

Tasks

1. Create summary statistics tables of the variables: Establishment Entry Rate, Establishment Exit Rate, Net Job Creation Rate, Annual Payroll, Number of Establishment by Number of Employees-size buckets (refer to CBP documentation for more information) for the following samples using county-level data:
 - (a) For the overall sample restricted to 2003-2006
 - (b) Restricting to Louisiana, for each year separately in the 2003-2006 period
2. Create spatial heatmaps geographically representing Establishment Exit Rates by county (a.k.a. parish) in Louisiana for 2004 and 2006.
3. Restrict the sample to Louisiana and analyze the impact of Hurricane Katrina (taking 2006 as the “post-event”) on its coastal counties (also known as parishes in Louisiana) through the following parameters using county-level data:

- (a) Establishment Exit Rates (BDS)
- (b) Growth in Annual Payroll (ap) per Employee (emp) ratio (CBP)

You may use appropriate econometric methods to distinguish trends in coastal counties from non-coastal counties. Create regression tables and, optionally, graphs describing the results.

Note: For simplicity: A coastal county is a county which touches the sea. There is no minimum required threshold for the coastline. You may need to use the reference map in the appendix to identify them.

4. Show the heterogeneity of impact on coastal counties by sector on Establishment Exit Rates using BDS County-Sector level data. Run the analysis in (3) sub-sampling to each sector and present the results by sector succinctly either using a coefficient plot or a regression table.
5. Merge the two county-industry level datasets using appropriate adjustments to NAICS-Sector concordance. Report what does not merge and why.

Create graphs describing the correlation of Annual Payroll per Employee ratio and Establishment Exit Rates before and after the hurricane in the Construction sector.

6. Summarize your findings in about 100 words. What are the possible issues and limitations of the analyses mentioned in task (3)? How can they be improved?

Appendix

