Angola

[1] "Census Females" ## # A tibble: 87 x 2

age

<dbl>

2014

0 438929

1 529096.

2 512564

3 503159.

4 482890.

<dbl>

##

##

1

##

4 ## 5

2

3

```
5 467691.
##
   7
          6 444757.
          7 420007.
##
          8 395598
   9
          9 371973.
## 10
## # ... with 77 more rows
## [1] "Census Males"
   # A tibble: 87 x 2
             2014
##
        age
##
      <dbl>
              <dbl>
##
   1
          0 435201
   2
          1 523750.
##
          2 506322.
##
          3 496824.
          4 476364.
##
          5 461347.
          6 438334.
##
   8
          7 412996.
          8 388362.
          9 364539.
## 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
##
                      5.3164540
                                                   4.1571053
                                                                                 5.3289601
##
                 log_tau2_gx_m
                                         log_lambda_gx_age_f
                                                                      log_lambda_gx_age_m
                                                                                                   log_lambda_g
##
                      3.6723612
                                                   7.6572342
                                                                                 7.8027012
##
       log_lambda_gx_agetime_m
                                               log_lambda_tp log_lambda_tp_0_inflated_sd
                                                                                                       log_disp
##
                      6.9077579
                                                   2.4834817
                                                                                 0.6198622
##
       log_marginal_prec_psi_f
                                       log_marginal_prec_A_f
                                                                    log_marginal_prec_B_f
                                                                                                log_marginal_pr
##
                      4.3173346
                                                   6.7933779
                                                                                 6.6869692
##
         log_marginal_prec_B_m
                                            log_lambda_phi_f
                                                                          log_lambda_psi_f
                                                                                                    log_lambda
##
                      6.9234302
                                                   4.3313841
                                                                                 4.3183244
##
                log_lambda_A_f
                                              log_lambda_B_f
                                                                          log_lambda_phi_m
                                                                                                       log_lamb
##
                      4.3062472
                                                   4.2997146
                                                                                 4.3510404
##
          log_lambda_epsilon_m
                                              log_lambda_A_m
                                                                            log_lambda_B_m
                      4.5253056
                                                   4.3072125
                                                                                 4.3121486
##
```

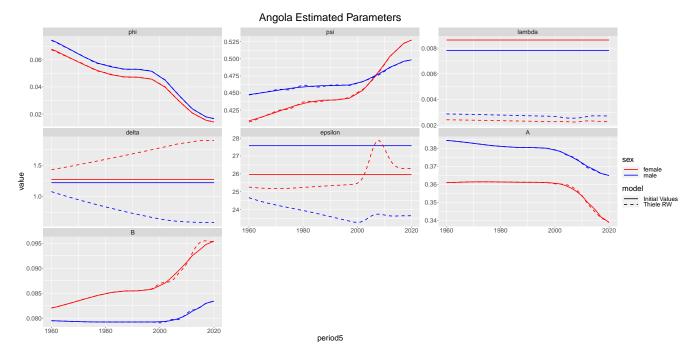


Figure 1: Estimated parameters



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

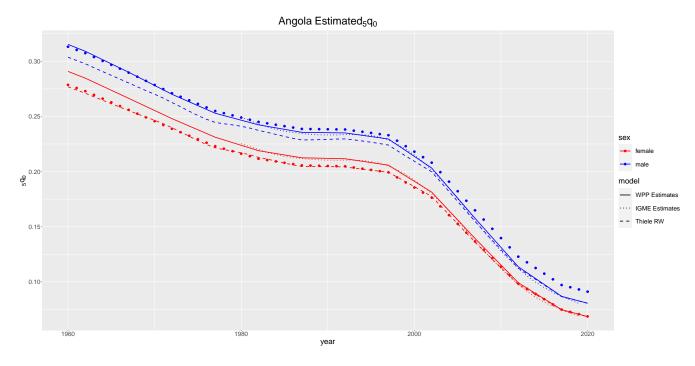


Figure 3: Estimated $_5q_0$

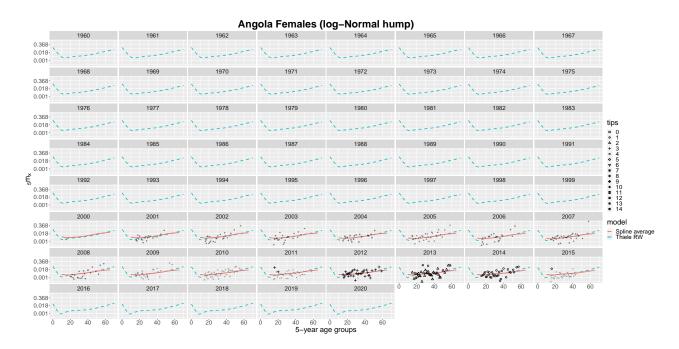


Figure 4: Mortality Schedules

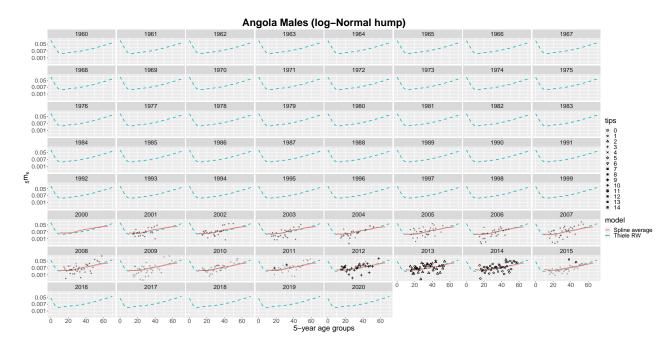


Figure 5: Mortality Schedules

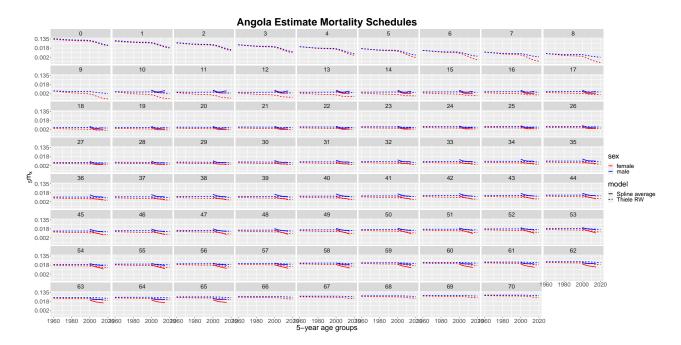


Figure 6: Mortality Schedules

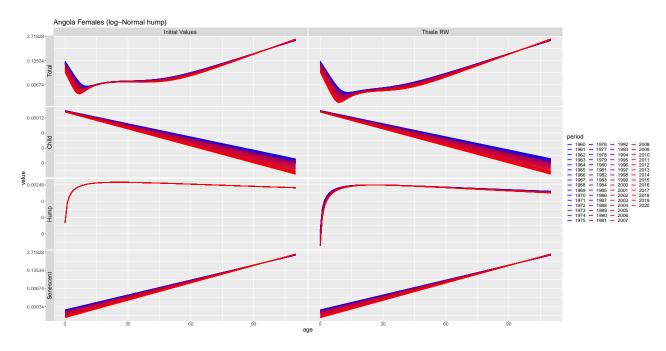


Figure 7: Thiele Decomposed

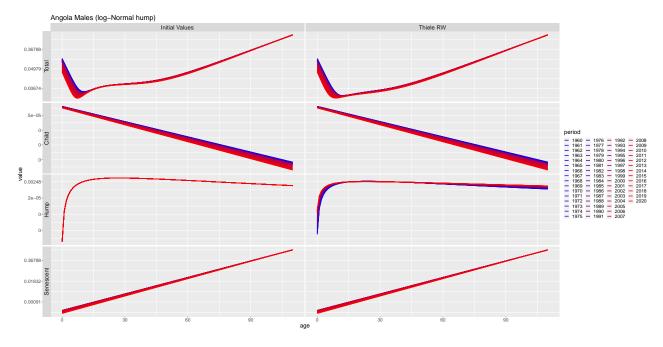
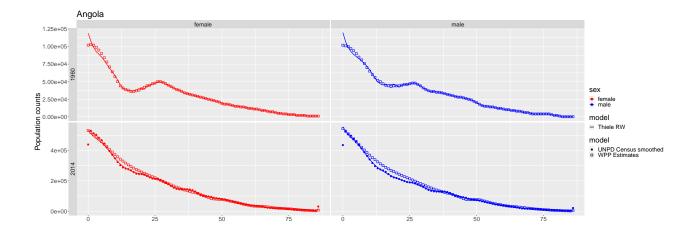


Figure 8: Thiele Decomposed



age

Figure 9: Population

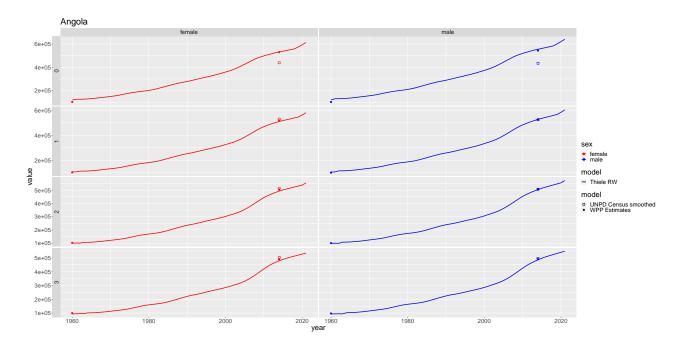


Figure 10: Population

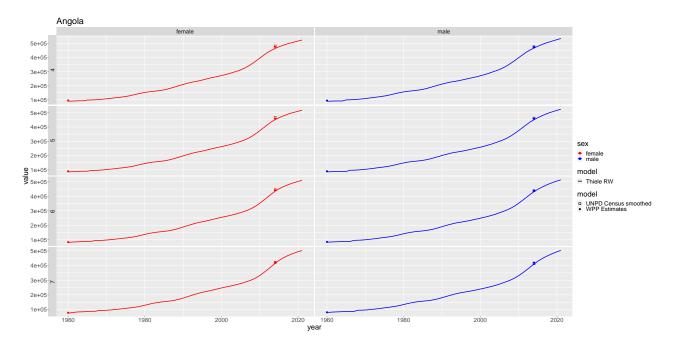


Figure 11: Population

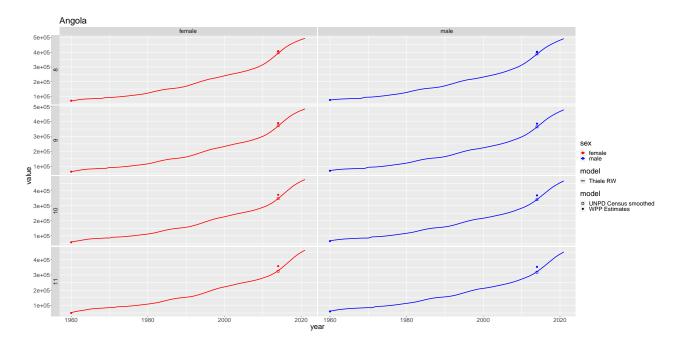


Figure 12: Population

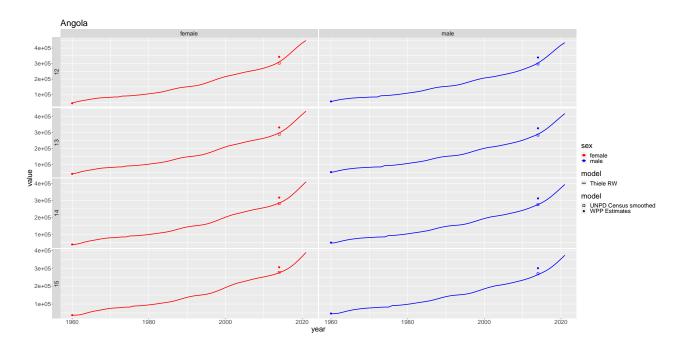


Figure 13: Population

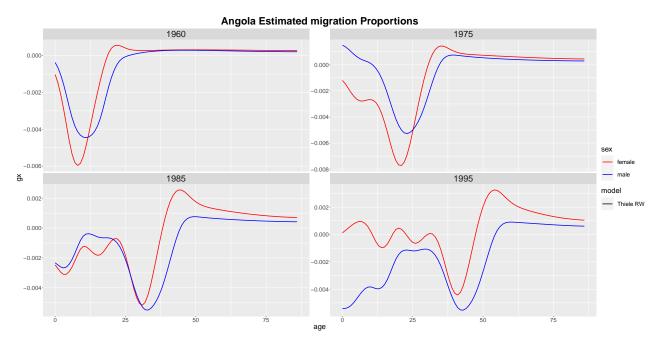


Figure 14: Migration

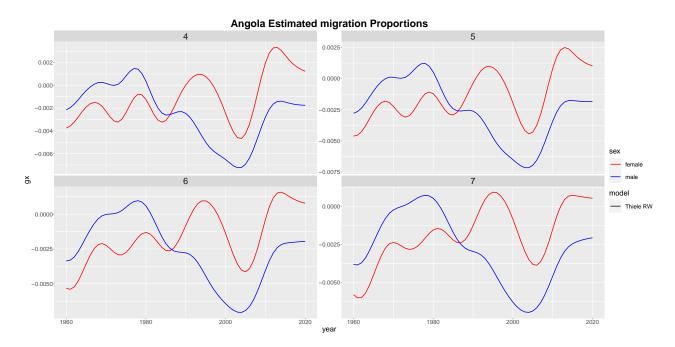


Figure 15: Migration

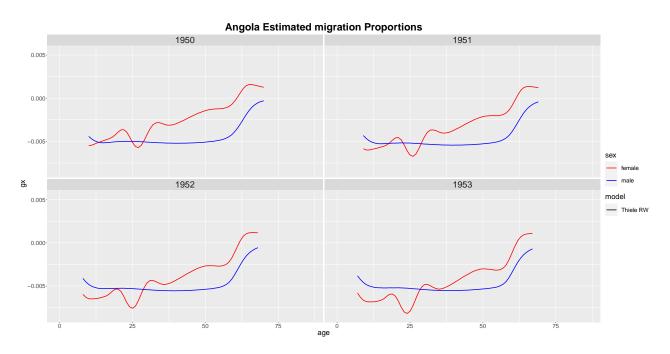


Figure 16: Migration

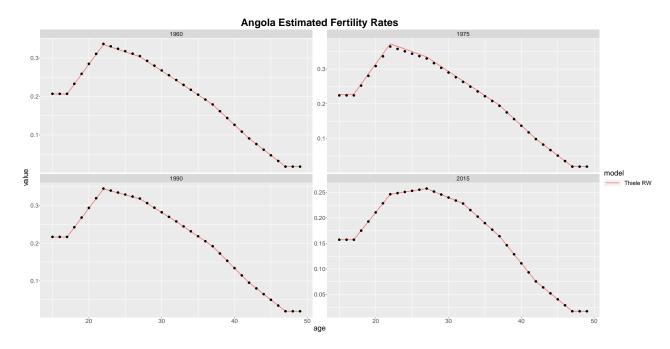


Figure 17: Fertility

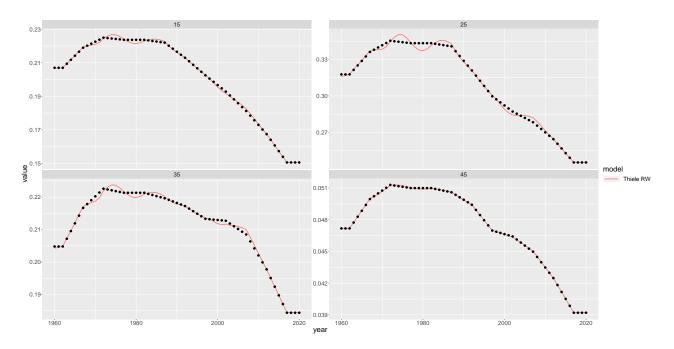


Figure 18: Fertility

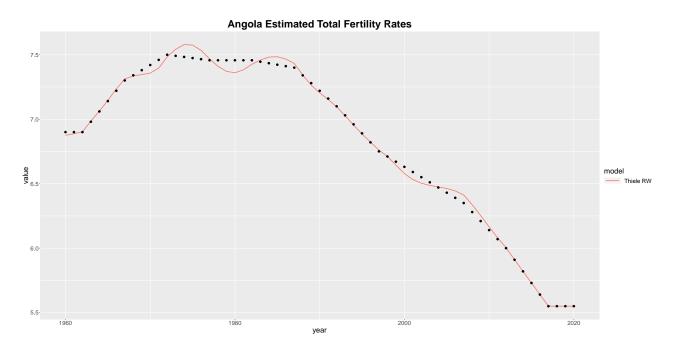


Figure 19: Total Fertility