

ABSTRAK

Meningkatnya harga pelet pabrik maka pemanfaatan bahan alami yang kaya akan nutrisi diharapkan dapat digunakan dalam pembuatan campuran pakan dengan pertimbangan murah, tersedia setiap saat, dan mudah diperoleh serta memiliki kandungan gizi yang baik agar dapat menekan mahalnya biaya pakan. Pembuatan pakan campuran tepung daun kelor (*Moringa oleifera* L) dan dedak padi bertujuan untuk melihat pengaruh pakan tersebut terhadap pertumbuhan ikan lele (*Clarias sp*), mengetahui variasi campuran yang terbaik, dan mengetahui hasil penelitian ini dapat digunakan sebagai sumber belajar biologi. Penelitian ini merupakan eksperimen, menggunakan Rancangan Acak Lengkap (RAL) dengan 1 kontrol, 3 perlakuan dan 6 ulangan, dengan P0: Kontrol, P1 : perlakuan pemberian pakan campuran tepung daun kelor dan dedak padi 2% , P2 : perlakuan pemberian pakan campuran tepung daun kelor dan dedak padi 3%, P3 : perlakuan pemberian pakan campuran tepung daun kelor dan dedak padi 4%, Berdasarkan hasil penelitian dapat disimpulkan bahwa terjadi kenaikan bobot mutlak dan panjang mutlak pada ikan lele, dengan hasil penelitian bobot mutlak rata-rata P0 = 19,72, P1 = 23,61, P2 = 33,33, P3 = 38,05 dan hasil panjang mutlak rata-rata P0 = 6,16, P1 = 7,11, P2 = 8,08, P3 = 10,14. Hasil penelitian ini dapat digunakan sebagai sumber belajar biologi berupa poster pada materi pertumbuhan dan perkembangan untuk SMA kelas XII. Hasil validasi sumber belajar oleh ahli materi dan desain disimpulkan bahwa Poster yang dibuat oleh peneliti layak digunakan sebagai sumber belajar dengan skor rata-rata ahli materi 94 dan desain 94.

Kata Kunci: Ikan Lele, Tepung Daun Kelor, Dedak Padi, Sumber Belajar.

ABSTRACT

As the price of pellet mills increases, the use of natural ingredients that are rich in nutrients is expected to be used in making feed mixes with low consideration, available at any time, easily available and has good nutritional content in order to reduce the high cost of feed. Making the mixture feeding of Moringa powder (*Moringa oleifera* L) and rice bran aims to see the effect of the feed on the catfish growth (*Clarias sp*), find out the best variation of the mixture, and know the results of this study can be used as a source of biology learning. This research is an experiment, using a Completely Randomized Design (CRD) with 1 control, 3 treatments and 6 replications, with P0: Control, P1: mixture feeding treatment of 2% Moringa leaf flour and rice bran, P2: mixture feeding treatment of 3% Moringa leaf flour and rice bran, P3: mixture feeding treatment of 4% Moringa leaf flour and rice bran. Based on the research result it can be concluded that there is an increase in absolute weight and absolute length in catfish, with the research result of the average absolute weight P0 = 19.72, P1 = 23.61, P2 = 33.33, P3 = 38.05 and the results of average absolute length P0 = 6.16, P1 = 7.11, P2 = 8.08, P3 = 10.14. The results of this study can be used as a source of learning biology in the form of posters on growth and development material for high school at XII grade. The results of the validation of learning resources by material and design experts concluded that the poster made by the researcher was appropriate to be used as a learning resource with an average score of material experts was 94 and design expert was 94.

Keywords: Catfish, Moringa Flour, Rice Bran, Learning Source.