RRWM Reproducibility Report

Trinity Lakin

Group S1- Saman, Tim, Trinity

Replicating Saman’s code & calculations

**Summary:**

This project was mostly reproducible. Tables 2-4 were successfully reproduced with the same output, but there was an issue with Table 1. Running Saman’s original code and the code I created using Saman’s written instructions yielded the exact same output, but these tables were different from the Table 1 included in their tables document “RRWM\_tables.docx.” This is discussed in greater detail in the “discrepancies” section below.

**Replicator’s Computing Environment:**

Software:

* OS: Windows 10 Home; version 21H2
* Stats software: StataSE 17, accessed through FSU virtual lab

Hardware:

* Processor: Intel(R) Core(TM) i5-5200U CPU @ 2.20GHz 2.19 GHz
* Installed RAM: 8.0GB
* System type: 64-bit operating system, x64-based processor

**Replication steps:**

1. Downloaded data from CAnD3 RRWM repository
2. Downloaded readme, do-file, and tables document from Saman’s email
3. Recreated the code on my own do-file using Saman’s readme
4. Run “Recreating Samans code.do” and create log file showing output of this code
5. Load Saman’s original do-file and change the dataset file path to match my system
6. Run the updated “RRWM\_do.do” and create log file showing output of this code
7. Compare output from my recreated code and Saman’s original code with Tables 1-4 from tables document

**Code Testing Summary:**

|  |  |
| --- | --- |
| **Figure or table** | **Replicated (comments)** |
| Table 1 (freq table of loc\_dico) | Yes |
| Table 2 (cross tab loc\_dico with edu\_cat) | Yes |
| Table 3 (cross tab loc-dico with sex) | Yes |
| Table 4 (regression) | No, has different features (count, se, cv instead of proportion) and figures than the table created using both the original and recreated code |

**Discrepancies**:

Table 1 on the provided “RRWM\_tables.docx” does not match the output from the original code. Using Saman’s program, I reconstructed their codes on my own do-file and came up with a table that matched the table I later got when running their original code. This table, however, is different from the Table 1 presented in the tables document. The two tables are below:

|  |  |
| --- | --- |
| **Table 1 from “RRWM\_tables.docx”** | **Table created using the original code** |
| Table  Description automatically generated | Text, letter  Description automatically generated |

They’re both frequency tables for the same variable (loc\_dico) – Saman may have decided to use a different code to create a table that gave more information, but forgot to change the code in the do-file. I’m not sure the exact code to reproduce the Table 1 as provided in “RRWM\_tables.docx,” but was able to reproduce the table created using the original code.

**Classification:**

Partial reproduction

(though this would likely be full reproduction if I knew the code to make Table 1 myself, or if the code for was provided in the do-file or readme file)