



Iranian Fisheries Science Research Institute
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Mansour Torfi Mozanzadeh

Gave the following presentation as oral titled:

“The effects of fasting and re-feeding periods on growth performance and feed efficiency of Sobaity seabream (Sparidentex hasta) and yellowfin seabream (Acanthopagrus latus)”

co-authors: Shapour Mehrjooyan, Omid Safari, Rahim Oosooli, Mojtaba Zabayah Najafabadi, Seyed Javad Hoseini, Javad Monem, Hamid Saghavi

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The effects of fasting and re-feeding periods on growth performance and feed efficiency of Sobaiya seabream (*Sparidentex hasta*) and yellowfin seabream (*Acanthopagrus latus*)

Torfi Mozanzadeh M.^{1*}; Mehrjooyan Sh.¹; Safari O.²; Oosooli R.¹; Zabayah Najafabadi M.¹; Hoseini S.J.¹; Monem J.¹; Saghavi H.¹

¹South Iran Aquaculture Research Centre, Iranian Fisheries Science Institute (IFSRI), Agricultural Research Education and Extension organization (AREEO), Ahwaz, Iran

²Department of Fisheries, Faculty of Natural Resources and Environment, Ferdowsi University of Mashhad, Khorasan Razavi, Iran

*Corresponding author's email: mansour.torfi@gmail.com

Abstract:

The present study was conducted to evaluate the effects of fasting and re-feeding periods on growth and feed utilization of sobaiya seabream (initial weight = 10 g) and yellowfin seabream (initial weight = 4.3 g) for 8 weeks. In this regard four treatments was designed including: control (fed every day), T1 (fasted for 1 week and re-fed for 7 weeks), T2 (fasted for 2 weeks and re-fed for 6 weeks) and T3 (faste for 3 weeks and re-fed for 5 weeks). At the end of the trial, final weight of sobaiya seabream was not affected in different treatments. Fish in T3 had the highest specific growth rate (SGR) and the best feed conversion ratio (FCR) ($P < 0.05$). The lowest survival rate was observed in T3 group as a consequence of cannibalism. Regarding, yellowfin seabream, final weight of fish remarkably decreased with increasing fasting duration, thus fish in the control and T3 groups had the highest (13.4 g) and the lowest (10 g) final weights, respectively. Feed conversion ratio and specific growth rate did not changed in different groups. In both fish species fish in the control had the greater feed intake than the other treatment. The results showed that, sobaiya seabream had clear compensatory growth in response to fasting periods by increasing SGR and significant improvement of FCR, indicating this species demonstrate trajectory growth by increasing feed utilization. However, yellofin seabream did not show any compensatory growth in response to fasting and re-feeding periods. These findings can be applicable in management of feeding strategies during grow-out phase for both species.

Keywords: Sparidae, Compensatory growth, feed utilization, specific growth rate