THE WELFARE EFFECTS OF STRUCTURAL CHANGE AND INTERNAL MIGRATION IN TANZANIA

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Overview

The code in this replication package (executed by *7_run_all*) prepares the analytical data, pulling datafiles from the fourth and fifth waves of the Tanzania National Panel Survey (NPS) implemented in 2014/15 and 2020/21. The NPS is a multi-topic household survey, and the analysis in this paper uses a number of the publicly available datafiles. The replicator should take approximately 10 minutes to finish.

Data Availability and Provenance Statements

The data used for the analysis in this paper is publicly available on the World Bank Micro Data Library and the Tanzania National Bureau of Statistics (NBS) NADA website. The NPS was implemented by NBS with technical support from the World Bank Living Standards Measurement Survey (LSMS). The links to the data are as follows:

1. NPS Wave 4 – 2014/15: https://microdata.worldbank.org/index.php/catalog/2862
2. NPS Wave 5 – 2020/21: https://microdata.worldbank.org/index.php/catalog/5639

Statement about Rights

- [X] I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

Summary of Availability

- [X] All data **are** publicly available.

Dataset list

All datafiles are in Stata (.dta) format and open with Stata version 17.

Datafile	Note	Provided
Wave 4		
hh_sec_a.dta	Contains Household indentification and other vital characteristics	Yes
hh_sec_b.dta	Contains individual level information	Yes
hh_sec_c.dta	Contains individual level educaiton information	Yes
hh_sec_e.dta	Contains individual level employment information	Yes
hh_sec_i.dta	Contains housing information	Yes
hh_sec_j3.dta	Contains dietary diversity information	Yes
hh_sec_n.dta	Contains non-farm enterprise information	Yes
consumption_real_y4.dta	Contains welfare variables	Yes
Wave 5		
hh_sec_a.dta	Contains Household identification and other vital characteristics	Yes
hh_sec_b.dta	Contains individual level information	Yes
hh_sec_c.dta	Contains individual level educaiton information	Yes
hh_sec_e1.dta	Contains individual level employment information	Yes
hh_sec_e2.dta	Contains individual level employment information	Yes
hh_sec_e3.dta	Contains individual level employment information	Yes
hh_sec_i.dta	Contains housing information	Yes
hh_sec_j3.dta	Contains dietary diversity information	Yes
hh_sec_n.dta	Contains non-farm enterprise information	Yes
consumption_real_y5.dta	Contains welfare variables	Yes

Computational requirements

Stata 17 should be used to run the codes.

outreg2 command needs to be installed using *ssc install outreg2*

Description of programs/code

- Programs in **0_Globals** is the dofile that will create all *global* directory for running the package.

- Dofile **1_basicvars_y4.do** generate Wave 4 household demographic variables used in the analysis

- Dofile **1_basicvars_y5.do** generate Wave 5 household demographic variables used in the analysis

- Dofile **3_housing** generates housing related variables for both Wave 4 and 5

- Dofile **4_foodsecurity** generates the dietary diversity variables for both Wave 4 and 5.

- Dofile **5_Final Analytical Data Preparation** generates other analytical variables, including employment, sectors, and education. It also merges and appends all the datafiles produced from the previous dofiles.

- Dofile **6_Tables - WB PRWP Series** will generate all the tables and figures in the paper.

    – The specific code lines that have to be run to produce corresponding Tables/Figures are preceded with a comment, starting with Table X.

    – Note that the excel file "Tables - Tanzania Structural Transformation" contains the shells for tables 1-6. Thus, once the commands for tables 1-6 are run, they will automatically populate the content of these tables, including generating applicable figures.

    – For Tables 7-11 and A1-A4, the *outreg2* command will export each of them into separate excel files (.xls).

- Finally, dofile **7_run_all** can be used if one wants to run all the dofiles with a single click.

Instructions to Replicators

To run the program, follow the steps below:

- Copy the "PRWP Reproducibility Package" folder into a location on your (e.g., Documents, Desktop, etc.)

- In the Dofiles folder, open "0_Globals" and change the *base* directory on line 3 to reflect the directory where you saved the "PRWP Reproducibility Package."

- Now run the globals from line 3-8.

- Following this, you can either run all the dofiles jointly, or separate. To run them jointly, just open the "7_run_all" dofiles in the same dofile interface as the "0_Globals". Alternatively, one can open each individual dofile (1-6) and run them separately.

- Note that if running the dofiles individually, the order is important. All dofiles are numbered, and should be run in the order in which they

List of tables and programs

The provided code reproduces:

- [X] All tables and a few figures in the paper, as explained and justified below.

Figure/Table #	Program	Line #	Note
Table 1	6_Tables - WB PRWP Series	20-51	
Table 2	6_Tables - WB PRWP Series	53-57	
Table 3	6_Tables - WB PRWP Series	59-124	
Table 4	6_Tables - WB PRWP Series	126-130	
Table 5	6_Tables - WB PRWP Series	173-213	
Table 6	6_Tables - WB PRWP Series	215-246	
Table 7	6_Tables - WB PRWP Series	249-284	
Table 8	6_Tables - WB PRWP Series	287-314	
Table 9	6_Tables - WB PRWP Series	317-342	
Table 10	6_Tables - WB PRWP Series	345-360	
Table 11	6_Tables - WB PRWP Series	363-393	
Table A1	6_Tables - WB PRWP Series	396-410	
Table A2	6_Tables - WB PRWP Series	412-437	
Table A3	6_Tables - WB PRWP Series	440-465	
Table A4	6_Tables - WB PRWP Series	467-500	
Figure 1	no syntax		from WB Development Indicators
Figure 2	no syntax		from WB Development Indicators
Figure 3	6_Tables - WB PRWP Series	132-140	
Figure 4	6_Tables - WB PRWP Series	142-169	