1035-92-1621 **Saber Elaydi** and **Robert J Sacker*** (rsacker@usc.edu), Mathematics Department, 3620 S. Vermont Ave., KAP 108, Los Angeles, CA 90089-2532. *Population Models with Allee Effect: A New Model.*

We discuss several Difference Equation models that exhibit the Allee effect. In a time independent environment certain models account for a non-zero repelling positive stationary state A called the Allee point, and a larger attracting stationary population level K, the carrying capacity. Populations starting out below the Allee point are driven to extinction while those starting out above are attracted to K.

For certain population models describing a periodically varying environment we explore conditions guaranteeing the existence of an "Allee" periodic state P_A and an attracting periodic state P_K. We introduce a new model that exhibits the Allee effect. (Received September 20, 2007)