

# Guide to the Marathon Times Webpage

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The raw data are contained in the files:

runners1.csv

BM2013\_DNF\_List.csv

ProjectedResults.csv

The latter two files contain the list of DNF runners and projected finish times for the 2013, as calculated in our PLOS ONE paper (<http://dx.plos.org/10.1371/journal.pone.0093800>). They are used to fill in the times of those runners who participated in 2013 but did not finish because of the bombings. Otherwise, all the data used in this paper are actual finish times.

The file AgeTimes.pdf contains the *current* version (dated 7/31/2014) of the draft manuscript. This includes the description of the basic data analysis but not many of the actual results.

The file Smith\_JSM2014.pdf is the pdf of the talk I gave at the 2014 Joint Statistical Meetings. This combines the work on the age *vs.* marathon times relationship with earlier work (joint with Scott Powers and Jessi Cisewski) on the Boston Marathon qualifying times, that is to appear in *Chance*.

Finally, the file R-Code-Age-Analysis.txt contains a small sample of analysis code in R. This includes extracting data from the three .csv files into an R dataset used for the main analysis, and a sample of the actual analysis using the `lmer` command (part of the `lme4` package for mixed effects regression).