

Overview

This program (modmatch.ado) has been written for the Stata statistical software package using version 7.0. If you are using an older version of Stata (such as Stata 6.0), then it may not run properly. The program should run without any problems in Stata 8.0.

If you have performed a normal Stata installation, you may run the program by copying the two files (modmatch.ado and modmatch.hlp) to the 'C:\ado\personal' folder. In the Stata command window, type 'modmatch' and the user interface will appear.

From this window, you must specify the sex of the life table, the value of a_1 , and two life table functions as inputs. At the moment, one input must be l_5 or ${}_5q_0$, while the second input may be ${}_{45}q_{15}$, e_0 , or simply left blank. If the second field is left blank, the software will estimate a value of l_{60} from l_5 based on the observed relationship between these two parameters in the life table dataset used to create the Modified Logit life table system (2). In this case, you will be given the option of generating upper and lower bound life tables as well as the point estimate.

The Modified Logit system itself produces l_x values for 19 age groups. The software then uses the Coale-Guo (1) method to close out the life table to 22 age groups (100+).

There is also an option to generate several life tables at once using the data currently in memory. Type 'help modmatch' in the command window for further details.

Contact

This software was written by Brodie Ferguson during his tenure as a research scientist in demography and epidemiology at the World Health Organization. Please feel free to contact him with any questions regarding its use at the following email (brodie@simagence.com). You may also wish to contact Colin Mathers at WHO (mathersc@who.int).

References:

1. Coale, AJ, and Guo, G, 1989, Revised regional model life tables at very low levels of mortality, *Population Index* 55(4):613-643.
2. Murray CJL, Ferguson BD, Lopez AD, Guillot M, Salomon JA, Ahmad OB, 2003, "Modified logit life table system: principles, empirical validation, and application." *Population Studies* 57(2):1-18.

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