Based on the otolith's readings of 678 specimens collected during the fishing season 1997/1998, age, growth, mortality and yield per recruit of Rastrelliger kanagurta from the Gulf of Suez were studied. Age composition does not varied between the two sexes. The oldest males and females were four years old. The values of the von Bertalanffy growth parameters were $K = 0.66$/year and $L_{\infty} = 29.48$ cm for males and $K = 0.60$/year and $L_{\infty} = 32.04$ cm for females. The mean total mortality coefficient "Z" estimated by two different methods was $1.12$/year for males and $1.00$/year for females. The natural mortality coefficient "M" was found to be $0.26$/year for males and $0.25$/year for females. Yield per recruit was estimated using the model of Beverton and Holt. It shows that the present level of fishing mortality ($F = 0.82$) is much higher than that which gives the maximum yield per recruit.