

Fatimatus Zehroh NPM 210351100033 Pengaruh Pemberian Pakan Pelet Ikan Berbahan Rumput Laut (*Eucheuma Spinosum*) Terhadap Pertumbuhan Dan Kandungan Proksimat Pada Ikan Lele Sangkuriang (*Clarias grapienus*). Di bawah bimbingan **Dr. Hafiludin, S.Pi., M.Si.**

ABSTRAK

Pemanfaatan rumput laut di bidang perikanan terutama dalam pembuatan pakan telah banyak diteliti. Adapun tujuan penelitian ini adalah untuk mengetahui pengaruh pemberian pakan berbahan tepung rumput laut (*Eucheuma spinosum*) terhadap pertumbuhan, kualitas air dan kandungan proksimat ikan lele sangkuriang (*Clarias grapienus*). Penelitian ini menggunakan statistika uji t-Independen yang digunakan untuk membandingkan dengan menggunakan dua sampel yaitu pakan komersial dan pakan alternatif (penambahan tepung rumput laut *Eucheuma spinosum*). Hasil penelitian menunjukkan Jenis pakan Alternatif (berbahan baku tepung rumput laut *Eucheuma spinosum*) dan pakan komersil berpengaruh terhadap pertumbuhan panjang dengan hasil uji t-Independen $\text{sig}(0,005) < 0,05$ dan berpengaruh terhadap pertumbuhan bobot dengan hasil uji t-Independen $\text{sig}(0,000) < 0,05$. Hasil panjang saat tebar 0,2 cm dan pada minggu ke-1 sampai 5 sebesar 3-4,8 cm sedangkan bobot pada saat tebar 0,2 g dan pada minggu ke-1 sampai 5 dengan rata-rata sebesar 0,2-0,6 g. Jenis pakan Alternatif (berbahan baku tepung rumput laut *Eucheuma spinosum*) dan pakan komersil tidak berpengaruh terhadap kualitas air pada kolam budidaya ikan lele sangkuriang (*Clarias grapienus*) (pH, suhu dan DO) pada saat pagi maupun sore, namun memiliki pengaruh terhadap pH sore dengan hasil sebesar $7,4 \pm 0,07$ karena faktor sisa metabolisme dan residu pakan. Jenis pakan Alternatif (berbahan baku tepung rumput laut *Eucheuma spinosum*) dan pakan komersil tidak berpengaruh terhadap kandungan proksimat (kadar abu, dan kadar air) daging ikan lele sangkuriang (*Clarias grapienus*) akan tetapi memiliki pengaruh terhadap kadar protein dengan hasil sebesar $9,0 \pm 0,66\%$ dan lemak sebesar $1,09 \pm 0,09\%$ dengan menggunakan uji t-independen.

Kata kunci: Budidaya, *Clarias grapienus*, *Eucheuma spinosum*, Pakan Alternatif

Fatimatus Zehroh NPM 210351100033 The Effect of Feeding Fish Pellets Made from Flour Seaweed (*Eucheuma spinosum*) on the growth and proximate content of Sangkuring catfish (*Clarias grapienus*). Under the guidance **Dr. Hafiludin, S.Pi., M.Si.**

ABSTRACT

The use of seaweed in aquaculture, especially in feed formulation, has been widely studied. The purpose of this study was to determine the effect of feeding seaweed meal (*Eucheuma spinosum*) on the growth, water quality, and proximate composition of Sangkuriang catfish (*Clarias gariepinus*). This study employed independent t-test analysis to compare two samples, namely commercial feed and alternative feed (addition of *Eucheuma spinosum* seaweed meal). The results of this study show that alternative feed (made from *Eucheuma spinosum* seaweed meal) and commercial feed affect the growth of catfish (*Clarias grapienus*) in terms of length and weight. The independent t-test results showed that the difference in length was significant ($\text{sig} = 0.005 < 0.05$) and the difference in weight was also significant ($\text{sig} = 0.000 < 0.05$). The initial length of the fish was 0.2 cm, and after 5 weeks, the length ranged from 3-4.8 cm. The initial weight was 0.2 g, and after 5 weeks, the weight ranged from 0.2-0.6 g. The results also show that the alternative feed and commercial feed did not affect the water quality parameters (pH, temperature, and dissolved oxygen) in the catfish pond during morning and afternoon measurements. However, the alternative feed and commercial feed affected the afternoon pH level, which was 7.4 ± 0.07 , due to metabolic waste and residual feed. Furthermore, the results show that the alternative feed and commercial feed did not affect the proximate composition (ash, and water) of the catfish flesh. However, the alternative feed and commercial feed affected the protein content, which was $9.0 \pm 0.66\%$, and the fat content, which was $1.09 \pm 0.09\%$, based on the independent t-test results.

Keywords: Cultivation, *Clarias grapienus*, Growth, *Eucheuma spinosum*, Alternative feed