

**SOME EFFECTS OF THERMAL EFFLUENTS ON  
THE SECONDARY PRODUCTIVITY OF BENTHIC  
MACROINVERTEBRATES OF FAIRFIELD RESERVOIR**

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A study of the littoral benthic macroinvertebrate community was undertaken on Fairfield Reservoir, Texas, to determine some of the effects thermal effluents from a steam electric generating station have on the secondary productivity of the benthic community. Benthic samples were collected monthly from June, 1976 through May, 1977 at five stations using an Ekman dredge and Hester-Dendy multiple plate hardboard samplers. Differential counts and drained wet-weight biomass were determined for all samples.

Thermal effluents adversely effected productivity, standing crop, density, and diversity during the summer months. Cessation of the thermal discharge during the winter months adversely effected productivity.

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