

Photoperiod Differences Effect On The Growth Rate And Sand Lobster Moulting (*Panulirus homarus*)

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ABSTRACT

This research aims to know the effect of photoperiod on the growth rate of the sand lobster (*Panulirus homarus*). This research used a completely randomized design (CRD) with treatment P0= Control (10Bright:14Dark); P1=(13 Bright:11 Dark); P2=(11 Bright:13 Dark); P3=(24 Bright:0 Dark) and 3 replications. The parameters of this research include the specific growth rate, feed conversion, survival, the percentage of moulting and water quality. The results showed that the rate of growth of the seed lobster (P0: 2,084% / day, P1: 2.750% / day, P2: 1,899% / day, P3: 1.690% / day), the conversion value of feed produced is (P0: 3.92, P1 : 3.40 P2: 4:41, P3: 4.69), but the other parameters was highly significant (F count > F table 1%) as a percentage of molting treated (P0: 39.54%, P1: 47.33%, P2: 28.87%, P3: 32.48 %). Whereas the survival rate was not significantly (F count < Ftable 5%) with each outcome (P0: 83.33%, P1: 96.67%, P2: 86.67% and P3: 83.33%). Water quality such as temperature (28 ° C), pH (7.1), salinity (34 ppt) and DO (5.82 ppm) during the study showed that the condition of the water is still fit for use for the life of the sand lobster.

Keywords : Photoperiod, Lobster, Specific Growth Rate.

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