**Listing of Files and Programs for**

**“Recessions and the Costs of Job Loss”**

**By Steven J. Davis and Till von Wachter**

**Section I**

See the Excel file for the figures and tables and data points.

**Section II.B**

*Analysis using data from the Social Security Administration; for programs and documentation of main estimates from VSM used to construct tables and figures, please see VSM.*

* **Figure 5:**
  + Program: figure5.do and regsum2d3u2.do
  + See programs for further documentation.
* **Figure 6:**
  + Program: figure6.do
* **Figure 7:**
  + Program: figure7.do and regsum2f2u.do
* **Table 1:**
  + Program: regsum2d3u2.do,regsum2c2u.do, regsum2d­\_tab.do
* **Table 2:**
  + Program:
    - High Tenure: same programs as Table 1
    - Women: regsum2d3w.do, regsum2c2w.do, regsum2d3w\_tab.do
    - By Age Group: regsum3u.do, regsum3du.do**,** regsum3u\_tab.do
* **Appendix Figure A1:**
  + Program: appfig\_a1.do and regsum3u.do
* **Appendix Figure A2:**
  + Program: appfig\_a2.do, regsum3e3u.do,regsum3fu.do**,** regsum3e\_tab.do

**Section III.C**

*Analysis Using General Social Survey (GSS) Data*

* UR-All and UR-PA contain monthly unemployment rate data from the BLS. These data are used to construct the 5-month average unemployment rates in urates,csv.
* construct\_jobandunemp\_series.do is a Stata program that creates an extract from the full GSS micro data at [www.norc.uchicago.edu/GSS+Website/Download/STATA+v8.0+Format/](http://www.norc.uchicago.edu/GSS+Website/Download/STATA+v8.0+Format/). The extract data set is combined with the unemployment data and output as data\_complete.dta.
* scatterplots\_5-month-urate.do creates the scatter plots from the data in data\_complete.dta.
* Data\_and\_Scatterplot.xlsx contains the data points plotted in Figures 7, A.3 and A.4 and a version of the scatter plots as well.

*Table and Chart Based on Gallup Data*

* See the Excel file for Figure 8 and Table 3

**Section IV.B**

Table 4.zip contains the files used to produce Table 4. To generate Table 4, run the MATLAB programs Table\_4\_inc\_loss\_simulations.m and Table\_4\_earnings\_loss\_simulations.m. These programs in turn rely on MATLAB code produced by Robert E. Hall and Paul Milgrom for their paper, “[The Limited Influence of Unemployment on the Wage Bargain](http://www.stanford.edu/%7Erehall/Hall-Milgrom_AER_Sept_2008.pdf), *American Economic Review,* 98, no. 4, 1653-1674.” The necessary files from Hall and Milgrom are included in Table4.zip.

**Section IV.C**

Table 5 Computations.zip and Table 5 Simulations.zip contain the files. The programs build on the MATLAB code produced by Simon Burgess and Helene Turon for “Worker Flows, Job Flows and Unemployment in a Matching Model,” *European Economic Review, 54,* no. 3, 393-4-08.

The files in “Computations” carry out the calculations that rely only on value function comparisons. Run RJL\_main.m to generate the results. The code calls the original calibration of Burgess and Turon. To call the Table 5 calibration, alter the third command in the code to “run rev2\_2”.

The files in “Simulations” carry out the earnings loss simulation and calculations reported in Table 5. Run Earnings\_Losses\_Simulated.m. (To simulate income losses set b=0.9 in that program and assign a terminal value where indicated; further assign a value k=0.1 for on-the-job searchers where indicated in the quarterly losses.) To obtain the Table 5 calibration, call rev2\_2 in the third line of code and switch lambda to .25 manually where indicated.

We have added a few objects to the original code of Burgess and Turon. They start with RJL\_ and are based on the following:

* FVSsig: From equation A.11 in Burgess and Turon.
* FERT: Using Equation A.7 in Burgess and Turon
* FETS: Solving their Equation A.10 for F\_E
* FESsig: Solving their equation A.9 for F\_E.