1056-00-1928 Julius Heim* (jshxvd@mst.edu), Deptartment of Mathematics and Statistics, 400 West 12th Street, Rolla, MO 65409-0020, and Martin Bohner (bohner@mst.edu), Deptartment of Mathematics and Statistics, 400 West 12th Street, Rolla, MO 65409-0020. Linear and nonlinear cobweb models on time scales.

In this work we discuss cobweb models on time scales. In particular we present a linear cobweb model described by a linear first-order dynamic equation that we later extend in the sense that we additionally consider the concept of normal prices. Furthermore we derive a second-order linear dynamic equation which represents a cobweb model and finally we take a nonlinear cobweb model into consideration. For all models we establish stability criteria and give examples for particular time scales. (Received September 22, 2009)