



ASOSIASI PENGELOLAAN  
RAJUNGAN INDONESIA

# Indonesian Blue Swimming Crab Association *Fishery Improvement Project*

## Bycatch Data Collection Results using Common Gillnets and 4.5 inches Nets 2022-2024

31 July 2024

## RESULTS

### List of Species Caught in Gillnet

#### Cirebon

**Table 1.** List of species caught in the gill net based on the observation in 2022-2023

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1		<b>Ikan Bedukang</b>	Fish	21	12.10	R
2	<i>Scylla serrata</i>		Crustacea	10	1.69	R
3	<i>Harpiosquilla harpax</i>		Crustacea	13	1.39	R/D
4	<i>Charybdis lucifera</i>		Crustacea	9	0.68	R
5	<i>Charybdis natator</i>		Crustacea	2	0.22	R
6	<i>Podophthalmus vigil</i>		Crustacea	170	14.31	R/D
7	<i>Portunus sanguinolentus</i>		Crustacea	8	0.98	R
8	<i>Charybdis feriatus</i>		Crustacea	115	16.58	R
9	<i>Varuna litterata</i>		Crustacea	17	2.00	R
10	<i>Charybdis hellerii</i>		Crustacea	15	0.68	R
11	<i>Sepia recurvirostra</i>		Mollusca	4	1.20	R
12	<i>Strombus ureus</i>		Mollusca	6	0.18	R/D
13		<b>Ikan Blama</b>	Fish	4	0.15	D
14	<i>Libinia sp.</i>		Crustacea	2	0.10	D
15	<i>Homoiooplax haswelli</i>		Crustacea	3	0.18	D
16	<i>Charybdis anisodon</i>		Crustacea	3	0.08	D
17	<i>Charybdis affinis</i>		Crustacea	11	0.12	D
18		<b>Kepiting Batu Total Merah</b>	Crustacea	1	0.04	D
19	<i>Octopus vulgaris</i>		Mollusca	1	0.04	D
	<b>Total</b>			<b>415</b>	<b>52.71</b>	

Note: \*) = Protected species based on the Regulation of The Minister of Environment and Forestry of The Republic of Indonesia No. 20 Year 2018 Concerning Type of Protected Plants and Animals.

ETP = Endangered, Threatened and Protected species

R = Retained species

D = Discarded species

#### Rembang

**Table 2.** List of species caught in the gill net based on the observation in 2022-2023

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Conger cinereus</i>		Fish	3	5.15	R
2	<i>Teraphon theraps</i>		Fish	16	1.70	R
3	<i>Cynoglossus lingua</i>		Fish	36	6.35	R
4	<i>Platycephalus indicus</i>		Fish	7	6.75	R
5	<i>Himantura walga</i>		Fish	25	10.45	R
6	<i>Hemiscyllium griseum</i>		Fish	5	10.00	R
7	<i>Aluterus monoceros</i>		Fish	1	0.20	R
8	<i>Pomadasys kaakan</i>		Fish	46	15.50	R
9	<i>Arius sp.</i>		Fish	12	4.20	R
10	<i>Scatophagus argus</i>		Fish	1	0.20	R

11	<i>Deprane punctata</i>		Fish	3	0.35	R
12	<i>Pseudorhombus argus</i>		Fish	14	1.27	R
13	<i>Epinephelus coioides</i>		Fish	1	2.00	R
14		<b>Ikan Tetet</b>	Fish	29	7.95	R
15	<i>Metapenaeus ensis</i>		Crustacea	4	0.66	R
16	<i>Charybdis feriatus</i>		Crustacea	8	1.20	R
17	<i>Sepia recurvirostra</i>		Mollusca	53	18.85	R
18	<i>Melo melo</i>		Mollusca	1	0.70	R
19	<i>Lagocephalus lunaris</i>		Fish	3	0.30	D
20	<i>Homoiooplax haswelli</i>		Crustacea	31	1.40	D
21	<i>Harpiosquilla harpax</i>		Crustacea	17	0.46	D
22	<i>Dardanus sp.</i>		Crustacea	14	0.12	D
23	<i>Podophthalmus vigil</i>		Crustacea	62	1.40	D
24	<i>Murex trapa</i>		Mollusca	3	0.03	D
	<b>Total</b>			<b>395</b>	<b>97.19</b>	

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**Table 3.** List of species caught in the gill net based on the observation in 2024

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Conger cinereus</i>		Fish	1	0.60	R
2	<i>Cynoglossus lingua</i>		Fish	8	1.35	R
3	<i>Himantura Walga</i>		Fish	18	6.18	R
4	<i>Hemiscyllium griseum</i>		Fish	1	1.10	R
5	<i>Pomadasy kaakan</i>		Fish	7	1.79	R
6	<i>Arius sp.</i>		Fish	2	1.30	R
7		<b>Ikan Gilikan</b>	Fish	11	2.21	R
8	<i>Sepia recurvirostra</i>		Mollusca	30	12.60	R
9	<i>Homoioplaax haswelli</i>		Crustacea	4	0.19	D
10	<i>Harpiosquilla harpax</i>		Crustacea	11	0.47	D
11	<i>Dardanus sp.</i>		Crustacea	11	0.22	D
12	<i>Thenus orientalis</i>		Crustacea	2	0.09	D
13	<i>Podophthalmus vigil</i>		Crustacea	35	1.08	D
14	<i>Murex trapa</i>		Mollusca	19	0.53	D
	<b>Total</b>			<b>160</b>	<b>29.71</b>	

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## Lampung

**Table 4.** List of species caught in the gill net based on the observation in 2024

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Teraphon theraps</i>		Fish	7	0.47	R

2	<i>Cynoglossus lingua</i>	Fish	5	0.75	R
3	<i>Himantura walga</i>	Fish	12	2.58	R
4	<i>Epinephelus coioides</i>	Fish	4	4.14	R
5	<i>Psettodes erumei</i>	Fish	27	4.29	R
6	<i>Neotrygon kuhli</i>	Fish	2	0.60	R
7	<i>Charybdis natator</i>	Crustacea	100	10.53	R
8	<i>Thenus orientalis</i>	Crustacea	131	12.12	R
9	<i>Charybdis feriatus</i>	Crustacea	41	9.35	R
10	<i>Octopus vulgaris</i>	Mollusca	5	0.35	R
11	<i>Melo melo</i>	Mollusca	13	3.32	R
12	<i>Unidentified species</i>	Mollusca	1	0.07	R
13	<i>Tachypleus gigas</i>	ETP	6	0.84	D
14	<i>Libinia sp.</i>	Crustacea	2	0.12	D
15	<i>Harpisquilla harpax</i>	Crustacea	3	0.09	D
16	<i>Myonippe hardwickii</i>	Crustacea	2	0.06	D
17	<i>Charybdis affinis</i>	Crustacea	3	0.09	D
18	<i>Psopheticoides sanguineus</i>	Crustacea	2	0.03	D
19	<i>Unidentified species</i>	Crustacea	18	0.40	D
20	<i>Strombus urceus</i>	Mollusca	21	0.77	D
21	<i>Archaster typicus</i>	Echinodermata	1	0.09	D
22	<i>Ludia foliata</i>	Echinodermata	1	0.03	D
	<b>Total</b>		<b>407</b>	<b>51.07</b>	

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## List of Species Caught in Improved Net (4.5 inches mesh size)

### Cirebon

**Table 5.** List of species caught in the 4.5 inches net based on the observation in 2022-2023

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Cynoglossus lingua</i>		Fish	2	0.37	R
2	<i>Himantura walga</i>		Fish	14	4.08	R
3	<i>Arius sp.</i>		Fish	1	0.29	R
4	<i>Scomberoides tala</i>		Fish	1	0.18	R
5	<i>Homoioplx haswelli</i>		Crustacea	1	0.12	D
6	<i>Harpiosquilla harpax</i>		Crustacea	2	0.47	R
7	<i>Charybdis affinis</i>		Crustacea	3	0.05	D
8	<i>Podophthalmus vigil</i>		Crustacea	13	0.40	D
9	<i>Portunus sanguinolentus</i>		Crustacea	5	0.55	R
10	<i>Charybdis feriatus</i>		Crustacea	13	2.51	R
11	<i>Panulirus polyphagus</i>		Crustacea	20	0.11	D
12		<b>Udang Ronggeng Zebra</b>	Crustacea	1	0.13	R
13	<i>Sepia recurvirostra</i>		Mollusca	3	0.65	R
14	<i>Murex Trapa</i>		Mollusca	29	0.16	D
15	<i>Strombus canarium</i>		Mollusca	1	0.03	D
16	<i>Strombus ureus</i>		Mollusca	3	0.13	D
<b>Total</b>				<b>112</b>	<b>10.23</b>	

Note: \*) = Protected species based on the Regulation of The Minister of Environment and Forestry of The Republic of Indonesia No. 20 Year 2018 Concerning Type of Protected Plants and Animals.

ETP = Endangered, Threatened and Protected species

R = Retained species

D = Discarded species

### Rembang

**Table 6.** List of species caught in the 4.5 inches net based on the observation in 2022-2023

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Conger cinereus</i>		Fish	1	1.50	R
2	<i>Teraphon theraps</i>		Fish	1	0.10	R
3	<i>Cynoglossus lingua</i>		Fish	3	0.40	R
4	<i>Platycephalus indicus</i>		Fish	4	3.65	R
5	<i>Himantura walga</i>		Fish	21	7.70	R
6	<i>Hemiscyllium griseum</i>		Fish	4	4.50	R
7	<i>Pomadasys kaakan</i>		Fish	15	4.60	R
8	<i>Arius sp.</i>		Fish	11	3.75	R
9	<i>Lagocephalus lunaris</i>		Fish	1	0.20	D
10	<i>Epinephelus coioides</i>		Fish	2	1.75	R
11		<b>Ikan Tetet</b>	Fish	16	4.60	R
12	<i>Harpiosquilla harpax</i>		Crustacea	12	1.03	D
13	<i>Dardanus sp.</i>		Crustacea	1	0.02	D
14	<i>Podophthalmus vigil</i>		Crustacea	35	0.83	D
15	<i>Charybdis feriatus</i>		Crustacea	8	1.15	R

16	<i>Sepia recurvirostra</i>		Mollusca	39	12.85	R
17	<i>Murex trapa</i>		Mollusca	27	0.40	D
<b>Total</b>				<b>201</b>	<b>38.73</b>	

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ETP = Endangered, Threatened and Protected species

R = Retained species

D = Discarded species

**Table 7.** List of species caught in the 4.5 inches net based on the observation in 2024

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Himantura walga</i>		Fish	12	5.65	R
2	<i>Hemiscyllium griseum</i>		Fish	2	1.90	R
3	<i>Pomadasys kaakan</i>		Fish	3	1.40	R
4	<i>Arius sp.</i>		Fish	2	1.40	R
5	<i>Harpiosquilla harpax</i>		Crustacea	4	0.15	D
6	<i>Dardanus sp.</i>		Crustacea	3	0.09	D
7	<i>Podophthalmus vigil</i>		Crustacea	163	4.94	D
8	<i>Sepia recurvirostra</i>		Mollusca	2	1.20	R
9	<i>Natica sp.</i>		Mollusca	8	0.19	D
<b>Total</b>				<b>199</b>	<b>16.92</b>	

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ETP = Endangered, Threatened and Protected species

R = Retained species

D = Discarded species

## Lampung

**Table 8.** List of species caught in the 4.5 inches net based on the observation in 2024

No	Species	Common Name	Group	No of Catch	Weight (kg)	Status
1	<i>Cynoglossus lingua</i>		Fish	12	2.01	R
2	<i>Himantura walga</i>		Fish	26	5.46	R
3	<i>Choerodon monostigma</i>		Fish	1	0.05	R
4	<i>Taeniura lymma</i>		Fish	2	0.98	R
5	<i>Plethorhyncus picus</i>		Fish	2	0.50	R/D
6	<i>Eleutheronema tetradactylum</i>		Fish	1	0.15	R
7	<i>Pseudorhombus malayanus</i>		Fish	31	5.74	R
8	<i>Neotrygon kuhli</i>		Fish	6	2.11	R
9	<i>Scylla serrata</i>		Crustacea	1	0.44	R
10	<i>Harpiosquilla harpax</i>		Crustacea	1	0.05	R
11	<i>Charybdis natator</i>		Crustacea	134	16.58	R
12	<i>Thenus orientalis</i>		Crustacea	88	7.30	R
13	<i>Charybdis feriatius</i>		Crustacea	22	5.13	R/D
14	<i>Sepia recurvirostra</i>		Mollusca	4	1.51	R
15	<i>Octopus vulgaris</i>		Mollusca	3	0.25	R

16	<i>Melo melo</i>		Mollusca	3	1.20	R
17	<i>Strombus urceus</i>		Mollusca	15	0.55	R/D
18	<i>Archaster typicus</i>		Echinodermata	3	0.21	R/D
19	<i>Chilosyllium punctatus</i>		Fish	1	0.31	D
20	<i>Libinia sp.</i>		Crustacea	1	0.07	D
21		<b>Kepiting Batu</b>	Crustacea	1	0.06	D
<b>Total</b>				<b>358</b>	<b>50.64</b>	

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## Comparison of Non-Targeted Species from Common Gillnets and 4.5 inches Net

**Table 9.** Summary and comparison of non-targeted species catches

No	Description	Common Gillnets		4.5 inches Net		Difference (%)	
		2022-2023	2023-2024	2022-2023	2023-2024	2022-2023	2023-2024
Cirebon							
1	Total species (species)	19		16		-15.79	
2	Total number of NTS (ind)	415		112		-73.01	
3	Total weight (kg)	52.71		10.23		-80.59	
Rembang							
1	Total species (species)	24	14	17	9	-29.17	-35.71
2	Total number of NTS (ind)	395	160	201	199	-49.11	24.38
3	Total weight (kg)	97.17	29.71	38.73	16.92	-60.14	-43.05
Lampung							
1	Total species (species)		22		21		-4.55
2	Total number of NTS (ind)		407		358		-12.04
3	Total weight (kg)		51.07		50.64		-0.84