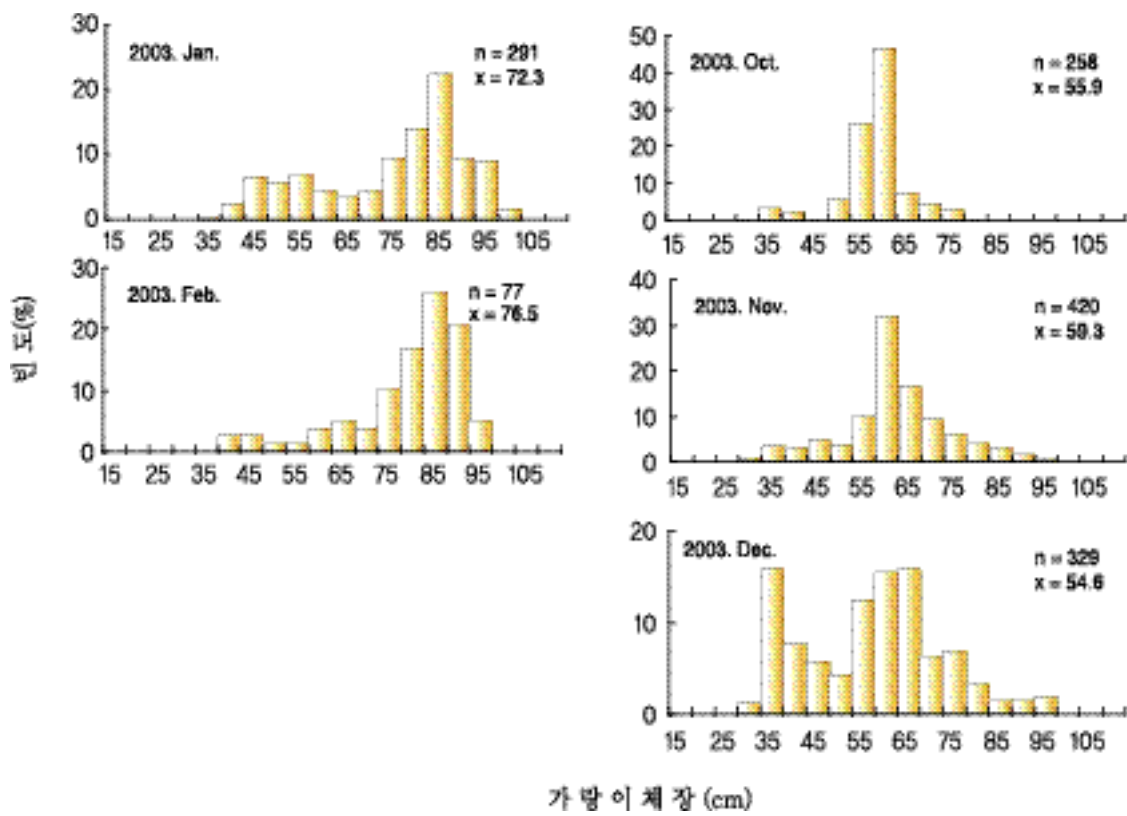
2-7.



2003 (1~2 , 10~12 ) 가 61.2 cm ( 1375 ) .



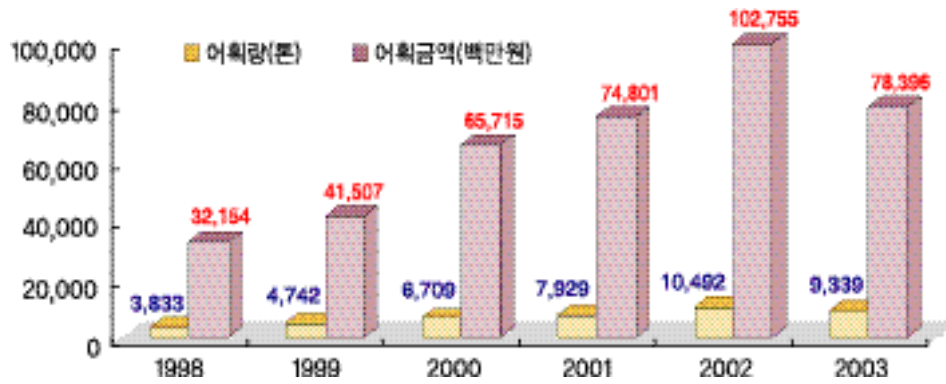
2-8.



2-9.

)

(CPUE)



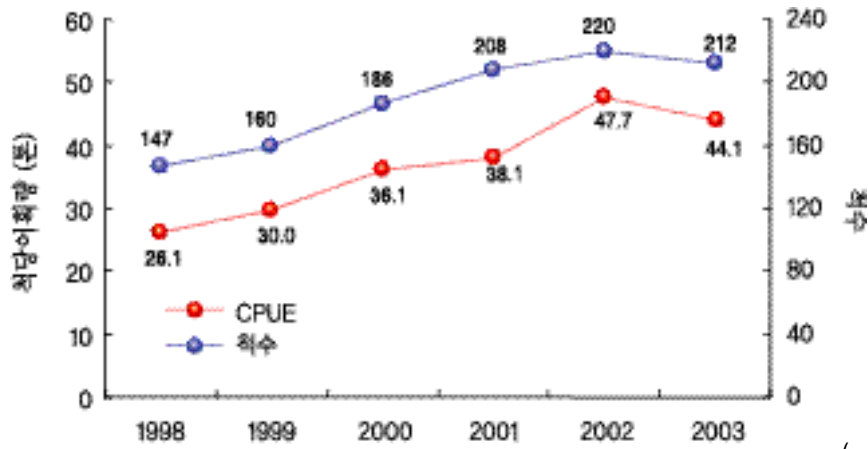
2-10.

( )

1998 3,833

가 2002 10,492

가 2003



2-11.

( )

CPUE

. CPUE

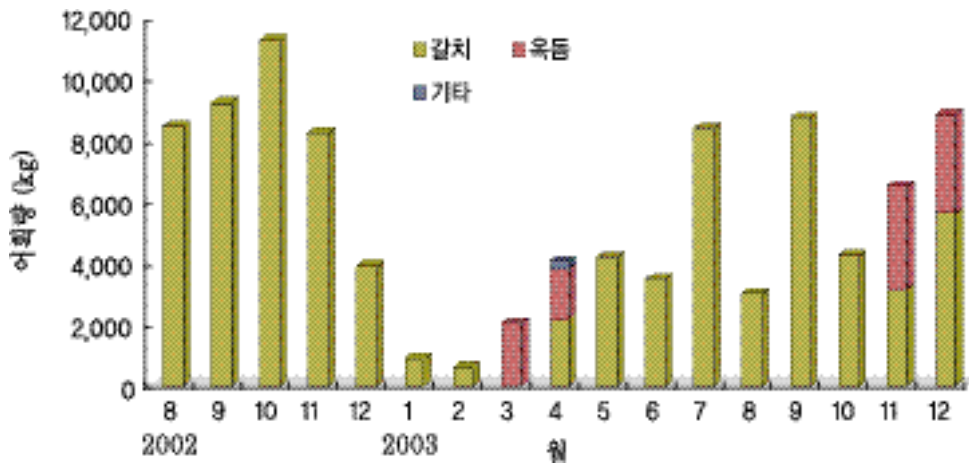
1998 26.1

가 2002 47.7

가

2003 44.1

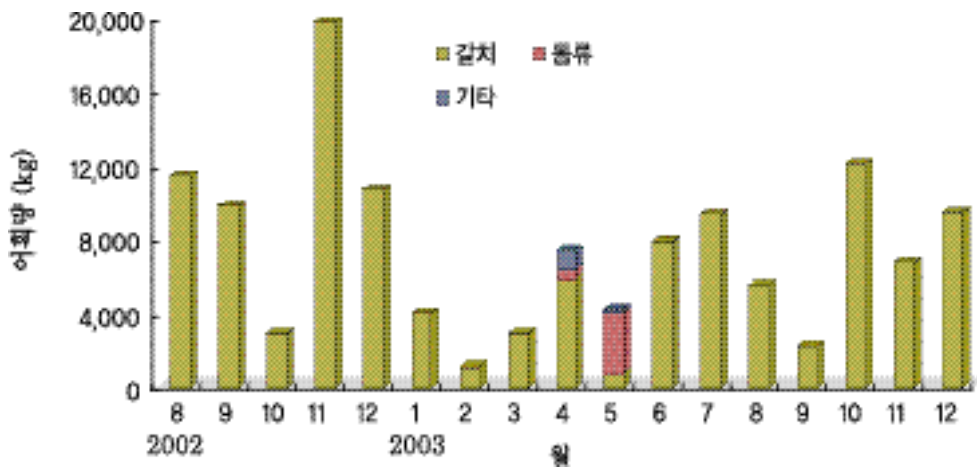
CPUE



( )

2-12. (20 )

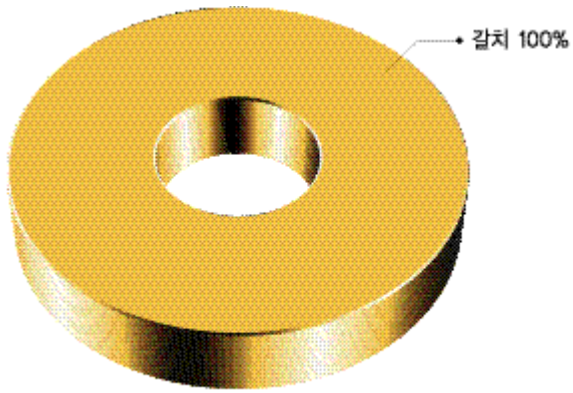
20 , 2002 10 11,210kg 가  
 , 2003 2 600kg 가 . . .



( )

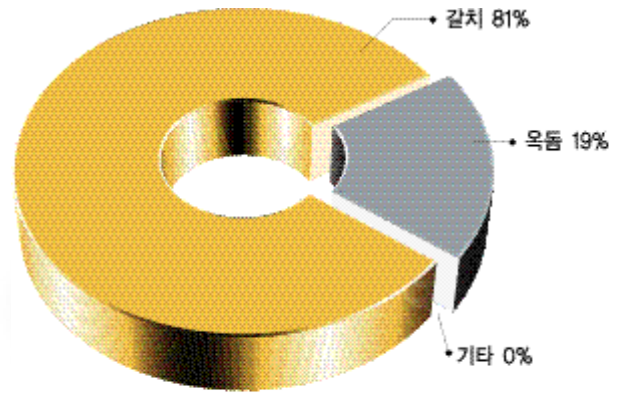
2-13. (20 )

20 2002 11 19,764kg 가  
 , 2003 2 1,078kg 가 . . .



2002년

2-14.



2003년

(20 )

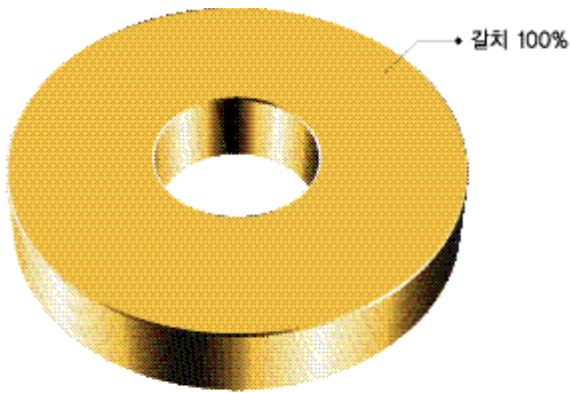
20  
, 2003

가 81%,

19%,

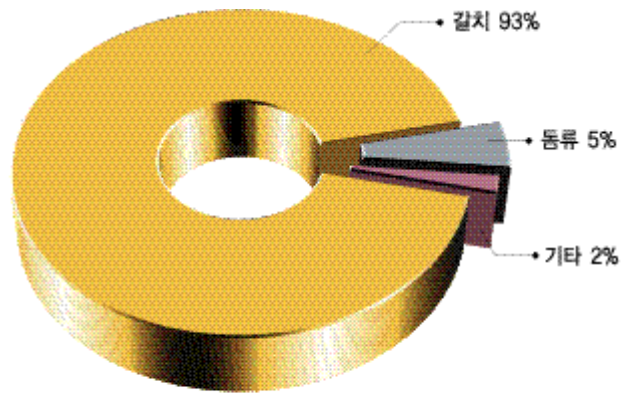
가 0.5%

2002



2002년

2-15.



2003년

(20 )

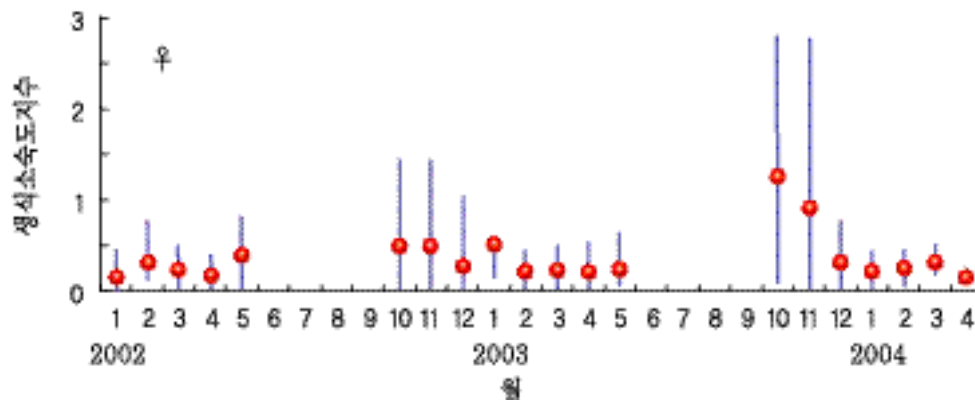
20  
2003

가 5%,

가 2%

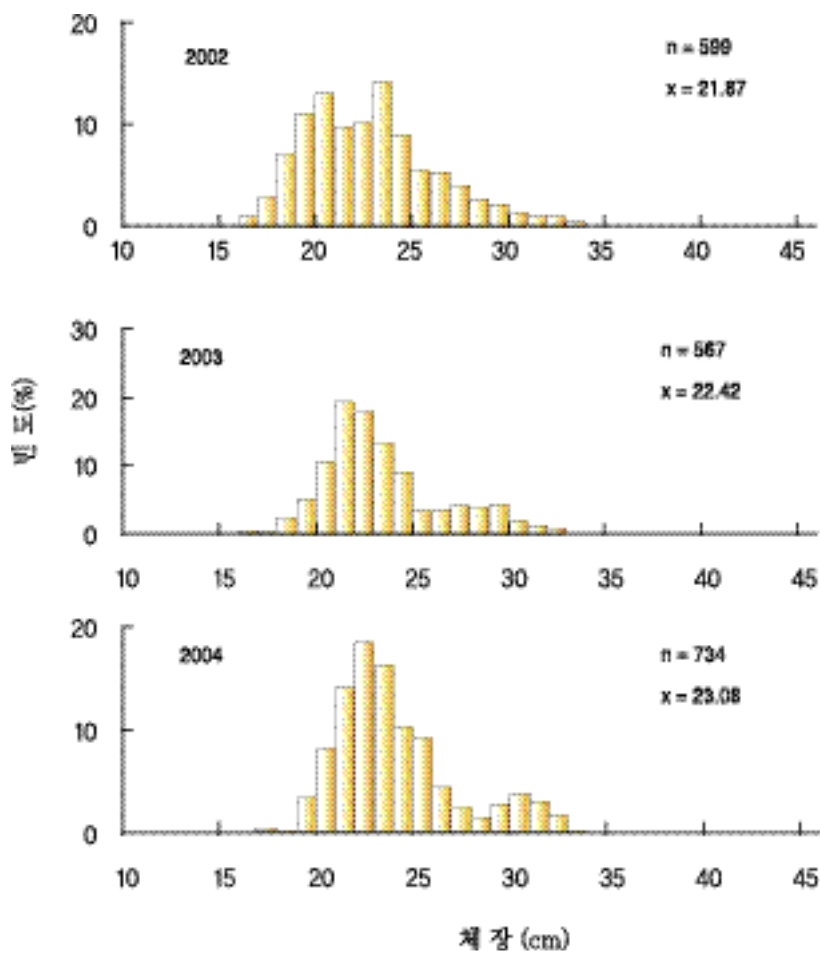
2002

9~11  
10~11

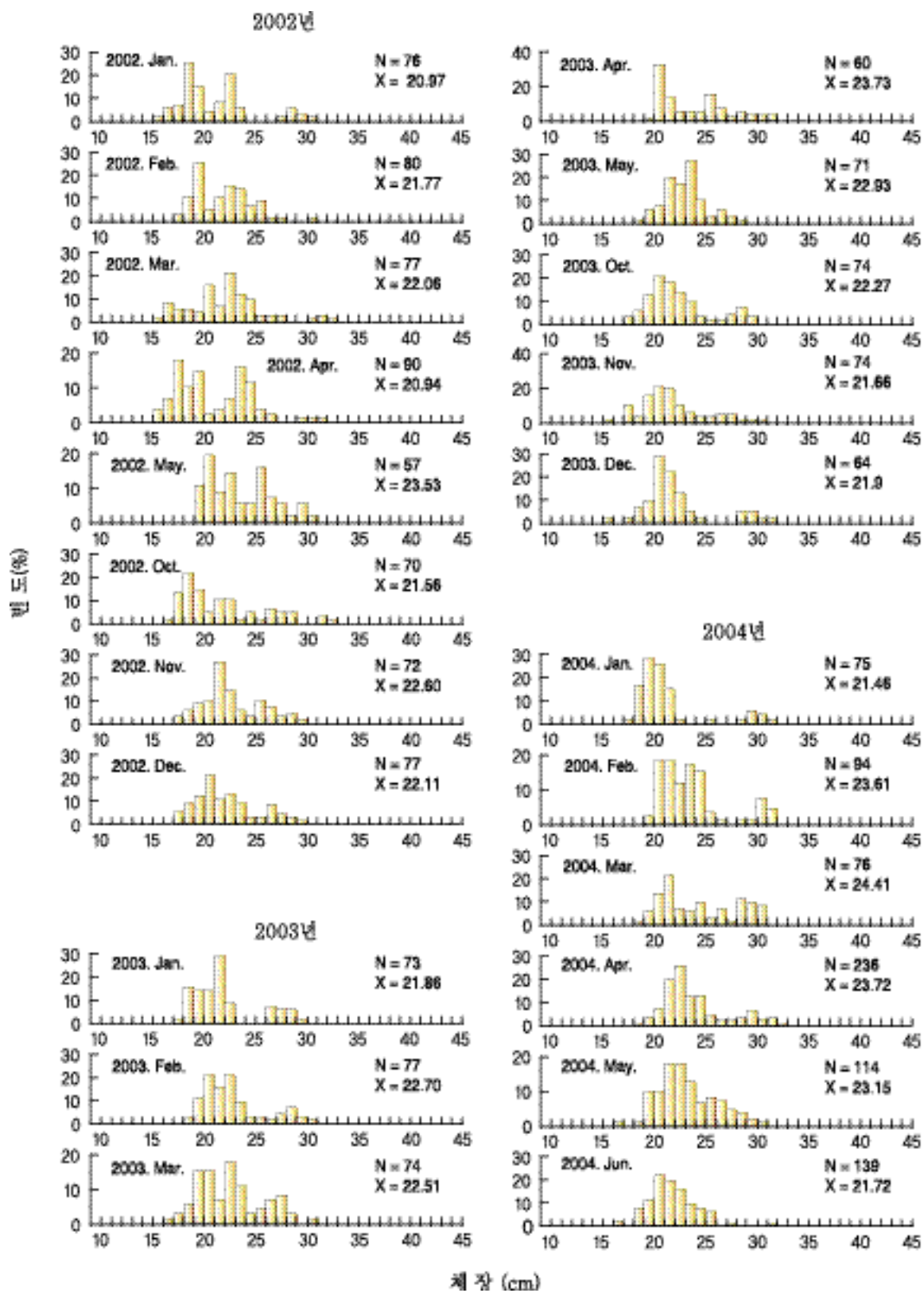


2-16.

2002(1~5 , 10~12 ) (BL) 21.87cm ( 599 )  
 , 2003 (1~5 , 10~12 ) 22.42cm ( 567 ) 2004 (1~6  
 ) 23.08cm ( 734 ) .

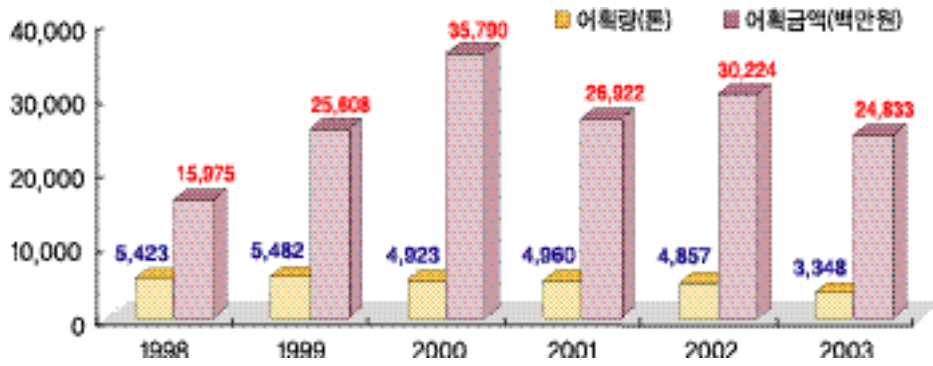


2-17.



)

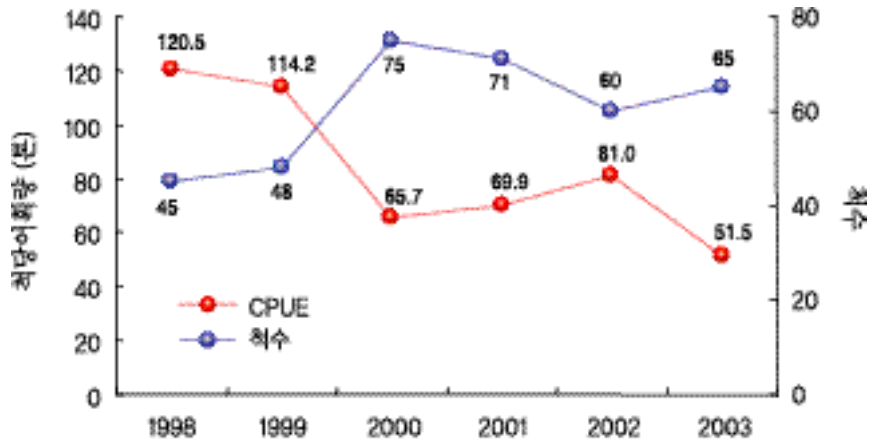
(CPUE)



( )

2-19.

1998 2002 5,000  
, 2003 3,500 .

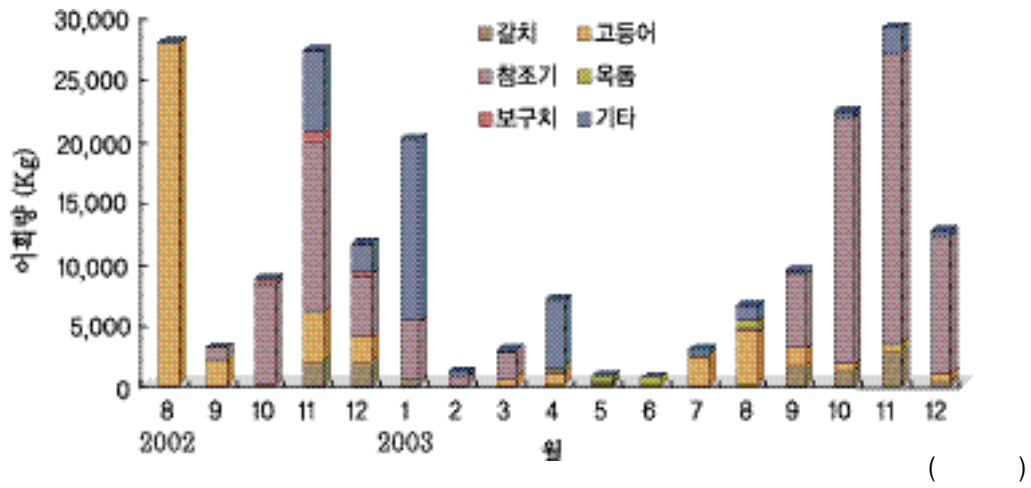


( )

2-20.

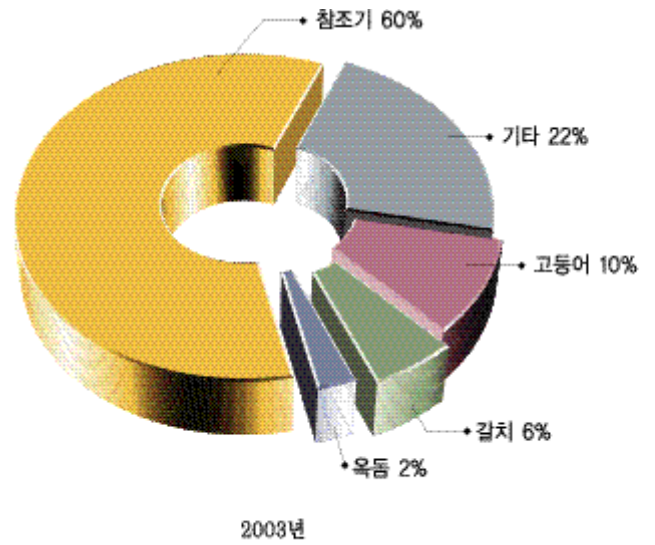
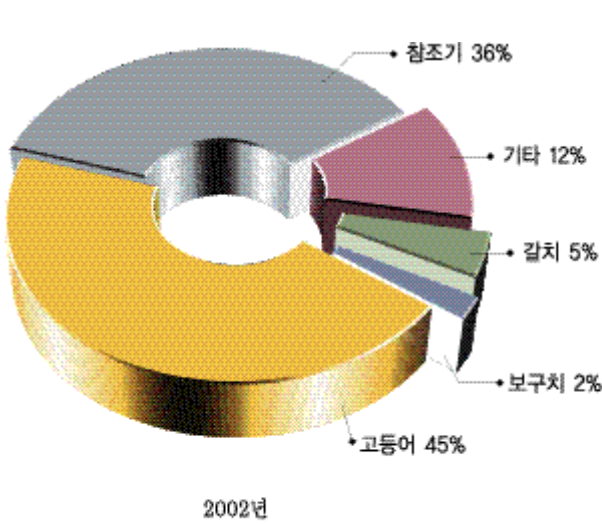
CPUE . CPUE  
1998 120.5 가 , 2003 51.5 가 .  
. 1998 45 가 , 2000 75 가 .





2-21.

2002 8 , 11 2003 11  
 25,000kg , 2003 5~6 1,000kg .

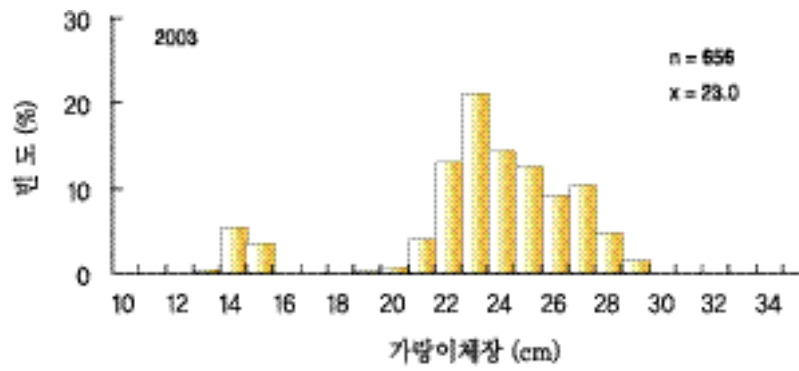


2-22.

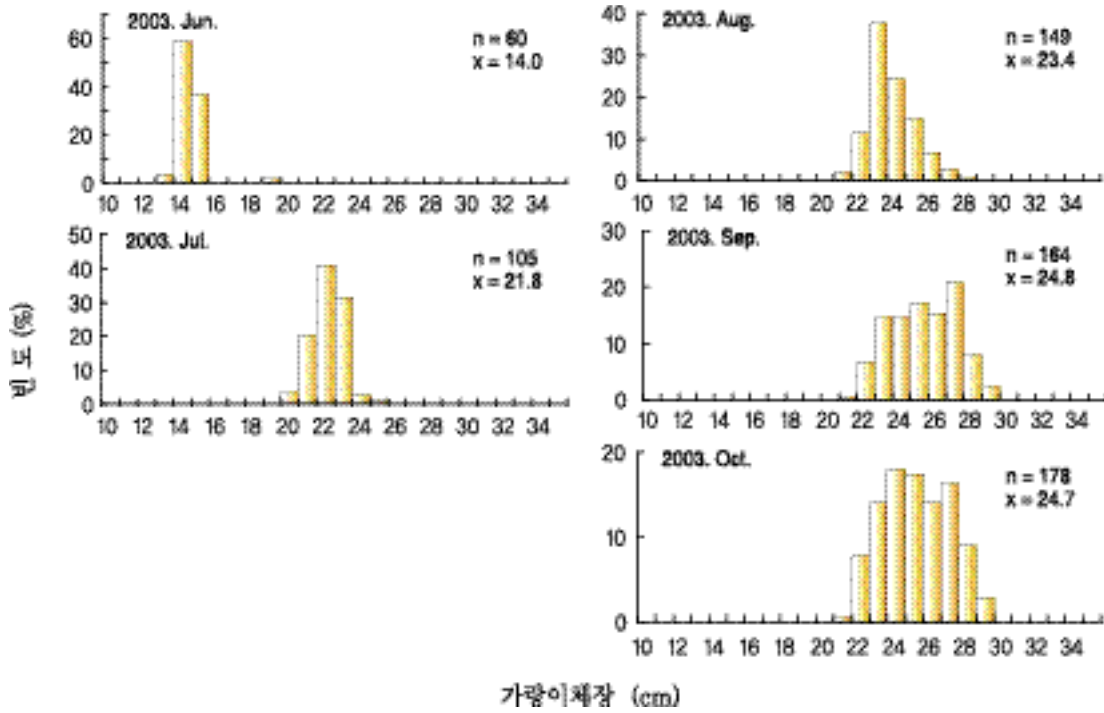
고등어 45% ,  
 참조기 36%, 기타 12%, 갈치 5%  
 . 2003 갈치 6%, 목돔 2%,  
 참조기 60%, 기타 22%, 고등어 10%



2003 (6-10 ) 가 23.0 cm ( 656 )



2-23.



2-24.

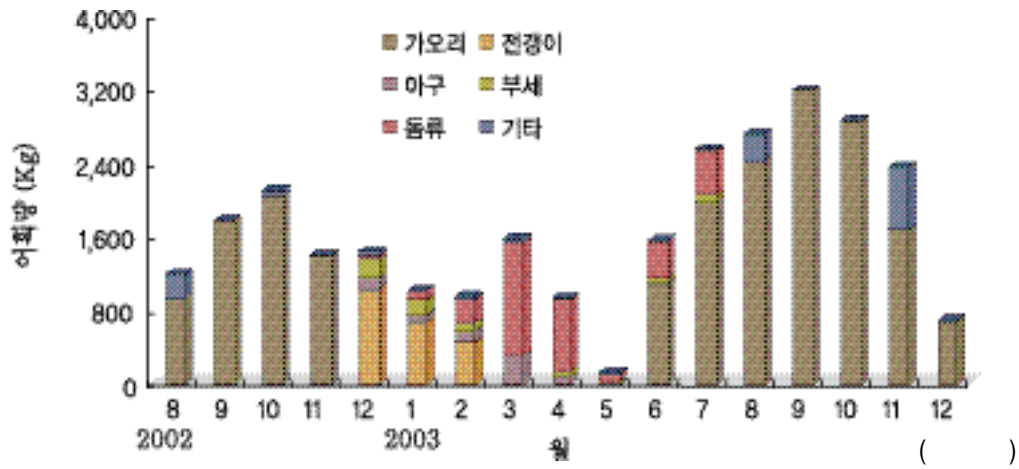
2)

가)

(CPUE)

2003

9,220 , 54,098

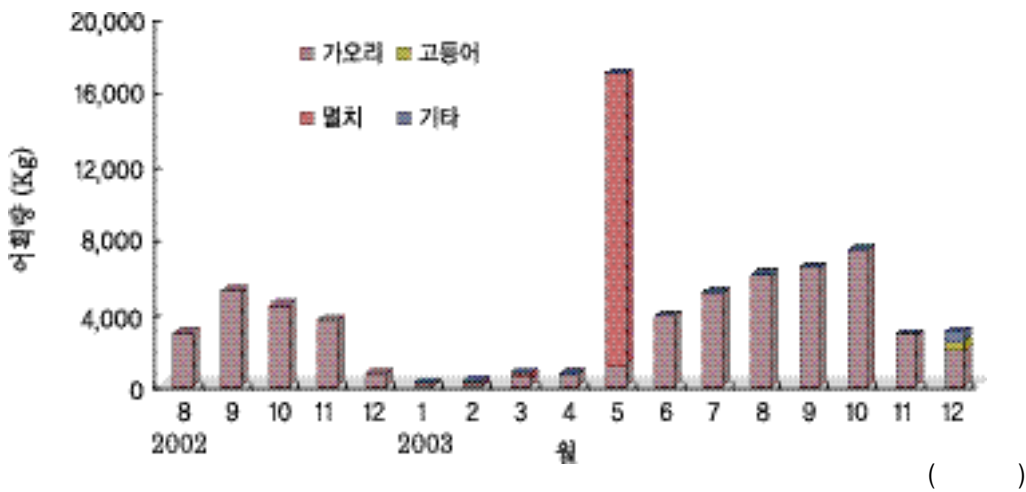


2-25. (5 )

5

2003 9 3,185kg 가

, 2003 5 118kg 가



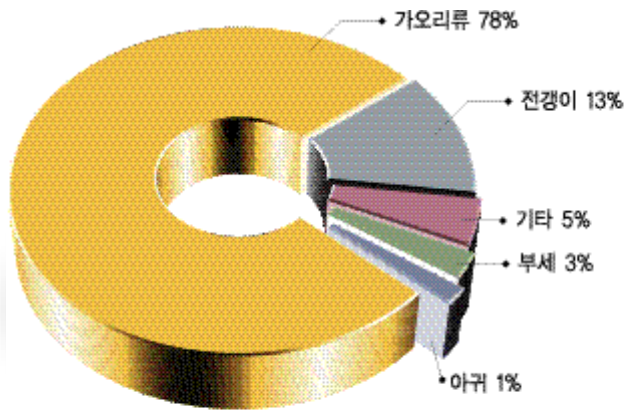
2-26. (5 )

5

2003 5 16,865kg 가

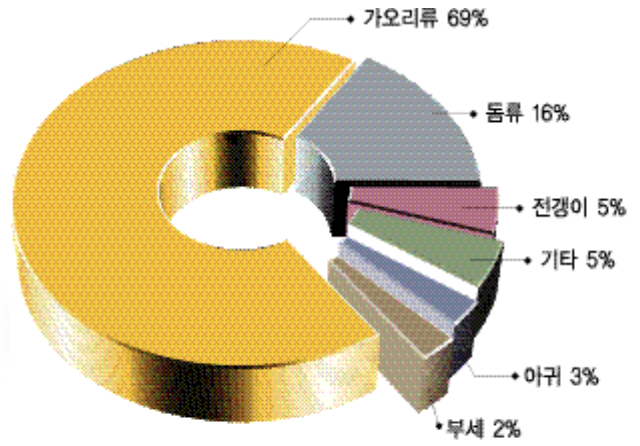
, 2003 1 165kg 가

1~4



2002년

2-27.

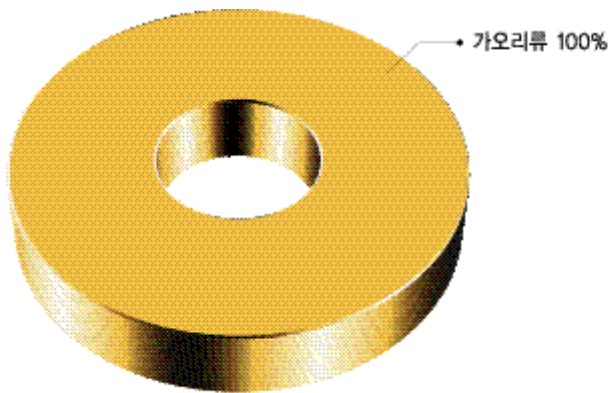


2003년

(5 )

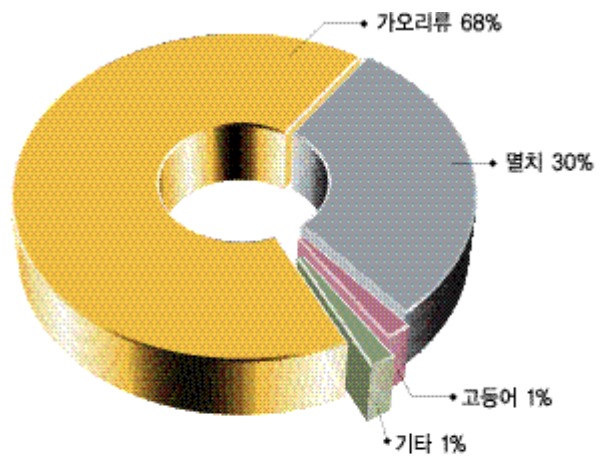
5  
가 78%, 가 13%, 가 5%  
가 16%, 가 5%, 가 5%

2002 가  
, 2003 가 가 69%,



2002년

2-28.



2003년

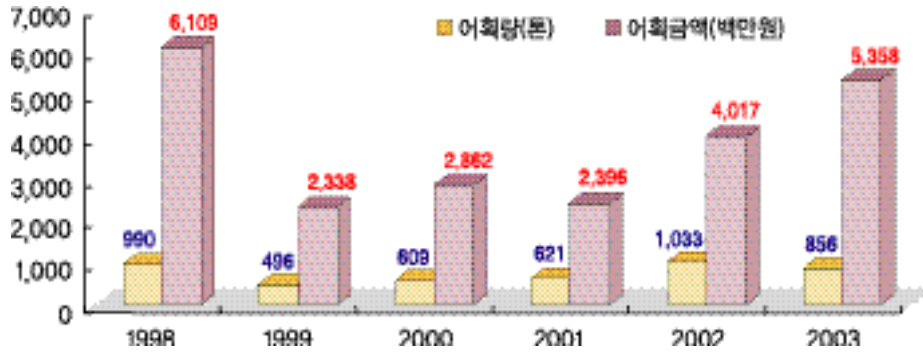
(5 )

5  
2003 가 가 68%,

2002 가  
가 30%, 가 1%, 가 1%

)

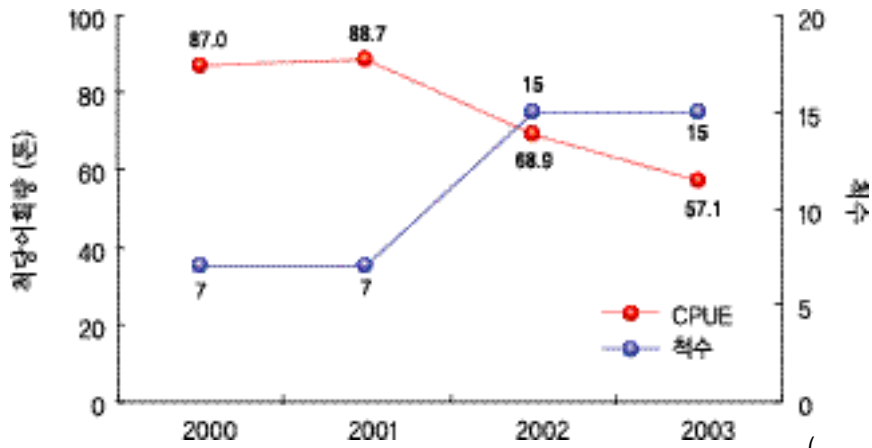
(CPUE)



( )

2-29.

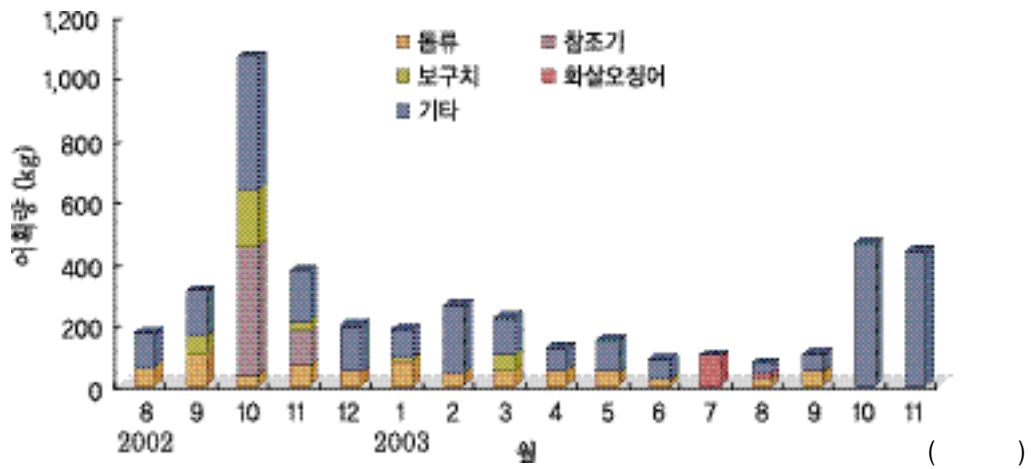
2002 1,033 가 ,  
 1999 496 가 . 1999 6,109 가  
 , 1999 2,338 가 .



( )

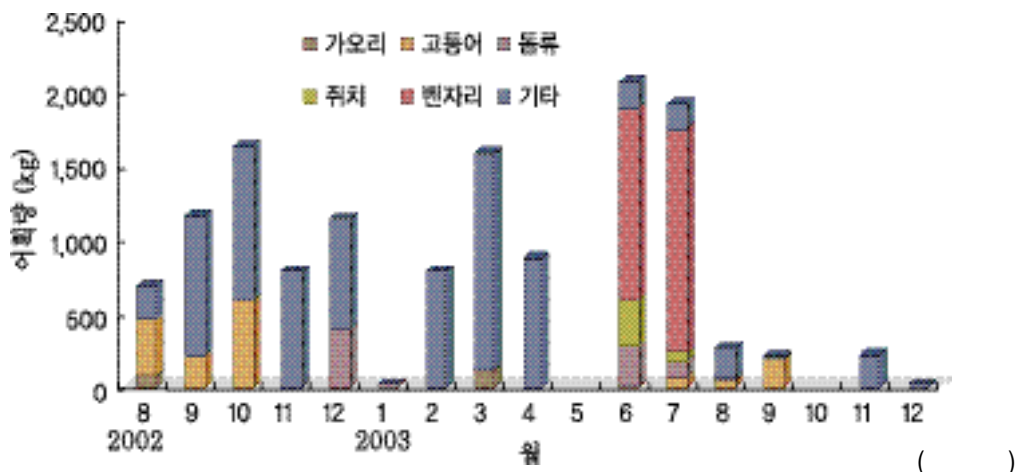
2-30.

CPUE . CPUE  
 2001 88.7 가 , 2002 2003  
 15 .



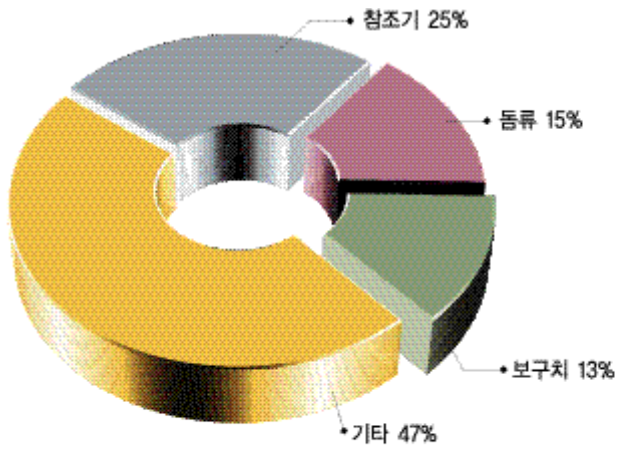
2-31. (5 )

5 1,064kg 가  
2002 10 300kg 가



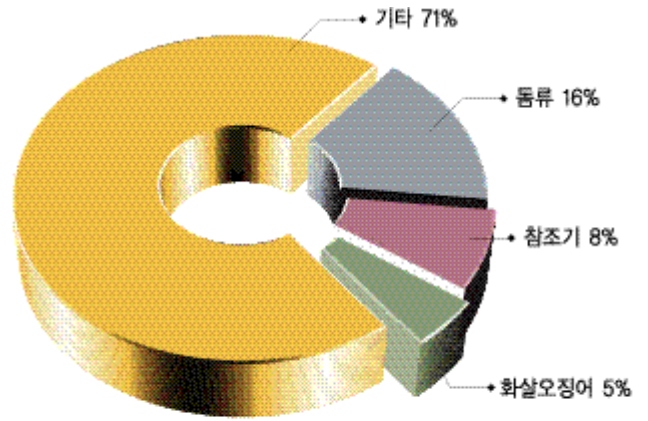
2-32. (5 )

5 2003 6 2,062kg 가  
, 2003 12 21kg 가



2002년

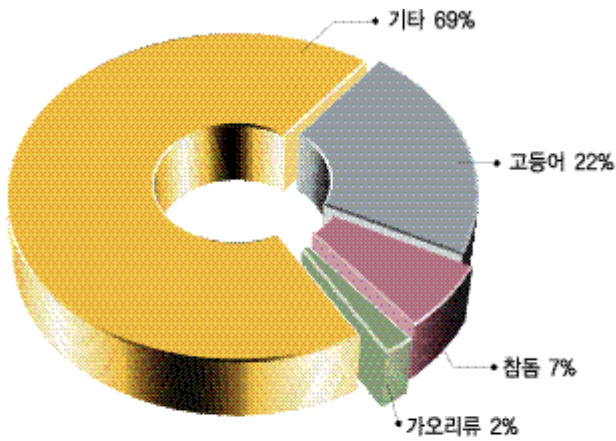
2-33.



2003년

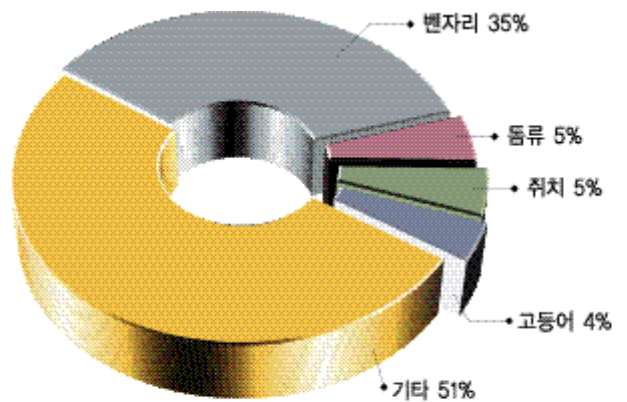
(5 )

5  
 가 47%, 가 25%, 가 15%, 가 13%  
 71%, 가 16%, 8%, 가 5%  
 , 2002 가  
 , 2003 가



2002년

2-34.



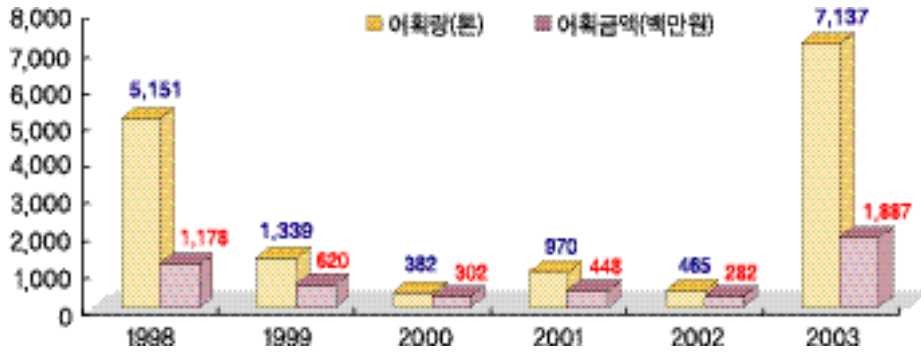
2003년

(5 )

5  
 가 69%, 가 22%, 7%, 가 가 2%  
 51%, 가 35%, 가 5%, 가 5%, 가 4%  
 , 2002 가  
 , 2003 가

)

(CPUE)

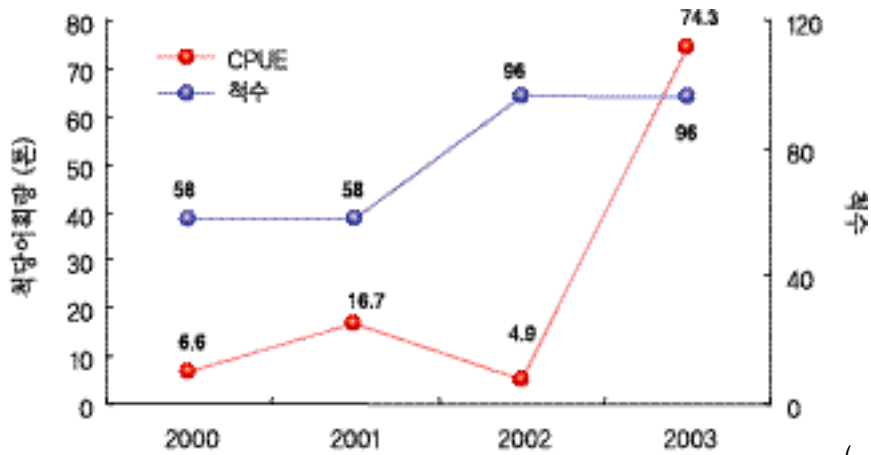


2-35.

( )

2003 7,137 가 ,

2000 382 가 .



2-36.

( )

CPUE

. CPUE

2000

2002 20

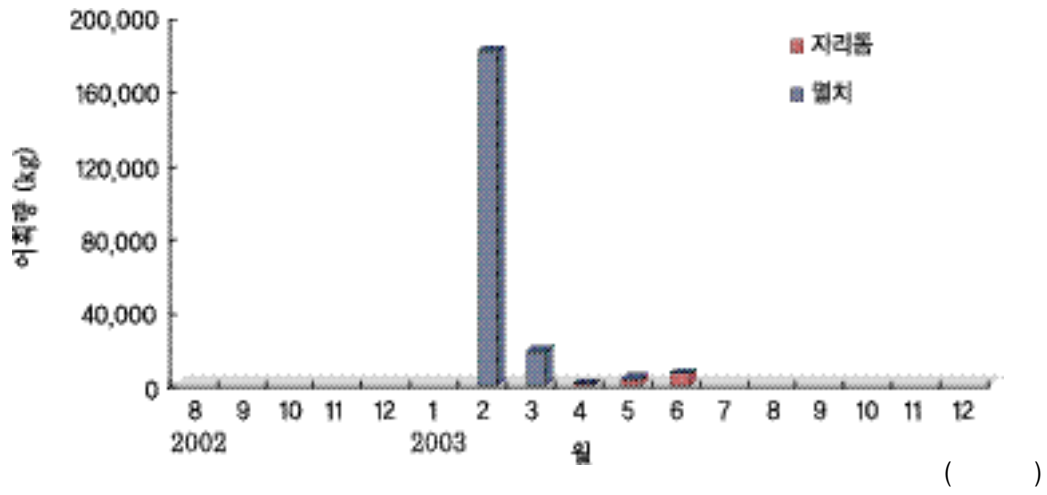
2003 74.3

가 .

2002 2003

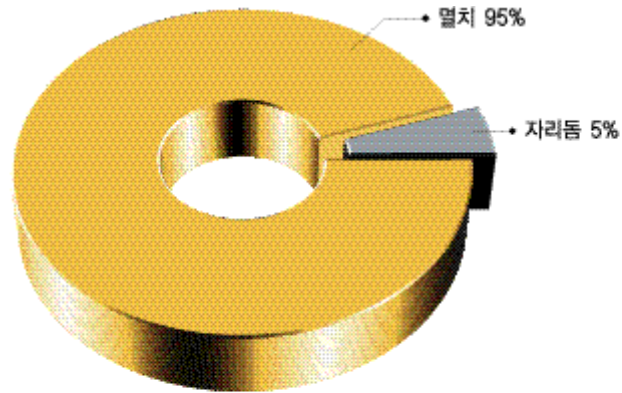
96 .





2-37.

2003 2 180,580kg 가 ,  
 2003 4 725kg 가 .



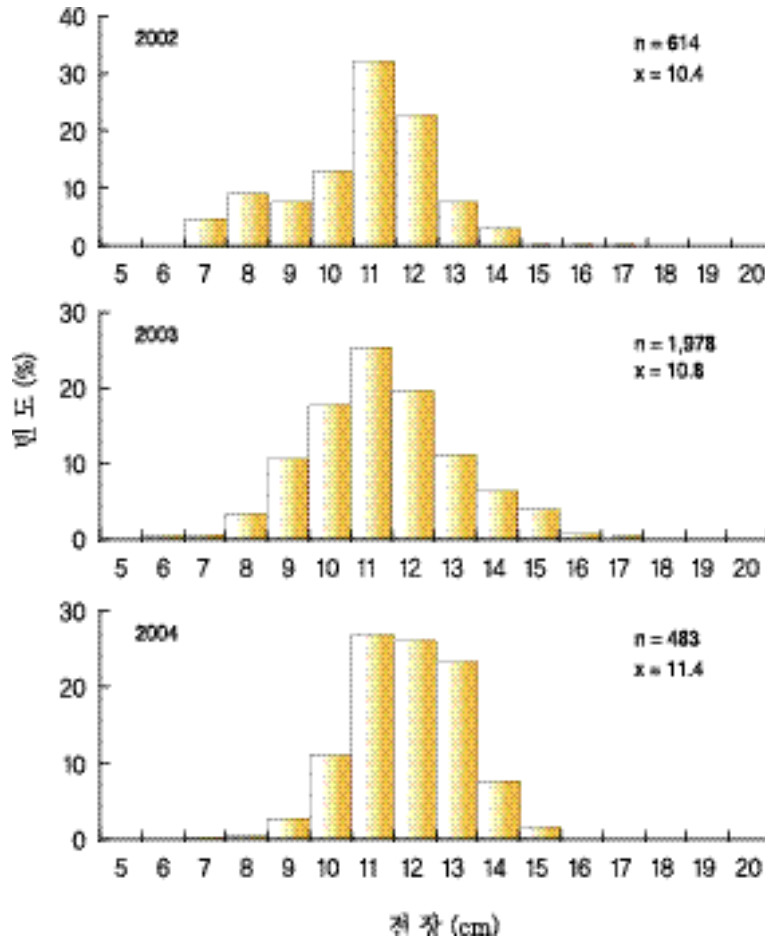
2003년

2-38.

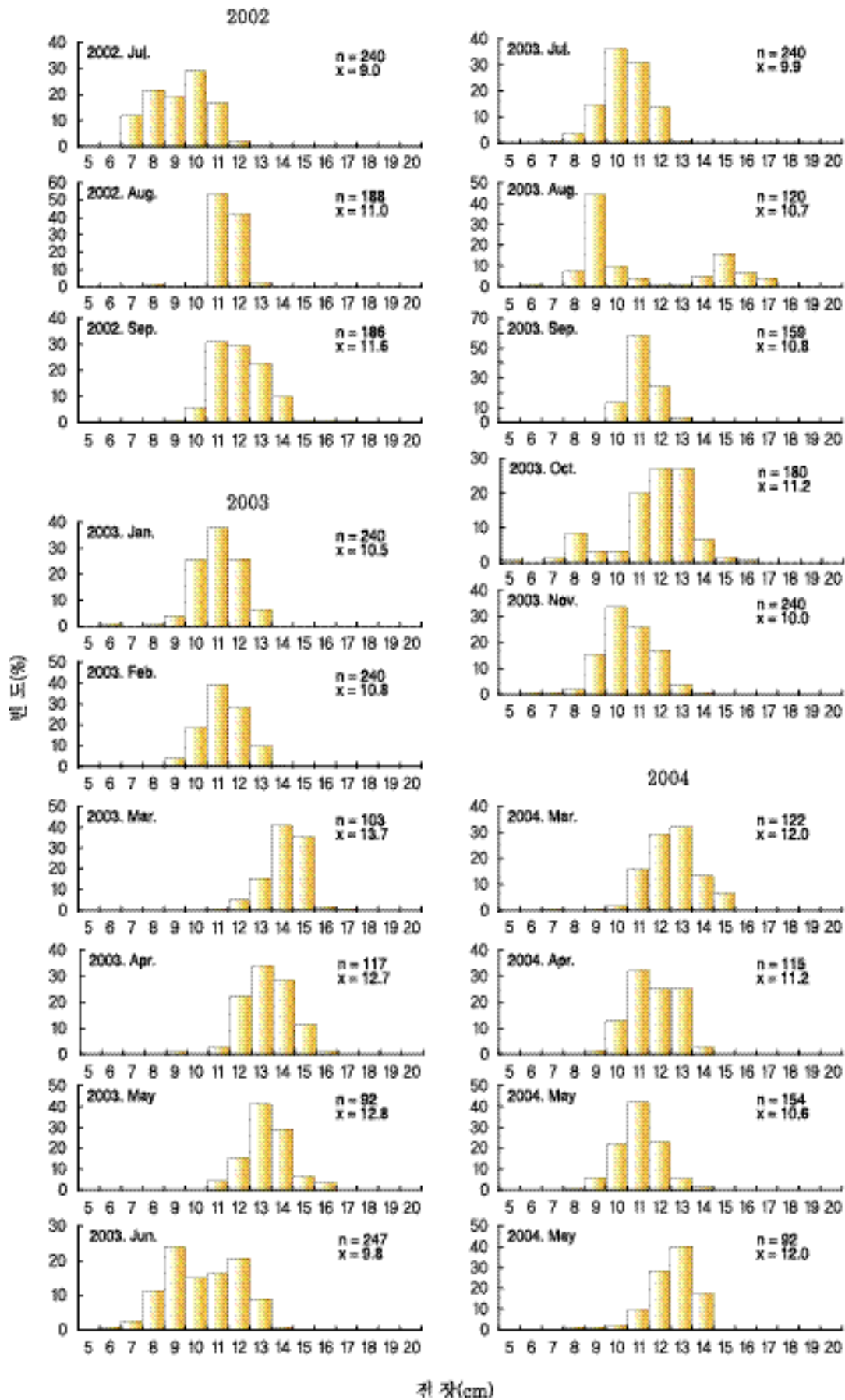
2003 , 가 95%, 5% .



2002 (7~9 ) (TL) 10.4cm ( 614 ) , 2003  
 (1~11 ) 10.8cm( 1978 ) 2004 (3~6 ) 11.4cm(  
 483 ) .

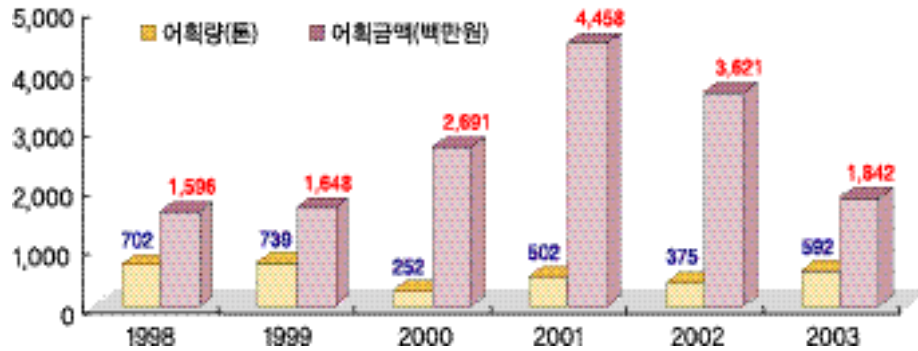


2-39.



3)  
가)

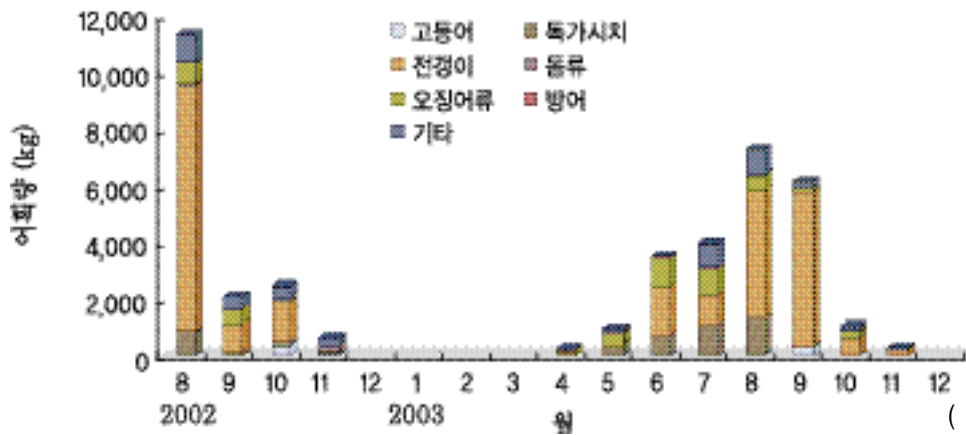
(CPUE)



( )

2-41.

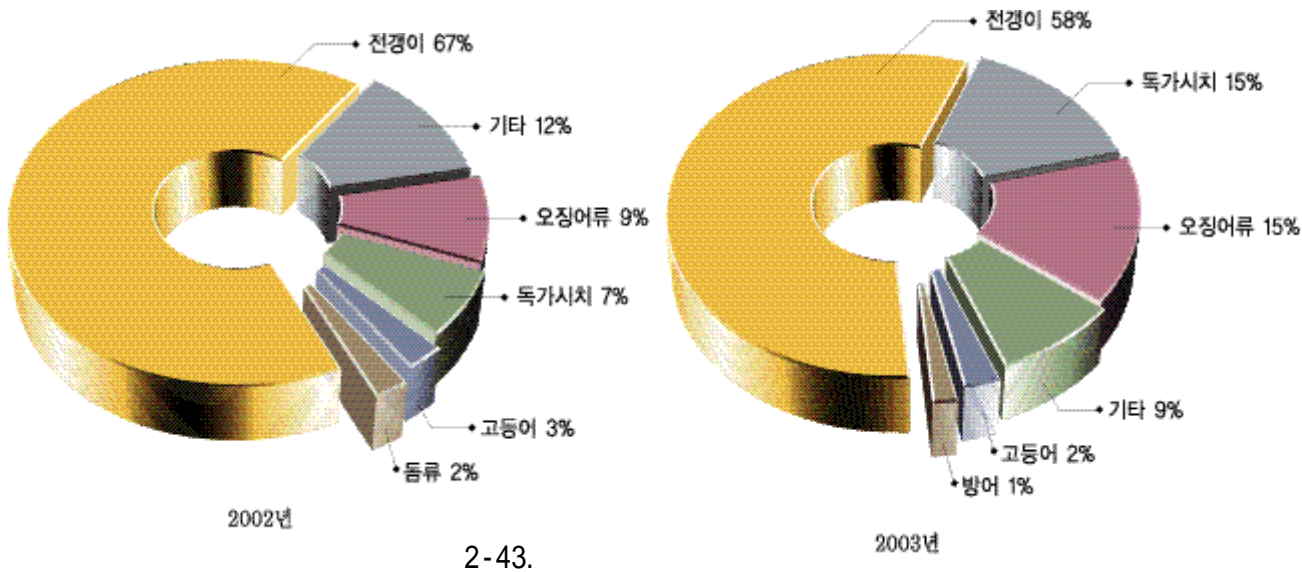
가 2000 252 가 2003 592 가  
 , 2001 4,458 가



( )

2-42.

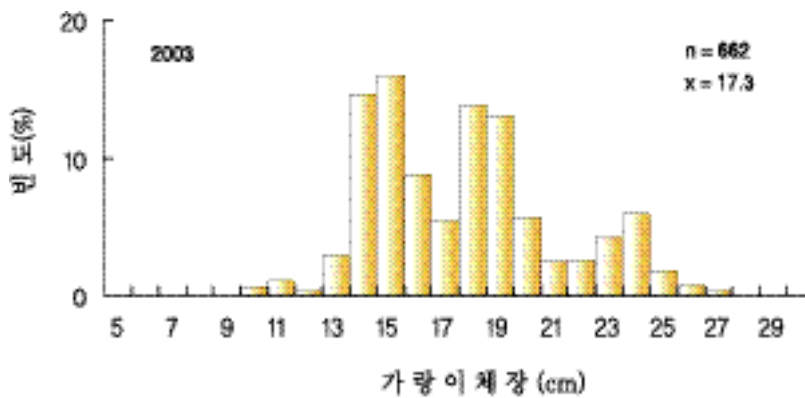
2003 4 241kg 가 2002 8 11,375kg 가



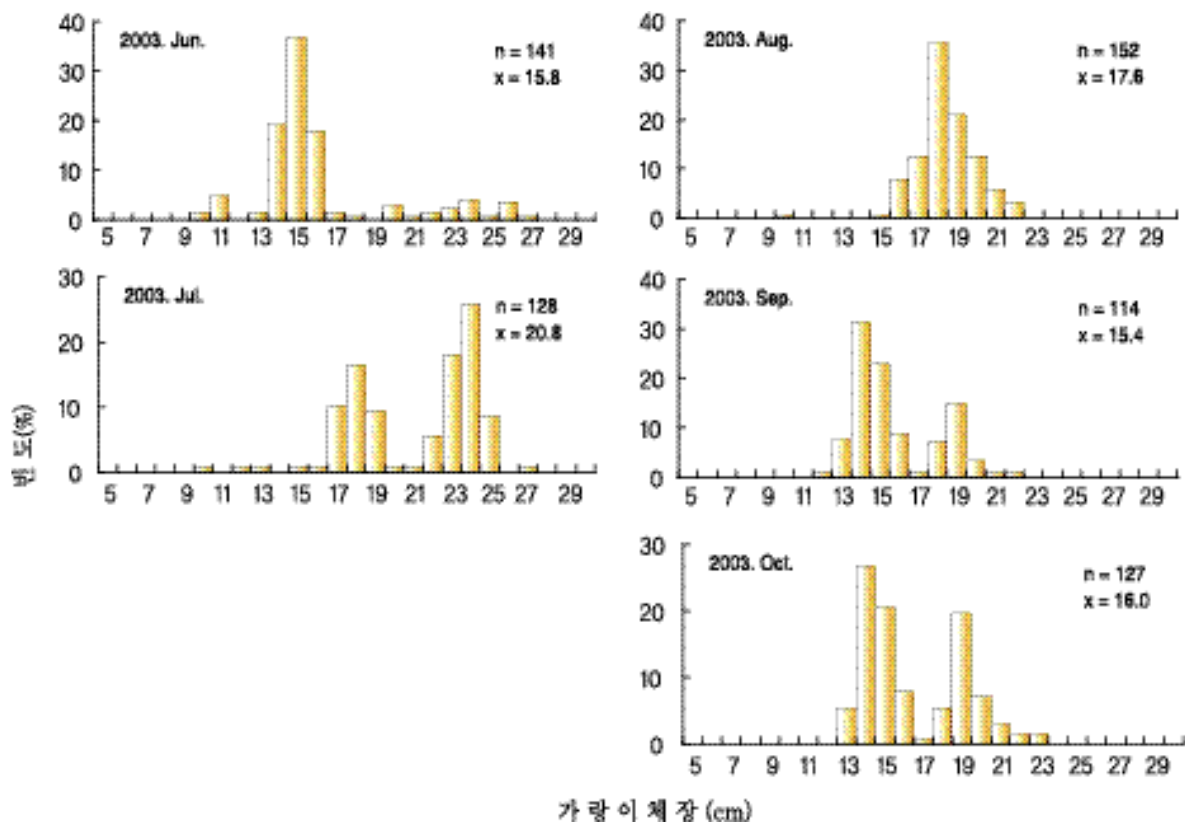
2-43.

2002년 전갱이 67%, 기타 12%, 오징어류 9%, 독가시치 7%, 고등어 3%, 뽕류 2%  
 2003년 전갱이 58%, 독가시치 15%, 오징어류 15%, 기타 9%, 고등어 2%, 방어 1%

2003 (7~10 ) (FL) 17.3cm ( 662 ) .

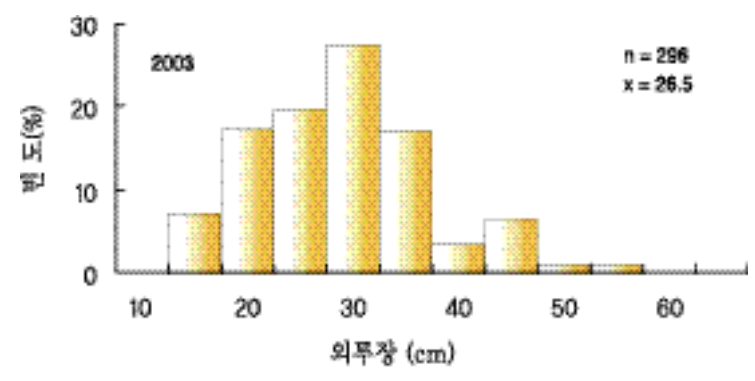


2-44.

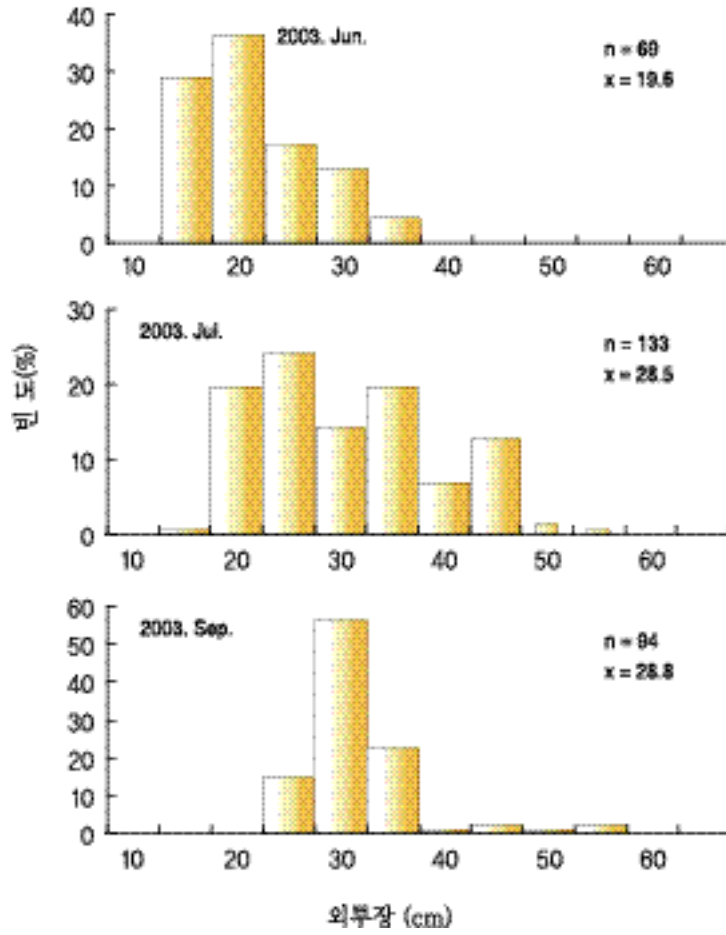


2-45.

2003 (6~7, 9) (ML) 26.5cm ( 296 )

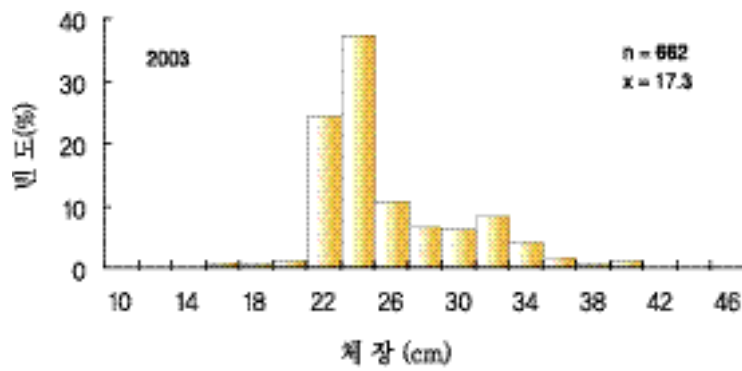


2-46.

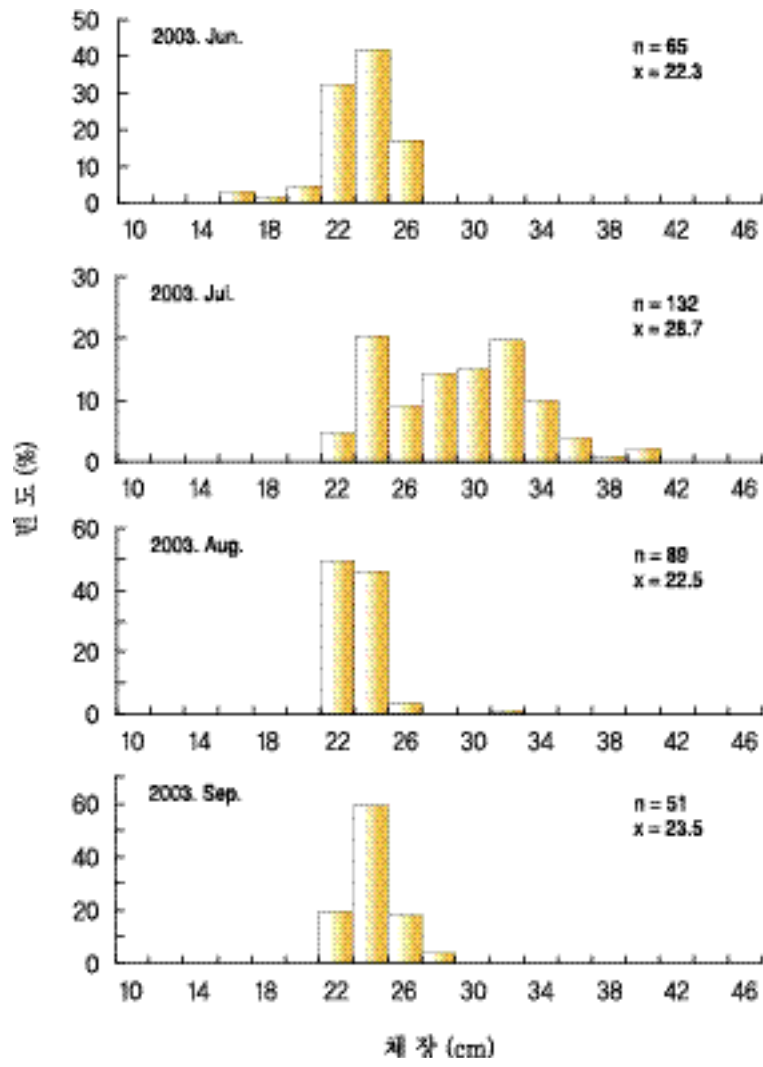


2-47.

가  
 가 2003 (6~9 ) (BL) 17.3cm ( 662 ) .



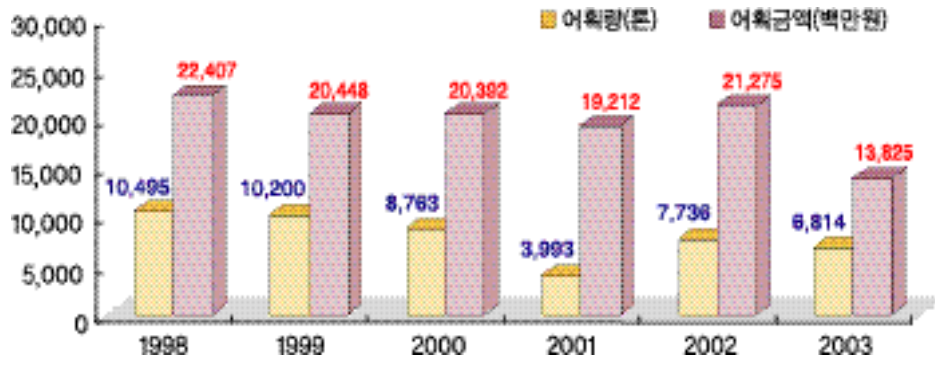
2-48. 가



2-49. 가

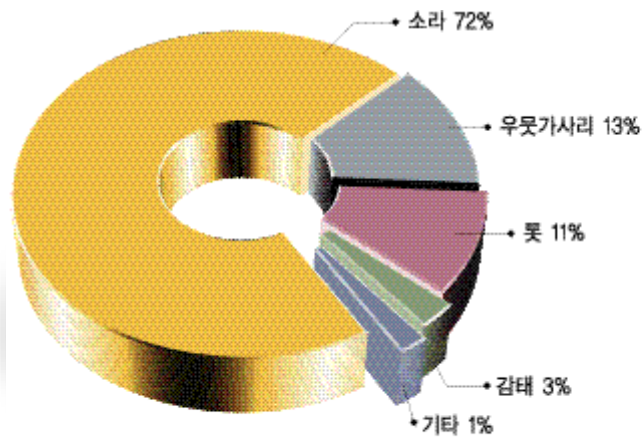
4)  
가)

(CPUE)



2-50.

. 1998 10,495 가



2003년

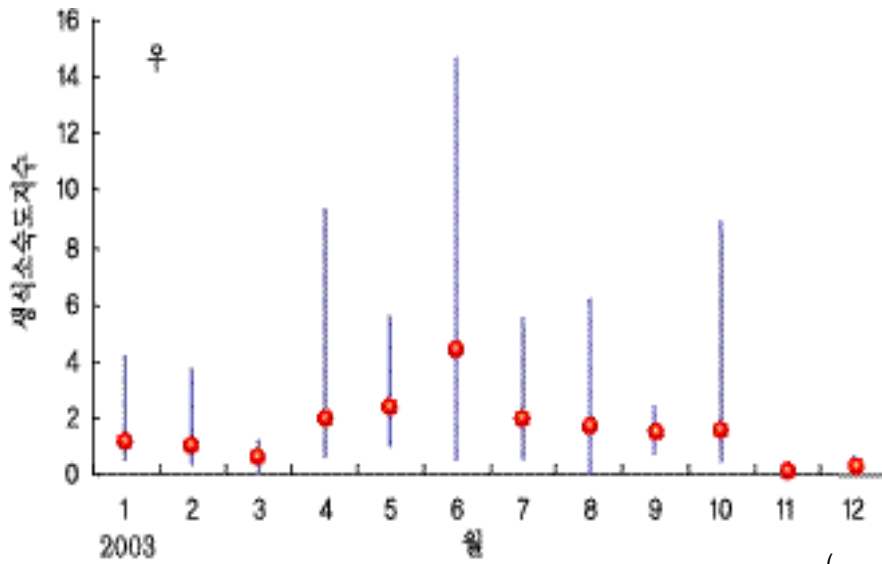
2-51.

2003 가 72%, 가 가 13%, 11%, 가

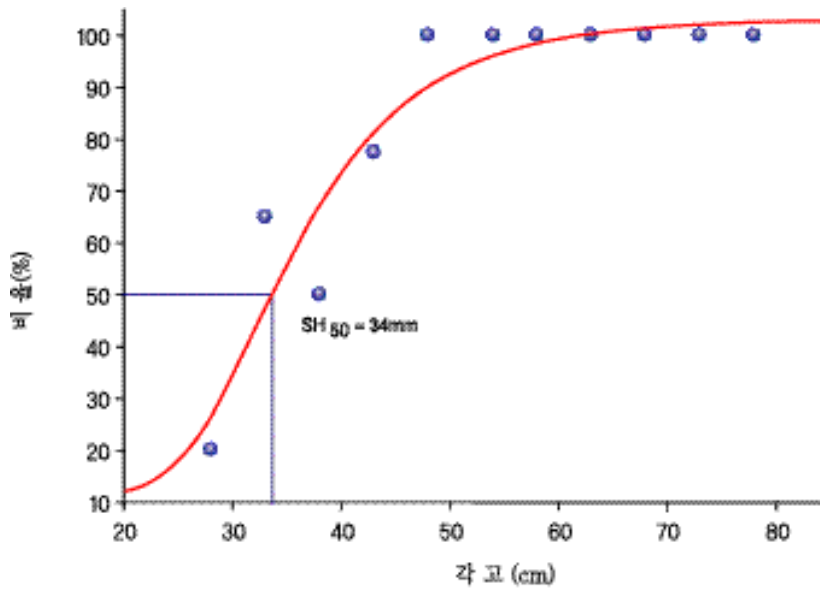
3%



7~9 (Lee, 1983), (2002) 6~8  
 . 2003 , 4 가  
 6 4.5 6

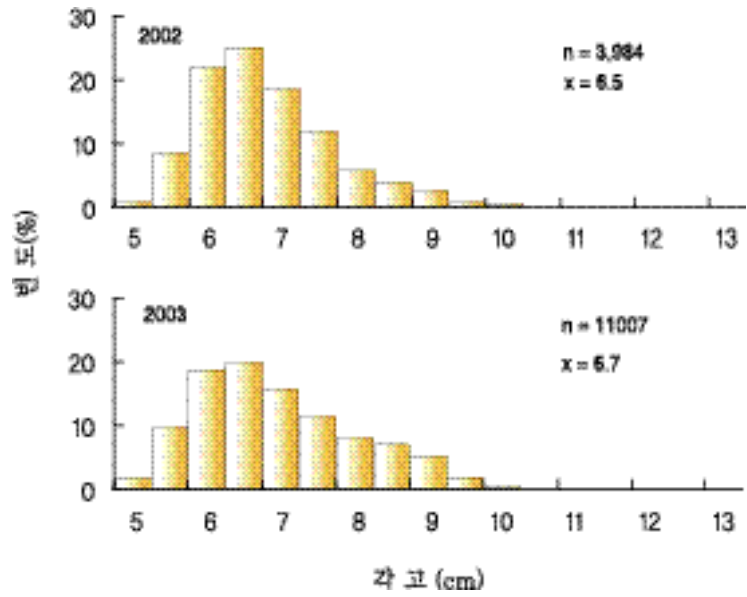


2-52.



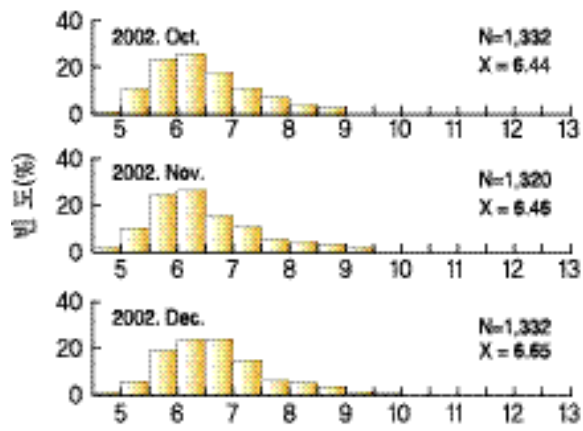
2-53.

2002 (10~12 ) 가 6.5cm ( 3984 ) , 2003  
 6.7cm ( 11,007 ) . 3.4cm  
 Bertabnfy 1.34 .

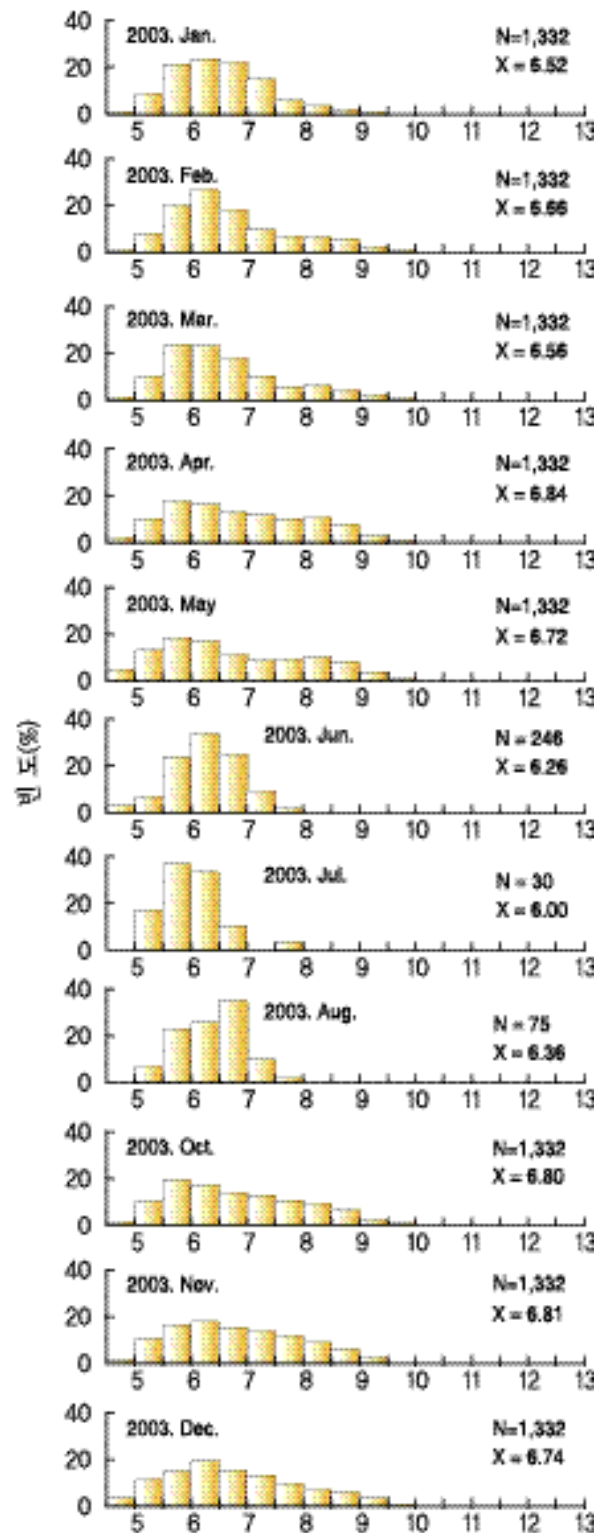


2-54.

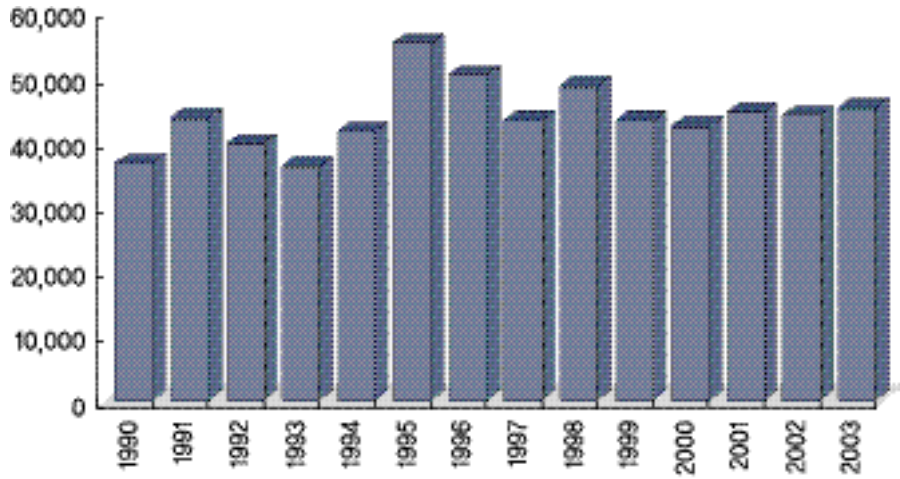
2002년



2003년



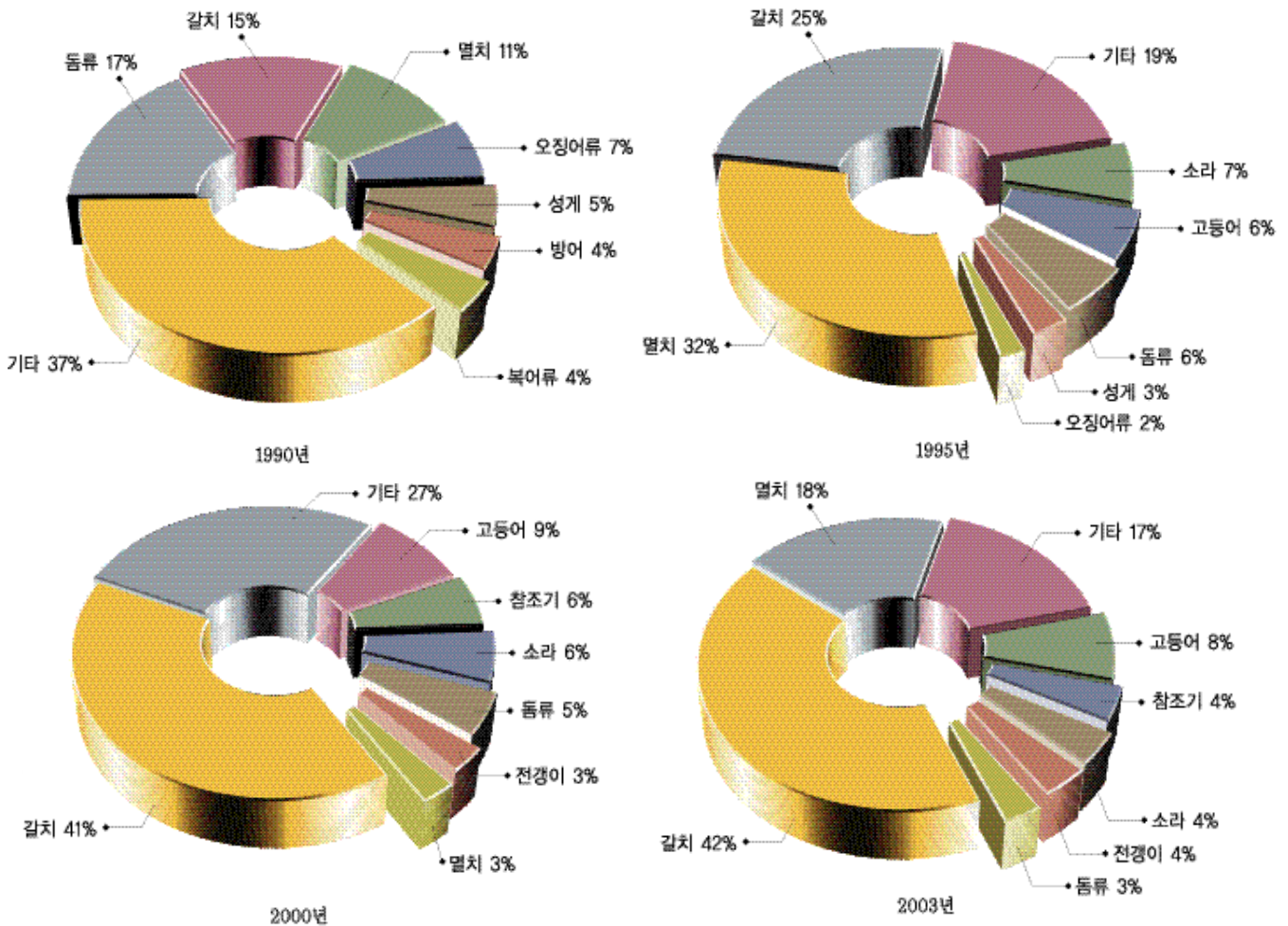
각 고 (cm)



2-56.

1990 2003 1995 55,199 가  
 , 1993 36,070 가 . 2002 2003 43,972  
 , 45,149 (43,798 )

1)



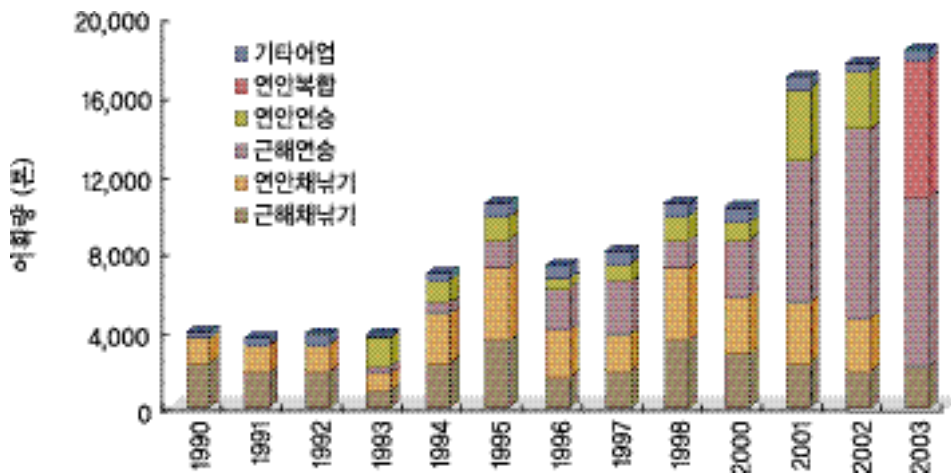
2-57.

1990 (3,877), 2003 (2,653), 1990 (7,678), (1,752), (1,161), (1,122), (1,056), 1995 (13,820), (10,499), (2,768), (2,615), (2,501), (1,161), (1,048), 가, 2000 (14,999), (3,394), (2,269), (2,055), (2,003), (1,291), (1,061), 가, 2003 (18,289), (7,983), (3,397), (1,830), (1,584), (1,567), (1,509) 2002 가

2)

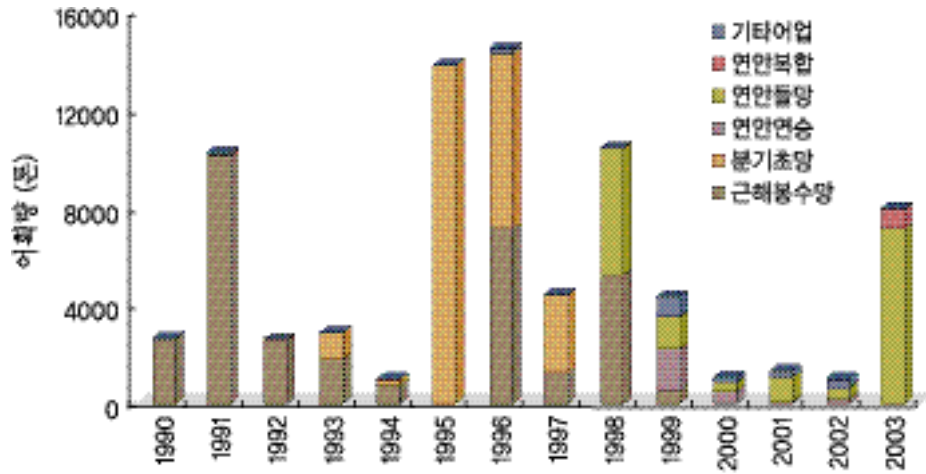
가)

2003 18,289 가, 1991 3,499 가 90% (2003 )



2-58.

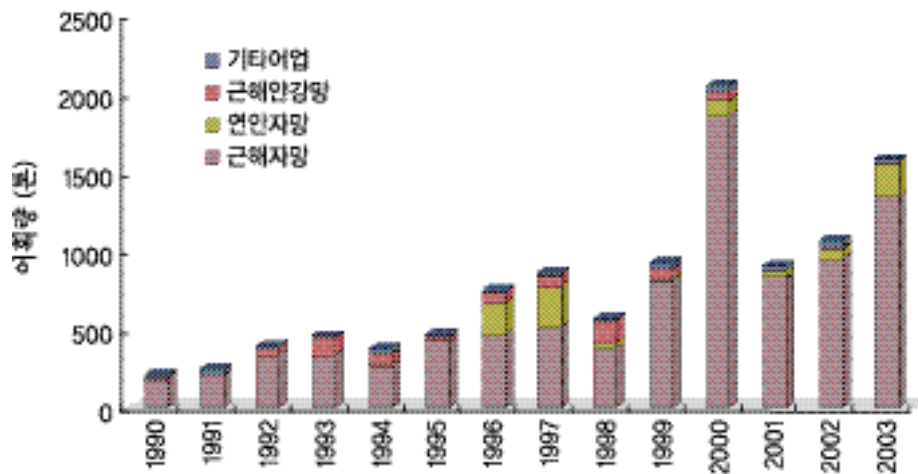
)



2-59.

1996 14,443 가 , 1994 990 가  
 . 1994 60~99%가 ,  
 1995~1997 50~100%자 . 1998  
 60~89%

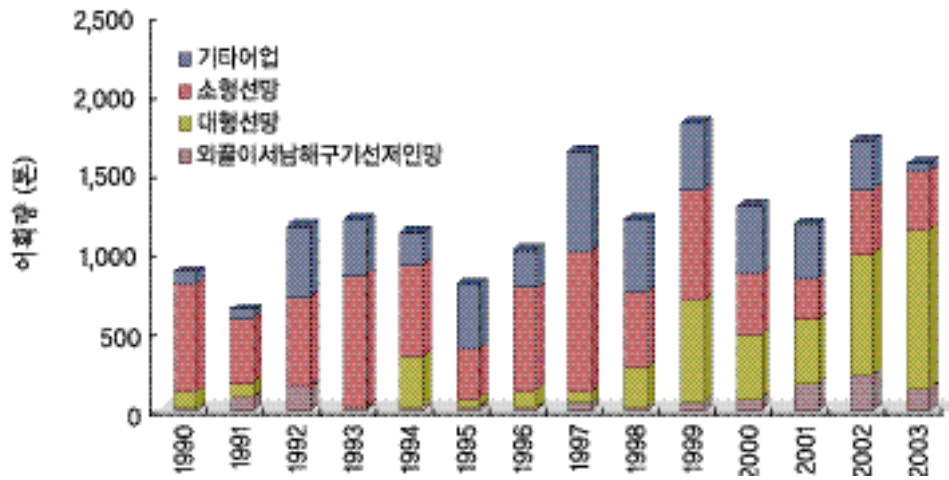
)



2-60.

2000 2,055 가 , 1990 199  
 가 . 1996~1998  
 70%

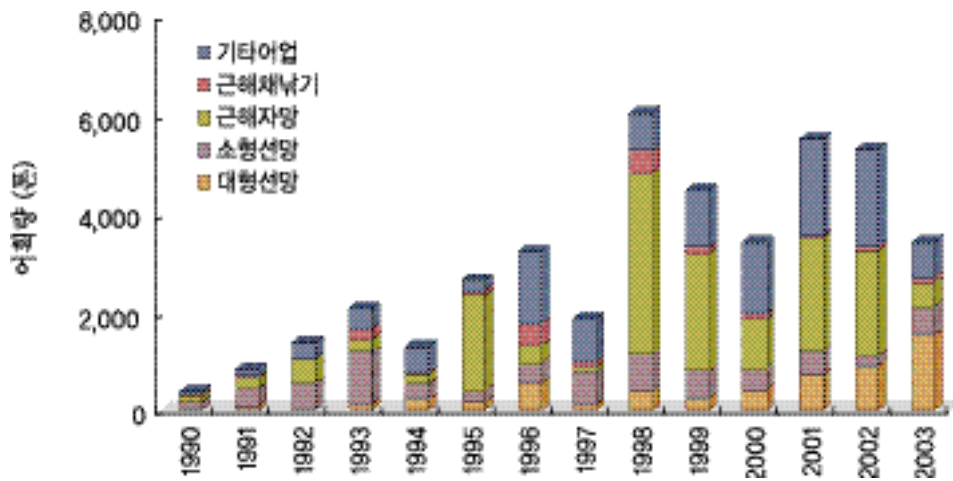
)



2-61.

1999 1,819 가 , 1991 637 가  
 . 1998 40~78% 1999  
 30% , 1998 30% 1999  
 30~64% 가 .

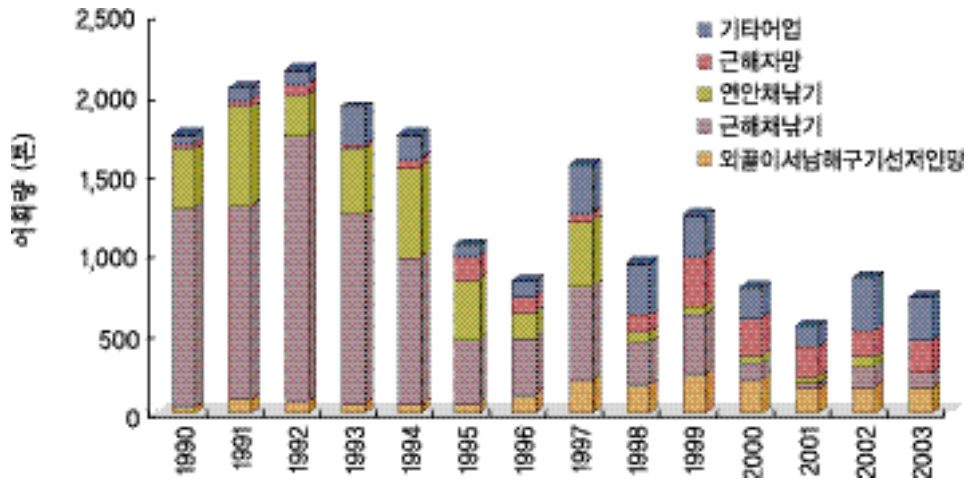
)



2-62.

1998 6,005 가 , 1990  
 394 가 . 1990 가  
 1990~1993 40~51%  
 1995 1998 2000 , 2003  
 40~74% .

)



2-63.

1992 2,160 가 , 2001  
 543 가 . 1990 , 1992  
 78% 90  
 , 2001 8% 가



# [ 3. ]

가.

3-1.

가	吳	吳	吳	吳	吳	吳	吳	吳
		吳	吳		吳		吳	吳
		吳						吳
		吳						吳
								吳
								吳
								吳
								吳
								吳

( 吳 : , : )

1)

3-2.

		( )	( )	( )		
	,	9~2	11~30	8	110 /	100~150

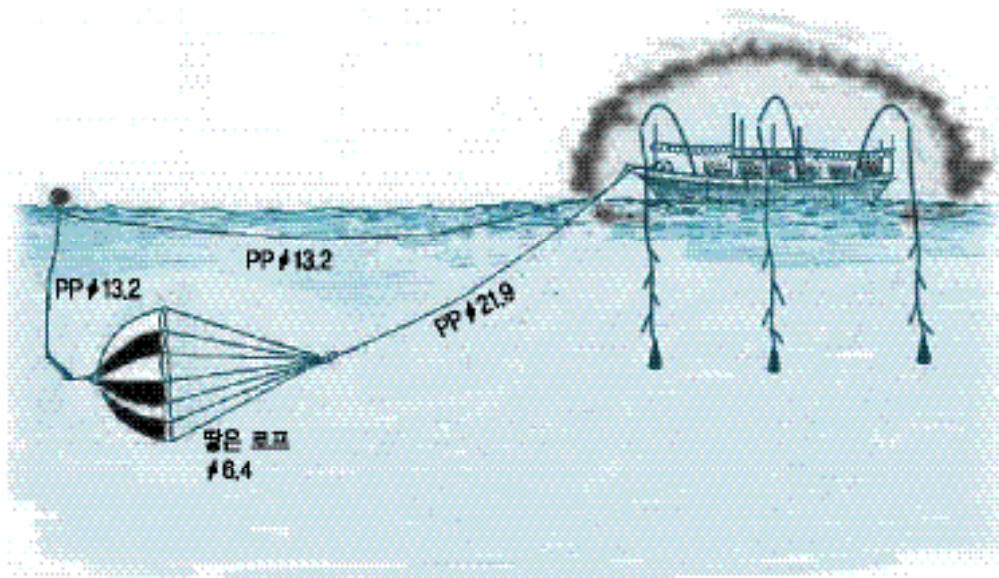
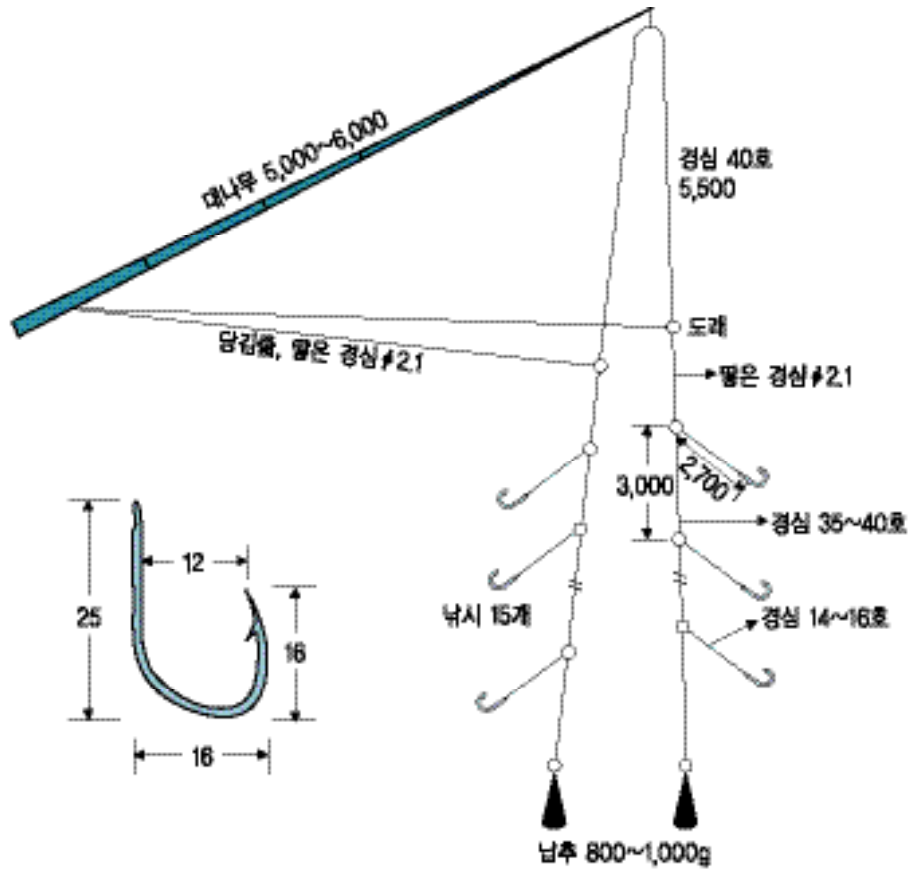
2)

3-3.

		( )	( )	( )		
		6~10	5~8	5	15 /	2 /
		10~12	3~4	2	100 /	20~50
	,	9~3	3~7	2	70~80	1
		1~7	6~8	4	300~500 /	10~13
	,	5~12	1~3	4	30.3~50.5mm	1
		2~7	7~8	5~7	6.3~55.0mm	1
		3~4	6~8	1	33.7mm	1
		9~11	3~10	8~11	25.3~80mm	1
		4~7	4~6	3	73mm	60
		9~12			131.7mm	
		5~3				

3)

가)



: (6~10 )

: 60~140m, ,

:

:

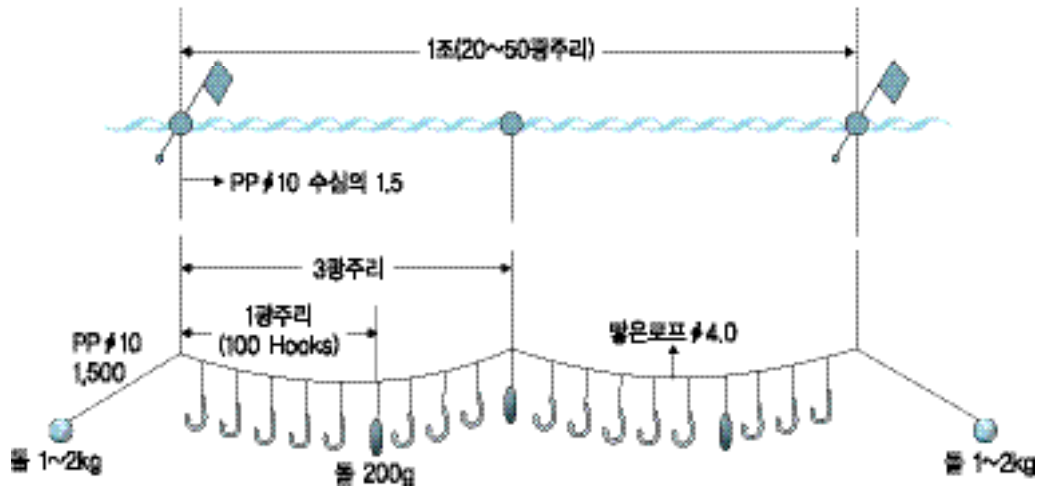
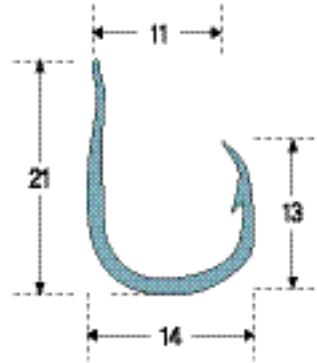
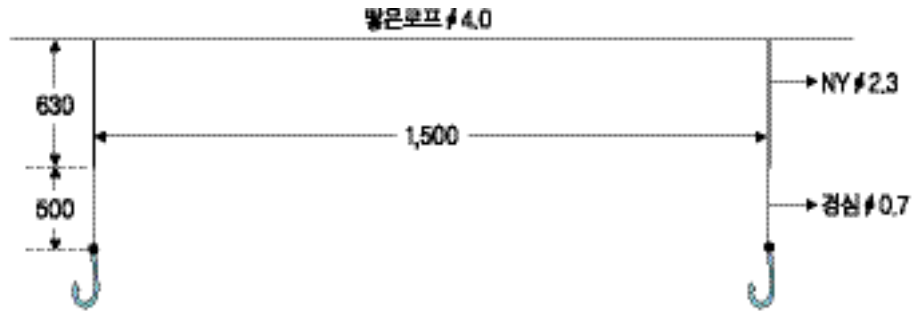
:

	45mm		40	2
35~40		,	14~16	2.7m
1	.	3m	15	.
			( 2.1mm)	.
			1.5kW	30

가

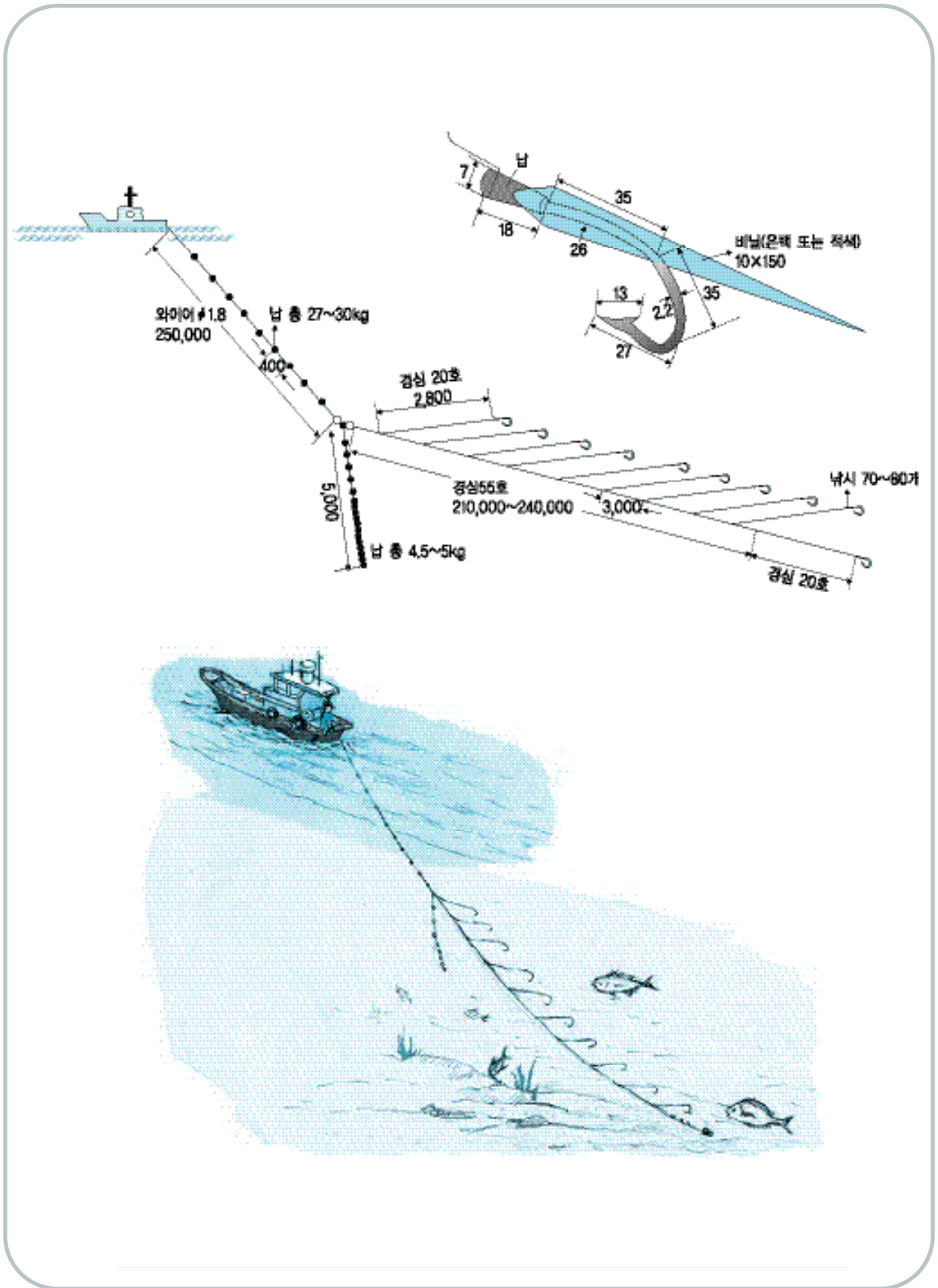
	.	1	2	1	가
가	.	2	,	1~2	,
	,	1	1	.	2

)



: (10~12 )  
 : 10~50m,  
 : (80%), (20%)  
 : , ,  
 :  
 4.0mm Ny 2.3mm 63cm 0.7mm  
 50cm 1.5m 1 .1 ( )  
 100 ) 200g , 3 ,  
 200g .1 20~50 .  
 , 2  
 가 , 1~2 가  
 (2 ) 가  
 , 5~6 . 10 , 1 1 .

)



: 9~3

: 25~40m,

:

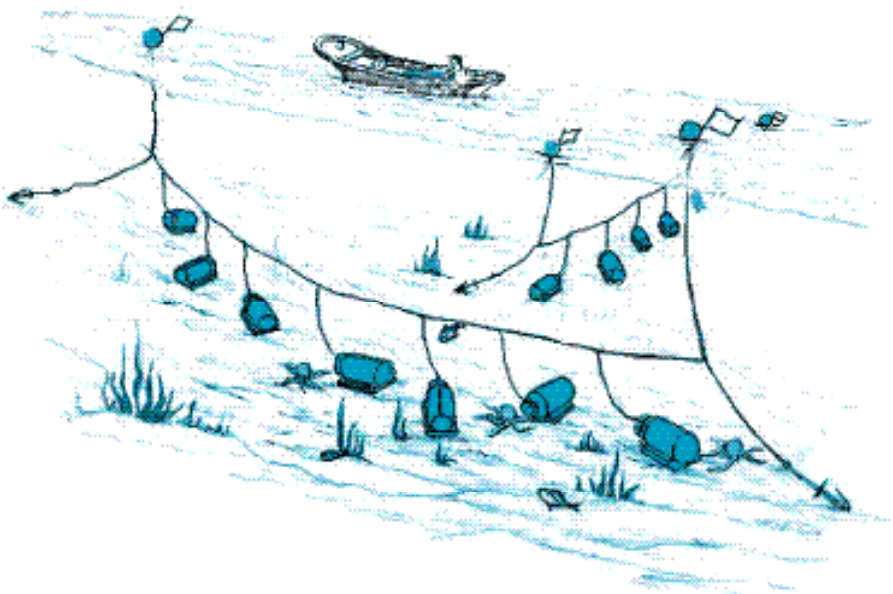
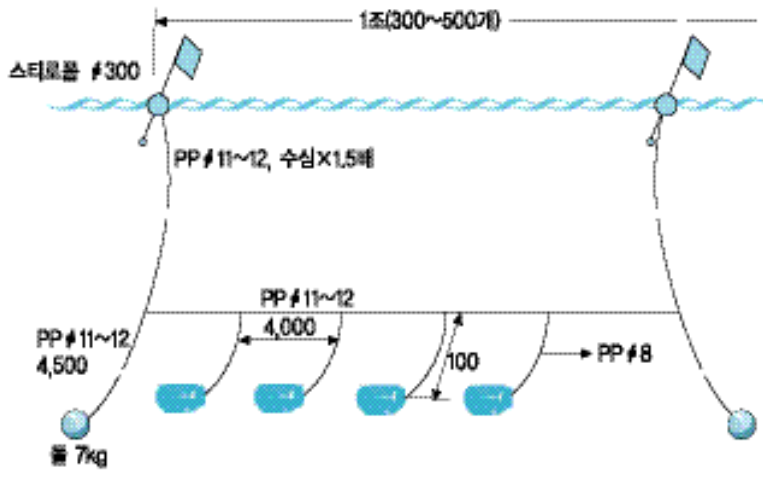
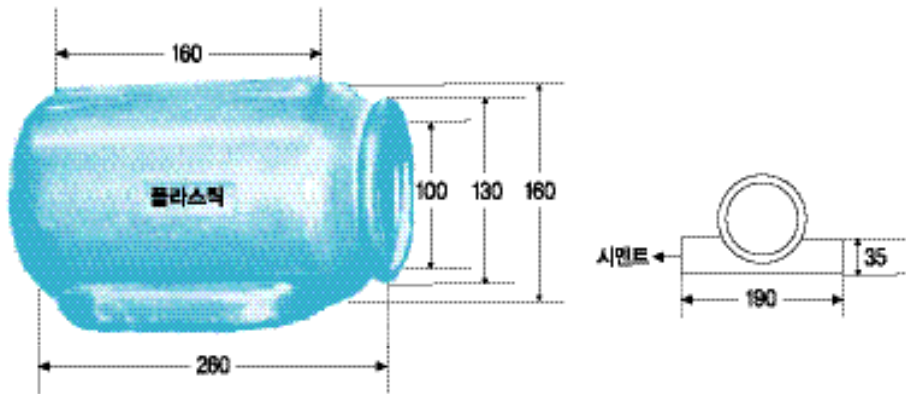
:

:

1.8mm , 55 , 20 , 40cm  
 가 27~30kg , 가 4.5~5kg  
 . 2.7~3m 2.5~2.8m , 1  
 70~80 .  
 , 2~3



)



: 1~7

: 20~30m, , , ,

:

:

가

, 가

PP 11~12mm

4m

PP 8mm

10cm

10cm,

260cm ,

300~500

1

10

5~6

1

가

1



: 5~12

: 15m,

: , , , , , 가

:

.

, .

가 28m, 22m, 13.5m , PP  
 21~24mm , Ny Td210 21 43.3mm , Ny  
 Td210 32 43.3mm Ny Td210 21 30.3mm .  
 Ny Td210 32 50.5mm 150m .  
 40m

3

30~40kg

.

,

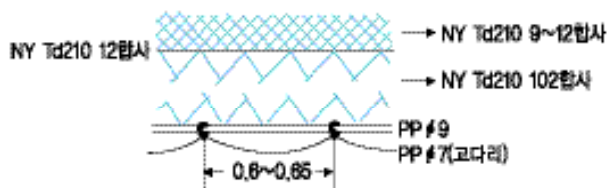
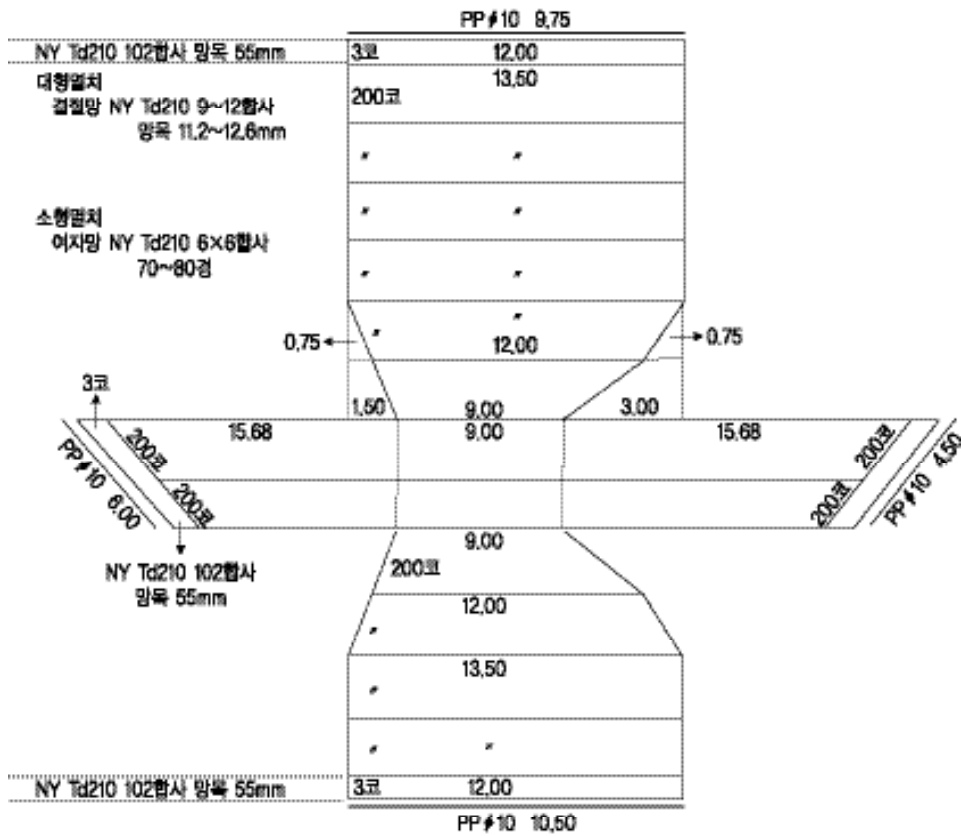
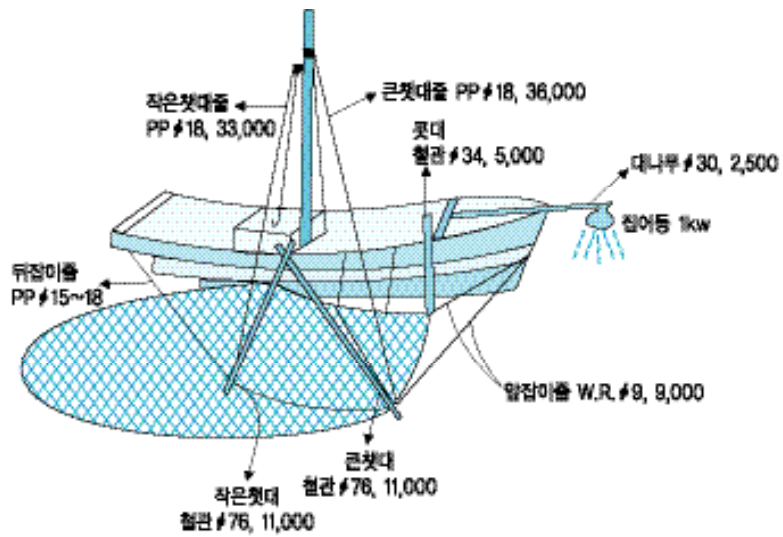
.

,

.

, 15 , 1 .

)



: 2~7

: 2~40m,

:

:

11m , 34mm 5m . 76mm  
 가  
 W.R. 9mm , 가  
 PP 15~18mm .  
 1kW , ,  
 13.8mm ,  
 10.4mm, 7.8mm .  
 가  
 , 1kW 1  
 4m ,

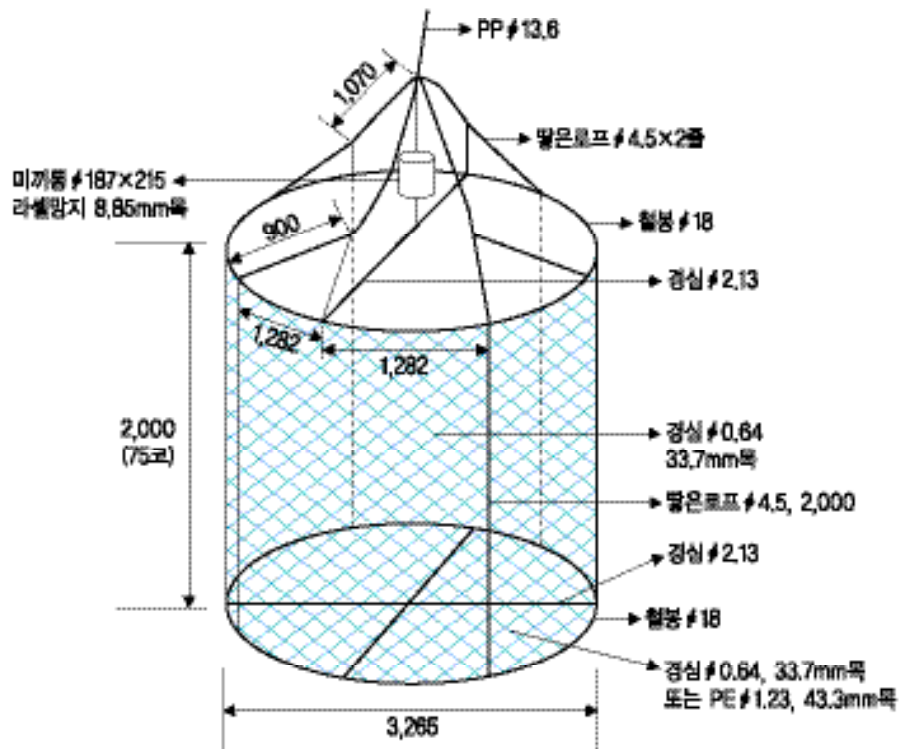
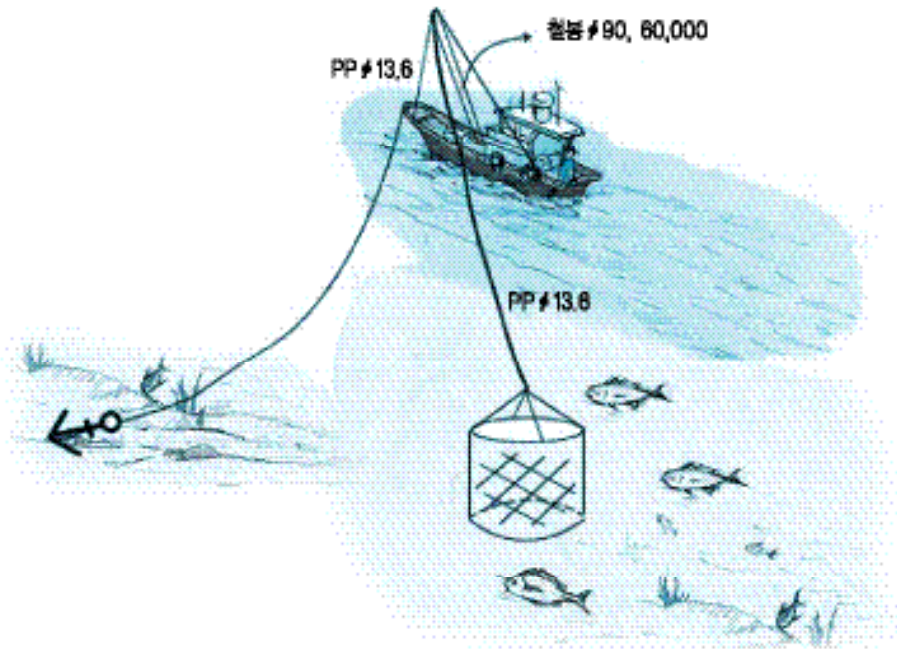
가

( ) 가

가

1 10~20

)



: 3~4, 9~11

: 20~50m,

: (90%),

:

:

가

18mm

가 ,

4.5mm

2m

가 4가 ,

0.64mm

33.7mm , ( 187x215mm)

2.13mm

가

가 ( )

10~15

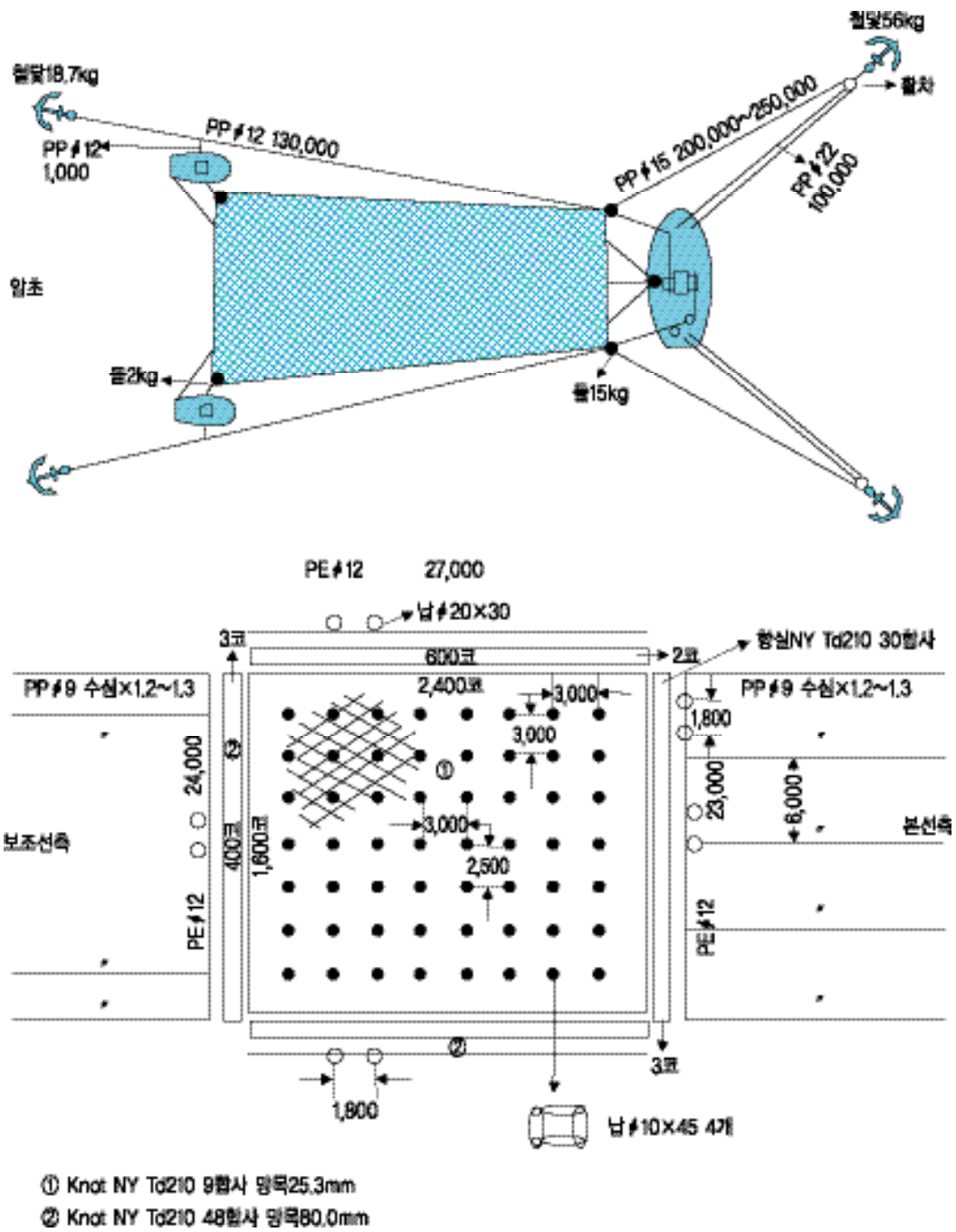
가 ,

2~3 ,

5~10 ,



)



: 3~6

: 5~60m,

: (95%),

:

, Ny 210Td 9 25.25mm

45% ,

57%

, 가

가

1

2

1

1

2

4~5

가

2

2

2

가

, 가

3

가

15 20

가

4 5

1 2

10 13

, 1

5

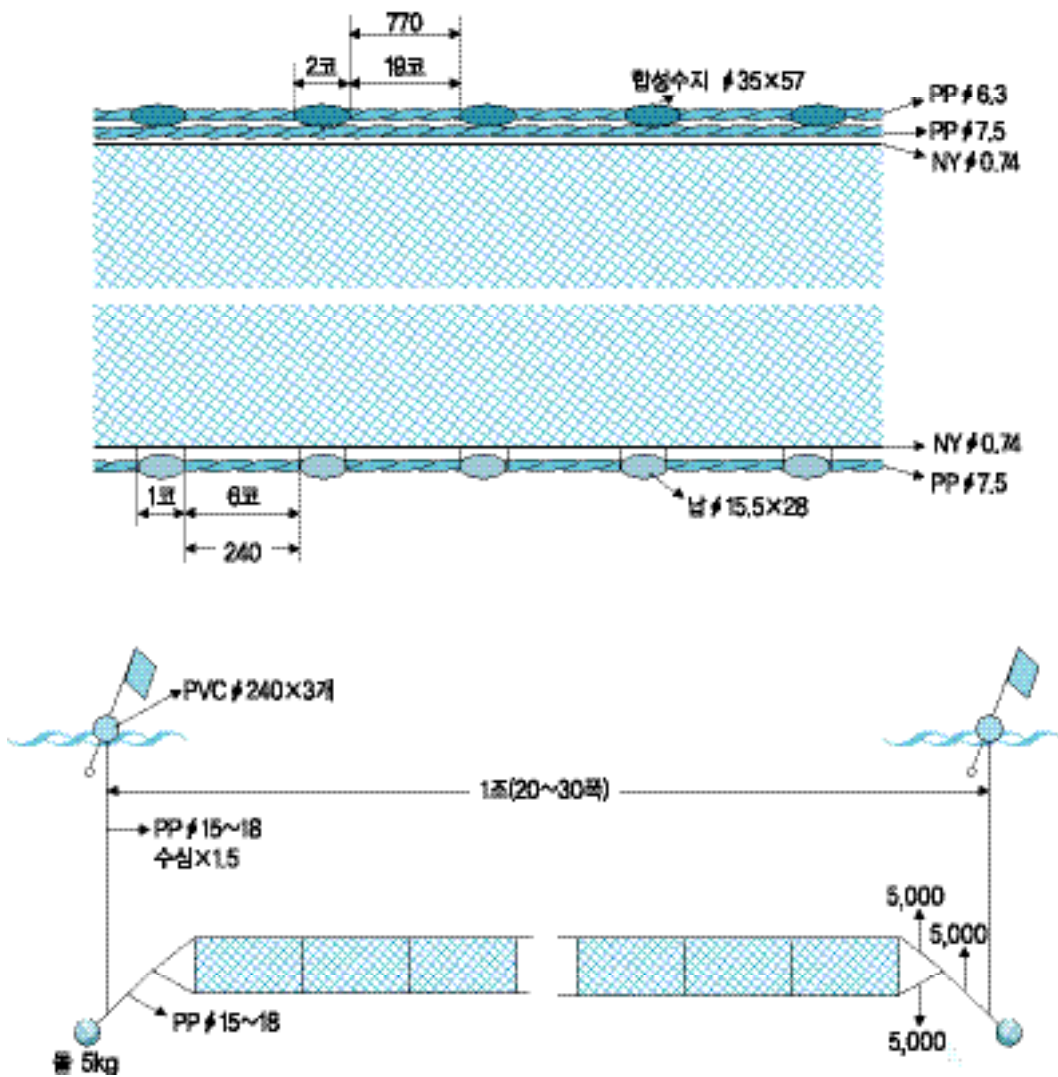
10 15

)

PP # 6.3, 84,000

1코	Knot NY Td210 9합사 망목 60mm	
48코	PE MONO # 0.36 망목 73mm	151,500
1코	Knot NY Td210 9합사 망목 60mm	

PP # 7.5, 71,200



: 9~12

: 50~150m, ,

: , ,

:

PE mono 0.36 73mm, NY Td210 9 60mm  
, 55% , 47% 가  
17 18% .

5 1 가 1 ,  
20~30 1 5kg

2~5 가

10~12 12 ,

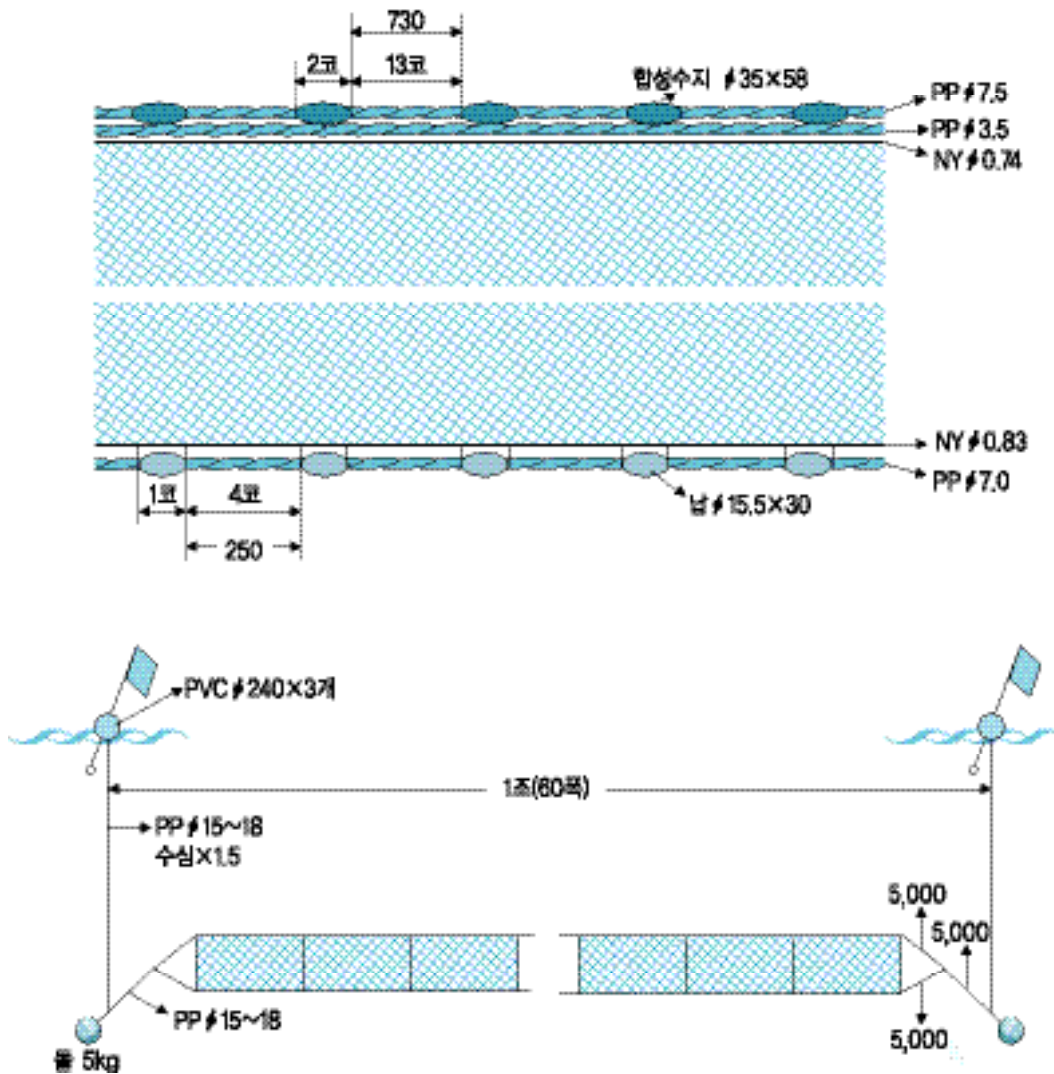
가 , 1 1 .

)

PP # 7.5, 64,540

1코	Knot NY Td210 9합사 망목 123.5mm	
48코	PE MONO #0.49 망목 131.7mm	151,500
1코	Knot NY Td210 9합사 망목 123.5mm	

PP # 7.0, 71,960



: 5~ 3

: 10~150m,

: , , ,

:

PE mono	0.47	131.7mm,	NY Td210 9	123.5mm
,		43%	48%	가
11	12%	.		

1

5 1 가

20~30 1

5kg

1 60

1 30

2~5

가

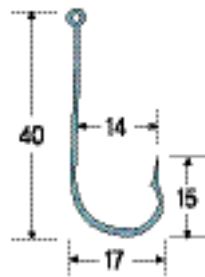
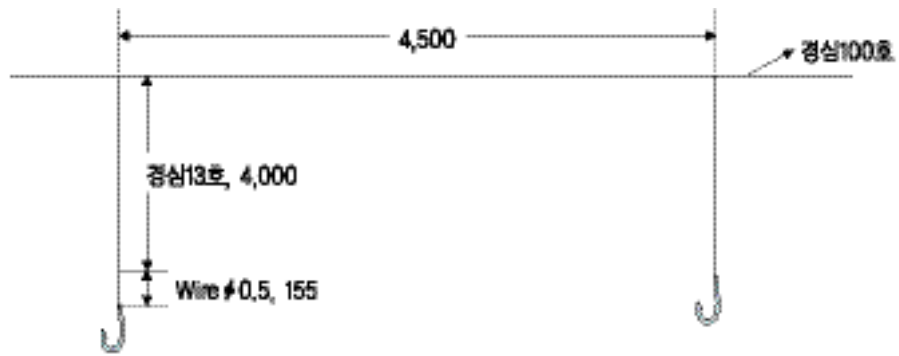
12

10~12

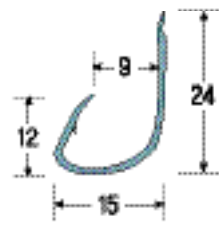
가

, 1 1

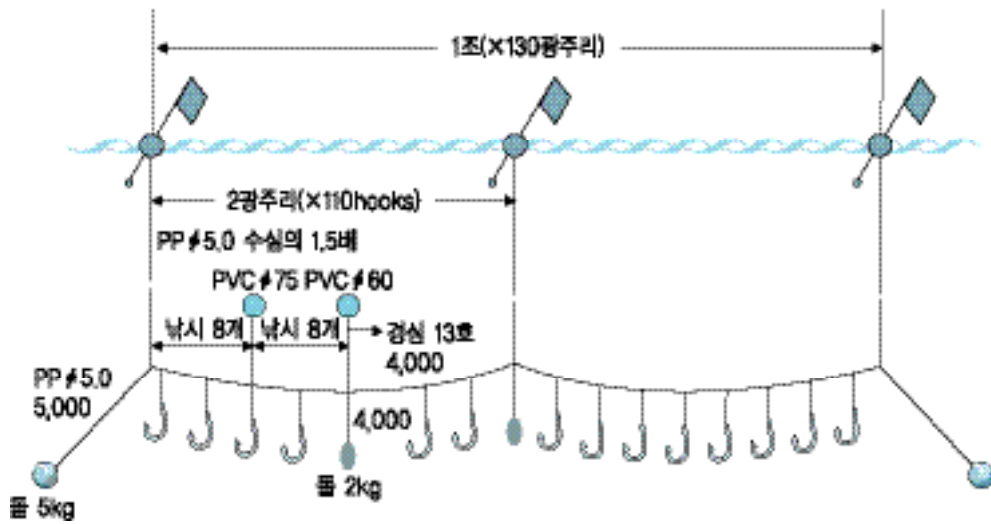
)



(갈치연승낚시)



(옥돔연승낚시)



: (9~2) - ,

9 -

: 80~200m, ,

: , ,

: ( ), ( )

:

4m 100 13 4.5m  
 wire ,  
 PVC 가  
 8 , 8 .  
 1 가 110 , 130 1 , 2  
 , 5kg .  
 9 ,  
 0.5~1 . 1  
 3  
 , 1 8 1 12  
 .  
 131E , 131E  
 .  
 1 30~40 , 1~2 .



# [4.]

가.

1)

가)

4-1

4-1

가 (32.17 ) (27.44 ) , 가가 23.89 .  
 (9.97 ) . 가 39.29 , 가  
 8.55 . 가가  
 (8.83 ) , 가가 (1.02 ) .  
 7.38 ,  
 (14.00 ) (10.00 ) , (8.33 ) , 가  
 (5.00 ) . 가가 (2.09 )  
 , 가가 (6.12 ) . 가  
 19.00 , 가 1.00 .  
 2.80 , 가 2.64 3.00 . 가  
 21.00 , 가 2.47 . 가  
 3.00 .

4-1.

( : , )

		39.29	14.00	39.29	12.00	39.00	29.00	2.80
		8.55	8.55	12.00	9.16	29.00	9.16	2.47
		23.89	11.28	27.44	9.97	32.17	16.04	2.64
		8.92	3.85	5.15	1.02	4.92	8.83	0.23
		19.00	9.00	11.00	19.00	15.00	16.00	21.00
		1.00	3.00	1.00	10.00	2.00	1.00	3.00
		7.38	6.00	5.00	14.00	10.00	8.33	11.20
		4.55	4.24	2.09	3.58	4.62	6.12	7.73



4-2.

( : )

		100,000.00	0.23	1,110,000.00	1.00
		0.00	0.00	33,000.00	0.77
		4,934.78	0.02	430,808.89	0.98
		16,572.27	0.05	251,494.38	0.05
		0.00	0.00	223,000.00	1.00
		0.00	0.00	85,000.00	1.00
		0.00	0.00	154,000.00	1.00
		0.00	0.00	97,580.47	0.00
		35,000.00	0.12	1,030,000.00	1.00
		0.00	0.00	196,200.00	0.88
		4,280.00	0.01	550,416.00	0.99
		10,841.74	0.03	167,350.55	0.03
		0.00	0.00	159,600.00	1.00
		0.00	0.00	71,500.00	1.00
		0.00	0.00	104,800.00	1.00
		0.00	0.00	33,908.18	0.00
		100,000.00	0.15	1,110,000.00	1.00
		0.00	0.00	100,000.00	0.85
		15,714.29	0.02	509,000.00	0.98
		37,352.89	0.06	307,824.08	0.06
		10,000.00	0.23	500,000.00	1.00
		0.00	0.00	33,000.00	0.77
		1,666.67	0.04	205,166.67	0.96
		4,082.83	0.09	165,882.69	0.09
		15,000.00	0.22	80,000.00	1.00
		0.00	0.00	3,500.00	0.78
		4,400.00	0.13	37,960.00	0.87
		6,228.96	0.09	33,301.40	0.09

4-3

(97,833.33 ) .

, 가가

41,206.52 .

(101,428.57 ),

가가 (172,093.48 )

(12,006.94 ) .

221,326.09 ,

가 (321,280.00 ) . 가가

(225,749.40 ) , 가 (0.00 ) .

16,000.00 35,777.09

가가 80,000.00 .

9,850.00 9,218.87 , 가

20,000.00 .

4-3.

( : )

		440,000.00	1.00	792,000.00	1.00
		0.00	0.00	0.00	0.00
		41,206.52	0.20	221,326.09	0.80
		88,895.88	0.33	213,556.04	0.33
		0.00	0.00	100,000.00	1.00
		0.00	0.00	100,000.00	1.00
		0.00	0.00	100,000.00	1.00
		0.00	0.00	0.00	0.00
		319,000.00	1.00	792,000.00	1.00
		0.00	0.00	0.00	0.00
		22,540.00	0.12	321,280.00	0.88
		69,004.82	0.29	225,749.40	0.29
		30,000.00	0.43	80,000.00	1.00
		0.00	0.00	0.00	0.57
		5,833.33	0.13	34,500.00	0.87
		12,006.94	0.19	27,811.87	0.19
		220,000.00	1.00	323,000.00	0.82
		0.00	0.18	0.00	0.00
		101,428.57	0.62	119,428.57	0.38
		68,660.66	0.39	150,773.40	0.39
		440,000.00	0.60	380,000.00	1.00
		0.00	0.00	0.00	0.40
		97,833.33	0.27	151,000.00	0.73
		172,093.88	0.29	139,941.42	0.29
		80,000.00	0.80	20,000.00	1.00
		0.00	0.00	250.00	0.20
		16,000.00	0.16	9,850.00	0.84
		35,777.09	0.36	9,218.87	0.36

)

4 - 4 , , 402,561.48  
 , . (546,894.92 )  
 , (449,684.14 ) , 가 (83,500.00 ) .  
 , 가 가 (220,188.06 ) , 가  
 (35,355.34 ) .

4-4. ( : )

		1,550,000.00	935,250.00	614,750.00
		11,000.00	12,350.00	(315,403.00)
		402,561.48	381,57.58	20,983.90
		273,360.06	221,152.81	111,654.56
		150,000.00	71,250.00	78,750.00
		100,000.00	63,780.00	36,220.00
		125,000.00	67,515.00	57,485.00
		35,355.34	5,282.09	30,073.25
		1,550,000.00	935,250.00	614,750.00
		230,033.98	248,265.00	(102,130.00)
		546,894.92	502,406.4	44,488.46
		218,306.8	125,011.69	128,124.56
		150,000.00	163,400.00	34,783.00
		11,000.00	12,350.00	(13,400.00)
		83,500.00	72,243.67	11,256.33
		56,191.64	58,557.94	20,001.37
		650,000.00	728,40.00	80,014.00
		50,000.00	67,037.00	(78,40.00)
		449,684.14	453,309.00	(3,624.86)
		220,188.06	211,426.73	57,852.16
		500,000.00	469,300.00	30,700.00
		20,000.00	24,350.00	(315,403.00)
		149,371.18	208,73.82	(59,402.63)
		185,556.83	179,48.60	128,539.37
		86,682.50	98,148.00	40,000.00
		2,100.00	2,364.00	(29,569.60)
		34,491.98	40,017.80	1,143.82
		36,714.4	40,617.23	28,17.80

381,577.58 ,  
 (502,406.46 ) (453,309.00 )  
 가가 (211,426.73 ) ,  
 가 (5,282.09 ) .

20,983.90 ,  
 (57,485.00 ) (44,488.46 ) ,  
 (-59,402.63 ) (3,624.86 ) .  
 가가 (128,539.37 ) ,  
 가가 (20,001.37 ) .

34,491.98 36,714.44  
 , 가 86,682.50 .  
 40,017.80 40,617.23 , 가  
 98,148.00 . 1,143.82  
 28,174.80 , 가 40,000.00 .

4-5 , , , , ,  
 가 , , .  
 179,629.98 ,  
 (277,529.00 ) (220,391.07 ) .  
 가가 (147,266.37 ) , 가가  
 (353.55 ) .

149,912.21 ,  
 (213,030.54 ) . 가가  
 (93,102.30 ) ,가 (0.00 ) .  
 , 22,646.62 ,  
 1,007.64 7,714.56 .

가 22,441.92 , 가  
 (28,039.69 ) (27,985.71 ) . 가  
 가가 (17,869.47 ) ,가  
 (1,695.41 ) .

14,751.20      18,924.72

39,500.00      556.00

23,689.60      23,545.48      57,148.00

1,200.00      가      837.50

521.82      1,500.00      350.00

4-5.

( : )

												가	
		501,000.00	0.93	475,000.00	0.72	184,420.00	0.32	15,000.00	0.03	21,000.00	0.08	55,500.00	0.28
		6,000.00	0.08	6,000.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1,650.00	0.00
		179,629.98	0.45	149,912.21	0.42	22,666.62	0.05	1,007.64	0.00	7,714.56	0.02	22,411.92	0.06
		117,586.27	0.14	101,440.29	0.14	27,653.99	0.05	2,479.83	0.01	6,346.99	0.02	12,871.18	0.05
		15,000.00	0.23	45,000.00	0.71	0.00	0.00	100.00	0.00	0.00	0.00	11,150.00	0.16
		14,500.00	0.21	45,000.00	0.63	0.00	0.00	30.00	0.00	0.00	0.00	4,250.00	0.07
		14,750.00	0.22	45,000.00	0.67	0.00	0.00	65.00	0.00	0.00	0.00	7,700.00	0.11
		353.55	0.01	0.00	0.05	0.00	0.00	49.50	0.00	0.00	0.00	4,879.04	0.06
		335,000.00	0.61	475,000.00	0.72	184,420.00	0.32	15,000.00	0.03	21,000.00	0.04	51,500.00	0.09
		28,800.00	0.08	104,235.00	0.24	11,309.00	0.04	100.00	0.00	0.00	0.00	12,214.00	0.00
		220,391.07	0.44	213,030.54	0.42	31,019.28	0.06	1,346.93	0.00	10,581.79	0.02	28,039.69	0.05
		61,247.85	0.09	78,447.04	0.09	31,538.24	0.05	3,191.71	0.01	5,053.40	0.01	7,653.75	0.02
		68,800.00	0.49	85,500.00	0.70	1,350.00	0.02	100.00	0.00	4,500.00	0.08	7,980.00	0.17
		6,100.00	0.23	6,000.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	3,575.00	0.00
		24,658.33	0.35	41,166.67	0.55	525.00	0.01	57.00	0.00	1,470.00	0.02	5,240.00	0.08
		23,149.96	0.10	35,637.99	0.11	647.11	0.01	48.06	0.00	1,822.95	0.03	1,695.41	0.07
		501,000.00	0.69	187,237.00	0.37	52,200.00	0.10	3,449.00	0.01	18,000.00	0.05	55,500.00	0.10
		33,560.00	0.50	25,000.00	0.14	3,450.00	0.05	27.00	0.00	0.00	0.00	5,000.00	0.03
		277,529.00	0.59	104,613.86	0.25	31,659.57	0.07	1,392.29	0.00	9,985.71	0.02	27,985.71	0.06
		147,266.37	0.08	52,378.72	0.08	17,002.91	0.02	1,288.67	0.00	7,241.19	0.02	17,869.47	0.02
		329,500.00	0.93	250,400.00	0.59	21,000.00	0.04	1,350.00	0.01	9,000.00	0.02	25,000.00	0.28
		13,800.00	0.28	8,000.00	0.04	900.00	0.00	0.00	0.00	0.00	0.00	1,650.00	0.02
		114,066.01	0.51	75,243.05	0.37	6,504.02	0.03	408.33	0.00	1,586.33	0.01	10,966.07	0.09
		122,795.06	0.24	93,102.30	0.20	7,875.52	0.01	578.29	0.00	3,637.35	0.01	7,856.20	0.09
		39,500.00	0.51	57,148.00	0.94	91.00	0.03	180.00	0.00	0.00	0.00	1,500.00	0.32
		556.00	0.06	1,200.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	350.00	0.00
		14,751.20	0.28	23,689.60	0.58	31.00	0.01	36.00	0.00	0.00	0.00	837.50	0.11
		18,924.72	0.18	23,545.48	0.21	43.51	0.02	80.50	0.00	0.00	0.00	521.82	0.15

4 - 6 , .

, ,

. - 14%

, 10% (44%)

(13%) . (-

165%), (- 6%) . 가가

(330%) , 가 (12%) .

41% ,

(91%) . 가가

(84%) , 가 (58%) .

65% ,

(97%) (81%) .

가가 (72%) , 가 (30%) .

0.98 ,

(1.07 ) (1.01 ) .

가가 (0.49 ) , 가

(0.36 ) .

0% , - 59% 176% .

50% 78% .

0.89 0.36 55.45 .



4-6.

				( )	
		0.58	2.22	2.21	1.89
		(8.30)	0.00	0.08	0.00
		(0.14)	0.41	0.98	0.65
		1.21	0.69	0.42	0.45
		0.53	0.00	1.18	1.18
		0.36	0.00	0.67	0.45
		0.44		0.92	0.81
		0.12		0.36	0.51
		0.40	2.22	2.21	1.89
		(0.22)	0.00	0.66	0.00
		0.05	0.91	1.07	0.64
		0.13	0.84	0.42	0.40
		0.58	0.00	1.52	0.73
		(0.12)	0.00	0.31	0.00
		0.13	0.00	1.01	0.41
		0.28	0.00	0.49	0.30
		0.12	1.43	1.56	1.00
		(0.34)	0.00	0.50	0.00
		(0.06)	0.26	0.91	0.53
		0.16	0.58	0.36	0.36
		0.07	0.00	1.36	1.88
		(8.30)	0.00	0.08	0.00
		(1.65)	0.00	0.71	0.97
		3.30	0.00	0.48	0.72
		1.00	0.00	1.40	1.89
		(4.04)	0.00	0.49	0.06
		(0.59)	0.00	0.89	0.50
		1.76		0.36	0.78

2)

가)

4-7

5.61 가  
 (6.38) , 가가 (4.46)  
 가 9.77 , 가  
 2.34 가가  
 (2.73) , 가 (1.72)  
 8.67 ,  
 (12.45) , 가 (6.69)  
 가 20 , 가  
 1 , 가가 (4.74)  
 ) , 가가 (3.75)

4-7.

( : , )

		9.77	9.77	9.77	6.19
		2.34	2.52	2.34	2.52
		5.61	6.38	5.61	4.46
		2.43	2.73	2.45	1.72
		20.00	12.00	14.00	20.00
		1.00	2.00	1.00	4.00
		8.67	7.56	6.69	12.45
		4.74	3.75	3.82	4.74

)

4-8

4,766.67  
 (5,381,25) , 가  
 (4,000.00) .  
 가가 (25,000,00) , 가가  
 (20,000.00) .

129,269.72 .  
 (261,990.00 ) ,  
 가 (69,628.89 ) . 가  
 가 (894,800.00 ) , 가  
 (145,000.00 ) . 90%  
 , (91%), (91%) .

4-8. ( : )

		25,000.00	0.57	900,000.00	1.00
		0.00	0.00	5,000.00	0.43
		4,766.67	0.10	129,269.72	0.90
		7,668.12	0.13	191,850.62	0.13
		20,000.00	0.29	153,000.00	1.00
		0.00	0.00	8,000.00	0.71
		4,611.11	0.09	69,628.89	0.91
		6,863.75	0.10	57,011.99	0.10
		25,000.00	0.57	215,560.00	1.00
		0.00	0.00	5,000.00	0.43
		5,381.25	0.09	71,572.50	0.91
		8,320.19	0.15	60,236.66	0.15
		20,000.00	0.29	900,000.00	1.00
		0.00	0.00	5,200.00	0.71
		4,000.00	0.10	261,990.00	0.90
		7,937.25	0.13	304,756.49	0.13

4-9 , ,  
 . 31,338.89 .  
 (41,336.37 ), (32,781.25  
 ) 가 가  
 (300,000.00 ) (59,000.00 ) , 가 가  
 (16,555.56 ), (41,336.36 ) .  
 43,522.22 , 가  
 (69,354.55 ) . 가 가  
 (300,000.00 ) , 가 (85,000.00 ) .

4 - 10 .  
 41,219.44 86%

가 (69,090.91 ) ,  
 가가 (300,000.00 ) , 가 가  
 (70,000.00 ) .

2,302.77 ,  
 (3,875.00 ) .  
 가가  
 (30,000.00 ) , 가 (2,900.00 ) .

4-9. ( : )

		300,000.00	1.00	300,000.00	1.00
		0.00	0.00	0.00	0.00
		31,338.89	0.41	43,522.22	0.59
		61,290.97	0.40	69,689.73	0.40
		59,000.00	1.00	85,000.00	1.00
		0.00	0.00	0.00	0.00
		16,555.56	0.33	19,477.78	0.67
		23,356.54	0.44	31,020.23	0.44
		300,000.00	0.89	180,000.00	1.00
		0.00	0.00	0.00	0.11
		32,781.25	0.28	39,287.50	0.72
		74,541.93	0.30	47,298.09	0.30
		200,000.00	1.00	300,000.00	1.00
		0.00	0.00	0.00	0.00
		41,336.36	0.63	69,354.55	0.37
		63,772.29	0.43	107,655.85	0.43

4-10.

( : )

		300,000.00	1.00	30,000.00	1.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00
		41,219.4	0.86	2,302.78	0.14	0.00	0.00
		68,461.98	0.25	6,435.41	0.25	0.00	0.00
		70,000.00	1.00	15,000.00	0.50	0.00	0.00
		0.00	0.50	0.00	0.00	0.00	0.00
		17,477.78	0.85	2,000.00	0.15	0.00	0.00
		27,429.99	0.20	4,924.43	0.20	0.00	0.00
		160,000.00	1.00	30,000.00	0.55	0.00	0.00
		0.00	0.45	0.00	0.00	0.00	0.00
		35,412.50	0.88	3,875.00	0.12	0.00	0.00
		42,878.7	0.19	8,800.57	0.19	0.00	0.00
		300,000.00	1.00	2,900.00	1.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00
		69,090.91	0.80	263.64	0.20	0.00	0.00
		107,838.26	0.45	874.38	0.45	0.00	0.00

)

4-11 , ,  
 , . 104,728.61 ,  
 (196,245.51 ) .  
 가가 (548,200.00  
 ) , 가 (190,069.00 ) .  
 102,518.07 ,  
 (201,567.55 ), (85,373.75 )  
 가가  
 (439,945.00 ) , 가 (180,291.00 ) .  
 5,058.27 ,  
 (13,425.56 ) .  
 가가 (574,550.00 ) , 가  
 (30,317.00 ) .

4-11.

( : )

		550,000.00	442,850.00	199,400.00
		1,600.00	2,745.00	(375,150.00)
		104,728.61	102,518.07	5,058.27
		152,131.36	139,376.79	75,840.44
		194,469.00	185,314.00	13,110.00
		4,400.00	5,023.00	(17,207.00)
		52,081.34	49,214.22	2,870.11
		57,777.83	56,264.40	8,947.00
		212,793.50	187,409.00	76,779.69
		1,600.00	2,745.00	(17,750.00)
		71,423.14	61,864.09	13,425.56
		63,883.66	50,515.20	23,557.73
		550,000.00	442,850.00	199,400.00
		1,800.00	2,905.00	(375,150.00)
		196,245.51	201,567.55	(5,322.04)
		242,347.54	210,035.26	137,839.98

4-12 , , , , ,  
 가 , , .  
 49,397.13 ,  
 (112,756.27 ) . 가가  
 (272,550.00 ) ,가 (54,470.00 ) .  
 35,578.05 ,  
 (54,418.18 ) .  
 가가 (128,600.00 ) ,가  
 (94,935.00 ) .  
 , 5,531.83 , 2,264.24  
 2,542.06 .  
 가 7,204.76 , 가  
 (13,843.64 ) . 가 가가  
 (44,400.00 ) ,가 (9,560.00 )

4-12.

( : )

												가	
		273,300.00	0.69	130,000.00	0.79	35,000.00	0.08	45,000.00	0.70	25,000.00	0.10	45,000.00	0.47
		750.00	0.07	1,200.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	440.00	0.03
		49,397.13	0.38	35,578.05	0.42	5,531.83	0.03	2,264.24	0.04	2,542.06	0.02	7,204.76	0.11
		80,286.19	0.17	41,464.60	0.15	9,696.11	0.02	7,702.59	0.12	5,559.25	0.03	9,506.41	0.09
		61,700.00	0.45	97,235.00	0.60	8,379.00	0.05	10,000.00	0.18	3,000.00	0.10	11,000.00	0.22
		1,430.00	0.17	2,300.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	500.00	0.06
		16,636.11	0.32	23,759.4	0.48	1,758.78	0.03	1,967.78	0.04	758.4	0.02	4,333.67	0.12
		19,394.56	0.09	29,777.77	0.10	2,661.24	0.02	3,429.92	0.06	1,280.50	0.03	3,253.97	0.05
		55,500.00	0.69	106,397.00	0.79	9,012.00	0.06	45,000.00	0.70	3,000.00	0.03	10,000.00	0.28
		1,030.00	0.07	1,200.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	440.00	0.03
		22,590.37	0.37	28,853.13	0.46	2,514.06	0.03	3,405.23	0.05	442.40	0.01	4,058.91	0.08
		18,694.25	0.20	30,221.22	0.18	2,761.18	0.02	11,542.76	0.18	918.80	0.01	3,101.38	0.06
		273,300.00	0.62	130,000.00	0.52	35,000.00	0.08	3,600.00	0.12	25,000.00	0.10	45,000.00	0.47
		750.00	0.21	1,400.00	0.17	0.00	0.00	0.00	0.00	20.00	0.00	600.00	0.04
		112,756.27	0.45	54,418.18	0.31	12,734.00	0.03	950.91	0.02	6,864.55	0.03	13,843.64	0.15
		121,103.68	0.15	57,215.80	0.10	14,824.93	0.03	1,360.69	0.04	8,517.99	0.03	14,648.62	0.13

4 - 13

, , .  
 , ,  
 . -18% ,  
 (10%)  
 (8%) . 가가  
 (752%) , 가 (62%) .  
 65% ,  
 (91%) . 가가  
 (400%) , 가 (80%) .  
 70% ,  
 (85%) . 가가  
 (317%) , 가 (161%) .  
 0.98 ,  
 (0.85 ) .  
 가가 (3.03 ) , 가 (1.48 ) .

4-13.

( : )

		( )			
		1.00	4.00	3.26	3.17
		(7.08)	0.00	0.13	0.00
		(0.18)	0.65	0.98	0.70
		1.28	0.99	0.70	0.77
		0.32	0.80	2.00	1.61
		(0.29)	0.00	0.41	0.00
		0.08	0.38	0.84	0.55
		0.20	0.35	0.51	0.47
		1.00	4.00	3.26	3.17
		(0.72)	0.00	0.23	0.00
		0.10	0.91	1.22	0.85
		0.40	1.34	0.85	0.95
		0.44	2.00	1.61	2.46
		(7.08)	0.00	0.13	0.00
		(0.80)	0.48	0.76	0.59
		2.19	0.71	0.50	0.70

) 가 가

4 - 14 가 ,  
 , 가  
 100,884.83 , 가 가  
 (196,245.47 ) 가  
 가 가 (548,200.00 ) , 가  
 (190,069.00 ) .  
 가 2,236.11 ,  
 가 가  
 (5,709.09 ) . 가  
 가 가 (60,000.00 ) , 가  
 (5,000.00 ) .



4-14.

가

( : )

		550,000.00	60,000.00
		1,600.00	0.00
		100,884.83	2,236.11
		151,967.95	10,069.65
		194,469.00	5,000.00
		4,400.00	0.00
		52,084.34	722.22
		57,747.83	1,622.33
		212,794.00	10,000.00
		1,600.00	0.00
		62,774.67	700.00
		57,500.97	2,485.96
		550,000.00	60,000.00
		1,800.00	0.00
		196,245.47	5,709.09
		242,347.57	18,011.41

4 - 15 가 , 가 ,  
 , 가  
 92,106.87 , 가  
 (180,580.27 ) 가  
 가 가 (416,080.00 ) ,가  
 (181,424.00 ) .  
 가 1,330.56 ,  
 가 가  
 (4,259.09 ) . 가 가  
 (26,000.00 ) ,가 (200.00 ) .  
 가 15,502.78 , 가 가  
 가 (17,481.25 )  
 (16,381.82 ) . 가 가  
 (35,000.00 ) , 가가 (26,000.00 )

4-15.

가

( : )

		417,000.00	26,000.00	35,000.00
		0.00	0.00	0.00
		92,106.87	1,330.56	15,502.78
		124,201.60	5,379.17	11,265.18
		185,314.00	200.00	26,000.00
		3,890.00	0.00	0.00
		46,876.11	66.67	10,911.11
		56,239.10	100.00	12,142.84
		187,409.00	200.00	35,000.00
		0.00	0.00	0.00
		56,723.71	28.13	17,481.25
		51,735.50	68.24	11,180.11
		417,000.00	26,000.00	30,000.00
		920.00	0.00	1,200.00
		180,580.27	4,259.09	16,381.82
		187,059.71	9,363.41	10,612.52

3)

가)

4-16

4-16

가 (3.27) , 가 2.89  
 , 가 2.50 , 가 3.27  
 0.00  
 6.20 , 10.00  
 가 18.00  
 2.00 11.31

4-16.

( : , )

		3.27	3.27	2.50
		2.50	3.27	2.50
		2.89	3.27	2.50
		0.54	0.00	0.00
		18.00	6.00	18.00
		2.00	2.00	2.00
		6.20	3.67	10.00
		6.80	2.08	11.31

)

4-17

199.50ha ,

(206.20ha) .

가

(103.29ha) ,

가

(123.40ha) .

30,064,766.57

가

(57,966,183.00) .

(8,154,614.50) .

1,612.89 ,  
(2,553.60) 가 (673.80 )  
, 가 (5,444.19) .  
, ,  
109.89 (49.3%), 93.00 (41.7%), 20.00 (9.0%) .  
75.5% 64.0%

4-17.

( : ha, , )

		341.80	63,732,366.00	12,292.00	383.00	197.00	51.4%	166.00	43.3%	20.00	5.2%
		74.40	13,013,000.00	40.00	95.00	55.00	57.9%	20.00	21.1%	20.00	21.1%
		199.50	30,064,766.57	1,612.89	222.89	109.89	49.3%	93.00	41.7%	20.00	9.0%
		109.96	19,573,46.21	4,029.18	142.64	39.40	27.6%	103.24	72.4%	0.00	0.0%
		341.80	22,802,000.00	12,292.00	237.00	197.00	83.1%	20.00	8.4%	20.00	8.4%
		74.40	13,013,000.00	62.00	119.00	79.00	66.4%	20.00	16.8%	20.00	16.8%
		206.20	18,904,200.00	2,553.60	163.00	123.00	75.5%	20.00	12.3%	20.00	12.3%
		123.40	3,623,610.17	5,444.19	45.13	45.13	100.0%	0.00	0.0%	0.00	0.0%
		341.00	63,732,366.00	1,440.00	286.00	120.00	42.0%	166.00	58.0%	0.00	0.0%
		108.60	52,200,000.00	40.00	221.00	55.00	24.9%	166.00	75.1%	0.00	0.0%
		189.45	57,966,183.00	437.00	259.50	93.50	36.0%	166.00	64.0%	0.00	0.0%
		103.29	8,154,614.20	673.80	27.93	27.93	100.0%	0.00	0.0%	0.00	0.0%

4 - 18

, ,  
, .  
11 (45.8%), 3 (12.5%), 9 (37.5%), 1  
(4.2%), 0 (0.0%) .  
(50.0%)  
(25.0%) .  
(43.8%) , (12.5%) .

4-18.

( : )

	24	11	45.8%	3	12.5%	9	37.5%	1	4.2%	0	0.0%
	16	8	50.0%	1	6.3%	7	43.8%	0	0.0%	0	0.0%
	8	3	37.5%	2	25.0%	2	25.0%	1	12.5%	0	0.0%

)

- - -

4 - 19 .

72,681.50 .

(155,634.75 ) 가

(152,958.17 ) , 가 (24,081.21 ) .

158,164.30 .

(173,628.67 )

가 (252,591.35 ) .

75% .

4-19.

( : )

		372,539.00	1.00	685,912.00	0.99
		1,000.00	0.01	0.00	0.00
		72,681.50	0.25	158,164.30	0.75
		114,970.08	0.30	205,657.22	0.30
		55,549.00	0.29	685,912.00	0.99
		1,000.00	0.01	19,000.00	0.71
		17,379.33	0.08	173,628.67	0.92
		24,081.21	0.10	252,591.35	0.10
		372,539.00	1.00	309,871.00	0.69
		24,000.00	0.31	0.00	0.00
		155,634.75	0.49	134,967.75	0.51
		152,958.17	0.34	139,110.10	0.34

4-20

4,264.90

(5,883.17 )

가

(5,265.65 )

4-20.

( : )

		12,828.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		4,264.90	1.00	0.00	0.00
		4,926.50	0.00	0.00	0.00
		12,828.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		5,883.17	1.00	0.00	0.00
		5,265.65	0.00	0.00	0.00
		7,350.00	1.00	0.00	0.00
		0.00	1.00	0.00	0.00
		1,837.50	1.00	0.00	0.00
		3,675.00	-	0.00	-

)

4-21

161,342.81 ,  
 (266,331.71 ) , 가  
 (193,606.77 ) .

23,845.80 ,  
 (35,493.00 ) .  
 가 (55,808.69 ) .

137,497.01 ,  
 (259,956.71 ) . 가  
 (196,742.62 ) .

4-21.

( : )

		550,000.00	144,500.00	550,000.00
		19,116.00	0.00	9,982.00
		161,342.81	23,845.80	137,497.01
		166,538.39	44,769.94	168,070.71
		278,434.00	144,500.00	232,756.00
		19,116.00	1,800.00	9,982.00
		91,350.22	35,493.00	55,857.22
		112,853.99	55,808.69	87,328.19
		550,000.00	24,340.00	550,000.00
		113,552.55	0.00	112,392.55
		266,331.71	6,375.00	259,956.71
		193,606.77	11,989.14	196,742.62

4-22 , , , ,  
가 , , .  
15,837.00 ,  
(26,395.00 ) . 가  
(55,670.41 ) .  
3,294.00 ,  
(3,607.50 ) . 가  
(6,609.56 ) .  
, 3,416.80 ,  
190.00 174.00 .  
가 200.00 , 가  
(500.00 ) . 가  
(1,000.00 ) .

4-22. ( : )

												가	
		140,000.00	0.97	15,970.00	0.80	25,605.00	0.56	900.00	0.11	1,500.00	0.06	2,000.00	0.08
		0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		15,837.00	0.47	3,294.00	0.24	3,416.80	0.18	190.00	0.03	174.00	0.01	200.00	0.01
		43,675.63	0.39	6,072.13	0.30	7,892.4	0.18	303.50	0.04	467.72	0.02	632.4	0.03
		140,000.00	0.97	15,970.00	0.35	25,605.00	0.56	500.00	0.11	1,500.00	0.06	0.00	0.00
		1,300.00	0.09	0.00	0.00	200.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		26,395.00	0.62	3,085.00	0.09	5,023.00	0.18	166.67	0.04	290.00	0.01	0.00	0.00
		55,670.41	0.31	6,326.51	0.14	10,114.20	0.21	206.56	0.05	594.47	0.02	0.00	0.00
		0.00	0.00	13,500.00	0.80	3,800.00	0.20	900.00	0.04	0.00	0.00	2,000.00	0.08
		0.00	0.00	0.00	0.55	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	3,607.50	0.68	1,007.50	0.18	225.00	0.02	0.00	0.00	500.00	0.04
		0.00	0.00	6,609.56	0.17	1,864.82	0.03	450.00	0.03	0.00	0.00	1,000.00	0.06



4-23

97% .  
(26%) .

78% , 66%,  
가

166% ,  
(327%) . 가

(205%) .

8% ,  
(11%) . 가

(19%) .

0.90 ,  
(1.34 ) 가 (0.83 ) .

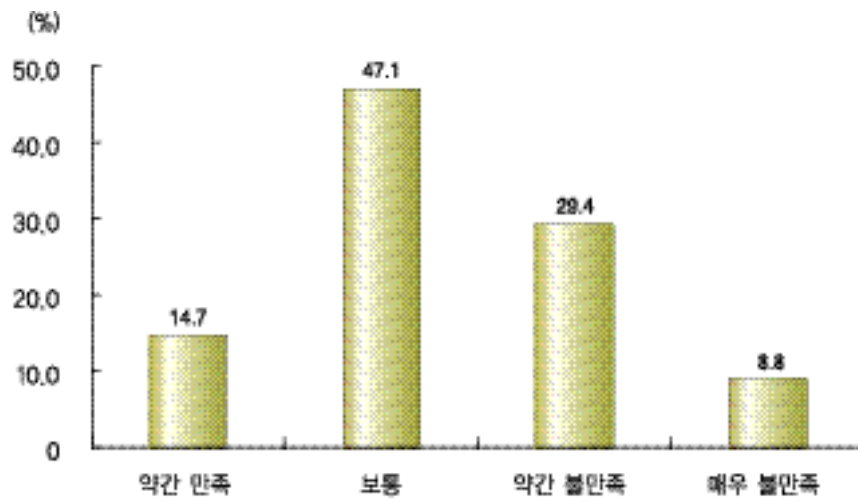
4-23.

( : )

		( )			
		1.00	4.33	2.27	0.50
		0.22	0.10	0.23	0.00
		0.78	1.66	0.90	0.08
		0.25	1.99	0.73	0.15
		0.91	4.33	1.85	0.50
		0.22	0.10	0.23	0.00
		0.66	1.26	0.68	0.11
		0.26	2.05	0.64	0.19
		1.00	3.27	2.27	0.10
		0.88	3.27	0.67	0.00
		0.97	3.27	1.34	0.02
		0.06	0.00	0.83	0.05

1)  
가)

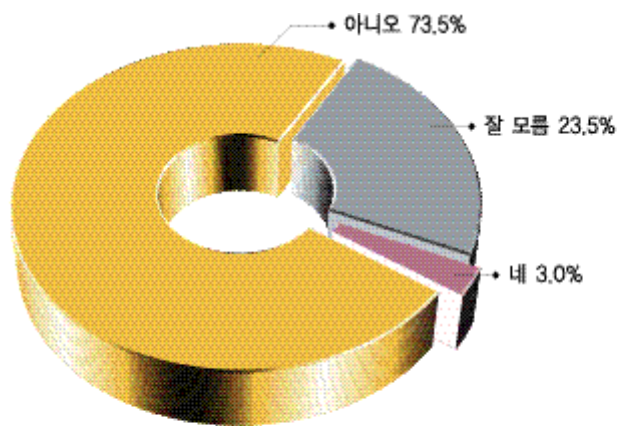
가 47.1% , “ ” 가  
” 29.4%, 8.8% , 38.2% .  
가 ,



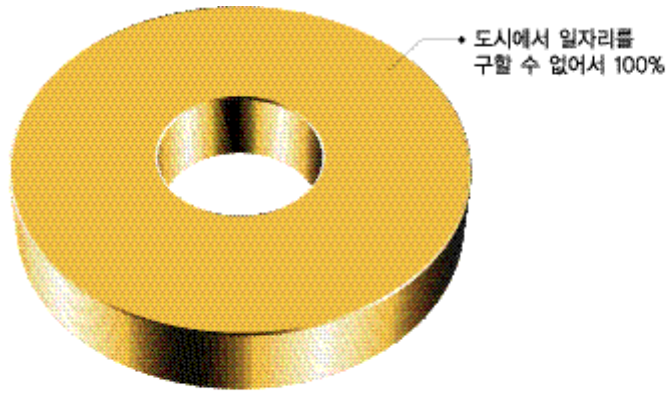
4-1.

가 , 20 ~ 40 가 가  
73.5%가 , 가  
2.9% .

가 ,  
“ ” .

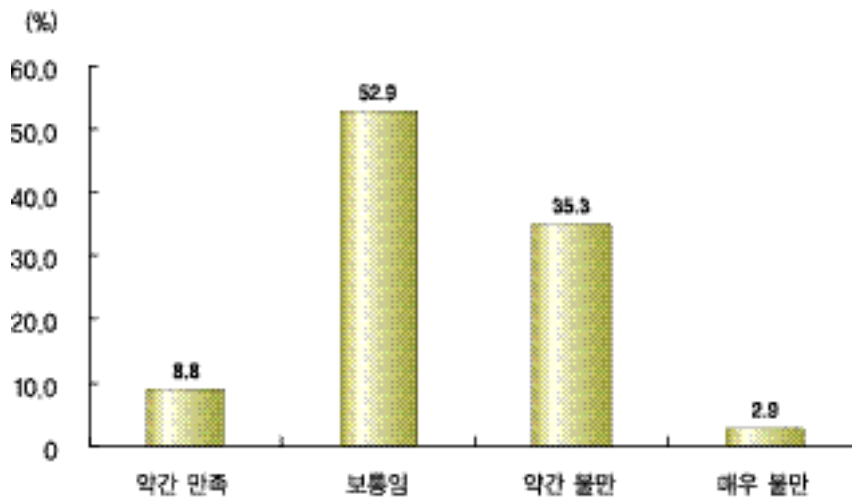


4-2. 가



4-3. 가

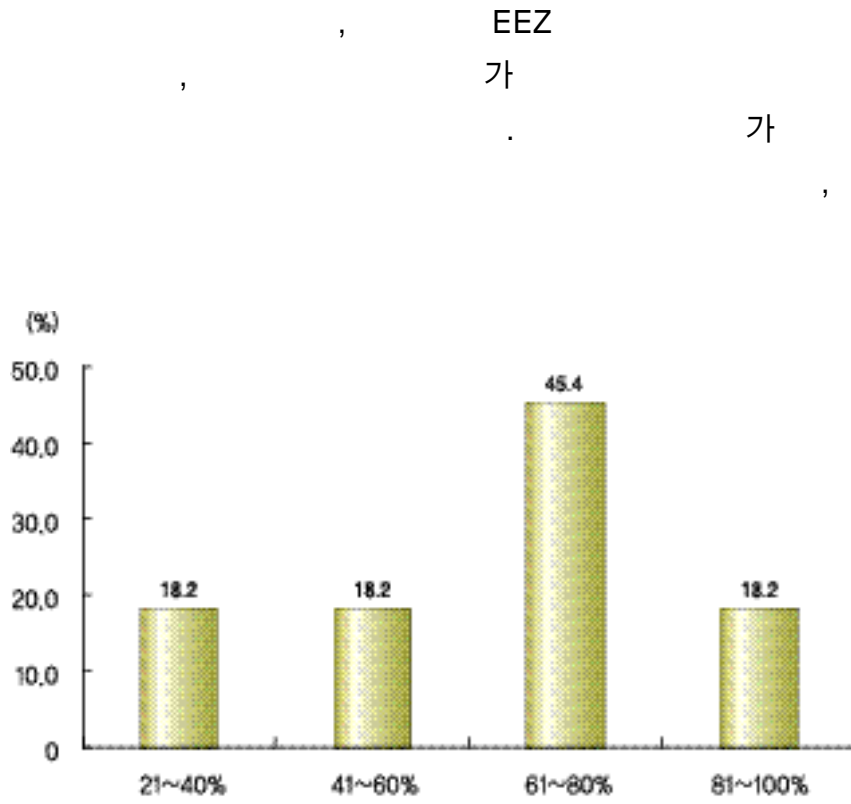
가 가 ,  
 “ ” 가  
 52.9% 가 , “ ”  
 ” 38.2% . ,  
 8.8% .  
 가



4-4.

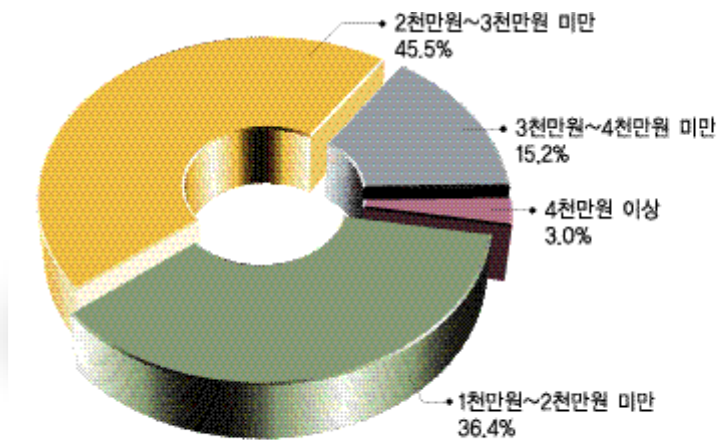


“ 21~40% ” “ 41~60% ” “ 81~100% ” 45.5%가 “ 61~80% ” ,  
 18.2% 가 .

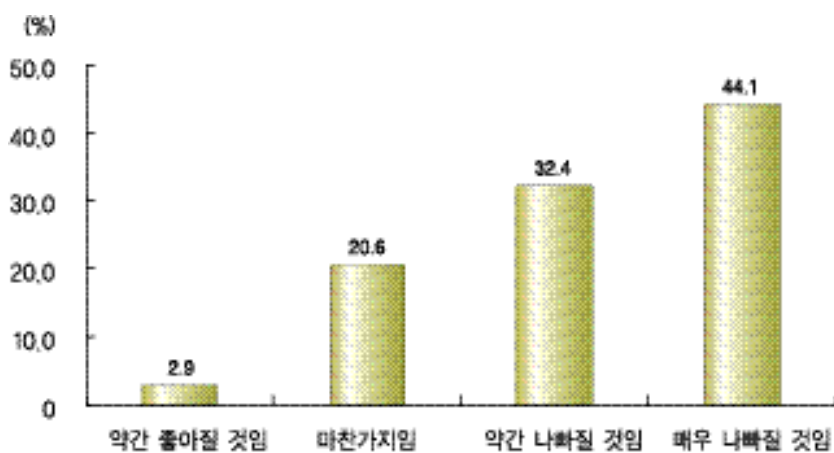


4-7.

가 “ 2 ~3 ” 45.5% 가 , “ 1 ~2 ” 36.4% .  
 “ 3 ~4 ” 15.2% .  
 가 , 5 “ ”  
 44.1% 가 , “ ” 32.4% .  
 , 76.5% , “ 가  
 ” 20.6% , 가 2.9%



4-8.



4-9.

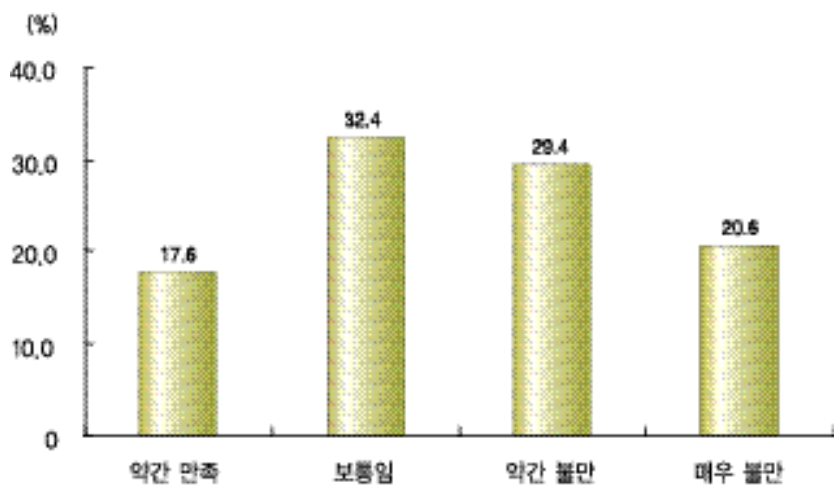
5

32.4%가

”  
17.6%

50.5%

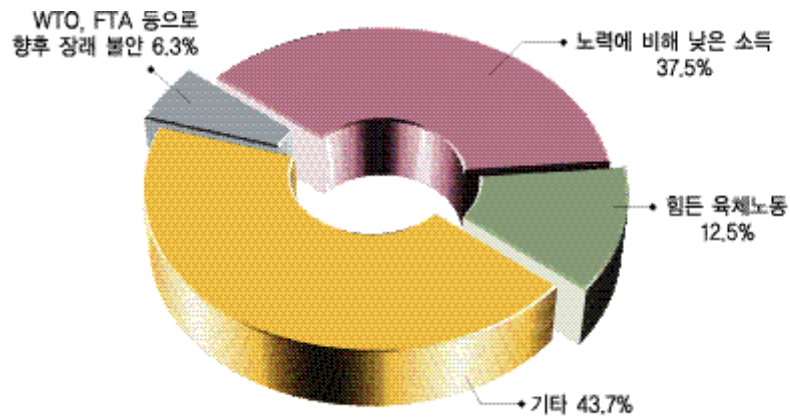
가



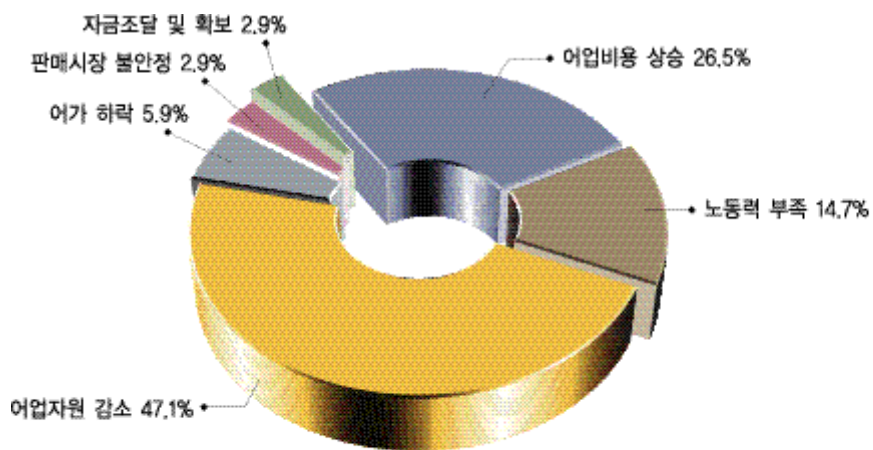
4-10.

가  
 (43.8%) , 37.5% “ ”  
 , 12.5% , 3D  
 “ WTO, FTA 가 ” 6.3%

3 47.1%가 “ ”  
 “ ” 26.5% “  
 ” “ 가 ” 14.7% 5.9% .  
 가



4-11.

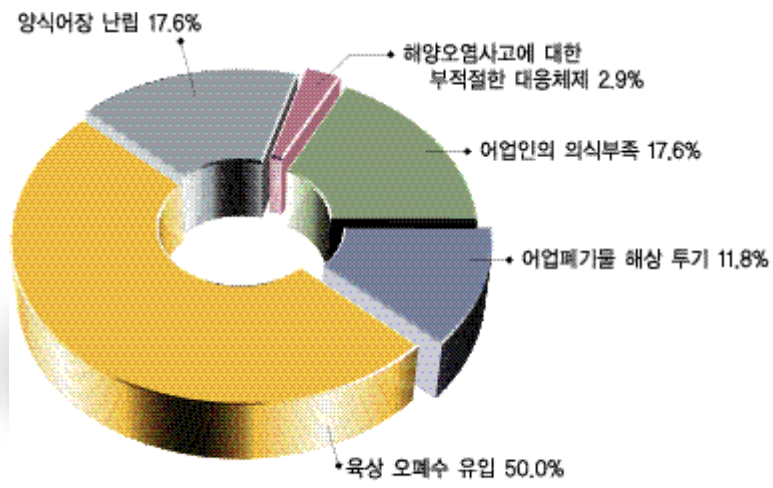


4-12.

( 3 )

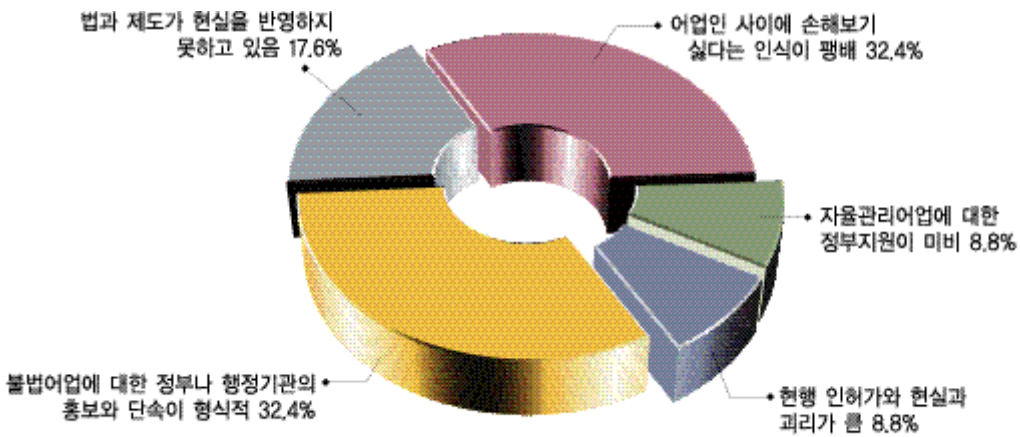
)

가 (50.0%) 가 17.6% 11.8%



4-13.

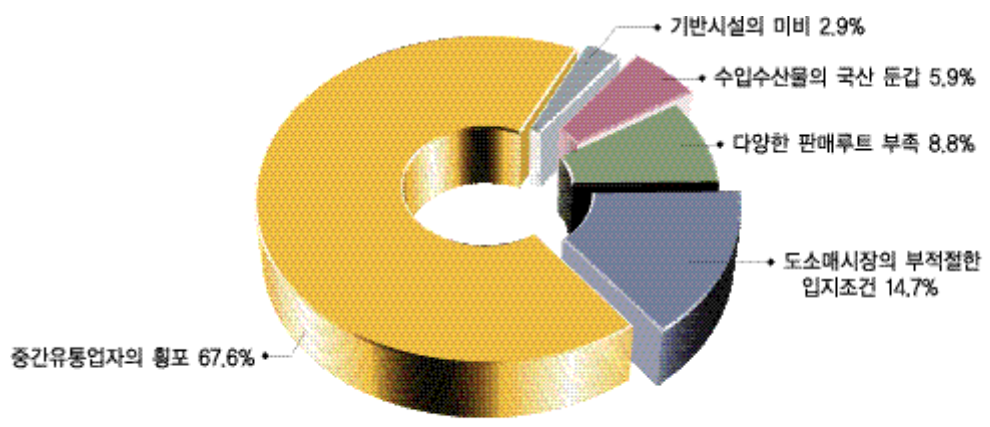
가 가 가 가 (32.4%) 가 (32.4%) 가 17.6%



4-14.

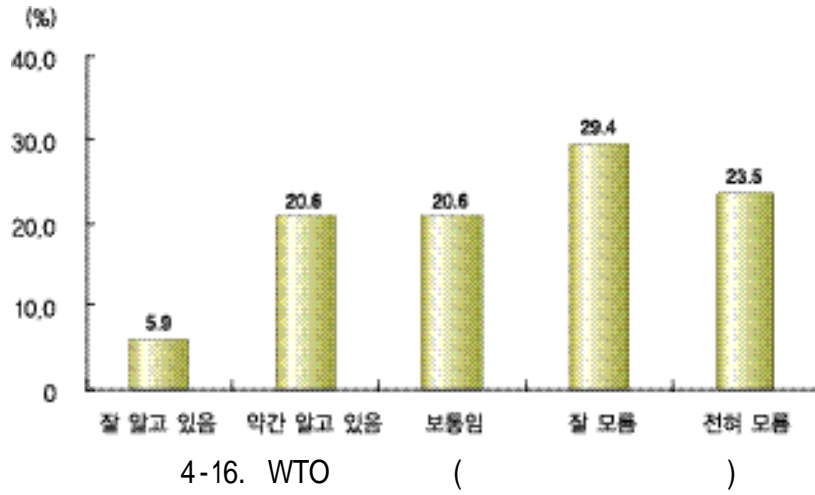


가 “ ”  
 67.6% 가 “ . “ ”  
 “ ” “ ”  
 14.7% 8.8% “ ”  
 ” “ ” 5.9% 2.9%



4-15.

가 가 ,  
 (WTO, WTO)  
 WTO , ( , )  
 가 , “ ”  
 ”가 29.4% 가 , “ ” 23.5% . “ ”  
 ”가 5.9%, “ ” 20.6%  
 26.5% WTO  
 가 .



) 가

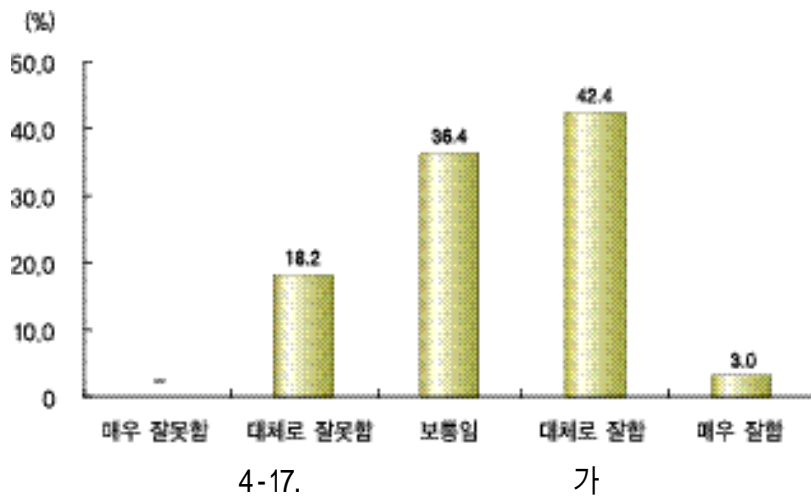
가 가

“ ” 3.0% , 가 45.4% .

42.4%, “ ” 가 36.4% , “ ”

18.2% .

가 가

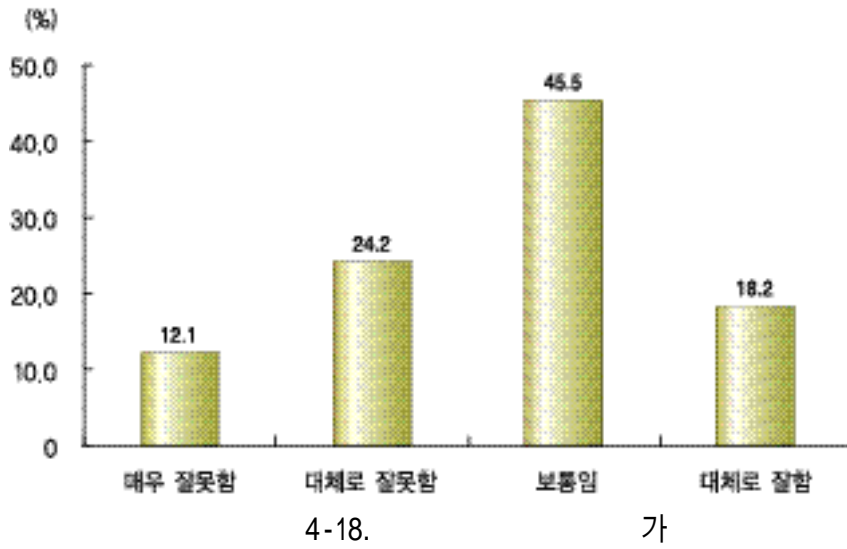


가 “ ” 가가

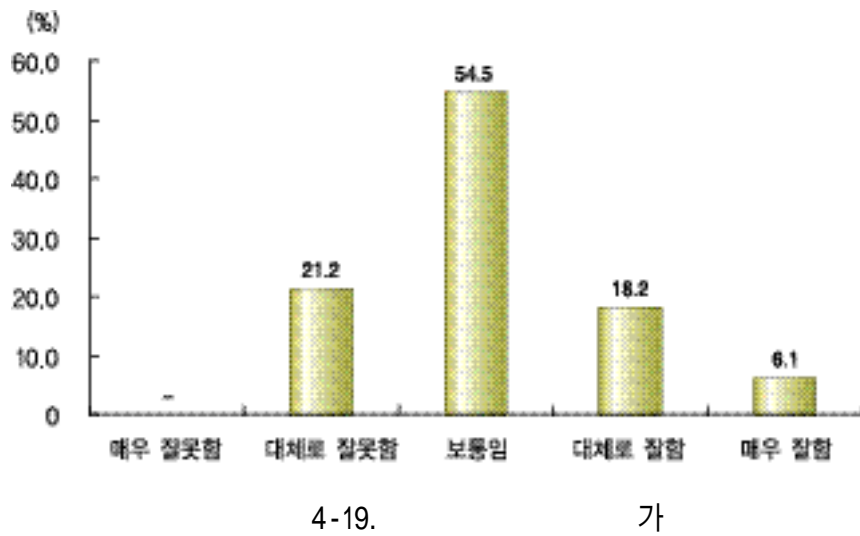
45.5% 가 . 가 36.1%

18.2% .

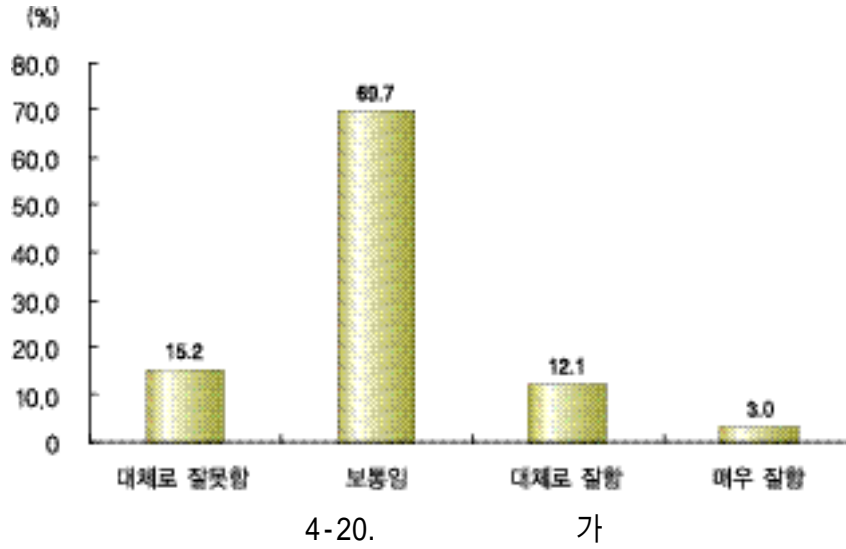
가 가



“ ” 가 가 54.5% 가 .  
 가 21.2%, 24.3% ,  
 가 .

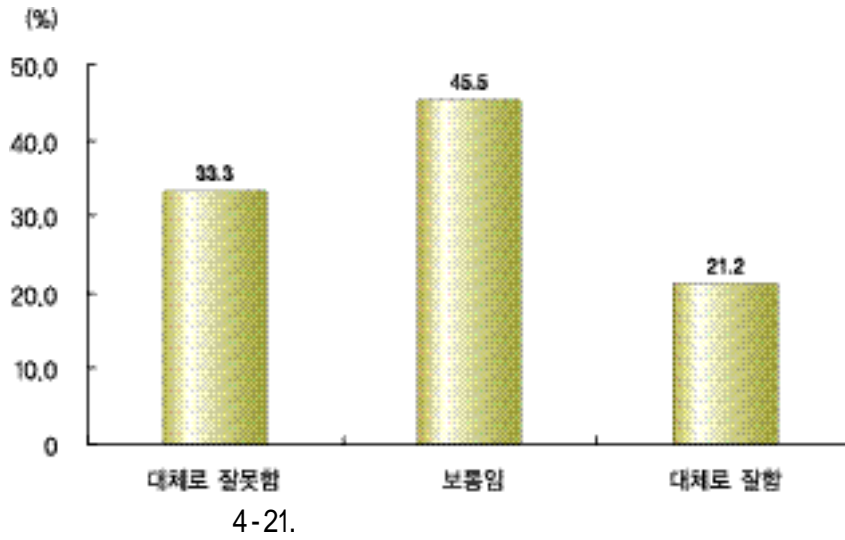


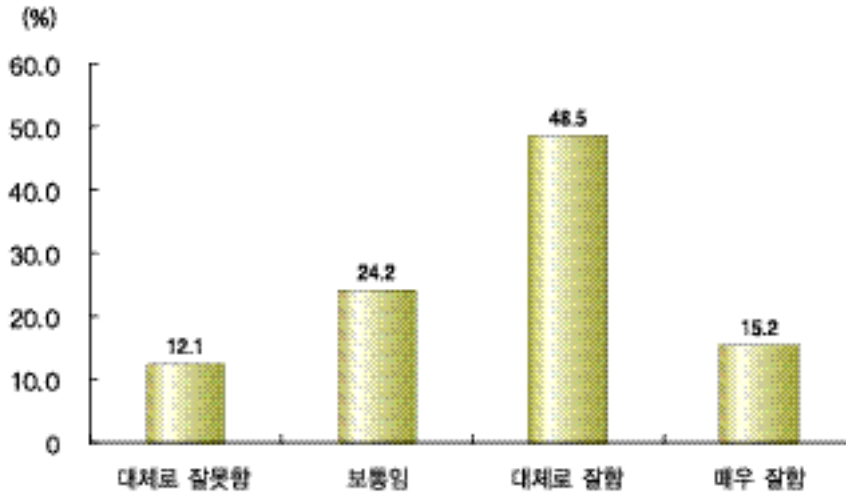
가  
 ,  
 가  
 1980 “  
 ” 69.7% 가 “  
 ” “ ” 12.1%, 3.0% .  
 가 가  
 가 , 가 (15.2%) 가 (15.1%)



“ ” 가(45.5%) , “ ” 가 33.3% . “ ” 가 21.2% .

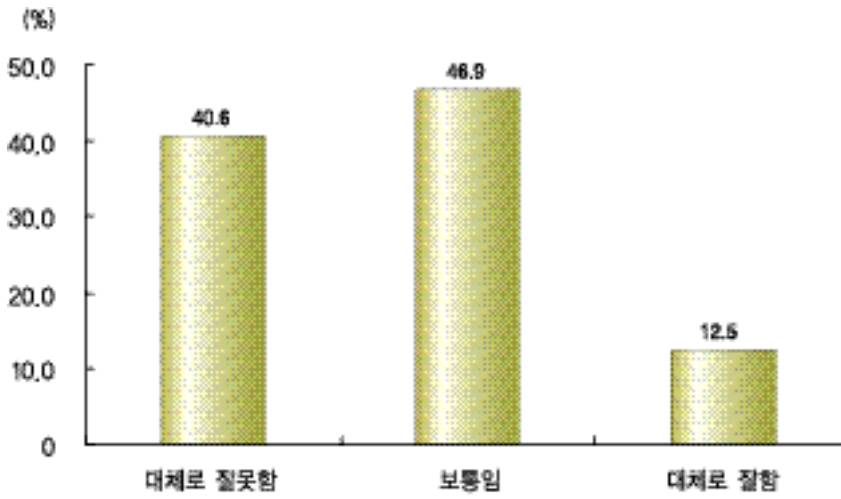
“ ” “ ” 가 63.7% 가 . “ ” “ (24.2%) 가 21.1% .





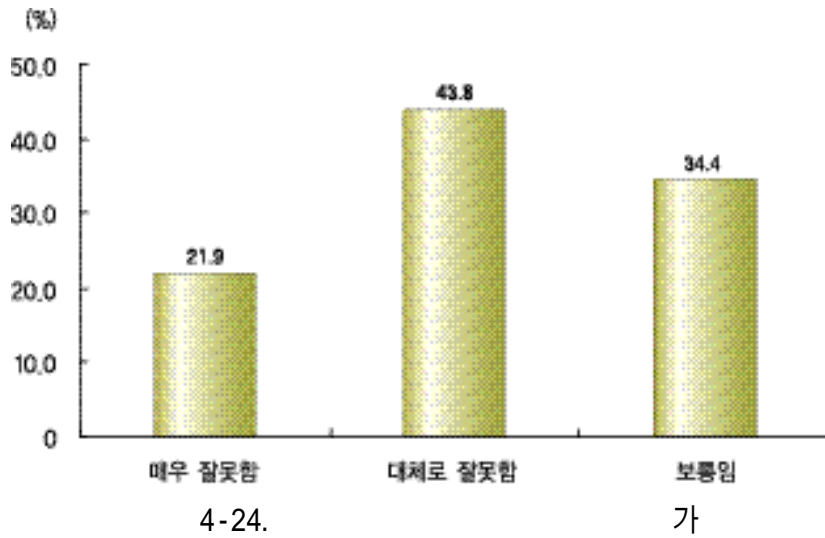
4-22. 가

46.9%가 “ ” 가  
 “ ” 가 40.6% “ ”



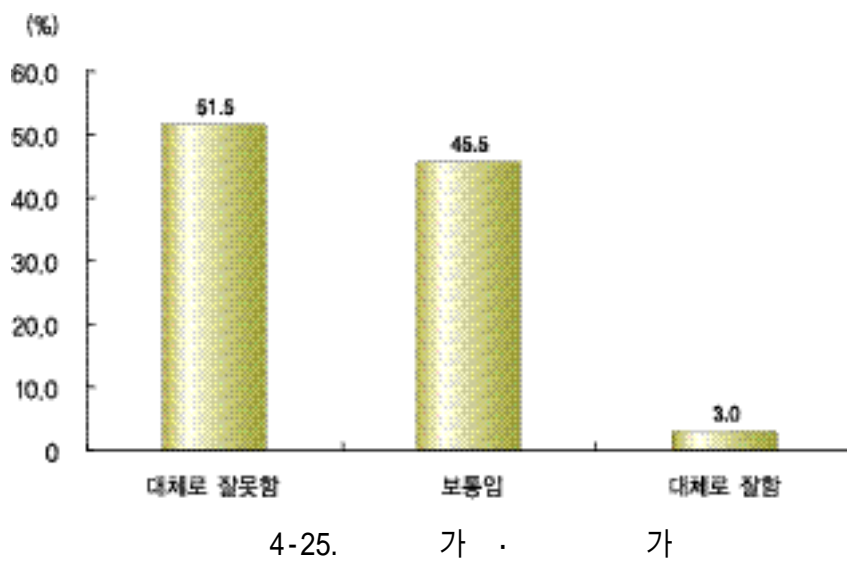
4-23. 가

가 가 , 가 가

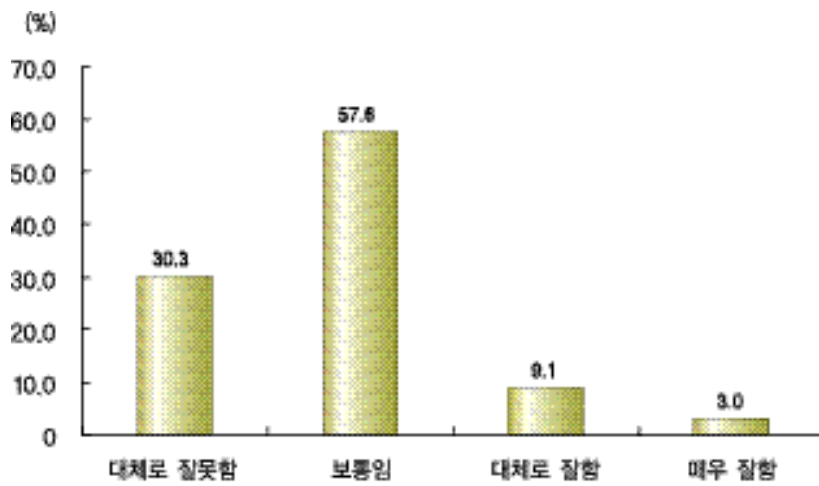


WTO , FTA

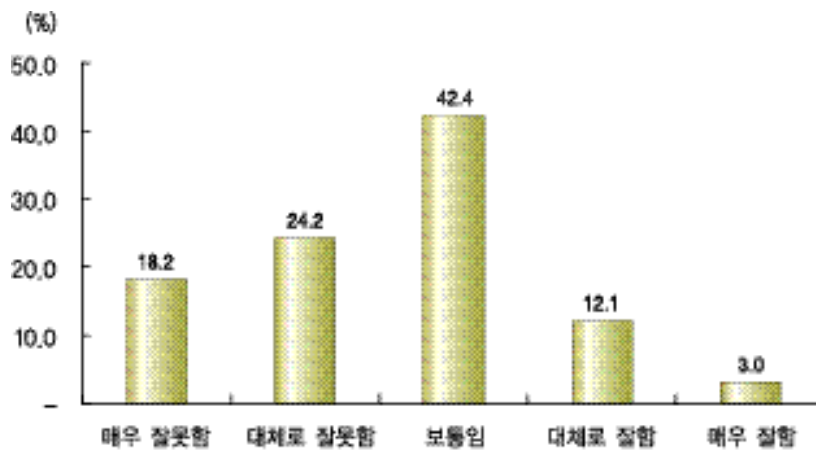
가 . 가 “ ” 21.9% , 34.46%  
 (43.8%) 가 가 “ ” 가 가 . 가  
 65.7% 가 . “ ” 가 가 . 가  
 가 가 가 가 . “ ” (51.5%)  
 45.5% 가 . “ ” 가 가 3.0%



가 57.6% 가  
 30.3% ,  
 가 12.1% .  
 가 , 가  
 가 .  
 가 가  
 가 가 , “ (42.4%) 가  
 가 “ 까 24.2%, “ ” 18.2% ,  
 가 42.4% “ ” 21.1%, “ ” 3.0%  
 15.1% .  
 가  
 가 , 가 가 가



4-26. 가

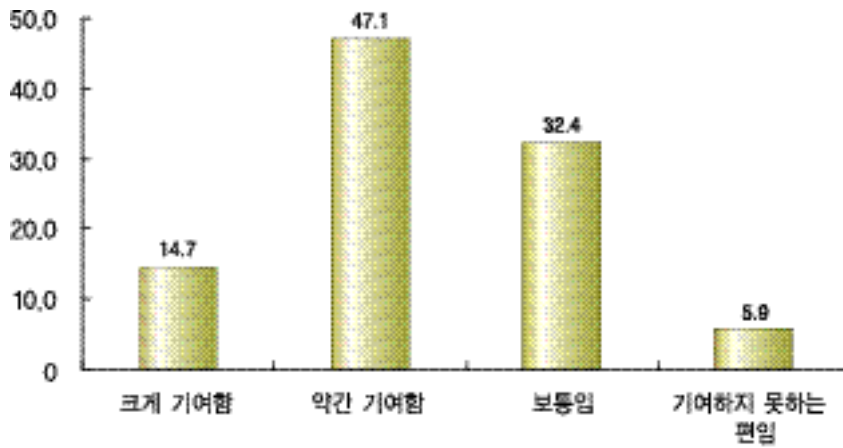


4-27. 가 가

2)

가 , 가  
가

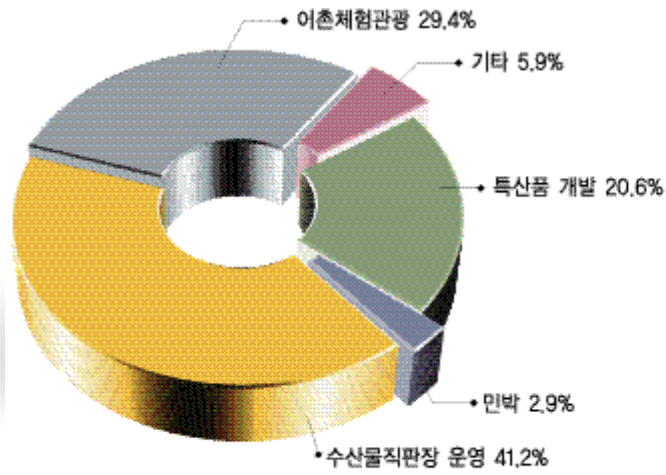
” 가 47.1% “ ”  
14.7% “ ” 가 5.9%  
가 61.8%



4-28.

가  
41.2% “ ” , 29.4% “  
가  
20.6% “





4-29. 가

) 가

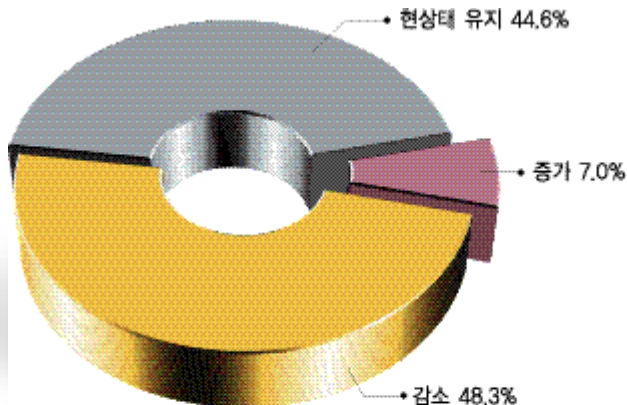
가

“ ” 48.3% 가  
 “ ” 44.6%

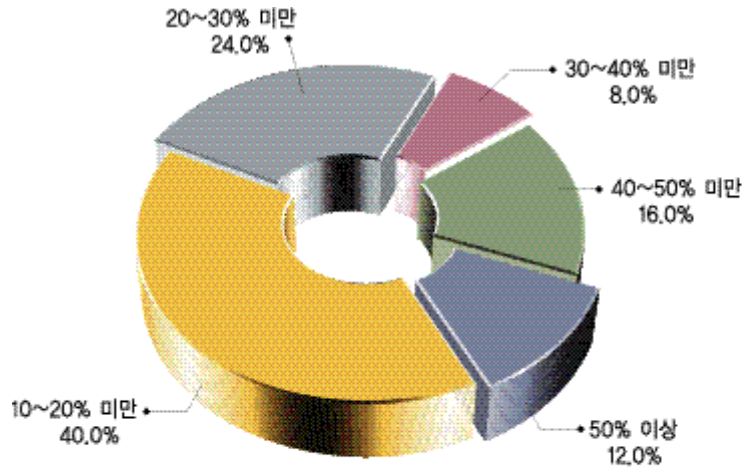
가

“ 10~20% ”  
 40.0% 가 “ 20~30% ”  
 24.0% “ 40~50% ” “ 30~40% ” 16.0%, 8.0%  
 “ 50% ” 12.0%

20%

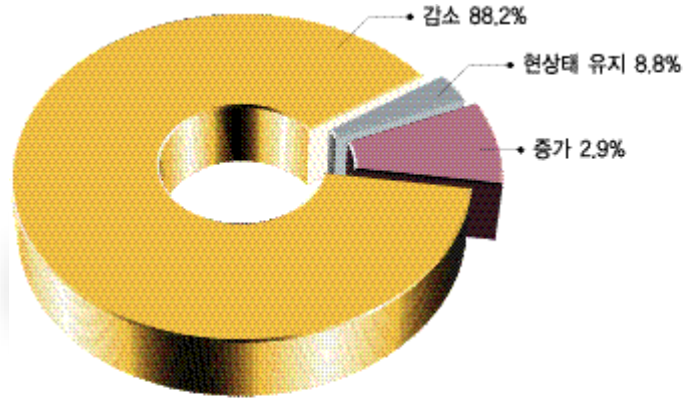


4-30.

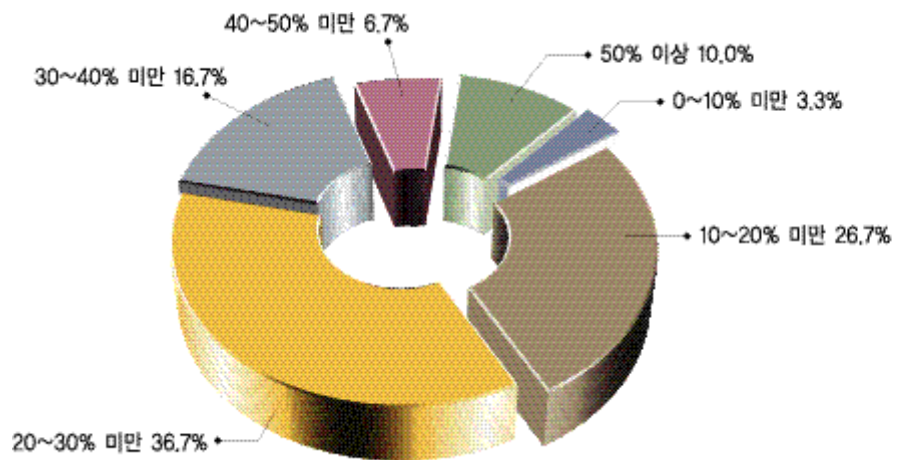


4-31.

가  
 가가 가 ,  
 “ (88.2%)  
 ” 8.8% “ 가  
 ” 2.9%



4-32. 가

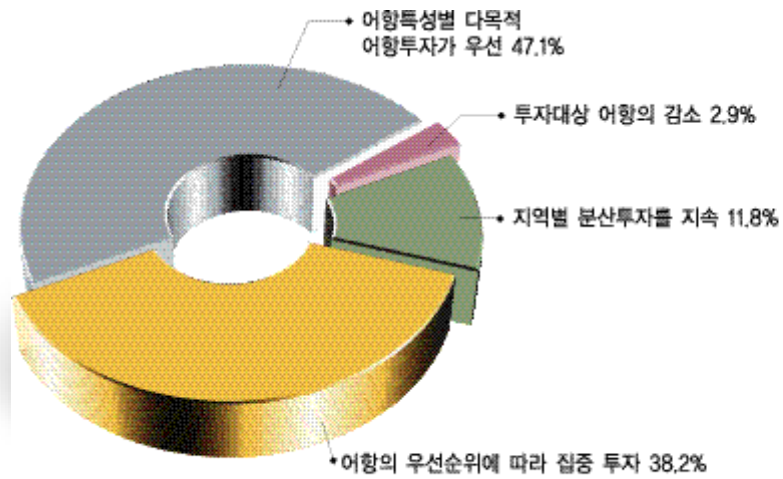


4-33. 가

가 가  
 , “ 20~30% ” 36.7% 가 ,  
 “ 10~20% ” 26.7%, “ 30~40% ” 16.7% . “ 50% ”  
 “ 40~50% ” 10.0% 6.7% .  
 “ 20~30% ” 가 .

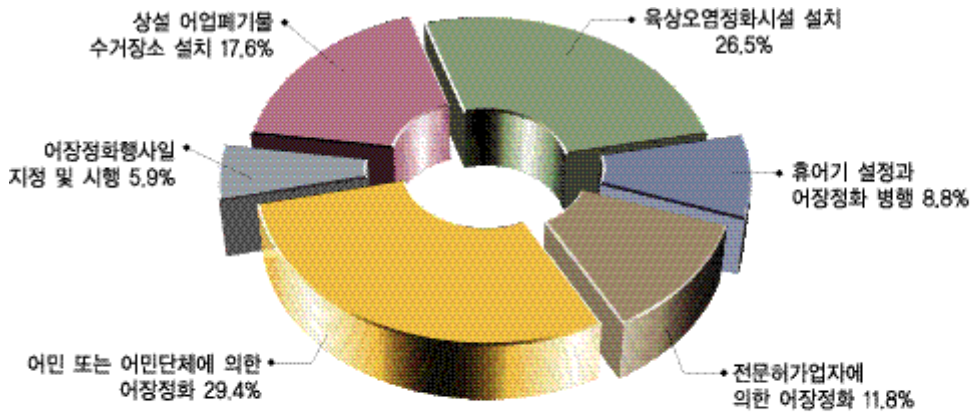
)

가 . “ 가 47.1% . “  
 가 38.2% . “  
 ” 11.8% ,

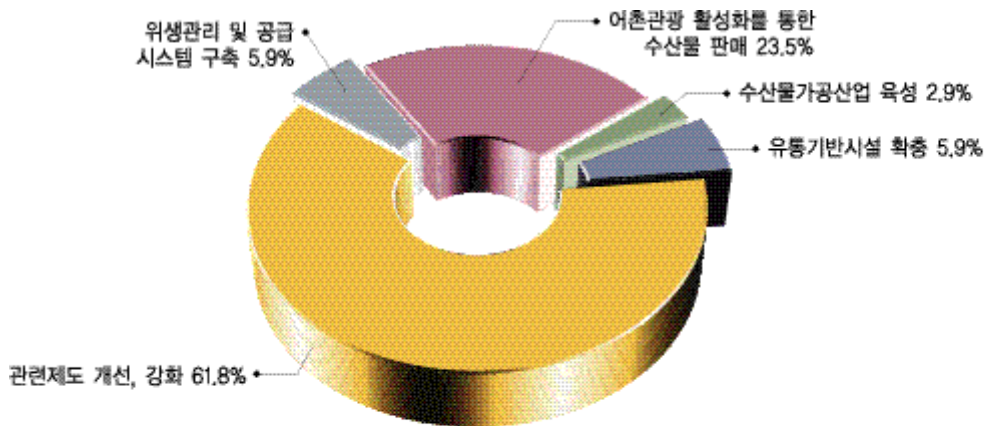
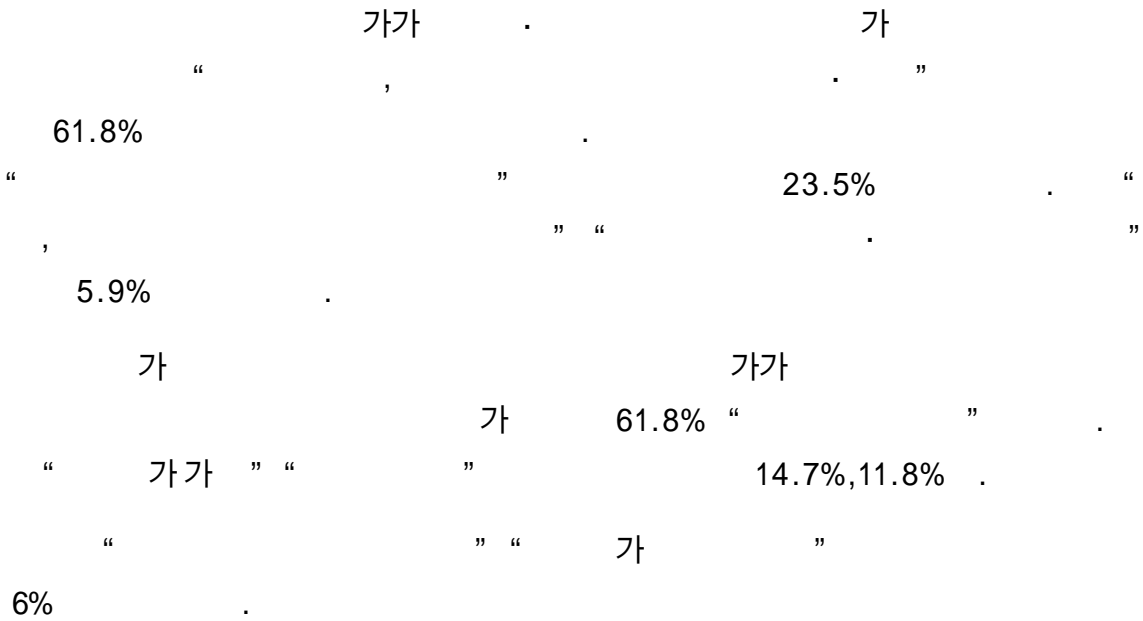


4-34.

가 가 “ (29.4%)가  
 가 , “ ”  
 26.5% .  
 “ ” “ 가 ” “  
 ” 17.6%, 11.8%,  
 8.8% .  
 “  
 ” 가 ,  
 가 .



4-35.



4-36. 가가 ( )

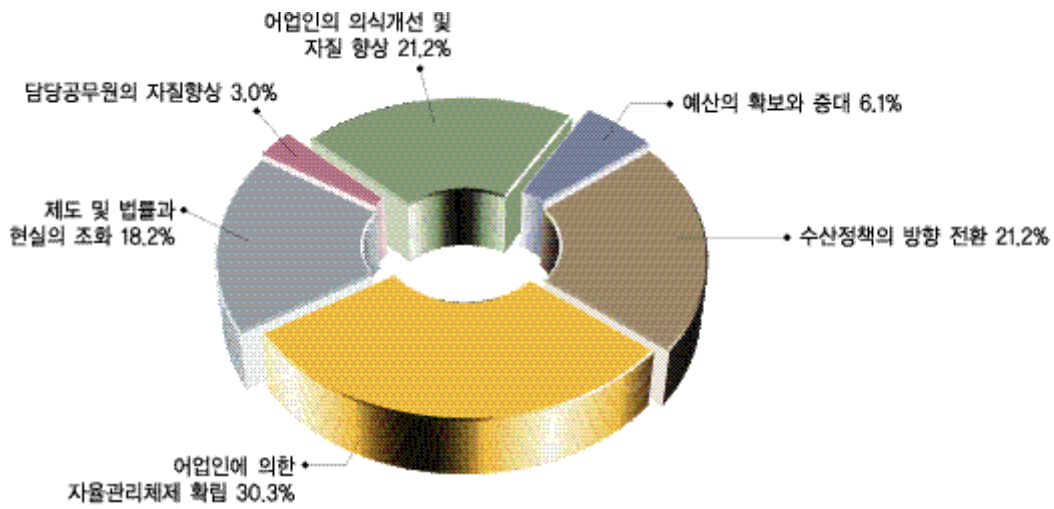






4-24.

	68	100.0
	14	20.6
	9	13.2
	11	16.2
	5	7.4
	8	11.8
	14	20.6
가 .	1	1.5
	2	2.9
가	3	4.4
	1	1.5
	-	-



4-42.

“ ” 30.3% “ ” 21.2% “ ” 18.2% “ ”







( )

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Korean Coastal and Offshore Fishery Census

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