1067-39-1617 **Tamara Yevgenia Awerbuch*** (tamara@hsph.harvard.edu), Dept. of Population and International Health, 655 Huntington Ave, Boston, MA 02115, **Richard Levins** (humaneco@hsph.harvard.edu), Depart. of Population and International Healt, 655 Huntington Ave, Boston, MA 02115, **Michael A Radin** (michael.radin@rit.edu), School of Mathematical Sciences, 85 Lomb Memorial Drive, Rochester, NY 14623, **Candace M Kent** (cmkent@vcu.edu), Richmond, VA , and **Vlajko Kocic** (vkocic@xula.edu), New Orleans, LA. *Applications of System of Logistic Difference Equations in agriculture.*

We will investigate the following system of Logistic Difference Equations:

Xn+1 = r1yn(1-yn) Yn+1=r2xn (1-xn)

where, 0 <r1,r2 <4; in particular, the convergence nature, the periodic nature and the chaotic nature of solutions. In addition, we will discuss the origin of it in applications in agriculture. We will also illustrate some computer simulations. (Received September 21, 2010)