Kenya

```
## [1] "Census Females"
##
   # A tibble: 18 x 8
                                                                  `2009`
                                                                            2019
##
                                                         1999
                 1962
                           1969
                                     1979
                                               1989
      aggr.age
##
          <dbl>
                  <dbl>
                            <dbl>
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##
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             15 395882.
                          550900.
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##
##
    5
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                          464071
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##
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##
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                          208136.
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##
  10
             45 124664.
                          167178
                                    227571.
                                             298181.
                                                       426343.
                                                                 621651.
                                                                           866858.
##
  11
             50
                 92140.
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                                   184967.
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                                                       335929.
                                                                 486662.
                                                                           679125.
##
  12
             55
                 67382.
                          109512.
                                    142658.
                                             192942.
                                                       258435.
                                                                 370542.
                                                                           556669.
##
  13
             60
                 53409.
                           88640.
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                                             158686.
                                                       207777.
                                                                 289461.
                                                                           452658.
##
  14
                 39397.
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                                     84777.
                                             123427.
                                                       168755.
                                                                 223312.
             65
                                                                           354144.
##
  15
             70
                 26466.
                           45690.
                                     62651.
                                               90086.
                                                       129033.
                                                                 171156.
                                                                           265847.
## 16
                 17945.
                           30620.
                                     86752.
                                               60564.
                                                        82113.
                                                                 118734.
             75
                                                                           181084.
## 17
             80
                 14141.
                           21530
                                        NA
                                               94209.
                                                       121769.
                                                                 224687.
                                                                           118391.
## 18
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             85
                           26621
                                        NA
                                                  NA
                                                           NA
                                                                     NA
                                                                           141785.
##
  [1] "Census Males"
   # A tibble: 18 x 8
##
                 1962
                           `1969`
                                     1979
                                               1989
                                                         1999
                                                                  2009
                                                                            2019
      aggr.age
##
          <dbl>
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##
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##
    3
             10 513677.
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##
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##
    5
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                          441444
##
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##
    7
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                                   404695.
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##
    8
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                                             470056.
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##
   9
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## 10
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##
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                                   181751.
                                             233257.
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##
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                                                       248443.
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##
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                                             148130.
                                                       189804.
                                                                 283422.
                                                                           419991.
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                                             114381.
##
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##
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                                                       115173.
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                                                                           223830.
## 16
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                                                        79747.
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## 17
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                                               82347.
                                                        95999.
                                                                 159220.
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                                                                            81682.
## 18
             85
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                                                                            83593.
                           29194
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```

Thiele log-Normal Hump RW

user system elapsed ## 26.89 0.99 27.95 ## [1] "relative convergence (4)"

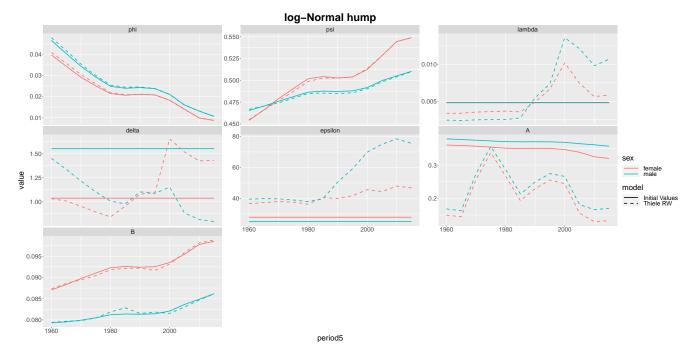


Figure 1: Estimated parameters

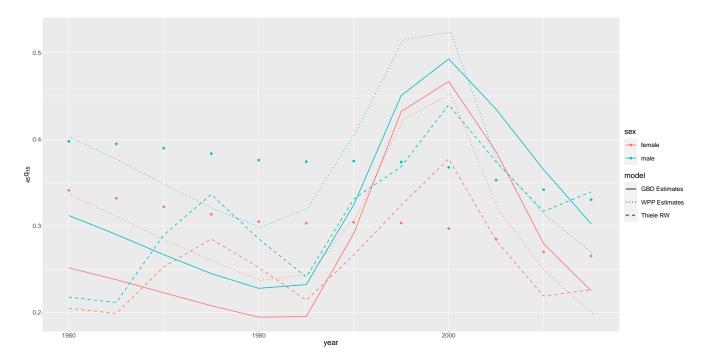


Figure 2: Estimated $_{45}q_{15}$

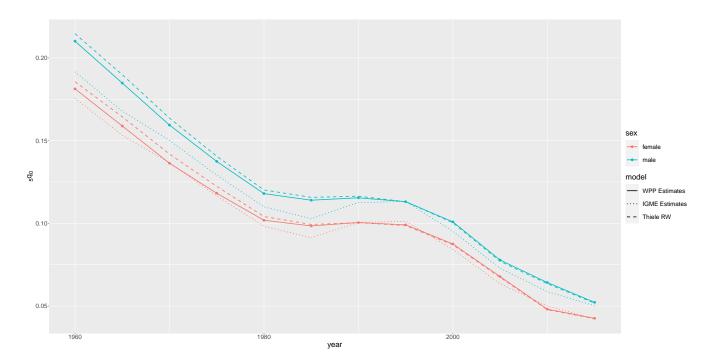


Figure 3: Estimated $_5q_0$

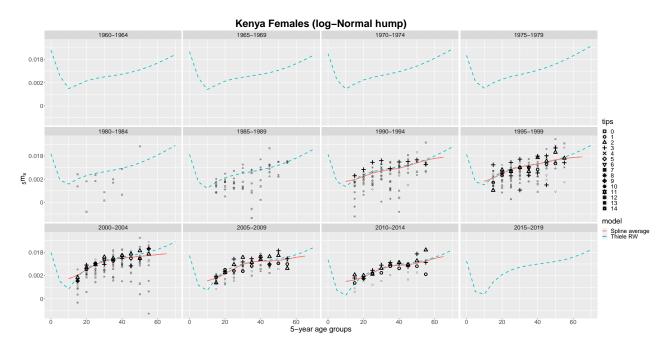


Figure 4: Mortality Schedules

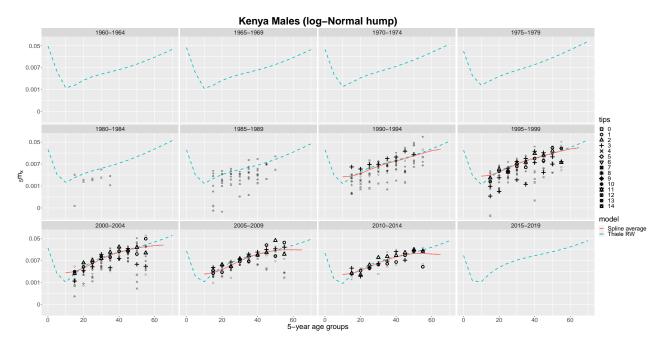


Figure 5: Mortality Schedules

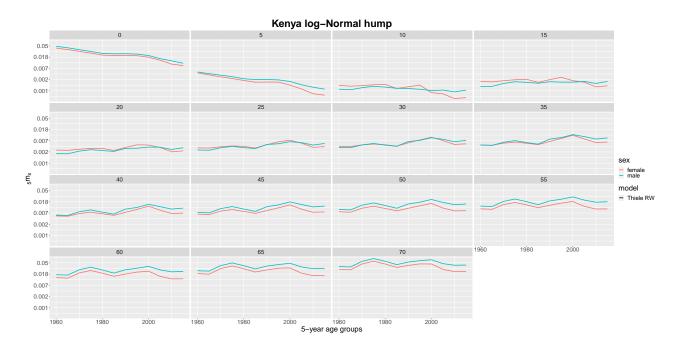


Figure 6: Mortality Schedules

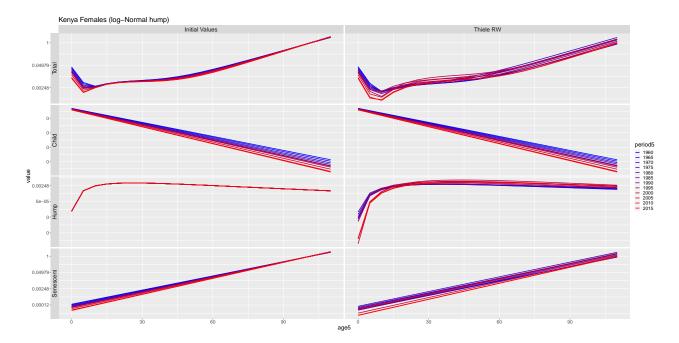


Figure 7: Thiele Decomposed

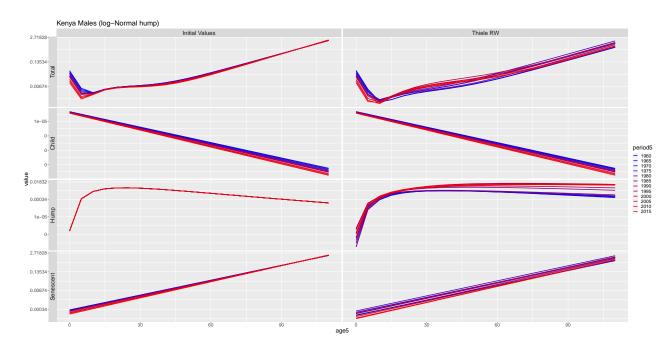


Figure 8: Thiele Decomposed

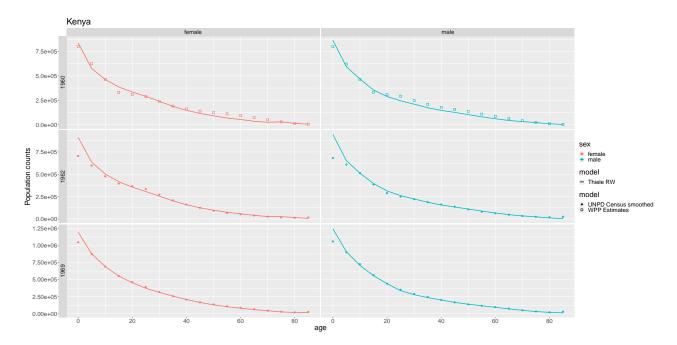


Figure 9: Population

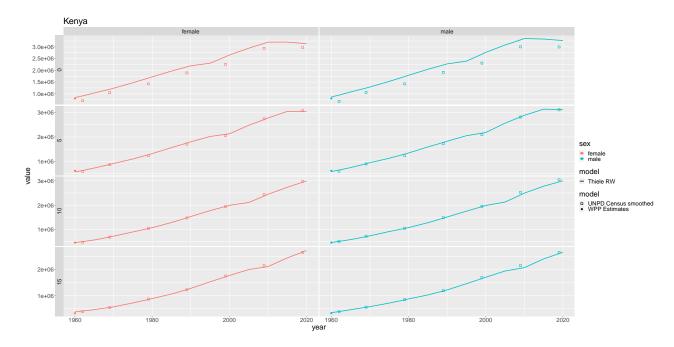


Figure 10: Population

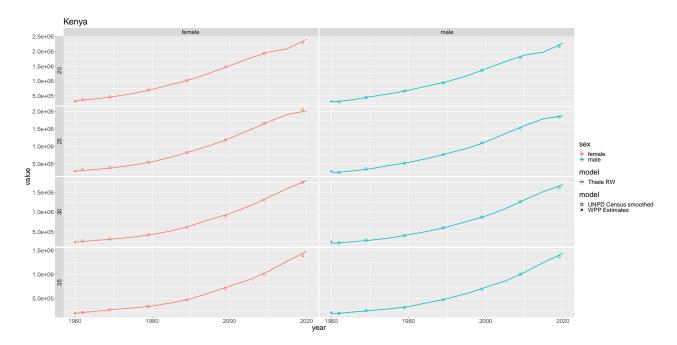


Figure 11: Population

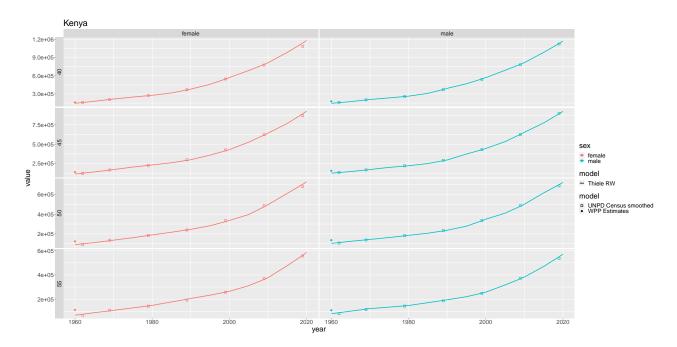


Figure 12: Population

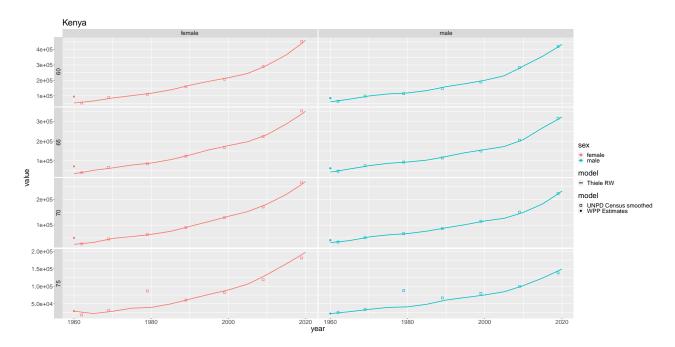


Figure 13: Population

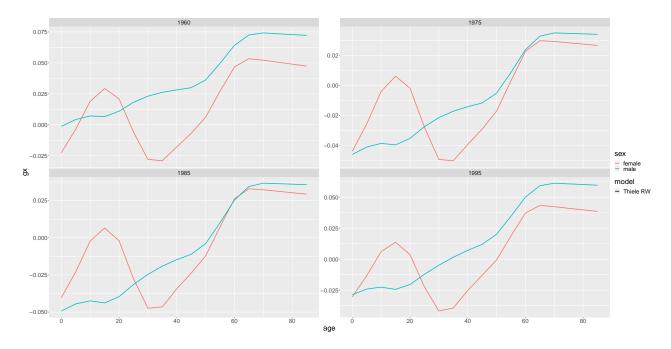


Figure 14: Migration

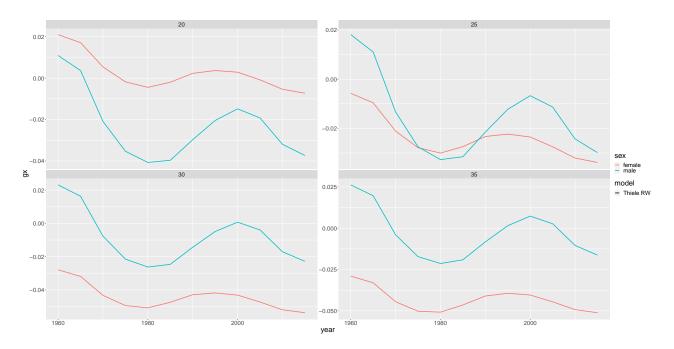


Figure 15: Migration

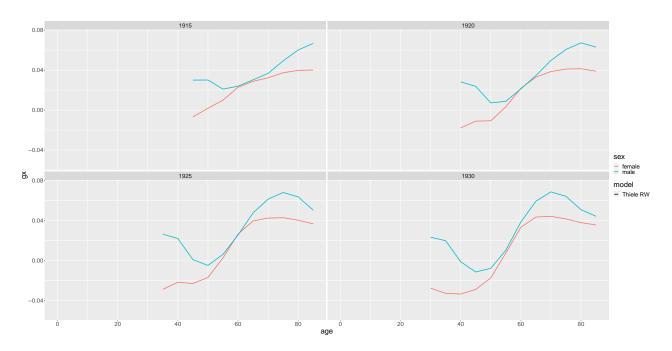


Figure 16: Migration

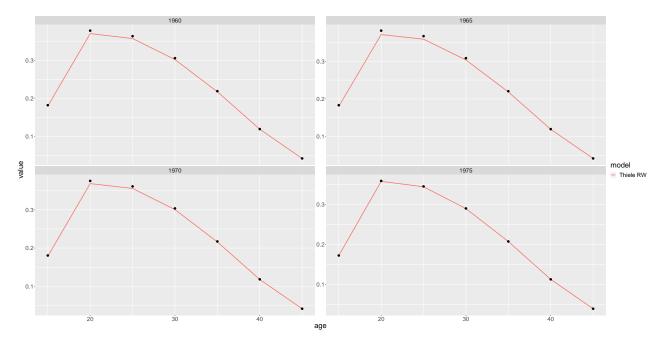


Figure 17: Fertility

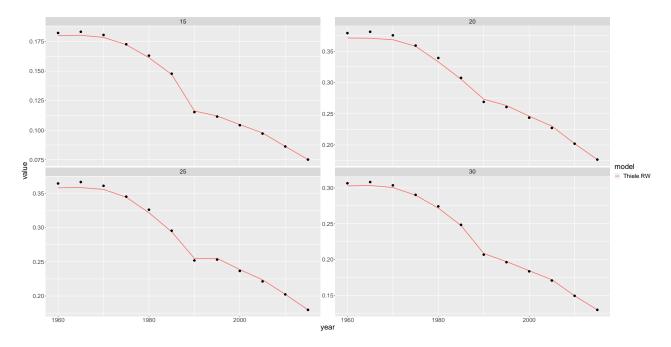


Figure 18: Fertility