ABSTRACT

FERTILIZATION AND HATCHING RATE
OF COMMON CARP EGG (Cyprinus carpio, L.) IN SEVERAL
CONCENTRATION OF FRUCTOSE

By:

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Common carp is fish widely cultivated because has fast growth rate. Problem which often encountered by cultivator of the freshwater fish are the low degree of spermatozoa fertilization in the water and lack of availability liquid spermatozoa’s in the artificial insemination. One effort to increase spermatozoa motility is addition physiological solution as fructose. The purposes of this research are to find effect of the concentration of fructose on fertilization and hatching. The research method used Complete Randomized Design (CRD) with 4 treatments (0%, 1.75%, 2.1%, and 2.45%) and 3 replication. This research was conducted at BBPBAT Sukabumi in February 2012. The research showed that fructose didn’t give significantly difference of degree and hatching rate. The concentration of 1.75 % fructose gave highest hatching rate (27.90%).

Keywords: Common Carp (Cyprinus carpio, L.), egg, fructose, the degree of fertilization, the degree of hatching.