

عنوان مقاله:

Effects of Stocking Density on Blood Cortisol, Glucose and Cholesterol Levels of Beluga juveniles (*Huso huso* Linnaeus, 1758) Cultured In tropical climate

محل انتشار:

کنفرانس بین المللی توسعه پایدار، راهکارها و چالش ها با محوریت کشاورزی، منابع طبیعی، محیط زیست و گردشگری (سال: 1393)

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خلاصه مقاله:

This study was conducted to investigate the influence of stocking density (1.5, 3, and 6 kg.m⁻²) on biochemical serum parameters including: Cortisol, Glucose and Cholesterol level of great sturgeon (*Huso huso*) juveniles in khuzestan province of Iran (Torrid Zone) for a period of 8 weeks. The mean weight of fish at the start of trial was 143±0.29gr (Mean±S.E). After 8 weeks of rearing, the mean weight was 527.27±6.82gr, 467.91± 18.81gr and 431.02±24.25gr (Mean±S.E) in densities 1.5, 3, and 6 kg.m⁻² respectively. For purposes biochemical of blood plasma, concentration of cortisol, glucose and Cholesterol serum at the start trial was 8.57±1.1ng.ml⁻¹, 70.12±3.6mg.dl⁻¹, 46±17.5mg.dl⁻¹(Mean±S.E) respectively. The results of this study showed that plasma Cortisol and glucose concentration were significantly difference between treatments-time, only in 30th day of rearing at treatment 3kg.m⁻²(P<0.05), but in 60th day had no significant difference among treatments-time (P>0.05). Cholesterol serum level has significant difference at density1.5kg.m⁻²in 30th and 60th day of rearing as compared to densities 3and6kg.m⁻²(P<0.05), but in densities 3and6kg.m⁻²Cholesterol concentration had no significant difference among treatments-time (P>0.05). Our results showed that rearing density has not a major effect on the growth, biochemical parameters of (*H. huso*).Unlike many other fish, great sturgeon exhibited lower stress responses to high stocking density. There is cortisol concentration the .best index in relationship with physiological condition of species cultured and appointment stocking density

کلمات کلیدی:

great sturgeon (*Huso huso*), stress, biochemical parameters, stocking density, cortisol

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