

Ecological Effects of Thermal Discharges, T.E.L. Langford, Elsevier Applied Sciences, New York City, 1990

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1974; Marcy 1976a; Langford *et al.* 1979; Larimore *et al.* 1979a; Iaimage and Opresko 1981).

Using acoustic techniques, Spigarelli (1975) showed that the densities of alewives (*A. pseudoharengus*) and smelt (*Osmerus mordax*), were not affected by thermal discharges in Lake Michigan either during operation or shut-down periods. Aggregations which took place before and during spawning were most likely a response to water currents. Later studies (Kelso and Minns 1975; Minns *et al.* 1978; Spigarelli and Thommes 1979; Spigarelli *et al.* 1982) confirmed that these currents and the topography of the lake bed were the most important influences on fish distribution. This strong rheotropic response was believed to be the cause of fish swimming into

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Enhanced growth rates have also been reported for bluegills (*Lepomis macrochirus*) (Serns and Strawn 1975) in Texas reservoirs, largemouth bass (*M. salmoides*) from other US reservoirs (Larimore *et al.* 1979a,b; Perry and Tranquilli 1984), breams and other species in Eastern European lakes (see Alabaster and Lloyd 1980). At the Konakovo power station, bream (*A. brama orientalis*) grew faster in the heated waters until temperatures exceeded 28°C when the rate slowed considerably (Sappo 1976). Similarly, growth rates of bream over 2 years old slowed down from an enhanced rate in the heated Konin Lakes (Marciak 1977) though the reasons were not clear. In several locations the larger size attained by fish within given times

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