



## *Plant Closings and the Labor Market Outcomes of Displaced Workers: Evidence from Mexico*

*Second Submission: RR\_MEX\_2023\_10*

*Luis Eduardo San Martin*

*reproducibility@worldbank.org*

*April 05, 2024*

This review verifies the reproducibility of the exhibits included in the paper “*Plant Closings and the Labor Market Outcomes of Displaced Workers: Evidence from Mexico*”.

### **Contents in this review:**

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

### *Main findings*

- The code was successfully executed on a new computer after:
  1. Changing the working directory in the do-file *README\_Master\_ALL.do*
  2. Replacing the use of absolute paths with relative paths in all do-files
  3. Correcting the local path\_results to results in line 228 of do-file *Table\_1to3.do*
  4. Installing the packages outreg2, parmest, nsplit
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 3 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on February 08, 2024.
- Every exhibit has been reproduced accurately.
- **Reproducibility Summary:**
  - **Data:** All data sources are publicly available and included in the package.
  - **Code:** All code files, from cleaning to analysis, are included in the package.
  - **Outputs:** Some outputs are not generated by code and are created manually in Excel, but instructions for producing these outputs are included in the README
  - **Reproducibility verification:** Reviewers had access to the same materials in the public package.

### *List of exhibits and reproducibility status*

- **Table 1** Reproduced. The exhibit was compared against the console output saved in *Stats\_pc.smcl*
- **Table 2** Reproduced. The exhibit was compared against the console output saved in *Stats\_pc.smcl*
- **Table 3** Reproduced. The exhibit was compared against the console output saved in *Stats\_pc.smcl*
- **Table 4** Reproduced. The exhibit was compared against columns 1-4 of *regb\_0518.xls*
- **Figure 1** Reproduced. The exhibit was compared against column 1 of *regl\_closing\_ci.xls*
- **Figure 2** Reproduced. The exhibit was compared against column 2 of *regl\_closing\_ci.xls*
- **Figure 3** Reproduced. The exhibit was compared against column 3 of *regl\_closing\_ci.xls*
- **Figure 4** Reproduced. The exhibit was compared against column 1 of *regl\_quit\_ci.xls*
- **Figure 5** Reproduced. The exhibit was compared against column 2 of *regl\_quit\_ci.xls*
- **Figure 6** Reproduced. The exhibit was compared against column 3 of *regl\_quit\_ci.xls*
- **Figure 7** Reproduced. The exhibit was compared against column 1 of *regl\_cob\_ci.xls*
- **Figure 8** Reproduced. The exhibit was compared against column 2 of *regl\_cob\_ci.xls*
- **Figure 9** Reproduced. The exhibit was compared against column 3 of *regl\_cob\_ci.xls*
- **Figure 10** Does not apply: the figure was created manually using statistics reported by external sources
- **Figure 11** Does not apply: the figure was created manually using statistics reported by external sources
- **Table 5** Reproduced. The exhibit was compared against rows 5-12 of *reged\_0518.xls*
- **Figure 11 (enumeration is repeated in the paper)** Reproduced. The exhibit was compared against columns 3 and 4 of *regl\_het\_ci.xls*
- **Figure 12** Reproduced. The exhibit was compared against columns 5 and 6 of *regl\_het\_ci.xls*
- **Figure 13** Reproduced. The exhibit was compared against columns 7 and 8 of *regl\_het\_ci.xls*
- **Figure 14** Reproduced. The exhibit was compared against columns 1 and 2 of *regl\_het\_ci.xls*
- **Table 6** Reproduced. The exhibit was compared against rows 15-24 of *weibull\_coef.xls* and rows 17-26 of *weibull\_hr.xls*
- **Figure 15a** Reproduced. The exhibit was compared against *weibull\_male.png*
- **Figure 15b** Reproduced. The exhibit was compared against *weibull\_female.gph*
- **Table 7** Reproduced. The exhibit was compared against rows 15-16, 19-24, and 137-138 of *weibull\_coef.xls* and rows 17-18, 21-26, and 141-142 of *weibull\_hr.xls*

- **Figure 16a** Reproduced. The exhibit was compared against *weibull\_primary.png*
- **Figure 16b** Reproduced. The exhibit was compared against *weibull\_tertiary.png*
- **Table 8** Reproduced. The exhibits was compared row *closing* and columns 1-15 of *DID\_t8.xls*
- **Figure 17** Reproduced. The exhibit was compared against the numbers in columns B, G, and H of *fe\_industry.xls*

#### Results in the Annex

- **Table A1** Reproduced. The exhibit was compared against columns 5-7 of *regb\_0518.xls*
- **Table A2** Reproduced. The exhibit was compared against columns 9-11 of *regb\_0518.xls*

#### *Reproduction Environment*

- Paper exhibits were reproduced in a computer with the following specifications:
  - OS: Windows 10 Enterprise, version 21H2
  - Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.9GHz
  - Memory available: 128 GB
  - Software version: StataMP 18