

Bloom, Jones, Van Reenen, Webb
"Are Ideas Getting Harder to Find?"
openicpsr-111743
<https://www.openicpsr.org/openicpsr/project/111743/>

This ReadMe file summarizes the programs and data files included in the data repository. See the Online Appendix file [IdeaPFDataAppendix.pdf](#) for details and replication instructions. Data sets (sources, files, and instructions for obtaining the data) are discussed in detail in the online appendix.

Files formats:

- *.m = matlab programs
- *.mat = matlab data files
- *.xls = data spreadsheets
- *.csv = data CSV files

MasterIdeaPF.m: Master program for all results other than Census

Note: The first time you run MasterIdeaPF.m, most results will show up quickly. The CompuStat data, however, gets cleaned in CompustatRead.m and this takes ~10 minutes, so the program will appear to pause when that happens.

itfp.do: Stata program for Census results

Subdirectories:

- Aggregate/ = Aggregate U.S.
- Compustat/ = Compustat firm-level
- ChadMatlab/ = various general matlab functions
- MooreLaw/ = Moore's law case
- Mortality/ = Mortality rate cases
- Pharma/ = New Molecular entities case
- Seeds/ = Agriculture and seed cases
- Patents/ = Patent data used to allocate R&D in Moore's Law
- WageSci/ = Wage deflators for converting R&D into effective research

Guide to Figures and Tables

Figures are stored as *.eps files. Program output is saved in *.log files. The appendage "_Main" is used for the main results. The appendage "_Lambda" is used for the robustness results in Appendix Table A1.

The programs listed below should not be run individually but instead called by MasterIdeaPF.m.

Figure 1: Subdirectory: Aggregate/
Files: AggregateBLSIPP.m AggregateBLSIPP2.eps

Figure 2: Subdirectory: Aggregate/
Files: AggregateBLSIPP.m AggregateBLSIPP.eps

Figure 3: Subdirectory: MooresLaw/
Files: MooresLaw.eps (from Wikipedia, as referenced in paper)

Figure 4: Subdirectory: MooresLaw/
Files: IntelGraph.m IntelGraph.eps

Figure 5: Subdirectory: Seeds/
Files: AgldeaPF.m AgldeaTFP.eps

Figure 6: Subdirectory: Seeds/
Files: SeedYields.m
SeedData_Corn.eps, SeedData_Soybeans.eps, SeedData_Cotton.eps, SeedData_Wheat.eps

Figure 7: Subdirectory: Mortality/
Files: LifeExpectancy.m LifeExpectancy.eps

Figure 8: Subdirectory: Mortality/
Files: Cancer.m Cancer_Output.eps Cancer_Publications
BreastCancer.m BreastCancer_Output.eps BreastCancer_Publications
HeartDisease.m HeartDisease_Output.eps HeartDisease_Publications

Figure 9: Subdirectory:
Files: Cancer.m Cancer_TFP
BreastCancer.m BreastCancer_TFP
HeartDisease.m HeartDisease_TFP

Figure 10: Subdirectory: Compustat/
Files: MasterCompustat.m CompustatHist2_Sales.eps

Appendix Figure 1: Subdirectory: Aggregate/
Files: AggregateBLS_SciEng.m AggregateBLS_SciEng.eps

Appendix Figure 2: Subdirectory: Seeds/
Files: SeedYields.m
Yields_Corn.eps, Yields_Soybeans.eps, Yields_Cotton.eps, Yields_Wheat.eps

Appendix Figure 3: Subdirectory: Pharma/
Files: NMEGraph.m NMEGraph_Output.eps

Appendix Figure 4: Subdirectory: Pharma/
Files: NMEGraph.m NMEGraph_TFP.eps

Appendix Figure 5: Subdirectory: Compustat/
Files: MasterCompustat.m CompustatHist3_Sales.eps

Appendix Figure 6: Subdirectory: Compustat/
Files: MasterCompustat.m CompustatHist4_Sales.eps

Table 1: Subdirectory: MooresLaw/
Files: IntelGraph.m SemiconductorTFP.m
IntelGraph_Main.log SemiconductorTFP_Main.log

Table 2: Subdirectory: Seeds/
Files: SeedYields.m SeedYields_Main.log

Table 3: Subdirectory: Mortality/
Files: Cancer.m Cancer_Main.log
BreastCancer.m BreastCancer_Main.log
HeartDisease.m HeartDisease_Main.log

Table 4: Subdirectory: Compustat/
Files: MasterCompustat.m
CompustatIdeaPF_Sales_Main.log
CompustatIdeaPF_MktCap_Main.log
CompustatIdeaPF_Employment_Main.log
CompustatIdeaPF_RLP_Main.log

Table 5: Subdirectory: Compustat/
Files: MasterCompustat.m
CompustatIdeaPF_Sales_Main.log
CompustatIdeaPF_RLPMinGrowth1_Main.log
CompustatIdeaPF_Windsor1_Main.log
CompustatIdeaPF_Robust1_Main.log
CompustatIdeaPF_Robust2_Main.log
CompustatIdeaPF_MedianIdeaGrowth_Main.log
CompustatIdeaPF_UnWeighted_Main.log
CompustatIdeaPF_DHSGrowth_Main.log

Table 6: Files: itfp.do (Stata program run at Census Research Data Center)

Table 7: Summary of results from earlier tables/files

Table A1: Same programs as earlier, but with "_Lambda" instead of
"_Main" for the *.log result files.

Appendix Table 1: Same programs as earlier, but with "_WagePlus1" instead of
"_Main" for the *.log result files.

Appendix Table 2: Same programs as earlier, but with "_WageGDP" instead of
"_Main" for the *.log result files.