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# IMPACT EVALUATION OF THE CLOSED FISHING SEASON POLICY FOR SARDINES IN ZAMBOANGA PENINSULA (REGION IX)

KNOWLEDGE, ATTITUDE, AND  
PERCEPTION OF FISHERS AND SARDINE  
FACTORY WORKERS

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# PROJECT COMPONENTS

## **Overall Project Lead and Social Welfare Impact**

Dr. Agnes C. Rola (UPLB)

## **Industry Level Impact**

Dr. Teresita A. Narvaez (WMSU)

## **Biological Impacts**

Dr. Maria Rio A. Naguit (JRMSU)

## **Policy, Institutions, and Governance**

Ms. Dulce D. Elazegui and Dr. Bing C. Brillo (UPLB)

## **Social Dimension**

Dr. Merlyne M. Paunlagui (UPLB)

## **Household Level Impact**

Mr. Hadji C. Jalotjot (UPLB)

# INTRODUCTION

- The Philippine Fisheries Code of 1998 (see Republic Act 8550, Section 9) provided for the use of closed season as a management-conservation measure
- Implemented through JAO-01 s.2011 or the so-called **Closed Fishing Season Policy for Sardines** in Zamboanga Peninsula to avert the decline in the volume of catch needed by the canning industry.

# OBJECTIVES OF THE STUDY

- **Assess the attitude of the communities on the policy implementation of the closed fishing season**
- **Specific objectives:**
  - **understand how the fishers and workers participate in the community decision-making, particularly on issues relating to fisheries management;**
  - **examine the awareness and knowledge of the fishers and sardine workers on the closed fishing season policy;**
  - **assess the attitude toward the closed fishing season policy of fishers and workers; and**
  - **determine the perception of fishers of workers on the benefits of the policy on the key stakeholders including the local fishers, commercial fishers, and workers in the sardine factory**

# STUDY SITES

Dipolog, Zamboanga del Norte is a place of 25 flourishing large and small-scale bottled sardines enterprises. Known to be the ***“Bottled Sardines Capital of the Philippines”***

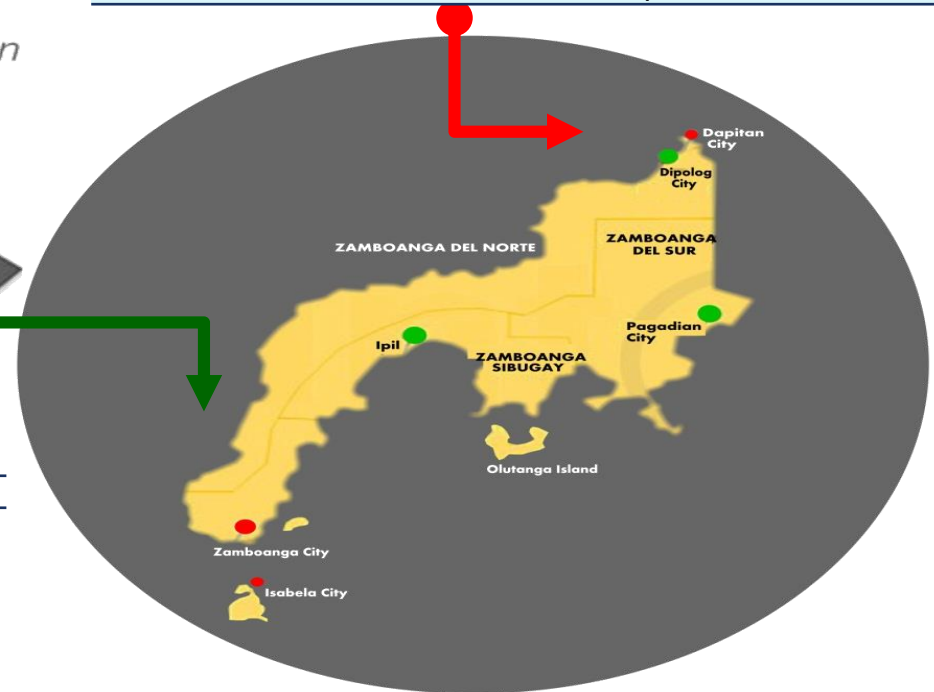


## CANNED SARDINES COMPANIES

- |   |   |
|---|---|
| 1. Aquatic Food Manufacturing Corporation                           | 7. Mega Fishing Corporation   |
| 2. Permex Producer and Exporter Corporation                         | 8. Southwest Asian Canning Corporation (former Asahi Food Manufacturing Inc.) |
| 3. BigFish Food Corporation   | 9. Universal Canning Corporation  |
| 4. Century Pacific Food Corporation (former Columbus Seafoods Corp) | 10. Seacoast Top Choice Food Corporation                                      |
| 5. Goldstar Seafoods  | 11. Atlantic Food Corporation   |
| 6. Ayala Seafoods Corporation                                       | 12. Fortune Group Corporation (Youngstown)                                    |

## BOTTLED SARDINES COMPANIES

- |  |   |
|--|---|
| 1. Montañó Foods Corporation                 | 11. Gaso Food Products  |
| 2. Mendoza Industries                        | 12. Dipitan City Food Products  |
| 3. Alenter Foods Inc.                        | 13. Jose Dalman Sardines Savers Association   |
| 4. Zaragoza Foods Corporation                | 14. Manukan Sardines Savers Association   |
| 5. Fuentes Food Manufacturing                | 15. Roxas Sardines Livelihood Association   |
| 6. Dipolog Seaside Women's Association       | 16. Palandok Agrarian Reform Beneficiaries and Agricultural Multi-purpose Cooperative (PARBFAMCO) |
| 7. Tito Mike's Food Company                  | 17. Monina's Sardines   |
| 8. Etch Kiu Products, Inc.                   | 18. Adriatico Food Products   |
| 9. Dipolog School of Fisheries Food Products | 19. MM Cadag Food Products  |
| 10. Tita Rosa Food Products                  | 20. Sindangan Spanish Style Sardines Producers Cooperative  |



Zamboanga City is home to 12 canning sardines factories and known as the ***“Sardines Capital of the Philippines”***

# METHODOLOGY: MIXED METHOD OF DATA COLLECTION

## \* QUANTITATIVE DATA HOUSEHOLD SURVEY

## \* QUALITATIVE DATA FOCUS GROUP DISCUSSION

- FISHERS
- WORKERS IN THE CANNING FACTORY

Location	Fisher		Worker		Total
	No.	%	No.	%	I
					No.
Zamboanga City	83	55	67	45	150
Zamboanga del Norte	89	59	62	41	151
Total	172	57	129	43	301

# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON COMMUNITY ISSUES

**Only a few are involved in making decisions regarding major community issues (in %)**

Rating	Total		
	Fisher (172)	Worker (129)	
<b>Strongly Disagree</b>	1.74	3.88	
<b>Disagree</b>	18.02	16.28	
<b>Not sure</b>	32.56	36.43	
<b>Agree</b>	45.35	39.53	
<b>Strongly Agree</b>	2.33	3.88	
<b>Total</b>	100.00	100.00	

# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON COMMUNITY ISSUES

**People in the Barangay are not well informed about issues that require barangay- wide decisions**

Rating	Total		
	Fisher (172)	Worker (129)	
<b>Strongly Disagree</b>	1.74	3.10	
<b>Disagree</b>	26.16	26.36	
<b>Not sure</b>	37.21	48.06	
<b>Agree</b>	34.30	17.05	
<b>Strongly Agree</b>	0.58	5.43	
<b>Total</b>	100.00	100.00	



# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON FISHERIES MANAGEMENT

**I understand how decisions about fisheries  
management are made**

Rating	Total		
	Fisher (172)	Worker (129)	
<b>Strongly Disagree</b>	0.58	0.78	
<b>Disagree</b>	6.40	3.88	
<b>Not sure</b>	37.79	20.16	
<b>Agree</b>	49.42	63.57	
<b>Strongly Agree</b>	5.81	11.63	
<b>Total</b>	100.00	100.00	

## RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

### ON FISHERIES MANAGEMENT

Percentage of respondents who are aware of the policy		
Rating	Total	
	Fisher (172)	Worker (129)
Yes	75.00	95.35
No	25.00	4.65
Total	100.00	100.00

# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON FISHERIES MANAGEMENT

Year when the respondents learned the policy			
Rating	Total		
	Fisher (172)	Worker (129)	
Before 2011	7.56	3.10	
2011	26.16	39.53	
After 2011	26.74	40.31	
No response	39.53	17.05	
Total	100.00	100.00	

# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON FISHERIES MANAGEMENT

**Percentage of respondents who identified the months covered by the close season policy on sardine by province, 2015**

Months covered	Total	
	Fisher (n=172)	Worker (n=129)
<b>Correct Months</b>	41.28	64.34
<b>With at least one correct month</b>	25.58	19.38
<b>Completely wrong</b>	4.07	8.53
<b>Cannot recall</b>	1.74	0.00
<b>No idea</b>	5.23	1.55
<b>No response</b>	22.09	6.20
<b>Total</b>	100.00	100.00

## RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

### ON FISHERIES MANAGEMENT

**Percentage of respondents who participated in  
the consultation of the policy**

Rating	Total	
	Fisher (172)	Worker (129)
Yes	17.44	27.91
No	81.98	66.67
No Idea	0.58	5.43
Total	100.00	100.00

# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON FISHERIES MANAGEMENT

Source of information on the closed fishing season policy, 2015 (in percent)		
Months covered	Total	
	Fisher (n=172)	Worker (n=129)
<b>BFAR/DA/DOST</b>	17.45	24.03
<b>Fishers</b>	45.35	16.29
<b>Worker</b>	1.16	1.55
<b>Company</b>	1.16	34.10
<b>Municipal Agricultural Office</b>	1.16	0.00
<b>Media</b>	8.72	22.48
<b>Through this study</b>	1.16	0.00
<b>No response</b>	23.84	1.55
<b>Total</b>	100.00	100.00

## RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

### ON FISHERIES MANAGEMENT

**Number of respondents who knew any prohibited gears**

Rating	Total	
	Fisher (172)	Worker (129)
Yes	68.02	53.49
No	16.86	24.81
No Idea	15.12	21.71
Total	100.00	100.00

# RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

## ON FISHERIES MANAGEMENT

### Percentage of respondents who knew any prohibited gears

Rating	Total	
	Fisher (172)	Worker (129)
<b>Cyanide</b>	21.51	6.98
<b>Dynamite</b>	37.79	26.36
<b>Compressor</b>	1.16	0.00
<b>Hulbot-hulbot (Danish seine)</b>	0.00	11.63
<b>Fine mesh nets</b>	25.58	17.83
<b>Others</b>	4.65	1.55
<b>None</b>	1.16	4.65
<b>No idea</b>	8.14	6.98
<b>No response</b>	23.26	35.66



## RESULTS AND DISCUSSION: LEVEL OF KNOWLEDGE ON MAKING DECISIONS

### ON FISHERIES MANAGEMENT

**Percentage of respondents who knew any  
sanctions using prohibited gears.**

Rating	Total	
	Fisher (172)	Worker (129)
Yes	59.30	42.64
No	14.53	20.16
No Idea	23.26	27.91
No response	2.91	9.30
Total	100.00	100.00

# RESULTS AND DISCUSSION:

## ATTITUDE AND PERCEPTION OF FISHERS AND WORKERS

PERCEPTIONS OF FISHERS AND WORKERS ON THE DIFFERENT DIMENSIONS OF  
CLOSED FISHING SEASON POLICY

**The closed season policy has increased work in  
the canning factory**

Rating			
	Fisher (172)	Worker (129)	
<b>Strongly Disagree</b>	3.55	10.08	
<b>Disagree</b>	5.33	20.16	
<b>Not sure</b>	63.91	26.36	
<b>Agree</b>	19.53	40.31	
<b>Strongly Agree</b>	3.55	3.10	
<b>No response</b>	4.14	0.00	
<b>Total</b>	100.00	100.00	

## RESULTS AND DISCUSSION: ATTITUDE AND PERCEPTION OF FISHERS AND WORKERS

**The closed season policy is the most effective way to  
increase the fish stocks**

Rating	Total		
	Fisher (172)	Worker (129)	
<b>Strongly Disagree</b>	0.00	0.00	
<b>Disagree</b>	6.40	4.65	
<b>Not sure</b>	39.53	15.50	
<b>Agree</b>	41.28	63.57	
<b>Strongly Agree</b>	8.72	12.40	
<b>No response</b>	4.07	3.88	
<b>Total</b>	100.00	100.00	

## RESULTS AND DISCUSSION: ATTITUDE AND PERCEPTION OF FISHERS AND WORKERS

### WHO BENEFITED MOST IN THE CLOSED FISHING SEASON POLICY

Rating	Total	
	Fisher (172)	Worker (129)
Local fisherfolk	44.19	45.74
Commercial Fishers	43.60	55.04
Male Workers	24.42	48.06
Female Workers	23.26	47.29

Multiple response

# SUMMARY AND CONCLUSIONS

OVERALL, FISHERS AND WORKERS AGREED THAT ONLY A FEW ARE INVOLVED ON HOW DECISIONS ARE MADE IN THE COMMUNITY

THAT FISHERS AND WORKERS UNDERSTOOD MORE ON HOW DECISIONS ARE MADE ABOUT FISHERIES MANAGEMENT THAN ON COMMUNITY ISSUES IN GENERAL.

# SUMMARY AND CONCLUSIONS

SPECIFIC TO THE CLOSED SEASON FISHING POLICY, MAJORITY OF THE RESPONDENTS WERE AWARE OF POLICY

BUT FEWER KNEW THE DETAILS ABOUT THE CLOSED FISHING SEASON POLICY.

MAJORITY OF THE FISHERS AND WORKERS BELIEVED THAT THE CLOSED FISHING SEASON POLICY IS THE BEST WAY TO INCREASE THE FISH STOCK

FISHERS AND COMMERCIAL FISHERS HAVE BENEFITTED MOST FROM THE BAN

# RECOMMENDATIONS

- Inclusion of the major stakeholders as early as possible for any intervention to be introduced
- Provision of livelihood opportunities/capacity building activities to make the workers economically active during the closed fishing months



■ THANK YOU