

Aclimatación en cautiverio del sargo Archosargus probatocephalus (Perciformes: Sparidae) [

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text (article)

Analítica

The sheepshead (Archosargus probatocephalus) is a priority species for mariculture development in southeastern México. The objective of the study was to reproduce in captivity two sheepshead batches, one in captivity for 12 months and another of wild breeders. The batch in captivity was formed by 36 organisms, in a water recirculation system with salinity of 10 psu, with the increase in their length and weight determined each month; in addition, sexual maturity was promoted by gradually increasing the salinity of the system up to 35 psu, after which spawning was induced with an intramuscular injection of 500 UI kg-1 of chorionic and serum gonadotropin hormone. On the other hand, 15 wild breeders were collected from the Alvarado Veracruz lagoon, inducing them to spawn in the same way. The average increase in length of the organisms conditioned to captivity was 0.064 " 0.02 cm d-1 with average weight of 1.97 " 0.4 g d-1, sexually maturing in the month of January. Both batches spawned; the eggs obtained had an average diameter of 817.3 " 20.9 µm, average yolk sac volume of 243 " 11 µL, average oil drop diameter of 203.5 " 16.5 and average notochordal length of the eleuteroembryos of 1.65 " 0.25 mm. It is possible to achieve maturation of the sheepshead in captivity, as well as obtain quality larvae from the induction of breeders in captivity and wild ones in the reproductive season

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