

Business Cycle Downturn Likelihood Estimation for Ciudad Juarez:
1990 - 2021

Tom Fullerton and Steven L. Fullerton

Department of Economics & Finance, UTEP

tomf@utep.edu;slfullerton@utep.edu

A monthly frequency metropolitan business cycle downturn likelihood equation is estimated for Ciudad Juarez. The binary index of economic conditions is based upon monthly IMMEX export oriented manufacturing employment. A dynamic probit methodology is used for parameter estimation. Continuous explanatory variables include a 1-year minus 1-month Mexico interest rate spread, a 2015 = 100 real exchange rate index, and a 10-year minus 3-month USA interest rate spread. In-sample estimation results confirm many of the null hypotheses tested. Out-of-sample simulation outcomes are less favorable with the results indicating that the post-2010 business cycle dates require additional refinement.