

Effect of Eyestalk-Ablation and Differences Salinity in Rearing Pond on Molting Speed of *Scylla serrata*

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Abstract	<p>Molting is a complex process that is influenced by several factor, one of the main factors known to regulate the process is the synthesis and secretion of the hormone ecdysteroids. The eyestalk-ablation process was carried out to obtain an increase in the speed of shelling (molting). This research aimed to obtain soft shell crabs quickly by manipulating the environment condition and ablation of the eye stalk to obtain soft shell crabs simultaneously in a fast time. Experiment with treatment as follows; post-molt without eyestalk ablation reared in salinity 20 ppt, post-molt without eyestalk ablation reared in salinity 7 ppt, post-molt with eyestalk ablation reared in salinity 20 ppt, post-molt with eyestalk ablation reared in salinity 7 ppt, intermolt without eyestalk ablation reared in salinity 20 ppt, intermolt without eyestalk ablation reared in salinity 7 ppt, intermolt with eyestalk ablation reared in salinity 20 ppt, intermolt with eyestalk ablation reared in salinity 7 ppt, respectively. Salinity was adjusted according to research needs by adding fresh water to achieve 7 ppt salinity and 20 ppt. Data on the time needed for molting each treatment was collected by direct observation every day. Data were analyzed using a t-test to distinguish two different treatments. The results show that the treatment of inter-molt crab with eyestalk-ablation reared at salinity 7ppt had the fastest average molting ability that was in 17 days (2.33 weeks) and the average time of late molting was post-molt crab without eyestalk-ablation which reared at salinity 7 ppt for 59 days (8.50 weeks). In this study, the inter-molt stage generally had a faster molting speed compared to the post-molt stage.</p>
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