



Productivity Gap Between Women- and Men-run Private Hotels in Georgia: A DEA Based Meta Frontier Analysis

First Submission: RR_GEO_2025_507

Ceren Huryol

reproducibility@worldbank.org

December 19, 2025

This review verifies the reproducibility of the exhibits included in the paper “*Productivity Gap Between Women- and Men-run Private Hotels in Georgia: A DEA Based Meta Frontier Analysis*”.

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
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Main findings

- **Every exhibit in the main section of the paper and exhibits in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Obtaining the raw data and placing it in the "Hotels" folder.
 2. Installing teradial, teradialbc, kdens, moremata and xml_tab commands from web packages.
 3. Adding additional ado files.
 4. Changing the paths as indicated on README.
 5. Running Eff_4-17-2025.do and Results_replication.do sequentially.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 1.5 hours to run. (Table A7 alone takes about 1 hr and 15 minutes.)
- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package on November 28th.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 1 type of data: limited-access (available on request).
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.

- **Reproducibility Summary:**

- **Data:** Data sources are limited access and not included in the reproducibility package. However, intermediate datasets are provided to enable replication of the reported outputs.
- **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
- **Outputs:** Outputs are not included in the reproducibility package.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Reproduced.
- **Figure 2a** Results reproduced, but table or figure includes manual changes from code output
- **Figure 2b** Results reproduced, but table or figure includes manual changes from code output
- **Figure 2c** Results reproduced, but table or figure includes manual changes from code output
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Table 7** Reproduced.

Results in the Annex

- **Table A1** Does not apply. Table does not represent analysis results.
- **Table A2** Reproduced.
- **Table A3** Reproduced.
- **Table A4** Reproduced.
- **Table A5** Reproduced.
- **Table A6** Reproduced.
- **Table A7** Reproduced.

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @2.30GHz
- Memory available: 6 GB
- Software version: Stata 18.5 MP