



# <The Competition Problems Of Fishery Resources Between Commercial Fishing And Recreational Fishing And Its Solutions>

어업인과 낚시인의 수산자원 경합문제와 해결방안  
모색

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# I . A Historical Review on the Introduction of a Recreational Fishing License System



## 01

# A History of the Introduction of a Government-Level Recreational Fishing License

고시

Year	Main Contents	
1974.4	Review of the Act on Domestic Fishing for the Protection of Water Quality Environment/Water Fish Resources and Review of a recreational fishing license	Ministry of Oceans and Fisheries (former Fisheries Agency)
1987/88	To resolve disputes, review of the recreational fishing license (external cases/related institutions, expert meetings, etc.) → not enforced due to insufficient conditions	MOF (former Fisheries Agency)
1992.8	Review on the introduction of a domestic recreational fishing license	MOF/Ministry of Environment
1993.7	The Ministry of Environment wanted to introduce a recreational fishing license, while the Ministry of Oceans and Fisheries argued that a mid- to long-term review is necessary.	Debate over the introduction of a recreational fishing license
1995.5	The Ministry of Environment prepared an action plan for a recreational fishing license system since 1996.	MOF/MOE
1996.4	Expressed the will to actively promote a recreational fishing license	MOE
1996.5	Working-level officials from the Ministry of Environment and the Fisheries Agency gathered to discuss the fishing license division, but failed to reach an agreement	MOF/MOE
1996.10	Order from the Prime Minister's Office to review the implementation of the recreational fishing license	Prime Minister's Office → MOE
1996.11	Legislation on the Act on the Management of Lake Water Quality (proposal) that includes a recreational fishing license	MOE
1997.2	It was pointed out that an introduction of a recreational fishing license was unrealistic. Instead, a no fishing zone was set in the water intake area.	MOE
2001.7	Discussions of comprehensive measures for marine development, including a recreational fishing license system, was held at a party-government council	Government/Ruling Party
2001.10	Review of the feasibility of introducing a recreational fishing license	MOF
2006.12	Preparation of a draft of the Recreational Fishing Management and Promotion Act (tentative name) and opinion checks of relevant departments	
2011.3.9	Establishment of the Recreational Fishing Management and Promotion Act	
2013.9.10	Establishment of the Recreational Fishing Management and Promotion Act	

## II . The Problem of Competition in the Use of Fishery Resources Between Commercial Fisherman and Recreational Fisherman



## 01

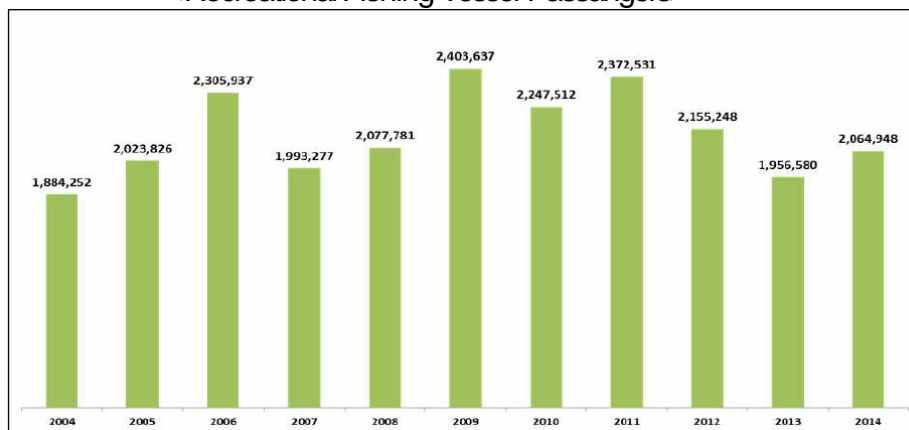
# The General Status of Recreational Fishing (1)

피.이업인과 낚시인의 수산자원 이용 경합 문제

- ☑ Due to the improvement of national income level and the increase in socioeconomic demand of leisure, the domestic recreational fishing population is on the rise, but no management plan exist

- estimated recreational fishing (p): (90)3.25m → (00)5m → (10)6.52m → (15)6.77m
- reported recreational fishing vessels: (06)5,198 → (10)4,060 → (16)4,500
- recreational fishing vessel passengers: (06)2.3m → (10)2.06m → (16)3.4m
- fish farms: (2014)185, visitors: 596,300
- marine recreational fishing park: 2015년 18, visitors: 821,520

<Recreational Fishing Vessel Passangers>

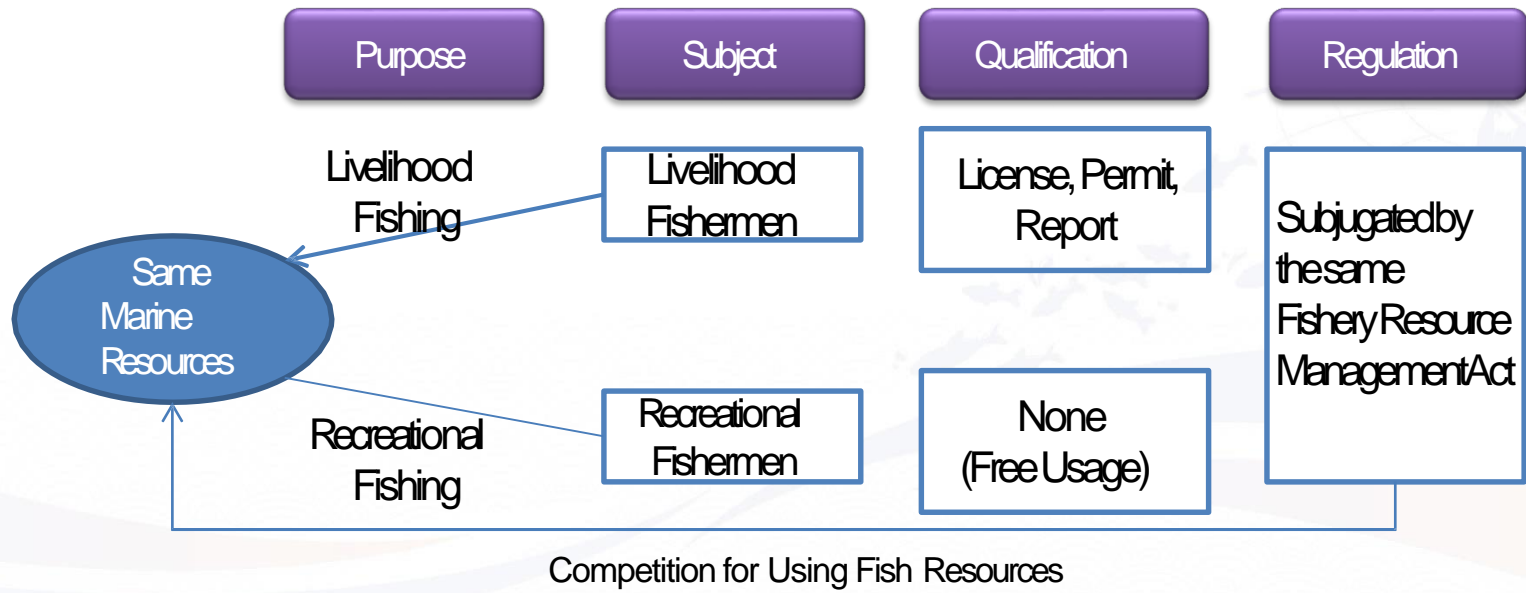


Source: Lee, Kwang Nam, A Study on the Introduction of An Advanced Recreational Fishing Management System in Korea \_ 2017, p4



## 02 The Influence of Recreational Fishing Towards Marine Resources (1)

- ✓ Fishing as a livelihood, and recreational fishing which are leisure activities, use the same marine resources, and establish competition relationships.
- ✓ The use of marine resources due to leisure activities is not included in the proper catch amount stipulated in the institutional management criteria.



# 02

## The Influence of Recreational Fishing Towards Marine Resources (2)

문세



Popular fishing site becomes a dumping ground due to ill-mannered tourists





### III. An Analysis of Fishery Resource Utilization By Recreational Fishermen



## 01

## An Analysis of the Catchment of Major Fish by Recreational Fishermen

☑ The principal species of fish by fishing waters: the east coast is mackerel, the south coast is

	EastSea		SouthSea		WestSea	
	Species	FishCatch	Species	FishCatch	Species	FishCatch
1	Mackerel	903	Largehead hairtail	1,007	Mya Arenaria	(Unit ton)
2	Flat fish	631	Acanthopagrus schlegelii	963	Webfoot octopus	1,406
3	Greenling	606	Mya Arenaria	521	Olive flounder	786
4	Acanthoagrus schlegelii	540	Red seabream	506	Greenling	739
5	Mya Arenaria	421	Sebastes inermis	367	Acanthopagrus schlegelii	336
6	Girella punctata Gray	402	Girella punctate Gray	310	Cuttlefish	257
7	Scomberomorus niphonius	374	octopus	290	Goby	215
8	Sebastes inermis	228	Finespotted flounder	283	Sea bass	202
9	Finespotted flounder	204	Greenling	209	Jacks	197
10	Jacks	198	Goldeye rockfish	197	Sebastes inermis	196

<Estimation of Fish Catch by Species and Seas >

20	Sea bass	86	Other fish	83	Konosirus punctatus	44
Total		5,877		5,793		7,632
					0	1

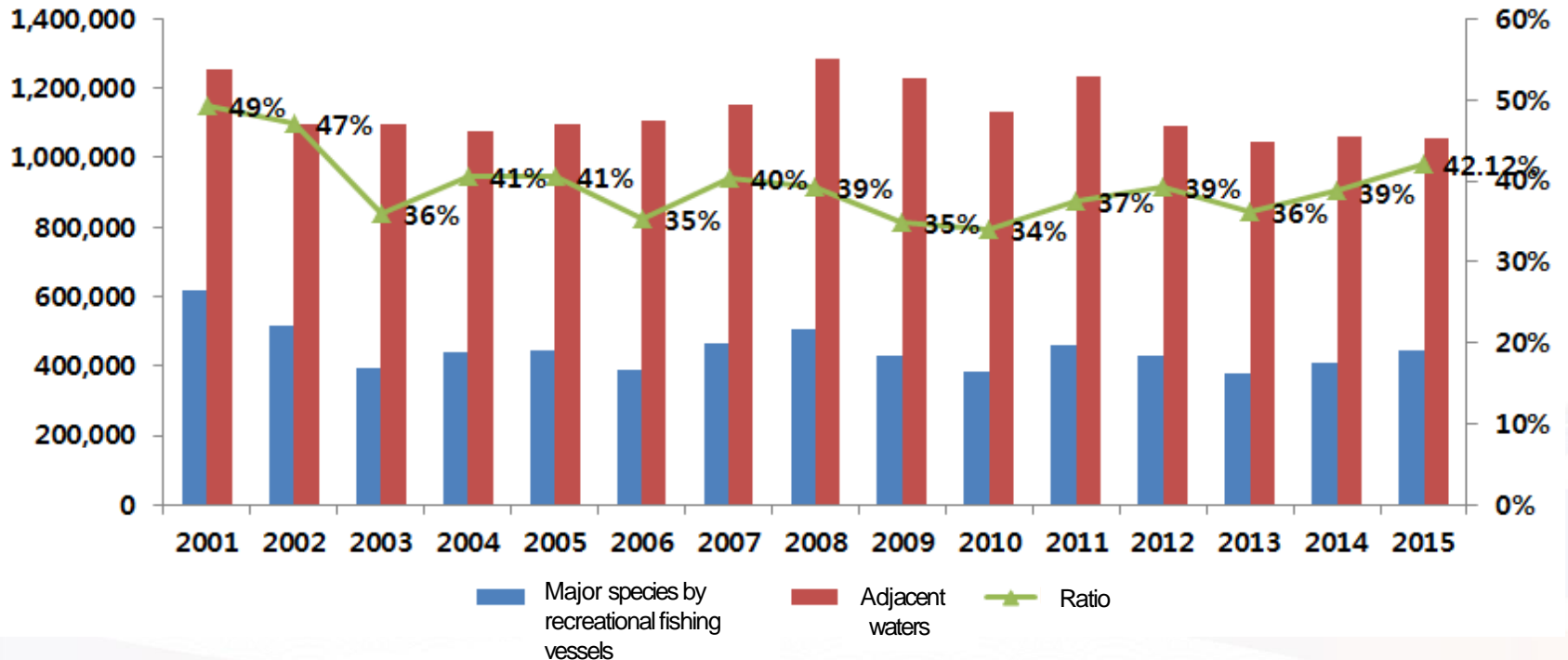
Source: Lee, Kwang Nam, A Study on the Introduction of An Advanced Recreational Fishing Management System in Korea, 2017, p.3.

# 02

## The Use of Fishery Resources By Recreational Fishing

분석

☑ The commercial catch quantity of the major fish species is 445,812 tons, accounting for 42.12 percent of the adjacent water fisheries



Source: Lee, Kwang Nam, A Study on the Improvement of Self-Management Fishing System, 2016.

## 03 Estimation of Fishery Resource Utilization By Recreational Fisherman

- ✓ The total amount of fishing is 166,000 tons (approx. 17.9% of the annual marine production, approximately 4% of the total production of marine products, 2017.12).
- ✓ The use of fisheries resources through recreational fishing is not counted and is excluded from the proper amount of fishery resources and the proper amount of fish caught.

	Estimation of Fishing Population (Sea Fishing + Mixed fishing)	The proportion of fishermen with a catch by number of outings	The average catch weight of a catch	Average number of outings of fishermen with catch over the past year	Estimation of the Fishing Population Based on the Number of Outings	Total catch = Fisherman * average catch weight
estimation of the population with a catch	5,952,756	100.0%	3.84kg	6.82	5,952,756	166,669 tons
Below 2		39.1	3.31	2.00	2,324,896	15,385
3~4		29.9	4.10	4.00	1,779,866	29,211
5~6		2.3	4.41	6.00	136,258	3,603
7~12		17.3	4.22	10.32	1,030,448	44,869
13~24		9.4	4.22	23.11	562,063	54,872
More than 25		2.0	4.37	35.94	119,225	18,729

, A Source: Lee, Kwang Nam Study on the Improvement of Self-Management Fishing System, 2016.

## IV. A Review of the Recreational Fishing Management and Promotion Law in Korea





# 01

## Current Status and Problems of the Recreational Fishing Management System in Korea

- ☑ Fishing restrictions require only to specify duration, zone and size
- ☑ It is written that regulations on types and number of catches can be made in the name of the Minister of Oceans and Fisheries, but there are no specific criteria.

## 02

# The Problem of the System on the Collection of Fishing Fees, etc.

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- ☑ According to Article 6 of the Fishing Management and Promotion Act, each local government has the authority to designate and operate fishing control zones through ordinance
- ☑ Matters concerning the collection of fishing fees, without the basis of upper law
- ☑ The Jeju Special Self-governing Province is the only area operating a ordinance limited to local recreational fishing vessels. In the case of sea fish park, regulations are enacted and operated according to the local government due to the transfer of the project.

## V . Solution for the Use of Contending Marine Resources



# 1. A Plan to Introduce a Recreational Fishing Rights System



# 01

## A Plan to Introduce a Recreational Fishing Fights System

		Main Contents	
I	Operation of a recreational fishing license system under the supervision of the local governments	Management and Utilization of Recreational Fishing by Local Government	Under the current Fishing Management and Promotion Act, the head of the local government handles the report and registration duties
II	Operation of a recreational fishing membership system	You need to purchase a fishing license to use a specific fishing area, and you need to sign up for a fishing web site or enter your personal information.	Can build a recreational fishermen database
III	Operation of a free fishing license	When the license period expires, re-training is required for the renewal of the license.	
IV	II + III	Free fishing permit is issued when a certain training is completed after membership of the fishing website.	



## 2. An Introduction of Standards to Restrict Recreational Fishing Catching Contending Species



# 01

## Necessity of Introducing a Standard for Restricting Recreational Fishing Catching Competing species.

- ✓ If recreational fishing increases, it will affect commercial fishing.
- ✓ Excessive use of marine resources caused by recreational fishing has resulted in a reduction of commercial available marine resources and the efficiency of fishery resource
- ✓ Establishing standards for restricting recreational fishing can improve efficiency in the fisheries resource management and establish a sound fishing culture, Review of the species (hairtail, webfoot octopus, *Acanthopagrus schlegelii*, octopus) which are disputed the most between commercial fishermen and recreational fishermen
- ✓ Estimation of a theoretical limit model is difficult due to the absence of basic data such as the number of fishing people, the number of fishing outings, and fishery catch rate

## 02

# A Plan for the Regulation of Fishing Restrictions Catching Contending Species

Prior to establishing fishing restriction standards, it is necessary to

- ✓ 1) secure data for the preparation of a fishing restriction criteria considering catch and resource volume
- ✓ 2) establish fishing tools for Catch And Release,
- ✓ 3) strengthen empathy and awareness for fishing restrictions
- ✓ 4) establish manpower and systems to monitor fishing restrictions

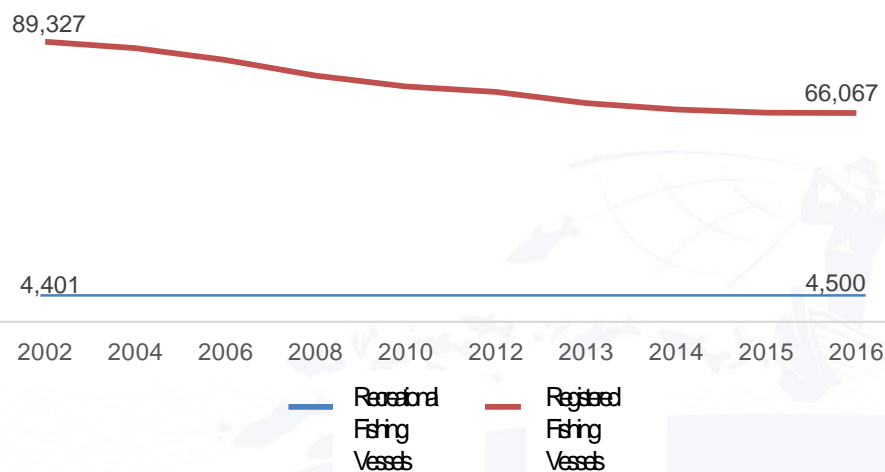
### 3. A Plan to Introduce An Exclusive Recreational Fishing Vessel System



# 01 Current Status of Fishing Vessels

<Recreational Fishing Vessels and Registered Fishing Vessels(2002 ~ 2016)>

Year	Recreational Fishing Vessels(A)	Registered Fishing Vessels(B)	A/B
2002	4,401	89,327	4.9%
2004	5,191	87,203	6.0%
2006	5,198	83,358	6.2%
2008	5,027	78,280	6.4%
2010	4,060	74,669	5.4%
2012	4,708	72,922	6.5%
2013	4,390	69,323	6.3%
2014	4,381	67,191	6.5%
2015	4,289	66,234	6.5%
2016	4,500	66,067	6.8%



Source: Lee Kwang Nam, A Study on the Introduction of An Advanced Fishing Management System in Korea 2017, p.51



## 02

# Review of the Fishing Vessel Law

✓ A Recreational Fishing Business is a business in which an angler can be carried on a fishing vessel to guide a fishing site or be engaged in fishing on a fishing vessel, and A Recreational Fishing Boatman is somebody who runs a Recreational Fishing Business.

) Article 2 of the Fishing Management and Promotion Act (Definition)



Article 25 of the Fishing Management and Promotion Act (Reporting A Recreational

✓ Fishing Business)

Article 16 of the Enforcement Decree of the Fishing Management and

✓ Promotion Act (Report Requirements)

# 03

## Analysis of the Operation of the Current Exclusive Recreational Fishing Vessel System

- The safety of recreational fishing vessels
- Falling into the category of a Fisherman (instead of a Recreational Fisherman)
- The problem of supplying duty-free oil Currently
- implemented Fisheries Relations Act Recreational Fishing
- Vessel Management Issues Dispute Issues
-

# 04

## A Plan to Introduce An Exclusive Recreational Fishing Vessel System

- Registration Safety
- Inspection
- Vessel Facility Standards
- Other Standards
- Ship Moorings
- Crew Limits
- Operation Hours
- Annual Operating Period
- Duty-Free Oil
- Insurance
- Conditions For License
- Business Regulations



## 4. Solutions To Other Contentious Problems



# 01

## Solutions For Other Contentious Problems

- ✓ Forming an integrated fishing organization
- ✓ Establishing a sound fishing culture Operating
- ✓ a honorary observer system
- ✓ Creating a recreational fishing culture together with the people

Thank You

