Gambia

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

<dbl>

age `1973` `1983` `1993`

0 10161 11895. 17052.

8901. 12009. 17155. 8058. 11952. 17104.

<dbl> <dbl>

<dbl>

##

##

1

2

3

```
7548. 11724. 16896.
##
          3
##
    5
          4
             7194. 11326. 16532.
##
             6938. 10996. 16260.
##
    7
          6
             6734. 10780. 16092.
          7
             6541. 10461. 15787.
##
             6350. 10039. 15343.
##
    9
          8
             6169. 9514. 14763.
##
  10
          9
   # ... with 77 more rows
  [1] "Census Males"
##
   # A tibble: 87 x 4
##
        age `1973` `1983` `1993`
##
      <dbl>
             <dbl> <dbl> <dbl>
##
          0 10239 11939. 17387.
    2
             8856. 12047. 17505.
##
          1
##
             7961. 11993. 17446.
          3
             7434. 11778. 17211.
##
             7054. 11403. 16800.
    5
##
    6
             6773. 11112. 16486.
          5
             6566. 10927. 16289.
          6
##
    8
          7
             6383. 10617. 15947.
    9
             6202 10182. 15459.
##
          8
             6031. 9620. 14825.
## 10
          9
## # ... 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_
##
                    6.497246979
                                                 4.381566313
                                                                               6.367969840
                                                                                                            4.3
##
                  log_tau2_gx_m
                                         log_lambda_gx_age_f
                                                                      log_lambda_gx_age_m
                                                                                                   log_lambda_g
                   3.427391803
##
                                                 3.548209334
                                                                               6.945420572
                                                                                                            6.5
##
       log_lambda_gx_agetime_m
                                               log_lambda_tp log_lambda_tp_0_inflated_sd
                                                                                                       log_disp
##
                    6.907763328
                                                 0.781125553
                                                                               1.782994768
       log_marginal_prec_psi_f
##
                                       log_marginal_prec_A_f
                                                                    log_marginal_prec_B_f
                                                                                                log_marginal_pr
##
                                                 6.802460375
                                                                              -1.123785282
                    4.285573885
                                                                                                            4.3
##
         log_marginal_prec_B_m
                                            log_lambda_phi_f
                                                                         log_lambda_psi_f
                                                                                                    log_lambda_
##
                   -1.434825574
                                                 4.353447616
                                                                               4.316857431
                                                                                                            4.8
##
                log_lambda_A_f
                                              log_lambda_B_f
                                                                          log_lambda_phi_m
                                                                                                       log_lamb
##
                    4.306734464
                                                 2.092072170
                                                                               4.374859891
                                                                                                            4.3
##
          log_lambda_epsilon_m
                                              log_lambda_A_m
                                                                           log_lambda_B_m
                    3.991358542
                                                 4.306889401
                                                                               0.808964942
##
```

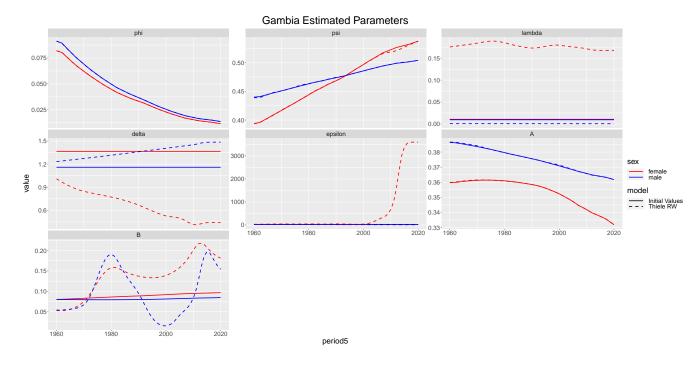


Figure 1: Estimated parameters

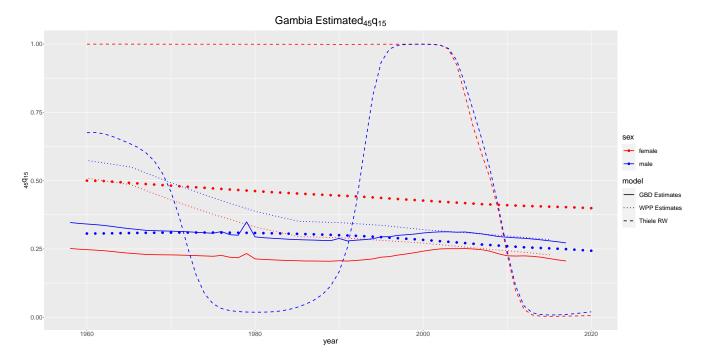


Figure 2: Estimated $_{45}q_{15}$

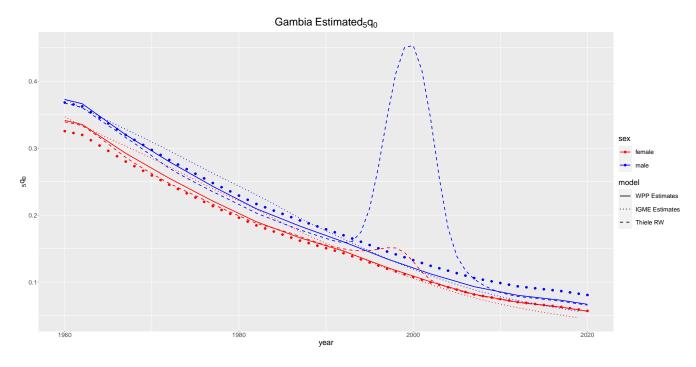


Figure 3: Estimated $_5q_0$

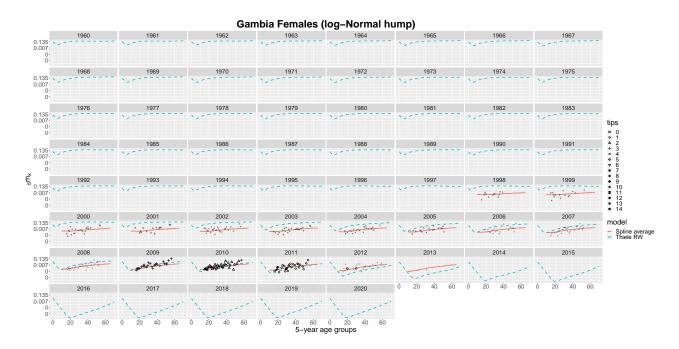


Figure 4: Mortality Schedules

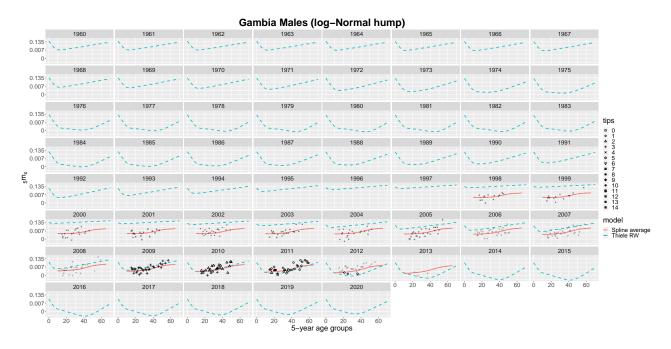


Figure 5: Mortality Schedules

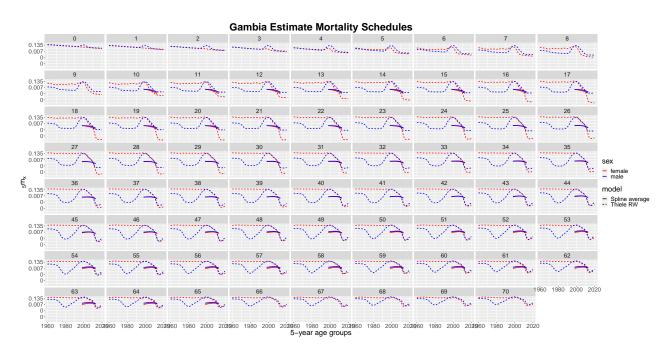


Figure 6: Mortality Schedules

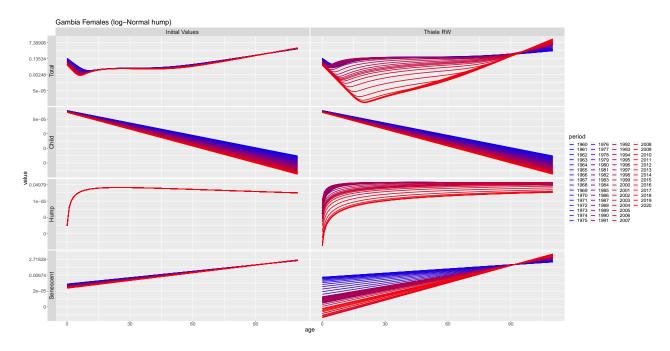


Figure 7: Thiele Decomposed

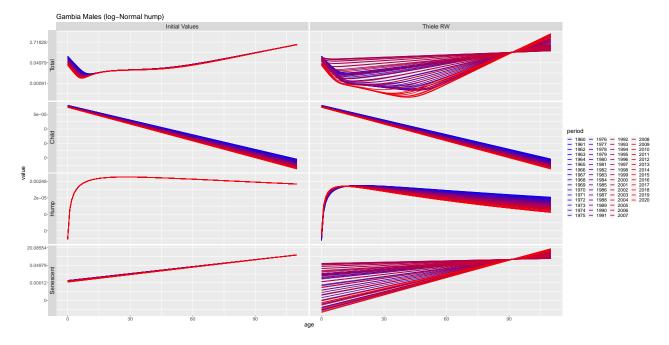


Figure 8: Thiele Decomposed

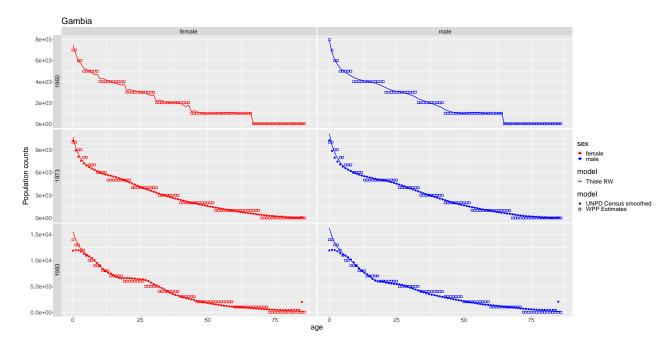


Figure 9: Population

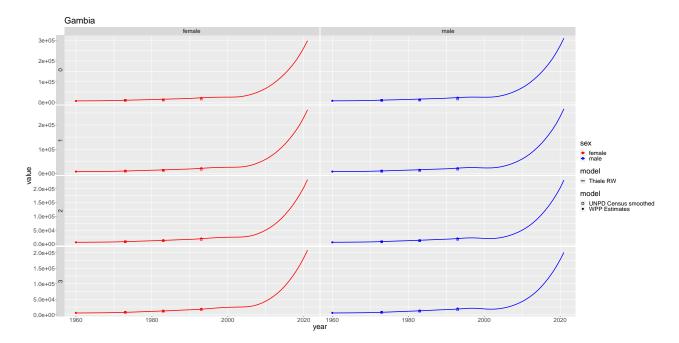


Figure 10: Population

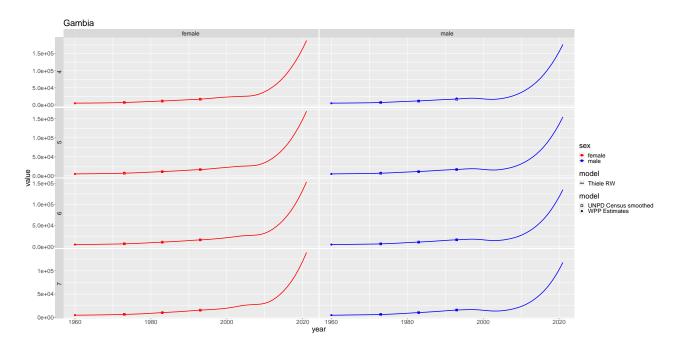


Figure 11: Population

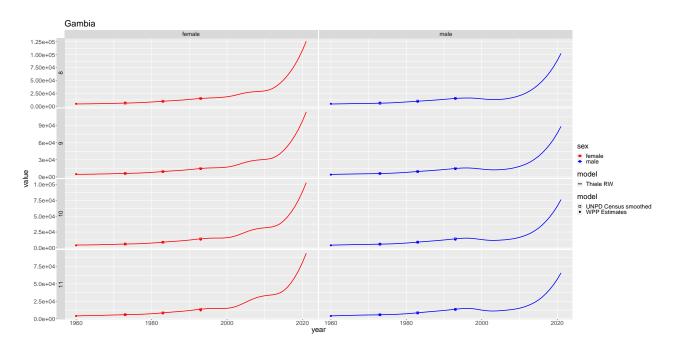


Figure 12: Population

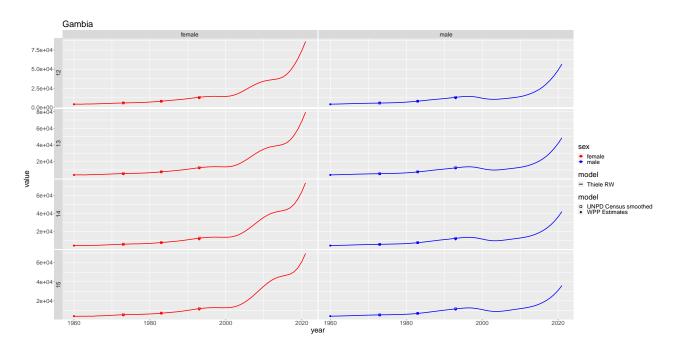


Figure 13: Population

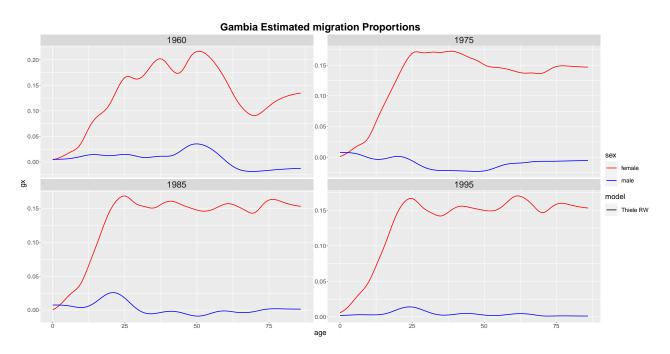


Figure 14: Migration

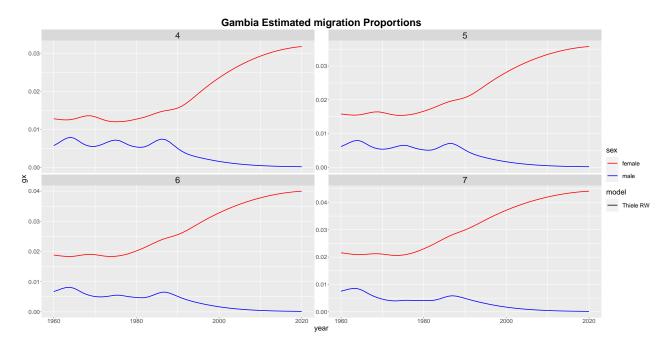


Figure 15: Migration

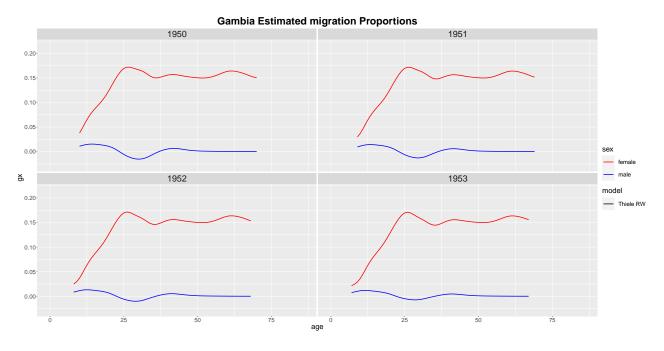


Figure 16: Migration

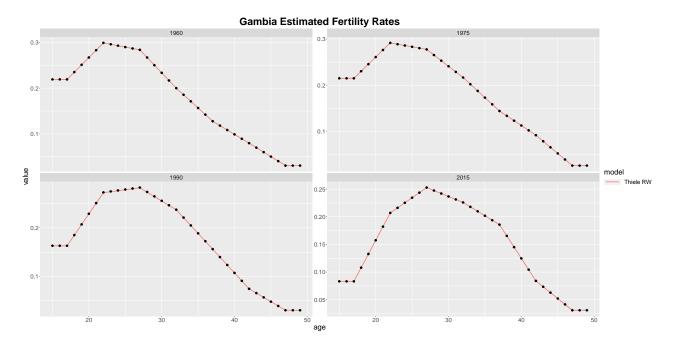


Figure 17: Fertility

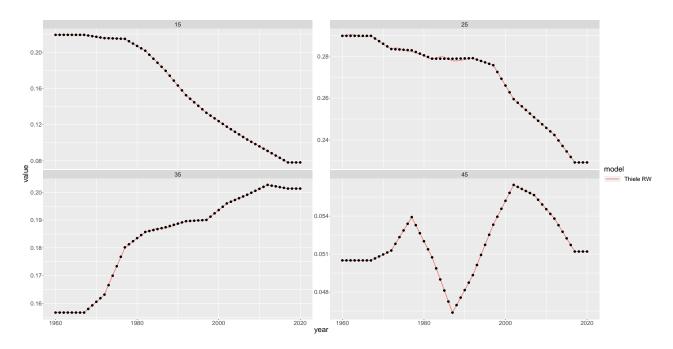


Figure 18: Fertility

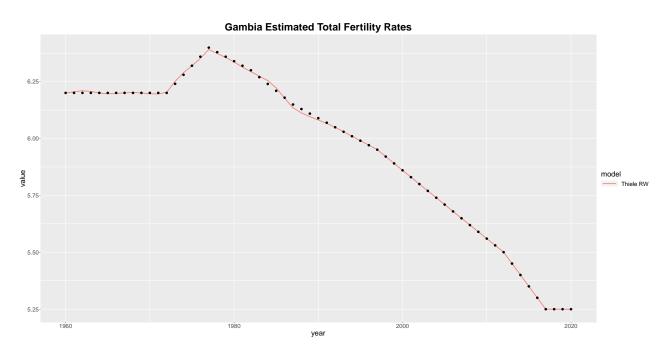


Figure 19: Total Fertility