## Mozambique

```
## [1] "Census Females"
## # A tibble: 86 x 4
        age `1980` `1997` `2007`
##
                     <dbl>
##
      <dbl>
              <dbl>
                               <dbl>
##
   1
          0 187097. 271698 367263.
          1 202640. 269118
          2 214835. 277230 391743.
##
##
          3 215746. 273925. 396545.
##
   5
         4 216252. 268944. 391765.
##
          5 212149. 259871. 380247.
##
   7
          6 202617. 243929. 354236.
          7 193119. 226728. 328750.
## 9
          8 183390. 211520. 308462.
          9 170243. 198028. 282761.
## # ... with 76 more rows
## [1] "Census Females 5-year"
## # A tibble: 18 x 2
##
        age `1970`
##
      <dbl>
              <dbl>
##
   1
          0 723077
##
   2
          5 615358
##
   3
         10 436100.
##
   4
         15 318958.
##
   5
         20 320232.
##
   6
         25 335818
##
   7
         30 319309.
##
   8
         35 277668
##
   9
         40 223728
         45 172490
## 10
## 11
         50 129875
## 12
         55 102099.
## 13
         60 80779
## 14
         65 50631
## 15
         70 19726
## 16
         75 12937
## 17
         80
                NA
## 18
                NA
         85
## [1] "Census Males"
## # A tibble: 86 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. 386290.
   5
          4 207979. 263675. 381308.
          5 204039. 255379. 371563.
##
```

```
##
          6 195738. 241419. 347726.
## 8
          7 189147. 227121. 322684.
## 9
          8 182528. 213909. 304378.
          9 173986. 203146. 281632.
## 10
## # ... with 76 more rows
## [1] "Census Males 5-year"
## # A tibble: 18 x 2
##
        age `1970`
##
      <dbl>
              <dbl>
          0 697822
##
   1
##
   2
          5 652180.
##
   3
         10 503181.
##
   4
         15 360521.
##
   5
         20 305990.
##
   6
         25 282238.
##
   7
         30 262403.
##
   8
         35 239745.
## 9
         40 203729.
## 10
         45 160248.
## 11
         50 116962.
## 12
         55 89211.
         60 74190.
## 13
## 14
         65 50689.
## 15
         70 18859
## 16
         75 10545
## 17
         80
                NA
## 18
         85
                NA
```

## $Thiele\ log\text{-}Normal\ Hump\ Spline$

## [1] "relative convergence (4)"

##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	lo
##	4.13446568	6.14041803	4.00946775	5.17919023	
##	log_dispersion	log_dispersion	$log_lambda_tp$	tp_slope	
##	0.31863577	0.24159372	3.60105435	-0.01750267	
##	log_lambda_phi	log_lambda_psi	log_lambda_A	log_lambda_B	log_la
##	11.32684636	11.30022785	11.20183135	5.24598497	
##	log_lambda_epsilon				
##	4.24732181				

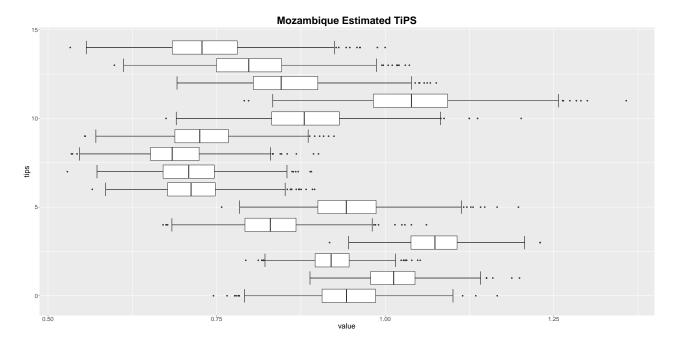


Figure 1: Estimated TiPS

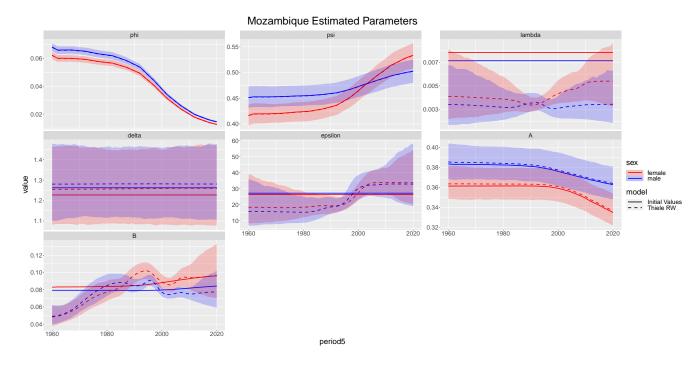


Figure 2: Estimated parameters

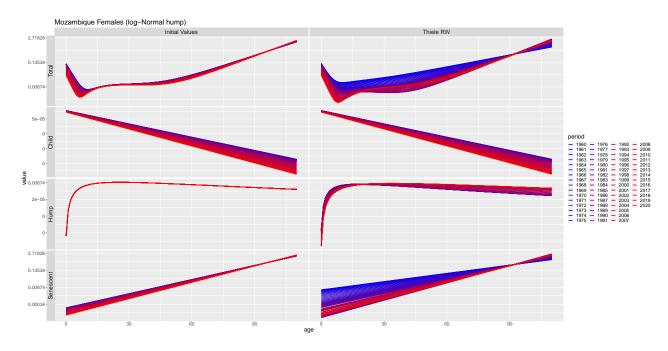


Figure 3: Thiele Decomposed

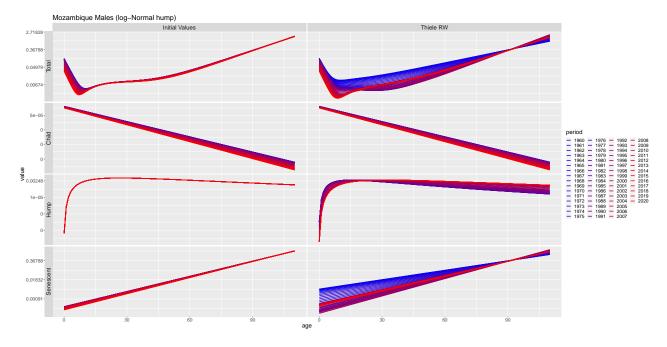


Figure 4: Thiele Decomposed

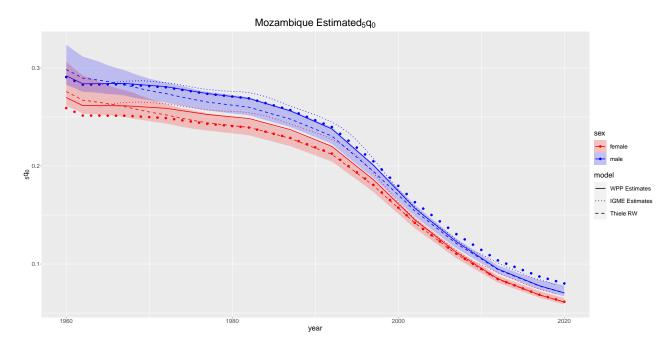


Figure 5: Estimated  $_5q_0$ 

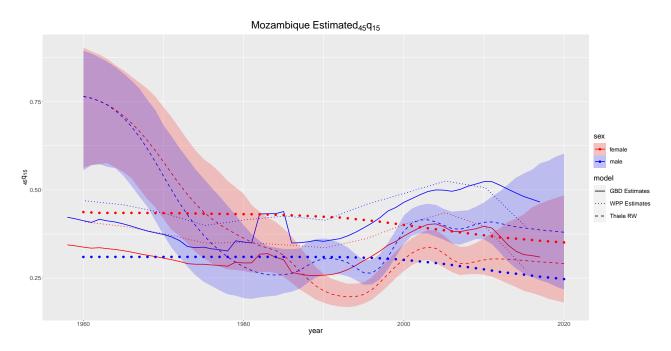


Figure 6: Estimated  $_{45}q_{15}$ 

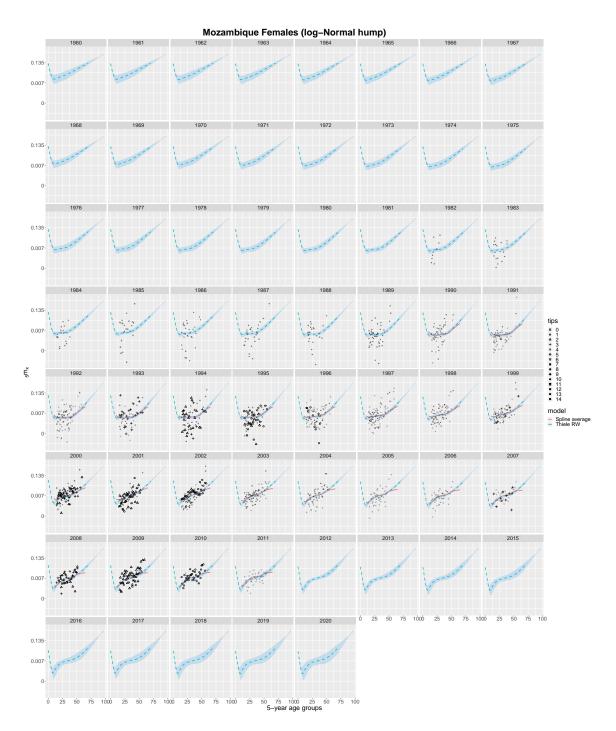


Figure 7: Mortality Schedules

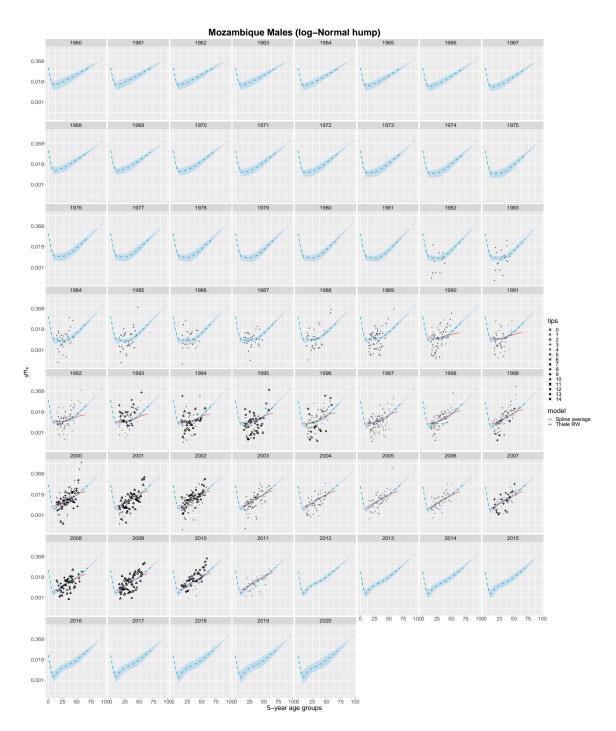


Figure 8: Mortality Schedules

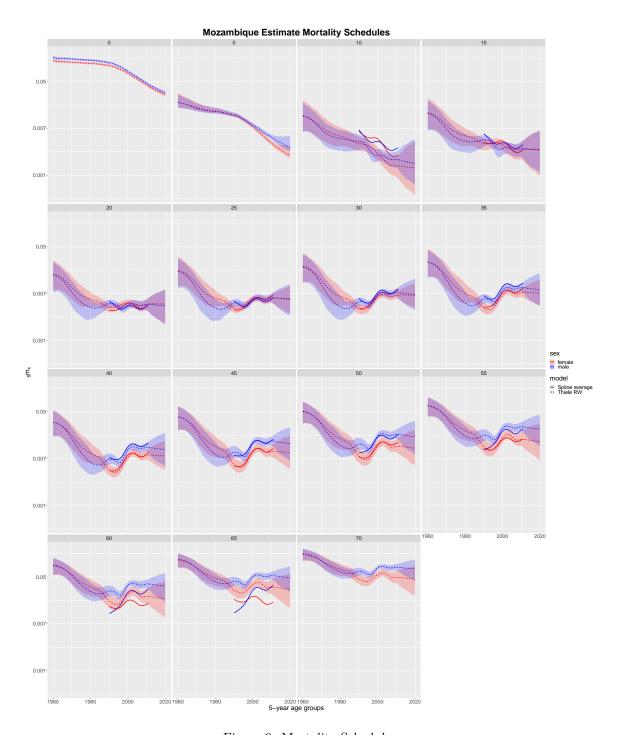


Figure 9: Mortality Schedules

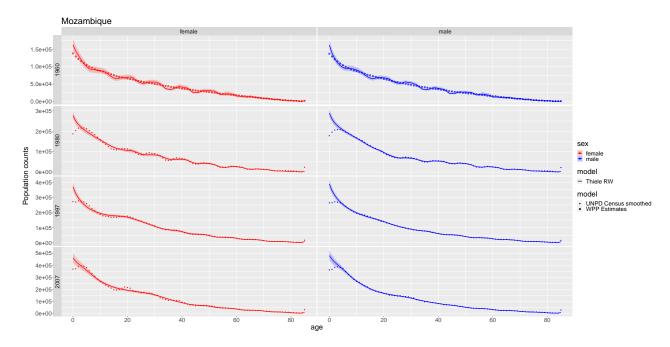


Figure 10: Population

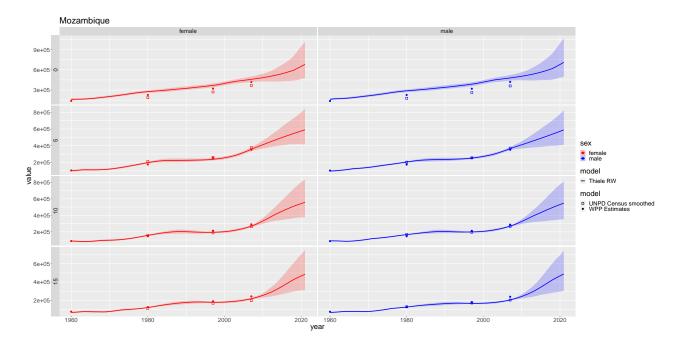


Figure 11: Population

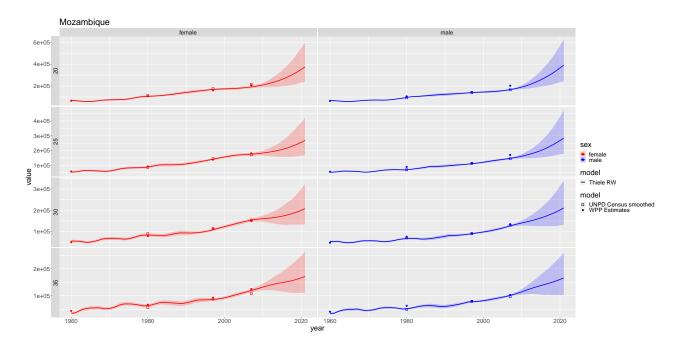


Figure 12: Population

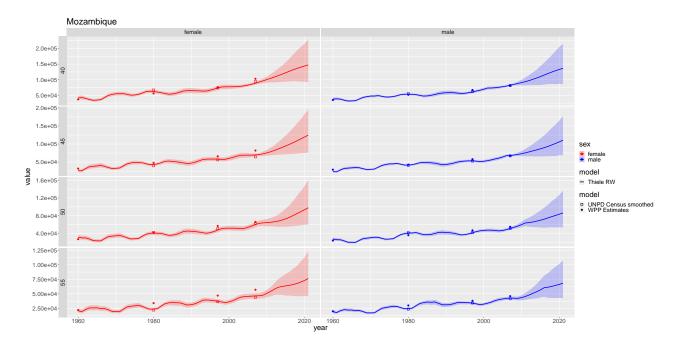
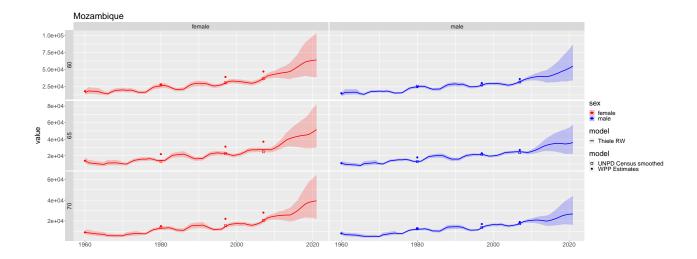


Figure 13: Population



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Figure 14: Population

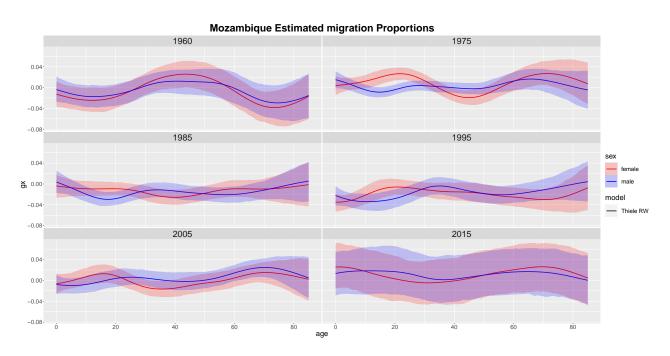


Figure 15: Migration

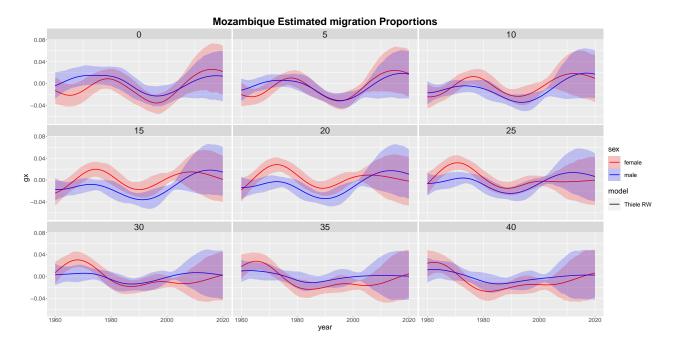


Figure 16: Migration

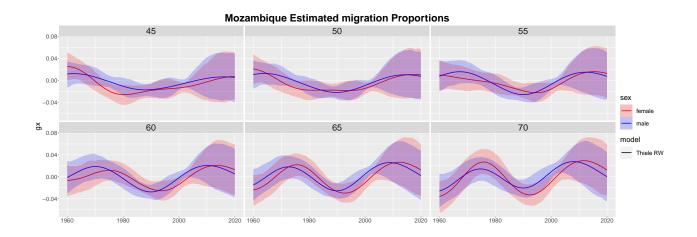


Figure 17: Migration

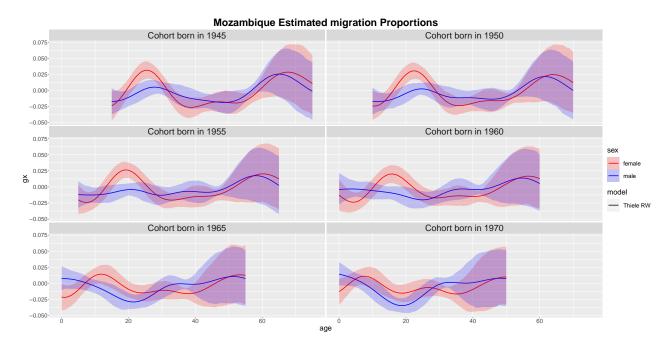


Figure 18: Migration

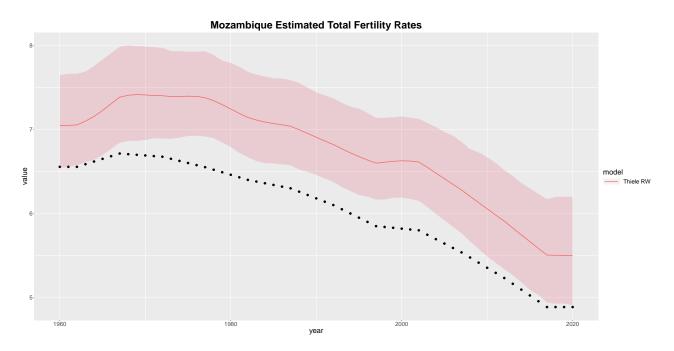


Figure 19: Total Fertility

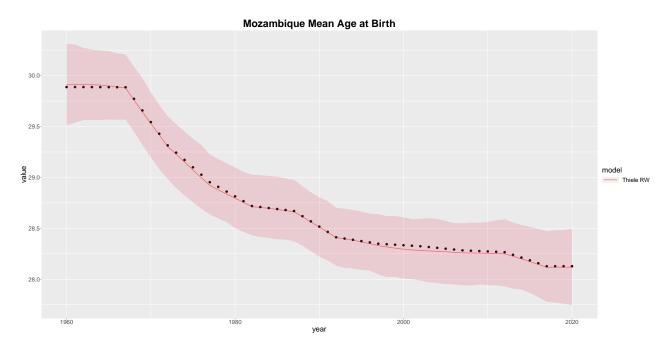


Figure 20: Mean age at births

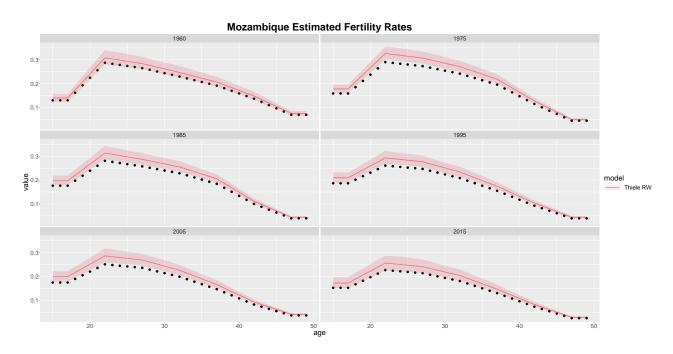


Figure 21: Fertility

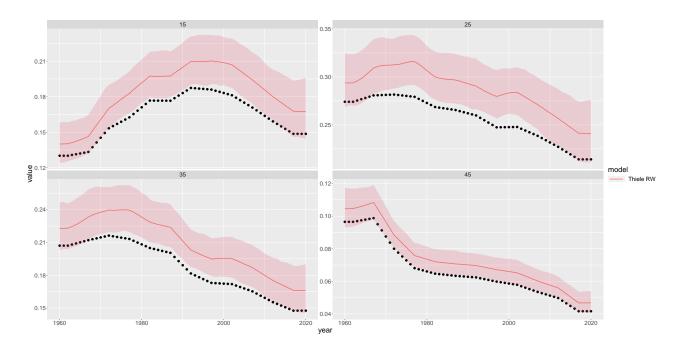


Figure 22: Fertility