1067-39-445   **Ziyad AlSharawi*** (`alsha1zm@alsharawi.info`), Department of Mathematics & Statistics, Sultan Qaboos University, PC 123 Al-Khoud, Muscat, Oman, and **R. Abu-Saris** and **M. Rhouma**. *The dynamics of Pielou's equation under the effect of harvesting.* Preliminary report.

In this talk, we discuss the dynamics of Pielou's equation $x_{n+1} = \frac{K\mu x_n}{K+(\mu-1)x_{n-t}} - h(x_n, \ldots, x_{n-t})$.

When $t = 0$, we obtain the Beverton-Holt model, and some results concerning periodic harvesting in periodically fluctuating environment will be given. When $t = 1$, we discuss some characteristics of persistent solutions and the persistent set, particularly when $h(x_n, \ldots, x_{n-t})$ is constant or proportional to x_n, x_{n-1}. Also, some comparison between the various scenarios will be given. (Received September 03, 2010)

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