

**INFLUENCE OF "GONAL-F" PREPARATION ON THE REPRODUCTIVE
SYSTEM OF THE FROZEN OZENYOY (*PELOPHYLLAX RIDIBUNDUS*) AND
CARASHI SILVER (*CARASSIUS GIBELIO*)**

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The intensity of development of fishing industry in the modern world demands acceleration of process of maturing of reproductive system of fishes and obtaining larger

quantity of sexual products what to become possible thanks to innovative achievements in the field of biology and pharmacology.

Manifesting of fishes and amphibians is regulated by the hypothalamo - hypophyseal and gonadal neuroendocrine system. As a rule, medicines which influence the hypothalamo-hypophyseal-gonadal system are hormonal. The effect caused by hormonal medicines at fishes and Amphibia directly depends on an injected dose. Slight deviations in a necessary dose of medicine can cause an imbalance in the hypothalamo-hypophyseal-gonadal system with loss of ability to realization of reproductive function, to synthesis of sexual products and even to death of an organism. Therefore a task is searching of efficient and safe medicine today. As such hormonal medicine in the presented research Gonal-F – recombinant follicle-stimulating hormone is offered.

In fish breeding estimate effectiveness of hormones by their opportunity to cause a spermatogenesis in males of a lake frog of *Pelophylax ridibundus* [3]. In the real work the possibility of this medicine to stimulate maturing of sexual products at males of a frog of lake (*Pelophylax ridibundus*), at males and females of a crucian of silver (*Carassius gibelio*), its effectiveness, safety and also possible consequences of overdose with medicine was checked.

It was found out that Gonal-F renders effect on the reproductive system of amphibians. Reaction of a spermatogenesis in response to medicine introduction to males of a frog of lake (*Pelophylax ridibundus*) is noted. Reacted with existence of positive signs of maturing of gonads individuals of a crucian of silver (*Carassius gibelio*). 55 % of the injected crucians positively responded to effect of medicine. It was noted that Gonal-F stimulates maturing of gonads at males and females with identical effectiveness. At the same time medicine has the weak physiological effect. It is established that excess of a dose did not lead to emergence of the current and remote secondary consequences, including death of individuals.

Keywords: aquaculture, Gonal-F, hormonal stimulation, sex products.

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