EFFECT OF TEMPERATURE ON TOXICITY OF PESTICIDES TO CARP GROUP OF FISHES

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ABSTRACT:- The carp group of fishes, consisting of Cirrhinus mrigala, Catla catla and Labeo rohita were exposed to Profenofos (an organophosphate pesticide) and Alpha-cypermethrin (an organochlorinated pesticide) at two different temperatures, i.e. 21°C ± 2°C and 32°C ± 2°C. The TL₉₀ for 24, 48, 72 and 96h to both the pesticides have been investigated by toxicity trials using static bioassay at both the temperatures. The TL₉₀ for carps to Profenofos and Alpha-cypermethrin were found to be decreased with increase in temperature at all the intervals of time. Hence the toxicity of both the pesticides to the fishes increased with increase in temperature.

Key words : Toxicity, carps, TL₉₀, temperature.