

Package ‘LifeTableFertility’

February 17, 2026

Type Package

Title 'shiny' Application for Life Table and Fertility Analysis

Version 0.1.0

Description

Provides a 'shiny' application to construct age-specific life tables and fertility schedules from individual female daily egg records. The application computes age-specific survival and fertility functions and estimates key demographic parameters including the net reproductive rate, mean generation time, intrinsic rate of increase, finite rate of increase and doubling time. Optional confidence intervals can be obtained using percentile bootstrap or delete-1 jackknife resampling at the female level. Methods and definitions follow Stevens (2009) <[doi:10.1007/978-0-387-89882-7](https://doi.org/10.1007/978-0-387-89882-7)> and Rossini et al. (2024) <[doi:10.1371/journal.pone.0299598](https://doi.org/10.1371/journal.pone.0299598)>.

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Encoding UTF-8

RoxygenNote 7.3.3

Imports shiny, stats, utils

Suggests knitr, DT, ggplot2, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://github.com/almarazkrae-4081/LifeTableFertility>

BugReports <https://github.com/almarazkrae-4081/LifeTableFertility/issues>

NeedsCompilation no

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Repository CRAN

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Contents

LifeTableFertility	2
Index	3

LifeTableFertility *LifeTableFertility*

Description

Launch the LifeTableFertility 'shiny' application for life table and fertility analysis.

Usage

```
LifeTableFertility()
```

Value

Runs a 'shiny' app (interactive).

Examples

```
if (interactive()) {  
  LifeTableFertility()  
}
```

Index

LifeTableFertility, [2](#)