

عنوان مقاله:

Alternative role of sesame seed replacing fish meal in the diet of rainbow trout (*Oncorhynchus mykiss*) fingerlings

محل انتشار:

مجله علوم شیلات ایران، دوره 13، شماره 3 (سال: 1393)

تعداد صفحات اصل مقاله: 13

نویسندگان:

H. Emadi

B. Mokhayer

M. Faal

خلاصه مقاله:

Rainbow trout is the most important species of cold water fishes in Iran and the feeding diets which improve the quality and growth of this fish are of great importance. Rainbow trout *Oncorhynchus mykiss* ($n=360$) specimens with approximate weight of 2 ± 0.02 g were fed with different concentrations of sesame seed in their diet instead of fish meal for 120 days. Feeding diets were prepared in 3 sesame seed concentration levels (10, 15, 20 percent compared with control (normal diet), completely random design was used for all triplicate experiments. The greatest rate of weight gain (74 ± 0.04 g.), length gain (18.5 ± 0.01 cm), specific growth rate (0.59), protein efficiency rate (2.55) and food conversion ratio (0.9) were obtained in treatment 3 (20% sesame seed). The lowest rate of weight gain (59 ± 0.04 g.), length gain (16.5 ± 0.01 cm), specific growth rate (0.46%), protein efficiency (1.72%) and food conversion ratio (1.3) was obtained in the control treatment. Results indicated presence of highly significant differences among the treatments ($p<0.01$). There was no significant difference between the composition of the carcasses of these fish fed with diet of 20 percent sesame and that of control treatment fish. These results demonstrated that sesame seed can be used as an alternative ingredient in its feeding diet instead of fish meal.

کلمات کلیدی:

Rainbow trout, Sesame seed, Alternative of fish meal

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1401997>

