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Seasonal Variations of Phytoplankton Blooms in Suat Ugurlu (Samsun - Turkey)

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Abstract: The seasonal variations in phytoplankton blooms in Suat Uğurlu Reservoir were studied between July 1992 and December 1993. In certain months, the species *Asterionella formosa* Hassal, *Cyclotella planctonica* Brunthaler, *Melosira granulata* (Ehr.) Ralfs (Bacillariophyta); *Pediastrum simplex* Meyen, *Pandorina morum* Borry (Chlorophyta) and *Ceratium hirundinella* (O F. Müller) Schrank (Dinophyta) produced blooms in the lake. During the study period, the measured N/P ratio in the water varied from 10.3 mg/lit to 62.5. In accordance with these variations, *P. simplex*, *P. morum* and *C. hirundinella*, which consume high levels of phosphate, produced blooms in summer, whereas the blooms in winter were produced by *A. formosa*, *C. planctonica* and *M. granulata*, which consume more nitrate than phosphate.

Key Words: Phytoplankton, Seasonal Variation, Bloom, Dam Lake.

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