ABSTRAK

Lobster pasir (*Panulirus homarus* Linnaeus, 1758) sebagai sumberdaya perikanan bernilai ekonomis tinggi sehingga menjadi target utama penangkapan. Karakteristik telur lobster merupakan aspek penting eksistensi dan kelimpahan lobster. Performa telur spiny lobster pasir sebagai spesies yang dominan hidup di perairan Pulau Jawa bagian selatan penting dilakukan sebagai referensi kualitas reproduksi lobster. Tujuan penelitian ini adalah menganalisis performa telur lobster pasir dikoleksi dari perairan Kabupaten Purworejo. Performa telur dengan menganalisis indikator warna telur secara visual, diameter diukur dengan mikrometer dan berat dengan menimbang telur dengan akurasi 0,1 g dan dilakukan pada Musim Kemarau Juli-September 2024. Hasil performa telur lobster pasir diperoleh warna telur oranye cerah, oranye gelap dan oranye kecokelatan. Diameter dan diameter rata-rata butir telur lobster pasir diperoleh antara 380 – 510 µm dan 451,2 µm/butir. Berat butir telur lobster dan berat rata-ratanya diperoleh antara 0,03 mg - 0,08 mg dan 0,0571 mg. Berat total dan berat rata-rata produksi telur lobster pasir diperoleh antara 6,5 gram - 28,3 gram dan 14,07 gram. Berdasarkan performa telur lobster pasir dari perairan Purworejo diketahui bahwa musim kemarau merupakan periode reproduksi lobster pasir. Penting untuk menentukan teknologi *survival rate* yang tinggi untuk upaya *restocking* sehingga kelimpahan stock tetap tinggi.

Kata kunci: *reproduksi, performa telur, lobster pasir, Purworejo*

ABSTRACT

Schallope spiny lobster (*Panulirus homarus* Linnaeus, 1758) as a fishery resource of high economic value and the lobster is the main target of capture by fishermens Research of the performance of the spiny lobster eggs is important as a reference for lobster reproductive quality. The purpose of this study was to determine the performance of schallope spiny lobster eggs (*P. homarus*, Linnaeus, 1758) from the Purworejo Regency. Eggs colour performance are identified visually, diameter of eggs are measured with a micrometer and weight by weighing eggs in the dry season of 2024. The results of schallope spiny lobster egg performance research of the lobster eggs colour were obtained bright orange, dark orange and brownish orange. The diameter of the lobster eggs were found between 380 - 510 µm and the average diameter of eggs were obtained 451.2 µm. grain^{-1}. The weight of one lobster egg was gotten between 0.03 mg – 0.08 mg and the average of egg weight were obtained 0.0571 mg. The total weight of egg production each lobster was obtained between 6.5 grams - 28.3 grams and the average weight of egg production per lobster was found 14.07 g. Based on the performance of the lobster eggs from Purworejo Regency waters during dry season is the reproductive period of the lobster. The existence of lobster resources in order to be accessible for long term access, it is important to technology to support the survival rate of larvae in nature to be high.

Keywords: *reproduction, egg performance, sand lobster, Purworejo*