**Replication notes for “Income and Poverty in the COVID-19 Pandemic”**

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This note describes how to replicate tables and figures in the paper “Income and Poverty in the COVID-19 Pandemic”.

1. Construction of Dataset

We use the Current Population Survey (CPS) as the main dataset and we use a few supplemental datasets listed below.

1.1. The Monthly CPS and the CPS ASEC data

The raw CPS data is downloaded from the IPUMS website (<https://cps.ipums.org/cps/index.shtml>). Our CPS dataset includes the following samples and variables:

Samples: January 2005-June 2020 Basic Monthly data and 2005-2020 ASEC data.

Variables: year serial month cpsid asecflag hflag mish statefip faminc qfaminc inttype pernum wtfinl cpsidp asecwt relate age sex race marst ftype famrel hispan empstat occ ind classwkr durunemp whyunemp whyabsnt wnlook wkstat educ earnwt inctot qoincbus qoincbusd qoincfarm qoincfarmd qinclong qinclongd qoincwage qoincwaged offtotval offcutoff earnweek wksworkorg

After saving the dataset (cps\_#####.dat) and Stata program (cps\_#####.do) in a folder, we edit the Stata program to save the output file as Monthly\_Poverty\_0520.dta which is used for estimation.

1.2. The Supplemental Dataset

PCE.dta contains the monthly PCE Chain-type price index which is normalized to one for May 2020.

pov\_thresh.dta contains the U.S. Census poverty thresholds by size of family and number of children.

st\_UI.dta contains terciles of the state-level UI recipiency rate and the administrative cumulative dollars of UI benefits by tercile of state recipiency rate and month.

st\_covid.dta contains indicators for 1) states with high COVID-19 death rates, 2) states that implemented stay-at-home orders early, 3) states that announced a state of emergency early and 4) states with high recipiency rates for UI.

fixedwgt.dta contains adjusted survey weights (fixed demographic weight) for the sample from March-June 2020 CPS data.

CEdata\_for\_BPEA.dta contains income data from the Consumer Expenditure Survey.

2. Generate Figures and Tables

Note: Stata programs need to be edited to reference the folder containing the data and program files on your computer.

2.1. Figures 1-5, Appendix Figures 1-2

Stata program: BPEA\_Figures.do

Input file: Monthly\_Poverty\_0520.dta, pov\_thresh.dta, PCE.dta, fixedwgt.dta, CEdata\_for\_BPEA.dta

Output file: impute.dta, Figure1.png, Figure2.png, Figure3.png, Figure4.png, Figure5.png, AppF1.png, AppF2.png

2.2. Appendix Figures 3-5

Excel file “App.F3-5.xlsx” contains the data for the figures.

Output file: AppF3.png, AppF4.png, AppF5.png

2.3. Bootstrapped standard errors in Table 2, Appendix Table 7-10

Stata program: BPEA\_BSE.do

Input file: Monthly\_Poverty\_0520.dta, impute.dta, pov\_thresh.dta, fixedwgt.dta

Output file: Table2\_BSE.xls, App.T7\_BSE.xls, App.T8\_BSE.xls, App.T9\_BSE.xls, App.T10\_BSE.xls

2.4. Table 1-2, Appendix Table 5-10

Stata program: BPEA\_Table1-2,AppT5-10

Input file: Monthly\_Poverty\_0520.dta, pov\_thresh.dta, impute.dta, st\_covid.dta, fixedwgt.dta, PCE.dta, Table2\_BSE.xls, App.T7\_BSE.xls, App.T8\_BSE.xls, App.T9\_BSE.xls, App.T10\_BSE.xls.

Output file: Table1.xlsx, Table2.xlsx, App.T6.xlsx, App.T8.xlsx, App.T9.xlsx, App.T10.xlsx, App.T5.xlsx, App.T7.xlsx

2.5. Tables 3-5, Appendix Table 11, 14

Stata program: BPEA\_Table3-5,AppT11,14.do

Input file: Monthly\_Poverty\_0520.dta, pov\_thresh.dta, impute.dta, st\_UI.dta, fixedwgt.dta, State UI benefit calculations.xlsx.

Output file: Table3.xlsx, Table4.xlsx, Table5.xlsx, App.T11.xlsx, App.T14.xlsx

2.6. Appendix Table 1, 2, 13

Stata program: BPEA\_AppT1,2,13.do

Input file: Monthly\_Poverty\_0520.dta, pov\_thresh.dta, impute.dta.

Output file: App.T1.xlsx, App.T2.xlsx, App.T13.xlsx.

2.7. Appendix Table 3, 4, 12

Stata program: BPEA\_AppT3,4,12.do

Input file: Monthly\_Poverty\_0520.dta, PCE.dta

Output file: App.T3.xlsx, App.T4.xlsx, App.T12.xlsx.

2.7. Column (3) in Appendix Table 15

Stata program: BPEA\_AppT3,4,12.do

Input files: Monthly\_Poverty\_0520.dta, PCE.dta

Output file: App.T15.xlsx