



## **Live gene bank of the wild common carp (*Cyprinus carpio*.L. 1758) originated form the Caspian Sea.**

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### **Abstract**

This research was carried out on Bony fish live Gene Bank of the Caspian Sea in Iran to investigate some Reproductive characteristics of wild common carp (*Cyprinus carpio* L. 1758) in 2019. Wild common carp is one of the 25 commercial important species whose stock is decreasing. The live gene bank is the main procedure to preserve genetic diversity and restore natural stocks. This wild common carp Gene Bank performed with 70 broodstocks collected form south east coast of the Caspian Sea. The mean length and weight of males were  $44.79 \pm 2$  and  $1146 \pm 151.62$  cm (No. 29) and female were  $44.87 \pm 2.4$  and  $1152.25 \pm 235.14$  gr (No. 41) respectively. Artificial Propagation was done in order to mass production of larvae for releasing and restocking into the Caspian Sea ended rivers and also to create next generation of broodstocks. The results showed that the relative Fecundity was  $104795.6 \pm 49663.32$ / kg and working fecundity was  $128981.5 \pm 84102$ . Total fertilized eggs number was 1268400 originated from 11 females. The larvae production was 729800 specimens. Mean age of males were  $7.16 \pm 0.75$  and females were  $9.5 \pm 0.67$  years old, respectively. The egg numbers per gram was  $783 \pm 52$ . The fertilization rate was  $91 \pm 4$  % and hatching rates was  $58 \pm 7.23$ . Some of the juveniles rearing to brood stocking.

**Keywords:** live gene bank, wild common carp, Caspian Sea.