

The Effect of Feeding Frequency on Growth and Biochemical Factors of Cultured Ship Juvenile Sturgeon (*Acipenser nudiventris*)

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Abstract

This study was carried out to determine the effect of feeding frequency on growth and biochemical factors of rearing juvenile ship sturgeon (*Acipenser nudiventris*). A 135 juvenile *Acipenser nudiventris* (85.57 ± 3.95 gr. average initial weight) were stocked in 9 fiberglass tanks by volume 500 lit (fifteen fish per tank in each treatment) and reared in open system. Fish were fed 3% body Weight per day by institute commercial diet once at 8:00 am and two times at 8:00 am and 20:00 and three times at 8:00 , 15:00 and 23:00 in eight weeks, respectively. Biometry were carried out in 28 days interval. The fish weight and length were recorded. Temperature and dissolve oxygen in water of each tanks was recorded daily. At the end of the rearing periods, any significant differences between the feed efficiency ratio (FCR), Specific growth rate (SGR), Weight gain (WG) and condition factor (CF) (P>0.05) were not observed, but the result showed albumin increase in treatment 3 and a Cholesterol increase in treatment 1 (P<0.05). Also, there were not significant differences in total protein, Glucose and triglyceride in fish serum (P>0.05). The result showed that growth factors of *Acipenser nudiventris* were independent of feeding frequency.

Keywords: Growth rates, Feeding frequency, *Acipenser nudiventris*, Food conversion ratio, Biochemical factors.
