## Mozambique

## [1] "Census Females" ## # A tibble: 87 x 4

age

<dbl>

1980

<dbl>

0 187097. 271698

202640. 269118
 214835. 277230

1997

<dbl>

2007

367263.

391743.

<dbl>

##

##

## 1

##

```
3 215746. 273925. 384490.
          4 209772. 262183. 372990.
##
          5 201806. 246929. 354079.
##
          6 198361. 238131. 343767.
          7 191065. 229348. 329749.
          8 181391. 219001. 312502.
##
          9 169379. 205561. 291346.
  # ... with 77 more rows
## [1] "Census Males"
  # A tibble: 87 x 4
                      1997
##
        age
             1980
                              `2007`
##
      <dbl>
                       <dbl>
                               <dbl>
              <dbl>
##
          0 177885. 263539
                             360976.
          1 195312. 264234. 365324.
##
          2 205820. 270084. 382294.
##
          3 207561. 268142. 375980.
          4 201857. 257593. 365010.
          5 195816. 244307. 347339.
          6 194365. 236931. 337781.
##
   8
          7 189866. 229926. 325071.
          8 183801. 222365. 310226.
          9 175292. 211317. 291350.
## # ... with 77 more rows
Thiele log-Normal Hump Spline
   [1] "relative convergence (4)"
##
             log_tau2_logpop_f
                                           log_tau2_logpop_f
                                                                        log_tau2_logpop_m
                                                                                                     log_tau2
##
                     6.4219894
                                                   5.3064165
                                                                                6.4811994
##
                 log_tau2_gx_m
                                        log_lambda_gx_age_f
                                                                      log_lambda_gx_age_m
                                                                                                  log_lambda_g
##
                      3.4561045
                                                   7.8411051
                                                                                 8.0081229
##
       log_lambda_gx_agetime_m
                                               log_lambda_tp log_lambda_tp_0_inflated_sd
                                                                                                       log_disp
##
                      6.9077541
                                                   3.5756444
                                                                               -2.7975619
##
       log_marginal_prec_psi_f
                                      log_marginal_prec_A_f
                                                                    log_marginal_prec_B_f
                                                                                               log_marginal_pr
##
                                                   6.8059091
                                                                                3.8680761
                     4.3156812
##
         log_marginal_prec_B_m
                                           log_lambda_phi_f
                                                                         log_lambda_psi_f
                                                                                                   log_lambda
##
                      4.5592599
                                                   4.3807642
                                                                                4.3495085
##
                log_lambda_A_f
                                              log_lambda_B_f
                                                                         log_lambda_phi_m
                                                                                                       log_lamb
##
                      4.3055700
                                                   3.0288335
                                                                                 4.4703839
##
          log_lambda_epsilon_m
                                              log_lambda_A_m
                                                                           log_lambda_B_m
                     3.3339881
                                                   4.3054518
                                                                                3.5550309
##
```

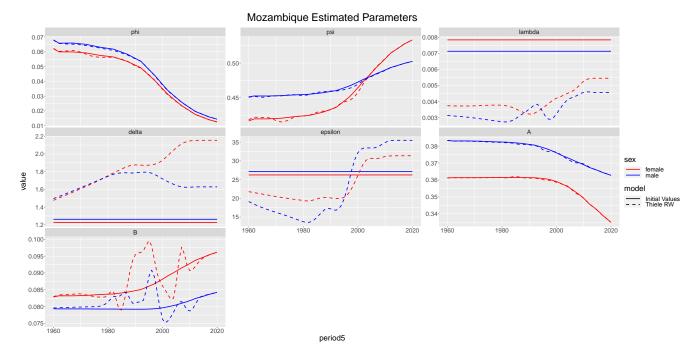


Figure 1: Estimated parameters

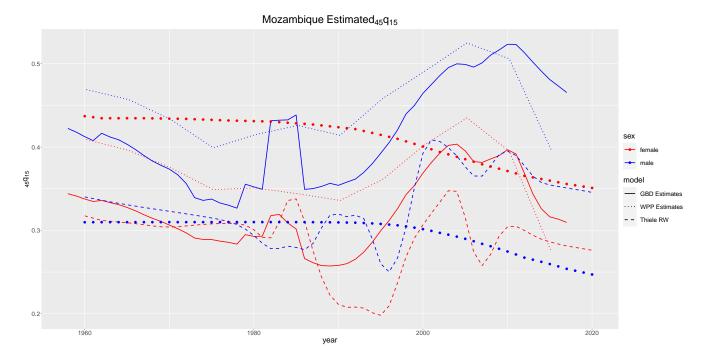


Figure 2: Estimated  $_{45}q_{15}$ 

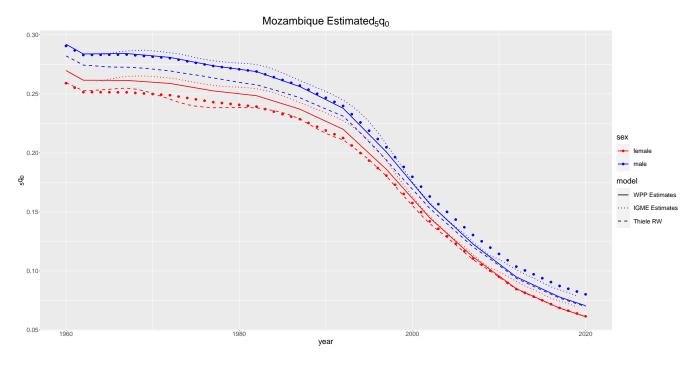


Figure 3: Estimated  $_5q_0$ 

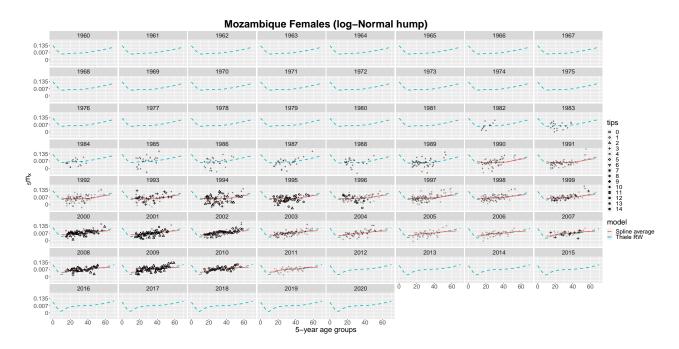


Figure 4: Mortality Schedules

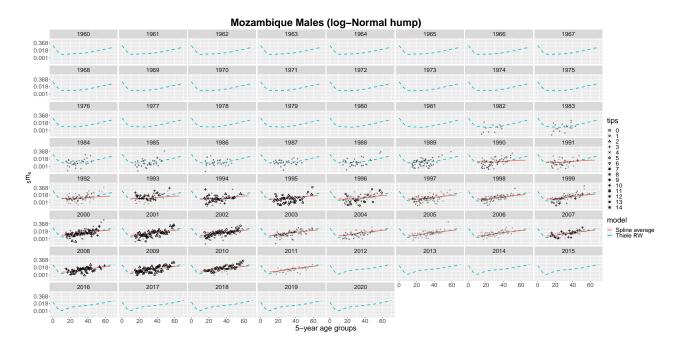


Figure 5: Mortality Schedules

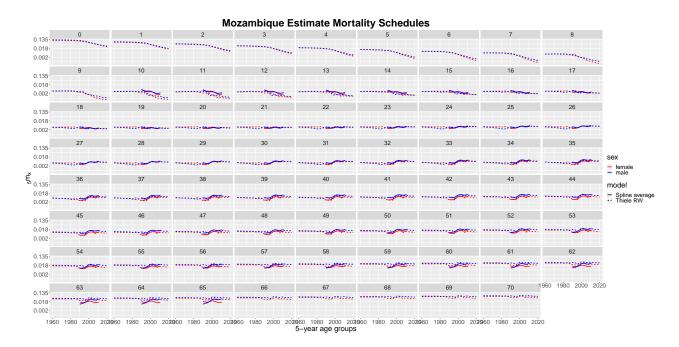


Figure 6: Mortality Schedules

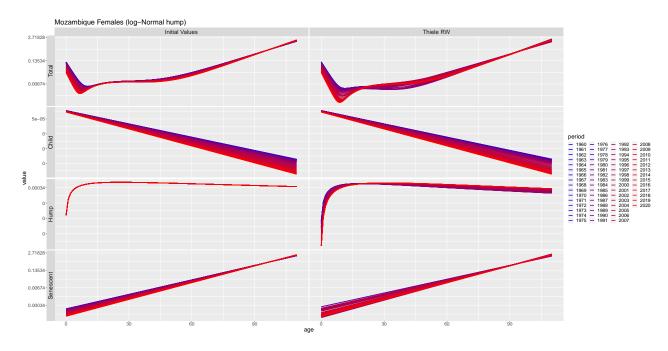


Figure 7: Thiele Decomposed

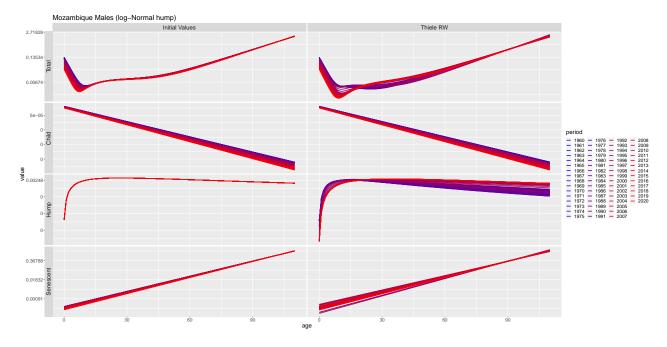


Figure 8: Thiele Decomposed

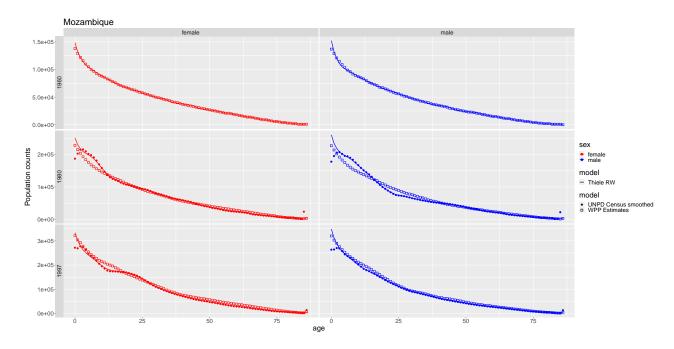


Figure 9: Population

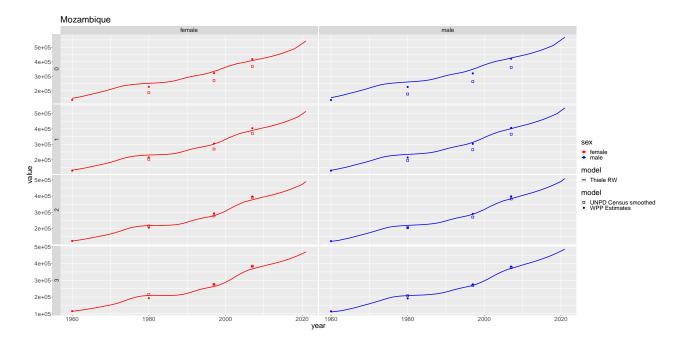


Figure 10: Population

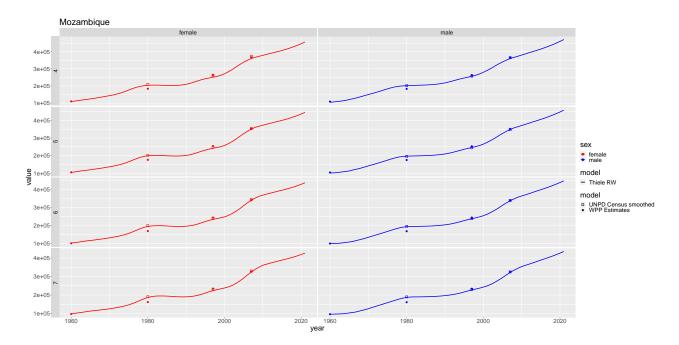


Figure 11: Population

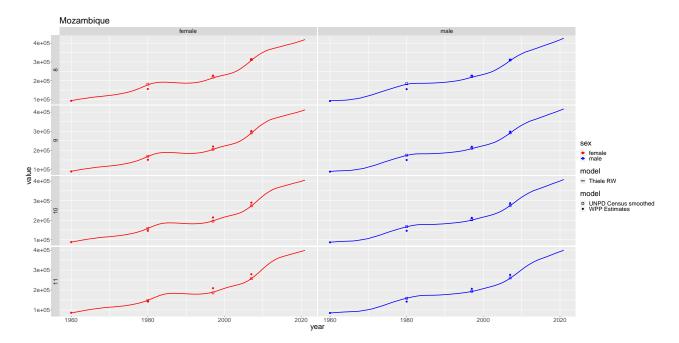


Figure 12: Population

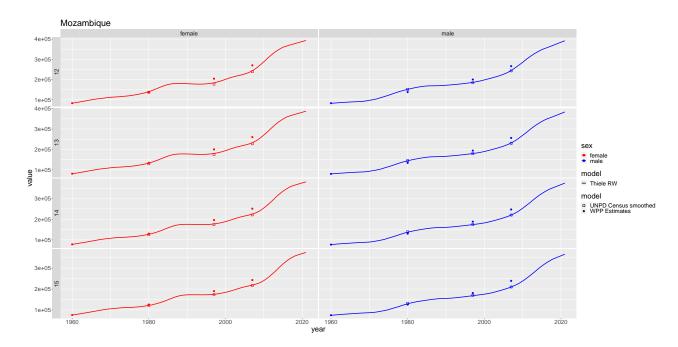


Figure 13: Population

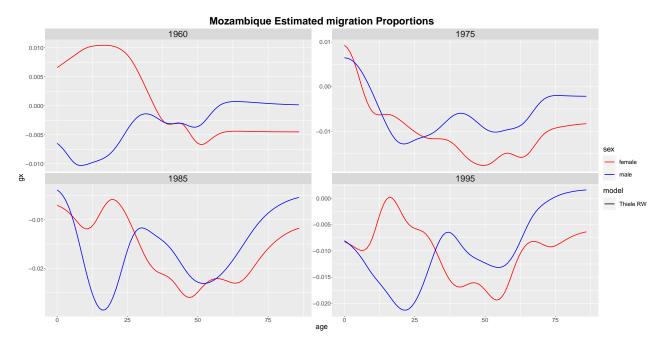


Figure 14: Migration

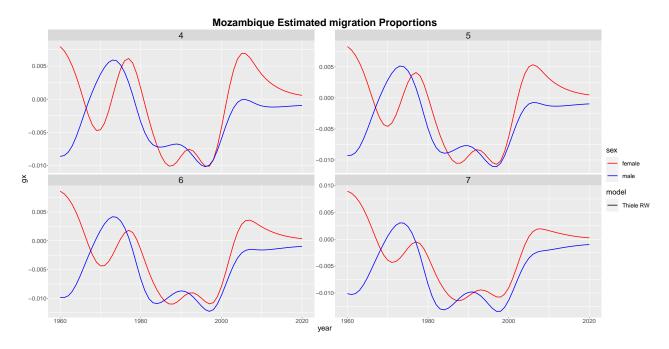


Figure 15: Migration

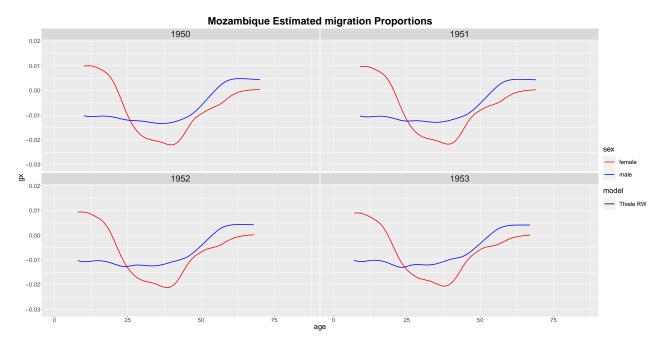


Figure 16: Migration

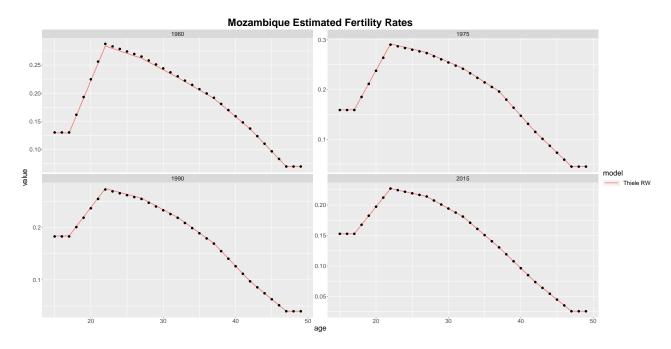


Figure 17: Fertility

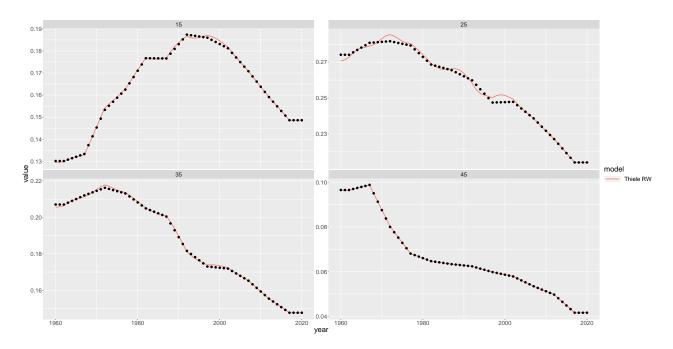


Figure 18: Fertility

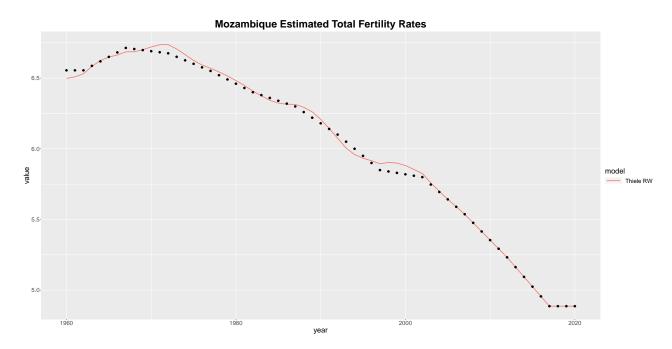


Figure 19: Total Fertility