

EFFECT OF STOCKING DENSITY ON GROWTH OF MAJOR CARPS-CATLA (*CATLA CATLA*), ROHU (*LABEO ROHITA*), AND MRIGAL (*CIRRHINUS MRIGALA*) IN AQUACULTURE POND.

RAM KRISHAN¹, ABDUL HAI¹, MURLIDHAR² AND ASHOK KUMAR²,

¹Department of Zoology, S.P.College, Srinagar (Jammu and Kashmir).

²Department of Zoology, Annamalai University Tamilnadu.

ABSTRACT

A study on major carps–Catla (*Catla catla*), Rohu (*Labeo rohita*) and Mrigal (*Cirrhinus mrigala*) was carried out for the effect of stocking density on their growth. The measurement of growth parameters such as - total length (cm), standard length (cm), body depth (cm) and body mass (gm) of the major carps –*Catla catla*, *Labeo rohita*, *cirrhinus mrigala* was recorded. During the period under study, the growth rate of the above fishes under different stocking densities of fingerlings 2000/acre and 4000/acre was also recorded. In the period under study, one pond was equally divided longitudinally by a partition net (mesh net, hole size 1 mm) supported by the bamboo poles piled vertically all along the trench line into two halves- one for stocking density of fingerlings 2000/acre and other half for stocking density of fingerlings 4000/acre and was named as Normal Stocking Density Portion (NSDP) and More Stocking Density Portion (MSDP).

Key words- Catla catla, Labeo rohita, Cirrhinus mrigala, stocking density, growth rate.

REFERENCES

- Alikunhi, K.L. (1957). Fish culture in India. *Fm. Bull. Indian Coun. Agri. Res.* 20:144p.
- Das, B.C., (1967). Effects of micronutrients on the survival and growth of Indian carp fry. *FAO Fish Rep.* (44) 3: 241-256.
- Das, S.M. and S.K. Moitra (1958). Studies on the food of some common fishes of Uttar Pradesh, India 1. the surface feeder, the mid-feeder and the bottom feeders *Proc. Nat. Acad. Sci. India.*, 25 B(1-2): 1-6.
- Hora, Jena, J.K., Aravindakshan, P.K. Suresh Chandra, H.K. Muduli and S. Ayyappan (1998). Comparative evaluation of growth and survival of Indian Major carps and Exotic carps in Raising fingerlings. *J.Aqua.Trop.*, 13(2): 143,150.
- Jhingran, V. G. and R.S.V. Pullin (1988). A hatcher manual for the common Chinese and Indian major carps. *Asian Development Bank and International centre for living aquatic resources management manila.* 191PP.
- Sharma, J.G. and Chakrabarti, R. 2003, Role of stocking density on growth and survival of *catla catla* *Labeo rohita*, larvae and water quality in a recirculating system *Journal of Applied Aquaculture* 14:171-178.

Sharma, J.G, Kumar S. and Chakrabarti,R.2004. Optimization of stocking of *Labeo rohita* and *Cirrhins mrigala* spawn in relation to water quality, survival and growth under recirculating system. *Indian Journal of Animal Sciences*.74:686-689.