

**“PENGARUH SUSUNAN LIANG PERLINDUNGAN (*SHELTER*)
TERHADAP KELANGSUNGAN HIDUP dan PERTUMBUHAN LOBSTER
AIR TAWAR *RED CLAW* (*Cherax quadricarinatus*) PADA SISTEM
BUDIDAYA SECARA INTENSIF”**

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ABSTRAK

Liang perlindungan (*shelter*) berfungsi sebagai tempat berlindung lobster yang sedang *moulting*, dapat meminimalkan *mortalitas* lobster akibat sifat kanibal dan sensitive terhadap teritorialnya, serta meningkatkan jumlah lobster dalam budidaya intensif. Penelitian ini bertujuan untuk mengetahui susunan liang perlindungan (*shelter*) yang terbaik bagi kelangsungan hidup dan pertumbuhan lobster *red claw* (*Cherax quadricarinatus*). Ukuran 5-7 cm dengan berat 3-6 gram dalam kepadatan 50 ekor/m². Penelitian ini dilaksanakan di Pusat Studi Lingkungan Sanata Dharma selama 45 hari. Percobaan dirancang menurut *Split Plot Design* dengan 3 perlakuan yaitu: Kontrol (susunan liang 1 lantai), Perlakuan A (susunan liang 2 lantai), Perlakuan B (susunan liang 3 lantai). Pengamatan terhadap molting dan mortalitas dilakukan setiap hari dan pengukuran berat serta panjang tubuh dilakukan 5 hari sekali. Susunan Liang perlindungan mempengaruhi kelangsungan hidup lobster air tawar *red claw*. Liang perlindungan 2 lantai memberikan tingkat kelangsungan hidup 100%. Uji Anova khusus *Split Plot Design* pada penambahan bobot dan penambahan panjang menunjukkan tidak ada perbedaan secara signifikan dan ditunjukkan oleh F_{hitung} jauh lebih kecil dari pada F_{tabel} ((3,44;(0,5;df₁=2;df₂=24)).

Kata kunci : Susunan Liang Perlindungan, Kelangsungan Hidup, Pertumbuhan
red claw

**"INFLUENCE OF SHELTER FOR SURVIVAL AND GROWTH RED
WATER LOBSTER RED CLAW (*Cherax quadricarinatus*) ON
INTENSIVE CULTIVATION SYSTEM"**

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ABSTRACT

*The shelter serves as a moulting lobster shelter, minimizing lobster mortality due to its cannibal and territorial sensitivity, and increasing the number of lobsters in intensive cultivation. This study aims to find out the best shelter structure for survival and growth of red claw lobster (*Cherax quadricarinatus*). Size 5-7 cm with weight 3-6 grams in density 50 tail/m². The study was conducted at Sanata Dharma Environmental Studies Center for 45 days. The experiment was designed according to Split Plot Design with 3 treatments, namely: Control (1 floor), Treatment A (arrangement of 2nd floor), Treatment B (3-storey rectangular structure). Observations of molting and mortality were performed daily and measurements of body weight and length were performed every 5 days. The arrangement of shelter affects the survival of red claw freshwater lobster. 2-storey protective canals provide a 100% survival rate. Anova's special test of Split Plot Design in weight gain and length increase shows no significant difference and shown by F_{count} much smaller than F_{table} ((3.44; (0.5; $df_1 = 2$; $df_2 = 24$)).*

Keywords: Array of Shelter, Survival rate, Growth

red claw