

# Economic value of biodiversity

	Category 1	Category 2	Utility	Choice
	Direct use	Consuming use	Commercial use	X
Total econo mic value	Indirect use	Non-consuming use	Cultural, Aesthetic Value Recreation(tourism) Health Education Information	√
		Ecosystem service	Circulation of Nature Flood control Water quality control	<b>√</b>
	Nonuse	Choice value	Adaptation, Conservation of Ecosystem	$\checkmark$
		Conservation value	Culture, Heritage	$\checkmark$

## Summary of survey

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- -Date: 1/May/2014-16/May/2014
- -Who: Seoul citizen 300
- -Survey: face to face interview
- -Institute of surveying: Korean Gallop
- Name of survey: Survey on non-market value of Korea's biodiversity

## Survey structure

Information Sharing

Pre-Survey (region, age, sex)

Survey (Cognition on Biodiversity in Korea)

Survey on social-economic features (Donation, income, education)

## Information sharing

Definition of biodiversity

- Diversification of wild animals, plants, insects
- The variety of different living organisms within a particular area or habitat

Structure of Biodiversity

- 1) Species of wildlife (Familiar/Endangered) (Harper and Hawksworth, 1995)
- 2) Habitat quality (Mountain, Wetland, countryside) (Arts et al. 1990)
- 3) Ecosystem function or services(Direct/indirect) (Steneck and Dethier, 1994)

# Endangered Species in mountain habital

① 광릉요강꽃	②죽백란	③ 털복주머니난	④장수하늘소
⑤대륙사슴	⑥반달가슴곰	⑦붉은 박쥐	⑧사향노루
⑨산양	⑩스라소니	①여수	②표범
		Charle Same	
<u> </u>	14늑대	15크낙새	16산굴뚝나비
	AA公共2 : 独立8		

# Endangered Species in grassland habitat

① 비바리뱀	② 산굴뚝나비	③ 수염품뎅이	④ 상재나비
⑤ 나도풍란	⑥ 만년콩	⑦ 섬개야광나무	⑧ 암매
⑨ 풍란	⑩ 한란	① 느시	⑫ 단양쑥부쟁이
* XX			
① 독수리	④ 뜸부기	⑤ 무당새	16 무산쇠족제비
			LIGHT ROLL

# Endangered Species in wetland habitat

① 넓적부리도요	② 노랑부리백노	③ 저어새	④ 참수리
			*
⑤ 흰꼬리수리	⑥ 황새	⑦ 수달	⑧ 수원청개구리
	1		
⑨ 두드럭조개	⑩ 귀이빨대칭이	⑪ 청다리도요사촌	⑫ 남방방게
③ 붉은발말똥게	⑭ 금개구리	⑤ 알락꼬리마도요	(16) 흰발농게
			1 The second second

# Endangered Species in wal-er-habitat

① 귀이빨대칭이	② 두드럭조개	③ 수달	④ 감돌고기
⑤ 꼬치동자개	⑥ 남방동사리	⑦ 미호종개	⑧ 얼룩새코미꾸리
			P. W. C. Lines
⑨ 여울마자	⑩ 임실납자루	⑪ 퉁사리	② 흰수마자
[3] 순채	① 꺽저기	⑤ 남생이	(6) 다묵장어

## Level of threat and its effect of biodiversity

Alternative of threat

- Expanding cropland
- Land development for cities and industries
- •Indiscriminate harvesting

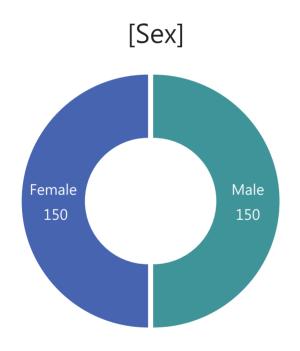
Effect of reduction of biodiversity

- Reduction of number of wildlife(familiar or endangered species)
- Reduction of habitat quality may cause degrading of biodiversity
- More frequent flood, degrading of water quality and air quality and accelerlation of climate change

# Policy options

	Structure	Policy options		
1	Avoiding reduction of wildlife	<ul> <li>a. Avoiding reduction of familiar species of wildlife</li> <li>b. Avoiding reduction of familiar and endangered species of wildlife</li> <li>c. Recovery of endangered species of wildlife</li> </ul>		
2	Habitat Control	<ul><li>a. Avoiding Reduction of function of habitat</li><li>b. Recovery of habitat</li></ul>		
3	Ecosystem Enhancement	<ul><li>a. Recovery of function of ecosystem directly impacting on human being</li><li>b. Recovery of function of ecosystem directly and indirectly impacting on human being</li></ul>		

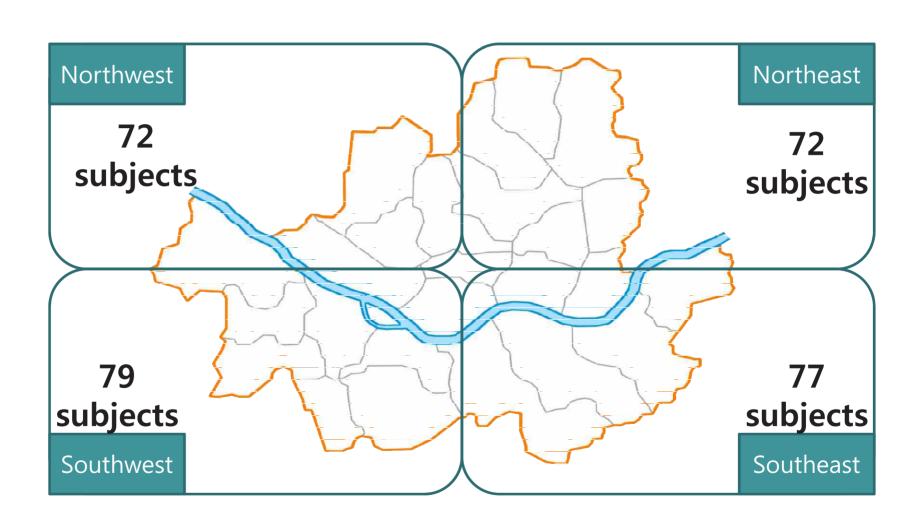
# Sex and age



#### [Age]

category	distribution
10 years	5
20 years	68
30 years	76
40 years	79
50 years	72

# Regional distribution



# Income distribution

Monthly average income(Korean won)		Distribution
1	Less than 100	16
2	100-200	19
3	200-300	42
4	300-400	82
5	400-500	77
6	500-600	36
7	600-700	11
8	700-800	10
9	800-900	5
10	900 and over	2

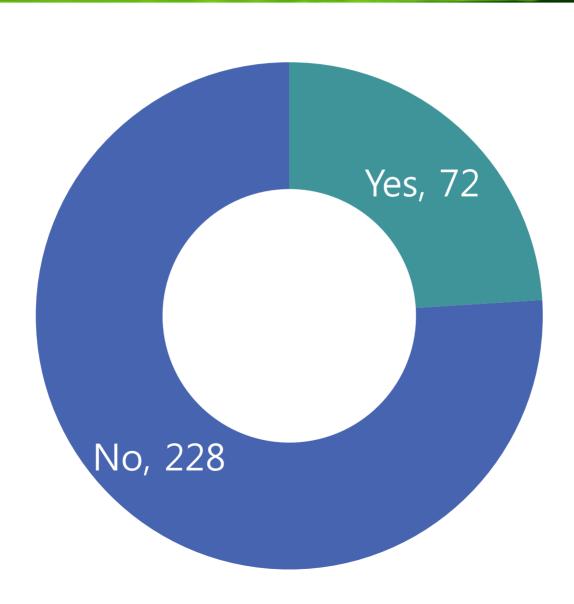
# Occupation

Category		Distribution	
1	Professional	9	
2	Management	5	
3	Office	49	
4	Sales service	53	
5	Manufacturer	3	
6	Self employed	83	
7	Housekeeping	54	
8	Students	41	
9	Non employed	3	

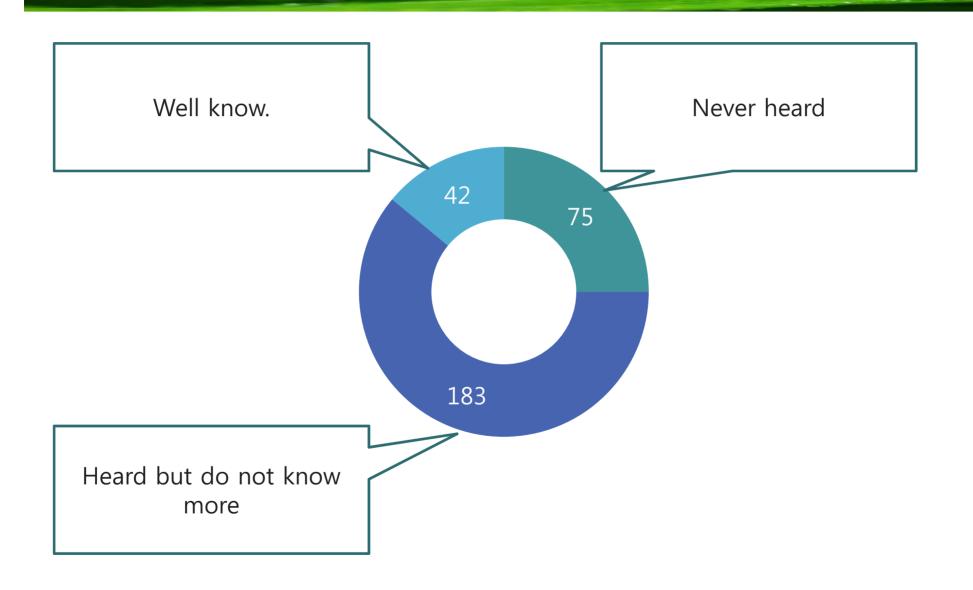
# Final education

Cat	egory	Distribution	
1	Less than Middle school	3	
2	High school	109	
3	Community college	51	
4	Under graduate	131	
5	Graduate and over	6	

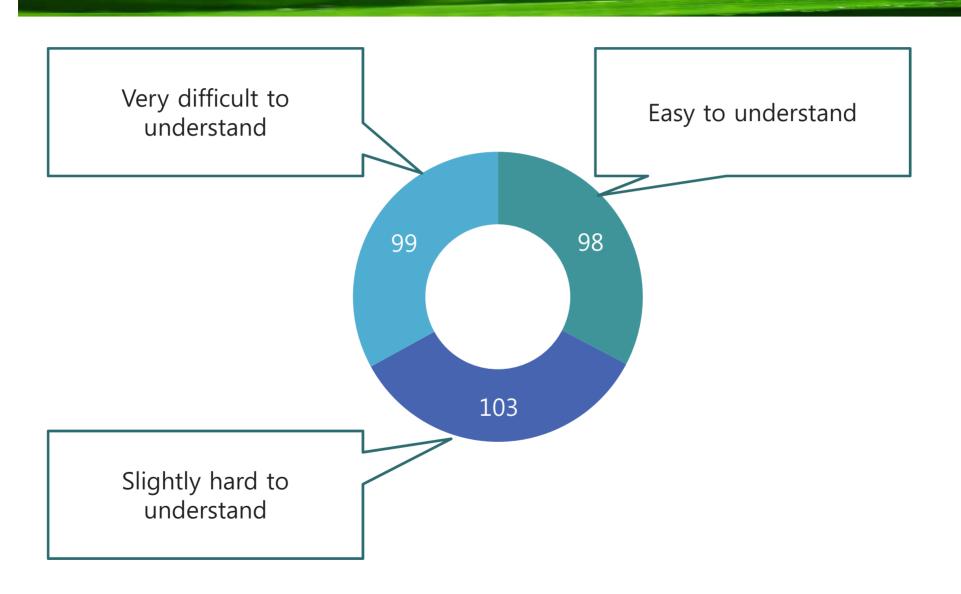
# Donation



# Prior Knowledge on biodiversity



# How easy to understand term "biodiversity"



# Prior knowledge on nonmarket value of biodiversity

#### [Answer on recognition of nonmarket value of biodiversity]

		No	Yes
1	Aesthetic Value	265	35
2	Mental stability value	283	17
3	Education value	281	19
4	Maintaining ecosystem	279	21
5	Reducing climate change & Conservation of air &water quality	292	8
6	Moral value	285	15
7	Stewardship value	290	10

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# Thanks for attention