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عنوان مقاله:

Osmoregulatory capabilities of Zander (Sander lucioperca) fingerlings in different salinities of the Caspian Sea

محل انتشار:

مجله علوم شيلات ايران, دوره 13, شماره 2 (سال: 1393)

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خلاصه مقاله:

Osmoregulation capabilities of two size groups (1 and Yg) of zander, Sander lucioperca, fingerlings were investigated survival rate, plasma osmolarity, sodium (Na+), chloride (Cl-) ion concentrations and cortisol level within •, ۶, ۲۴, ۷۲ and YFo h after abrupt transfer from freshwater to Y and YY% salinity. Also, some hematological parameters were measured at YFoh. The plasma osmolarity and ion concentrations (Na+, Cl-) increased immediately after the transference to Y and 11% salinity, reaching maximum at YYh in 1g and at YF h in Yg fingerlings, and significantly decreased at YFo h, while the freshwater control group maintained almost constant during to days which showed lower than the salinity groups. The pattern of cortisol level changes was similar in two size groups after exposure to different salinities and it reflected stress of handling. There were no significant differences between hematological values of two salinity treatment groups than the freshwater control at YFoh. The result showed, not only Yg zander fingerlings acted better than ig in faced with salinity but also the fingerlings weighing ig could survived and tolerate Caspian Sea water salinity up to ۱۲%.. It is suggested that the release of zander weighing from 1g would help to restocking management of .this species in the southern Caspian Sea

كلمات كليدي:

Sander lucioperca, size, salinity, Caspian Sea, osmoregulation, cortisol

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