Cote d'Ivoire

[1] "Census Females" ## # A tibble: 87 x 3

age

<dbl>

1988

<dbl>

0 203715. 386588. 1 216006. 356228. 2 211959. 354545.

3 203480. 348633.

2014

<dbl>

##

##

1

##

```
##
   5
          4 195529. 339395.
          5 185336. 326126.
##
          6 176132. 316320.
          7 166192. 305782.
          8 157365. 293768.
##
          9 147985. 282366.
## # ... with 77 more rows
## [1] "Census Males"
  # A tibble: 87 x 3
             1988
##
        age
                      2014
##
      <dbl>
              <dbl>
                       <dbl>
##
          0 208188. 405054.
          1 223072. 381633.
##
          2 218092. 378865.
##
          3 209725. 372798.
          4 202228. 362544.
          5 191795. 348987.
          6 182735. 339867.
          7 173216. 329715.
##
   8
          8 165005. 318376.
          9 155815. 307829.
## 10
## # ... 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
##
                     6.0464258
                                                   4.9900419
                                                                                 6.0588716
##
                 log_tau2_gx_m
                                        log_lambda_gx_age_f
                                                                      log_lambda_gx_age_m
                                                                                                   log_lambda_g
##
                      3.5259395
                                                   7.9932450
                                                                                 7.9202232
##
       log_lambda_gx_agetime_m
                                               log_lambda_tp log_lambda_tp_0_inflated_sd
                                                                                                       log_disp
##
                      6.9077421
                                                   1.8987540
                                                                                -1.8477735
##
       log_marginal_prec_psi_f
                                      log_marginal_prec_A_f
                                                                    log_marginal_prec_B_f
                                                                                                log_marginal_pr
##
                                                   6.7981346
                                                                                 6.7267481
                     4.3036721
##
         log_marginal_prec_B_m
                                            log_lambda_phi_f
                                                                         log_lambda_psi_f
                                                                                                    log_lambda
##
                      3.1945321
                                                   4.3661236
                                                                                 4.3311974
##
                log_lambda_A_f
                                              log_lambda_B_f
                                                                         log_lambda_phi_m
                                                                                                       log_lamb
##
                      4.3065398
                                                   4.3022129
                                                                                 4.3882172
##
          log_lambda_epsilon_m
                                              log_lambda_A_m
                                                                           log_lambda_B_m
                      4.4898091
                                                   4.3077277
                                                                                 4.3717073
##
```

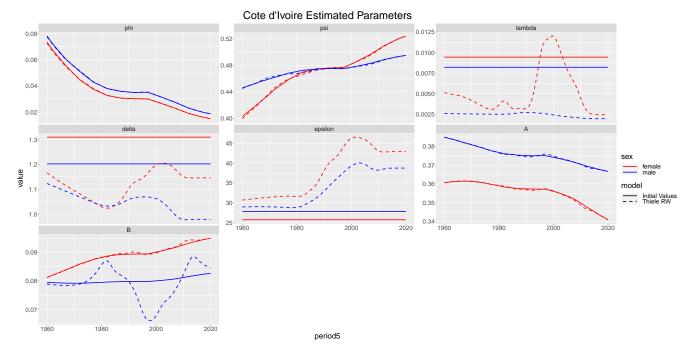


Figure 1: Estimated parameters

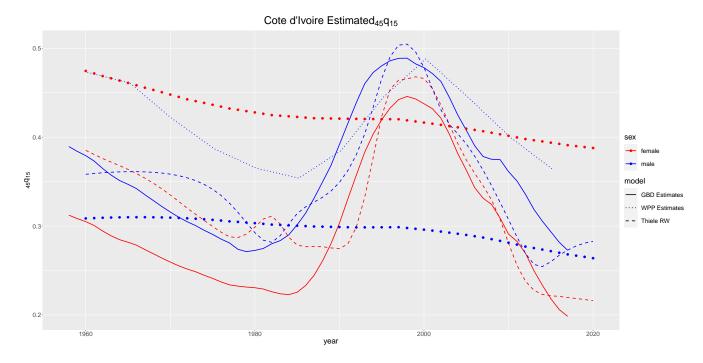


Figure 2: Estimated $_{45}q_{15}$

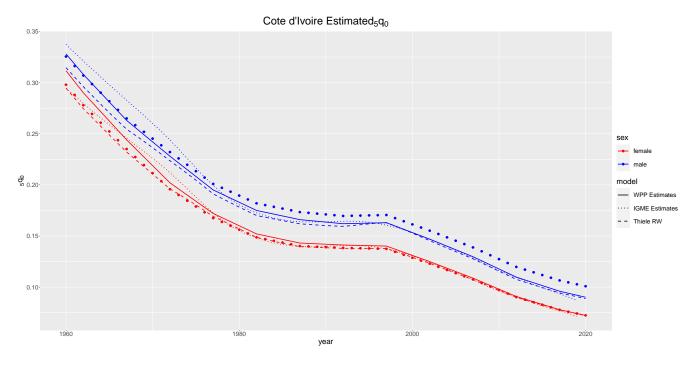


Figure 3: Estimated $_5q_0$

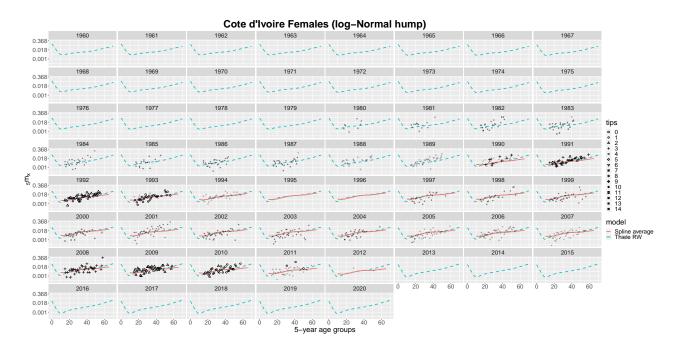


Figure 4: Mortality Schedules

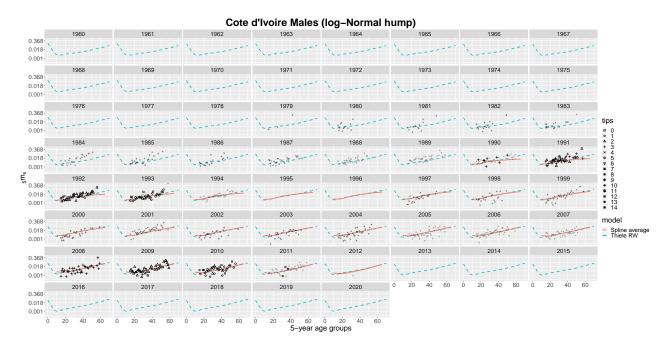


Figure 5: Mortality Schedules

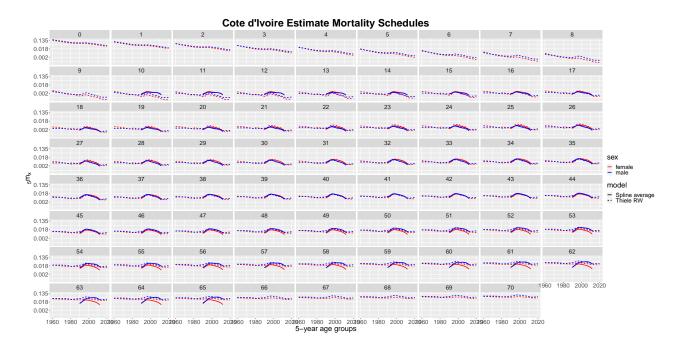


Figure 6: Mortality Schedules

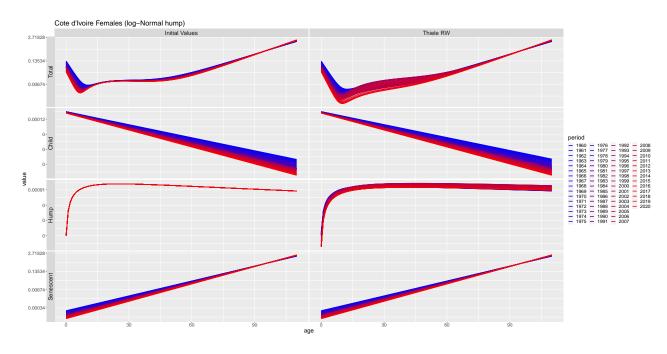


Figure 7: Thiele Decomposed

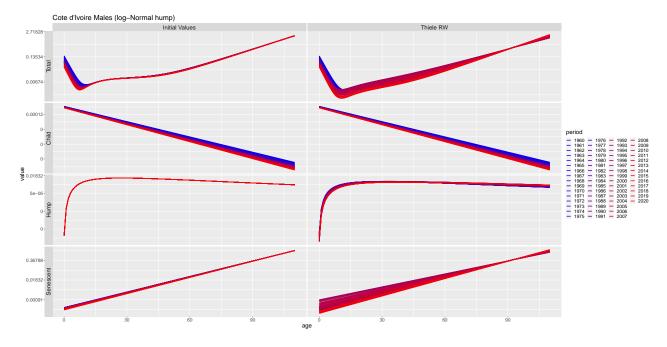


Figure 8: Thiele Decomposed

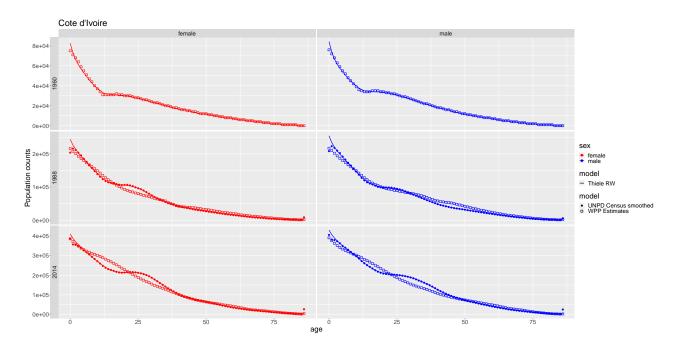


Figure 9: Population

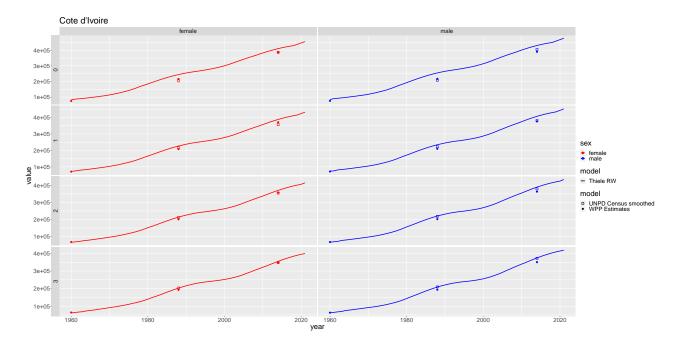


Figure 10: Population

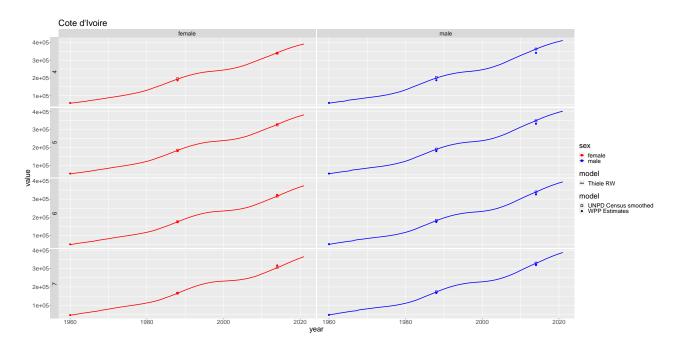


Figure 11: Population

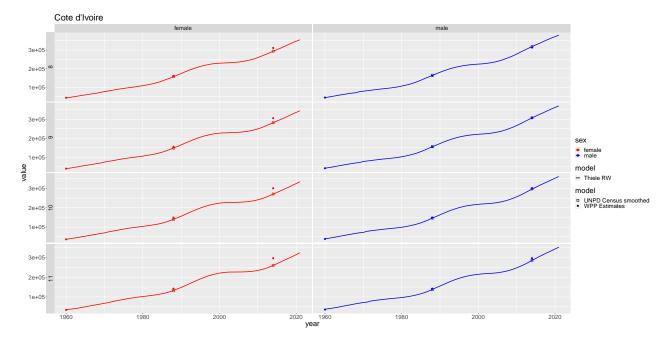


Figure 12: Population

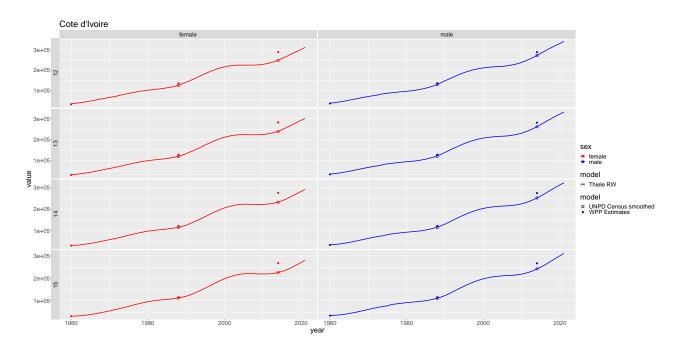


Figure 13: Population

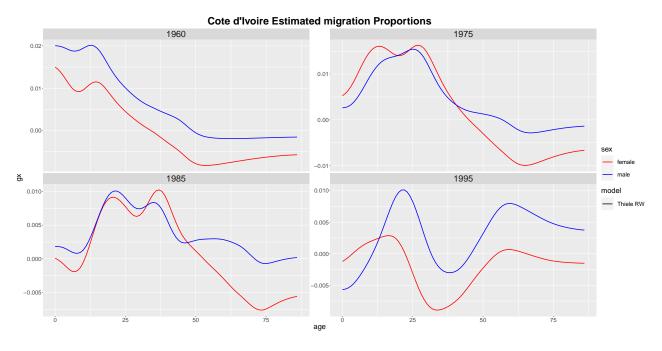


Figure 14: Migration

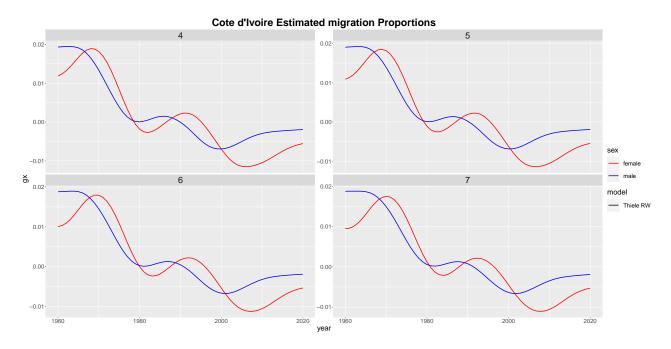


Figure 15: Migration

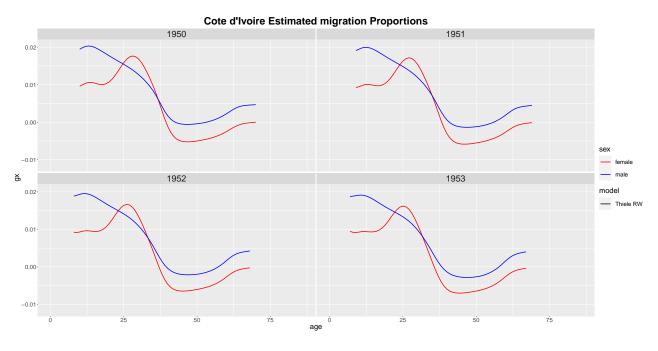


Figure 16: Migration

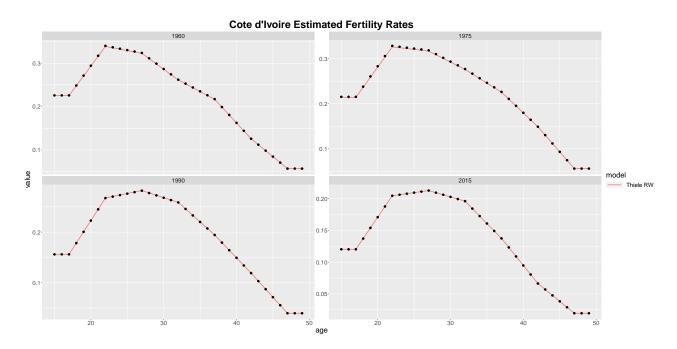


Figure 17: Fertility

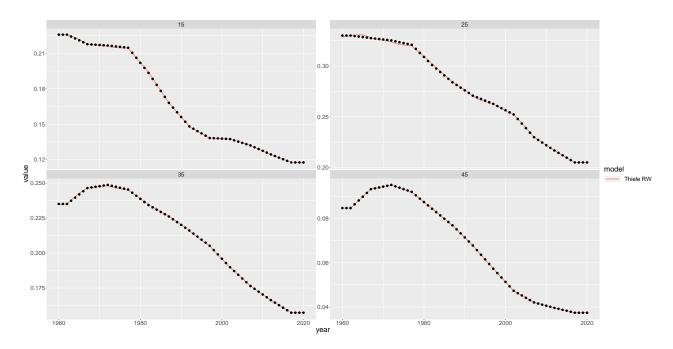


Figure 18: Fertility

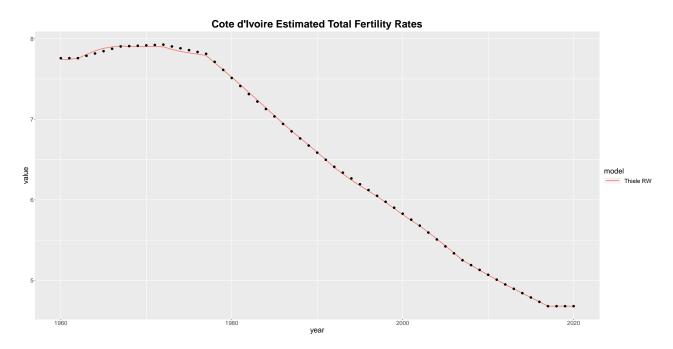


Figure 19: Total Fertility