



Biological characteristics of crucian by quantitative inspection method

mengqi chu

China (chumengqiayts@126.com)

Biological characteristics of crucian by quantitative inspection method

Through quantitative inspection method, the biological characteristics of crucian were preliminarily researched. Crucian, belonging to Cypriniformes, Cyprinidae, *Carassius auratus*, is a kind of main plant-eating omnivorous fish, like gregarious, selection and ranking. Crucian are widely distributed, perennial water all over the country all have production.

Determine the indicators of crucian in the experiment, to understand the growth, reproduction situation of crucian in this area. Using the measured data (such as the scale length, scale size and wheel diameter and so on) and related functional to calculate growth of crucian in any one year. According to the egg shape, color, weight, etc to determine its maturity, with the mean egg diameter per 20 eggs and the number of eggs per 0.5 grams, to calculate the relative and absolute fecundity of the fish. Measured crucian were female puberty. Based on the relation between the scale diameter and length and the information, linear relationship between crucian scale diameter and length: $y=1.530+3.0649x$. From the data, the fertility and is closely relative to the increase of age. The older, the more mature gonad development. The more amount of eggs. In addition, absolute fecundity increases with the pituitary gland. Through quantitative check crucian bait food intake by the object, reveals the main food, secondary foods, and chance food of crucian, and understand that crucian degree of be fond of of all kinds of bait organisms. Fish fertility with weight gain, it has the characteristics of species and populations, and at the same time influenced by the age of the individual, body length, body weight, environmental conditions (especially the nutrition conditions), and breeding habits, spawning times factors and the size of the egg. After a series of studies of crucian biological character, provide the ecological basis for local crucian's feeding, breeding, proliferation, fishing, resources protection and management of specific plans.