**Readme file for “Unseasonal Seasonals?” Replication Programs**

Please read in full before attempting to run the programs.

**Raw Data**

* The disaggregated NSA CES data are in the nsa spreadsheet of bls.xls (2003-present) and bls2.xls (1990-present) taken from the BLS website. The prior\_adj sheet contains the prior adjustments also taken from the BLS website. All other sheets in bls.xls are created by the programs below.
* The disaggregated NSA CPS data are in the nsa spreadsheet of cps.xls.
* The data referred to in subsection 3.5 (other NSA series) are in nsadata.xls.
* The data for the analysis of revisions in section 5 are in revisions.xls. Standard deviations of revisions, as reported at the start of section 4 are computed directly in this file (cells Z418-AC418).

**Creation of alternative SA series**

* Various Matlab programs create the alternative seasonally adjusted series.
* adjprog creates my replication of the SA CES data and stores it in the sa spreadsheet of bls.xls
* adjprogu creates my replication of the SA CPS data and stores it in the sa spreadsheet of cps.xls
* adjprog2 creates the fictitious SA CES data (described in subsection 2.1) and stores it in the sa\_fict spreadsheet of bls.xls
* adjprog2 creates the fictitious SA CES data (described in subsection 2.1) and stores it in the sa\_fict spreadsheet of bls.xls
* adjprog3 creates the series using the impulse response exercise (described in subsection 2.4) and stores it in the sa\_ir spreadsheet of bls.xls
* adjprog4 does the seasonal adjustment using the 3x9 or 3x15 filter (selected by the user in the program) and stores it in sa3x9 or sa3x15.
* adjprog5 does the alternate seasonal adjustment based on treating 2008 and 2009 data as missing (as discussed in subsection 2.2) and stores it in the et spreadsheet of bls.xls.

**Figure Programs**

* More Matlab programs create the figures in the paper. The program makefig1.m creates figure 1 and so on. These figures call the data in the different sheets of bls.xls and so were run after first running the programs to create the alternative seasonally adjusted series.

**Table Programs**

* Still more Matlab programs create the tables in the paper.
* maketable1 constructs Tables 1, 2 and 3.
* maketable4 constructs Table 4.
* maketable5 constructs Tables 5, 6 and 7.
* maketablea implements the computations for the Depoutot and Planas (1998) lookup tables to the CES disaggregates, as reported in subsection 3.2.

**Additional Notes**

* The data for running the figure and table programs are all there; you do not need to re-run the files for creating alternative SA series if you do not want to.
* The remaining Matlab programs are called by the above listed programs.
* The figure and table programs must be run one at a time with the results then being copied.
* In adjprog.m, if lines 20 and 21 are uncommented, then output from the X-12 filter is displayed. This tells us which filter the default X-12 selects for each series, as reported in subsection 3.1.
* The following programs can only be run using a 32 bit version of Windows: makefig8, maketable1, maketable4 and maketablea.