ABSTRACT

ANALYSIS OF WATERS SUITABILITY IN RATAI BAY FOR CULTURING TIGER GROUPER (*Epinephelus fuscoguttatus*) USING FLOATING NET SYSTEM

By

Windi Pratiwi

Ratai bay is one of the area in Lampung Bay which has the potential for floating net system aquaculture. The region has started floating net system. One of the marine fish commodities which has important economic value is tiger grouper (*Epinephelus fuscogutattus*). The purpose of this study was to analyze the level of water suitability for culturing tiger grouper (*Epinephelus fuscoguttatus*) using floating net system in the waters of Ratai Bay based on the parameters of physics, chemistry and biology of sea water. The method was descriptive analytic with matching and scoring analysis. The results showed that the Ratai Bay had temperature of 29,7-30,7^{o}C, depth of 14-25 m, transparancy of 7-13 m , current speed of 10-27 cm/s, DO from 5.63 to 5.96 mg / l, pH of 8.04 -8.14, salinity of 30-32 ppt, nitrate 0.019 to 0.709 mg/l, phosphate of 0,01-0,162 mg / l and abundance of phytoplankton 14251-22669 cells/l. Those values have been qualified for marine culture activities. The results of the suitability analysis by the matching and scoring is 84% of total points earned on location 1,2, and 4, which means that the locations are quite appropriate (S2). While in location 3 the total points earned 91% which means very appropriate (S1).

Keywords: tiger grouper, suitability of waters, analysis matching and scoring