

## Surat Thani BSC Fishery Improvement Project

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### Milestone 11: Release evaluation (2021 update)

The Department of Fisheries in collaboration with local universities has implemented a project to assess the support of young BSC released into the wild on catches from fishing in the eastern region. This is a project supported by the Agricultural Research Development Agency (ARDA). The goals of the project are 1) to assess the amount of individual young BSC released during the year in the eastern region, and 2) to assess trends and changes of catch and catch per unit effort in BSC fishery. The project is carrying out in the Kung Kraben Bay, Chanthaburi Province by comparing of two areas: 1) the area with young BSC released continuously, and 2) another area. The results of the study will benefit to Thai BSC fishery improvement project in Surat Thani Province.

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### Submitted for 2020 Evaluation

Survey data for BSC catch rates in Surat Thani province in 2016-2019 from gill net and crab trap

**Table 1** Monthly catch rate of BSC (*Portunus pelagicus*) from gill net in Surat Thani province within 4 years (kg / 100 m net length)

Month/Year	2016	2017	2018	2019
January	0.029		0.048	0.276
February	0.141	0.049	0.442	0.106
March	0.287		0.289	0.157
April	0.216	0.245	0.631	0.180
May	0.330		0.194	0.236
June	0.286	0.369	0.191	0.248
July	0.186	0.444	0.585	0.379
August	0.217	0.112	0.38	0.298
September	0.181	0.214	0.196	0.442
October	2.22	0.407	0.318	0.249
November	0.235		0.260	0.427
December	0.077	0.106	0.076	0.238

<b>Total catch rate</b>	<b>0.231</b>	<b>0.223</b>	<b>0.289</b>	<b>0.335</b>
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**Table 2** Monthly catch rate of BSC (*Portunus pelagicus*) from crab trap in Surat Thani province within 4 years (kg / 10 traps)

<b>Month/Year</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>January</b>		0.140	0.120	0.175
<b>February</b>	0.226	0.091	0.080	0.150
<b>March</b>	0.16	0.213	0.090	0.108
<b>April</b>	0.224	0.137	0.090	0.113
<b>May</b>	0.125	0.412	0.150	0.183
<b>June</b>	0.223	0.169	0.250	0.275
<b>July</b>	0.276	0.25	0.200	0.293
<b>August</b>	0.298	0.361	0.200	0.136
<b>September</b>	0.222	0.21	0.170	0.210
<b>October</b>	0.264	0.256	0.260	0.467
<b>November</b>	0.194	0.218	0.370	
<b>December</b>	0.176	0.083	0.260	0.266
<b>Total catch rate</b>	<b>0.23</b>	<b>0.178</b>	<b>0.180</b>	<b>0.225</b>

Survey data for BSC catch rates in Chumpon, Surat Thani and Nakornsrihammarat from gill net and crab trap

**Table 3** Monthly catch rate of BSC (*Portunus pelagicus*) in Chumpon, Surat Thani and Nakornsrihammarat from gill net and crab trap in 2019

<b>Month/Year</b>	<b>Gill net (Kg./100100 m net length)</b>				<b>Crab trap (Kg./10 traps)</b>			
	<b>Cp</b>	<b>Srt</b>	<b>Nk</b>	<b>Total</b>	<b>Cp</b>	<b>Srt</b>	<b>Nk</b>	<b>Total</b>
January	0.38	0.28	-	0.31	0.26	0.17	-	0.19

February	0.28	0.08	-	0.10	0.17	-	-	0.17
March	0.33	0.16	-	0.16	0.20	0.11	-	0.14
April	0.24	0.18	0.08	0.15	0.08	0.11	-	0.11
May	0.29	0.23	0.05	0.23	0.16	0.18	-	0.18
June	0.14	0.28	0.20	0.22	0.25	0.27	-	0.27
July	0.54	0.34	-	0.38	0.25	0.29	-	0.26
August	0.33	0.30	0.42	0.33	0.13	-	-	0.13
September	0.22	0.44	0.12	0.26	0.30	0.21	-	0.21
October	0.41	0.25	0.16	0.28	0.67	0.47	-	0.52
November	0.50	0.43	-	0.43	-	-	-	-
December	0.55	0.24	-	0.48	0.13	0.27	-	0.26
<b>Total catch rate</b>	<b>0.34</b>	<b>0.30</b>	<b>0.15</b>	<b>0.29</b>	<b>0.24</b>	<b>0.22</b>	<b>-</b>	<b>0.23</b>

Remarks : Cp = Chumpon, Srt = Suratthani, Nk = Nakornsrihammarat