## Cameroon

```
## [1] "Census Females"
## # A tibble: 86 x 2
       age `2005`
##
            <dbl>
      <dbl>
##
##
   1
         0 337748
##
   2
         1 306850.
##
   3
          2 289908.
##
          3 282849.
##
   5
        4 274259.
##
   6
          5 265117.
##
   7
          6 254493.
##
         7 245594.
## 9
          8 239763.
## 10
          9 232630.
## # ... with 76 more rows
## [1] "Census Females 5-year"
## # A tibble: 18 x 2
##
        age `1976`
##
      <dbl>
             <dbl>
##
   1
        0 605118.
##
   2
         5 512635.
##
   3
        10 411125.
##
   4
        15 345677.
##
   5
         20 305370.
         25 269228.
##
   6
##
   7
         30 240773.
##
  8
         35 215240.
## 9
         40 183224.
## 10
         45 149331.
## 11
         50 118695.
## 12
         55 92248.
## 13
         60 69672.
## 14
         65 48846.
## 15
         70 34361.
## 16
         75 23450.
## 17
         80 15762.
## 18
         85 16650.
## [1] "Census Males"
## # A tibble: 86 x 2
##
        age `2005`
##
      <dbl>
              <dbl>
##
   1
          0 343296
   2
##
          1 315010.
##
   3
          2 296499.
##
   4
          3 290401
##
   5
          4 281627.
```

5 272737.

##

6

```
## 7
          6 262914.
## 8
         7 254492.
## 9
          8 249144.
## 10
          9 241906.
## # ... with 76 more rows
## [1] "Census Males 5-year"
## # A tibble: 18 x 2
##
        age `1976`
##
      <dbl>
              <dbl>
##
   1
          0 611324.
##
   2
         5 530589.
##
   3
        10 431534.
##
   4
        15 336850.
## 5
         20 266002.
         25 221801.
##
   6
## 7
        30 198387.
## 8
         35 184225.
## 9
         40 165759.
## 10
         45 142701.
## 11
         50 117673.
## 12
         55 93580.
## 13
         60 71082.
## 14
         65 48797.
## 15
         70 32937.
## 16
         75 22064.
         80 14288.
## 17
## 18
         85 17413.
```

## Thiele log-Normal Hump Spline

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

## ##	log_tau2_logpop 4.65020592	log_tau2_logpop 5.54023900	log_tau2_logpop 4.69527377	log_tau2_logpop 5.47897188	log_lambda_fx 6.79311072	log 1
##	log_lambda_tp	tp_slope	tp_params_5	tp_params_10	log_lambda_phi	log_
##	3.14032518	-0.03215968		0.65913612	12.61223460	1:
##	$log_lambda_lambda$	log_lambda_delta	log_lambda_epsilon			
##	3.58582628	8.01388892	4.86076226			

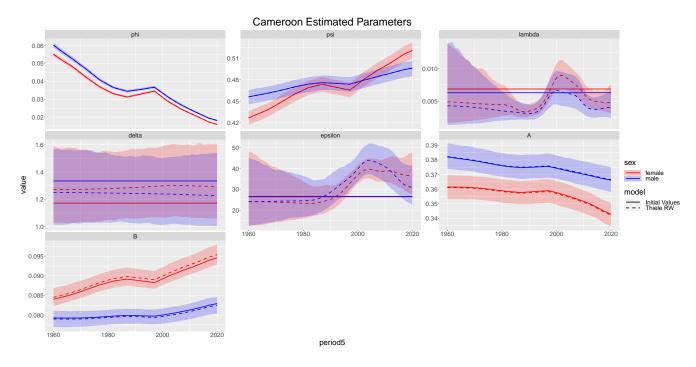


Figure 1: Estimated parameters

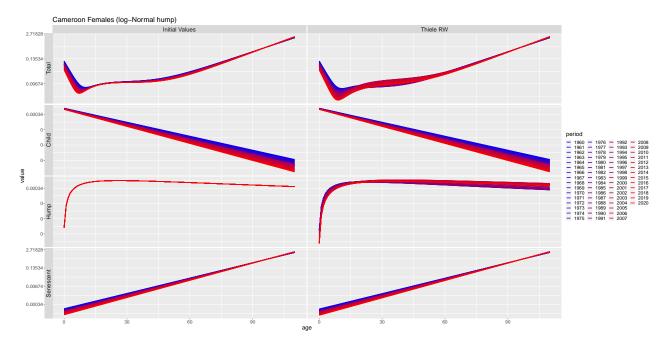


Figure 2: Thiele Decomposed

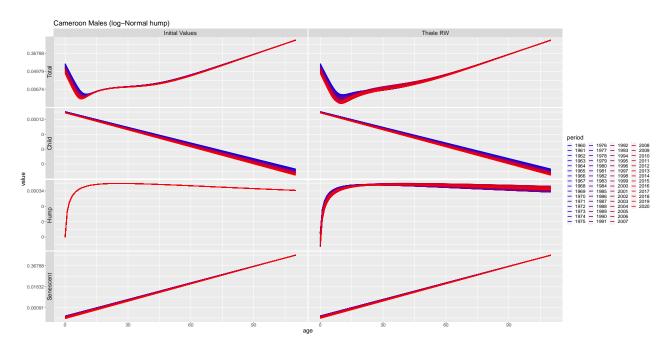


Figure 3: Thiele Decomposed

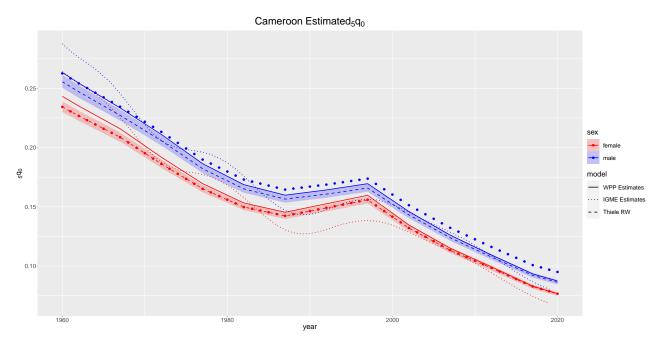


Figure 4: Estimated  $_5q_0$ 

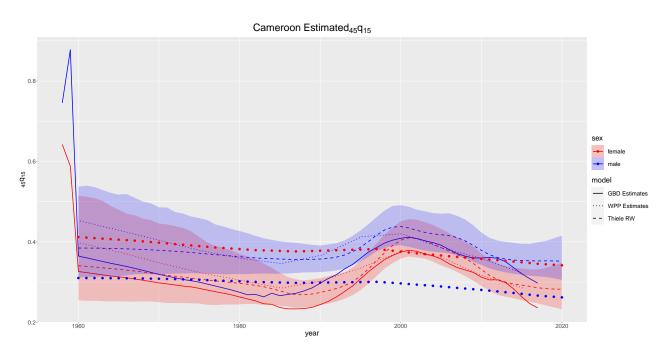


Figure 5: Estimated  $_{45}q_{15}$ 

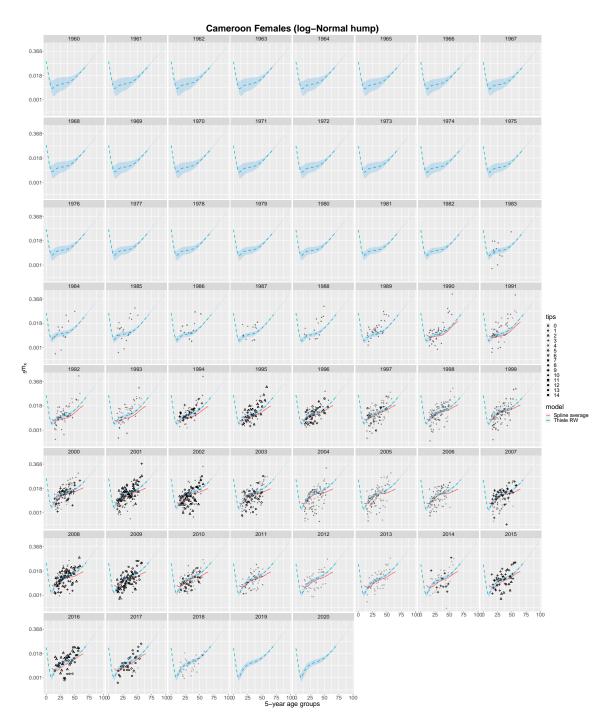


Figure 6: Mortality Schedules

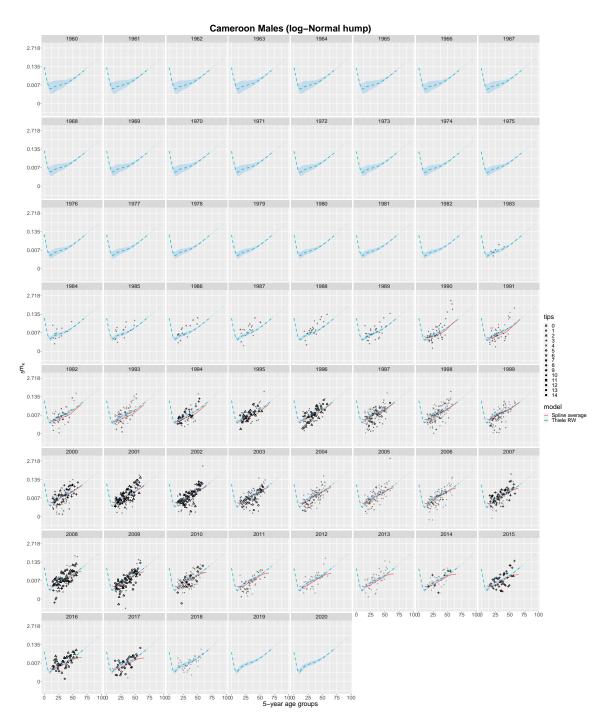


Figure 7: Mortality Schedules

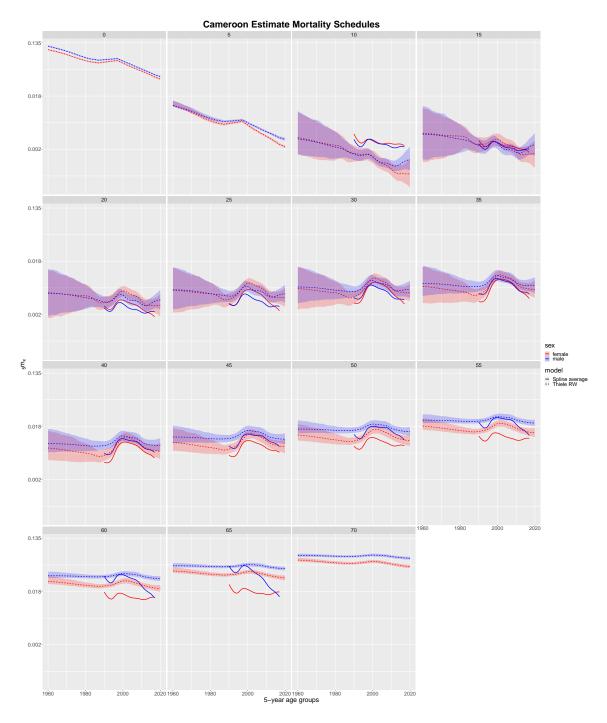


Figure 8: Mortality Schedules

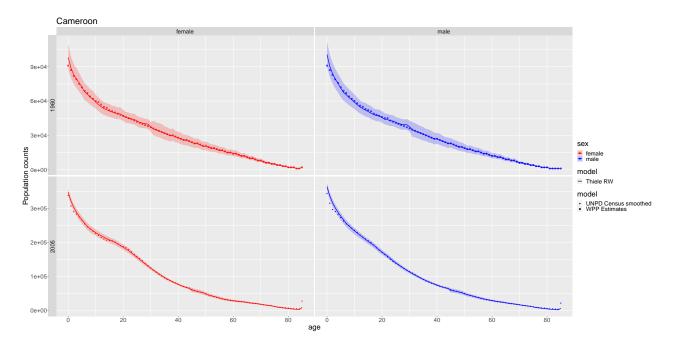


Figure 9: Population

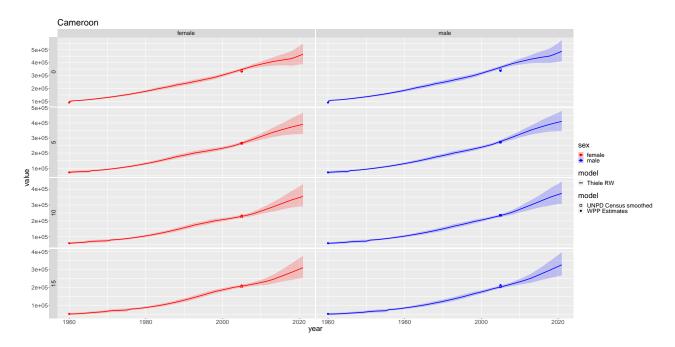


Figure 10: Population

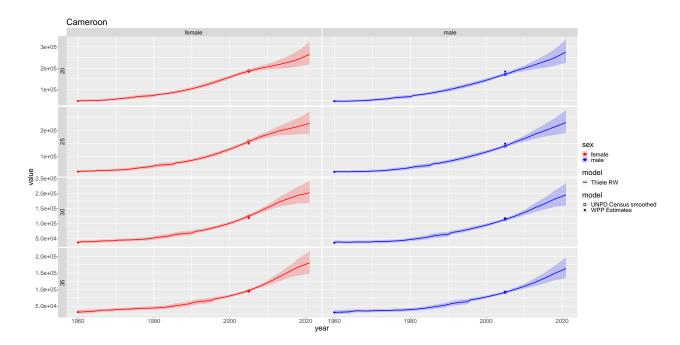


Figure 11: Population

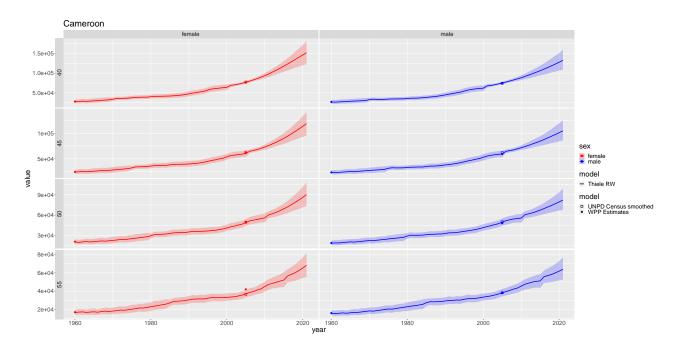
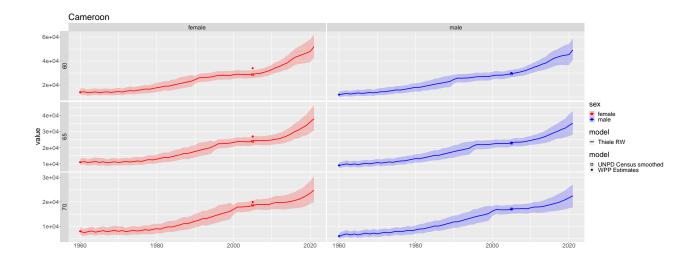


Figure 12: Population



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Figure 13: Population

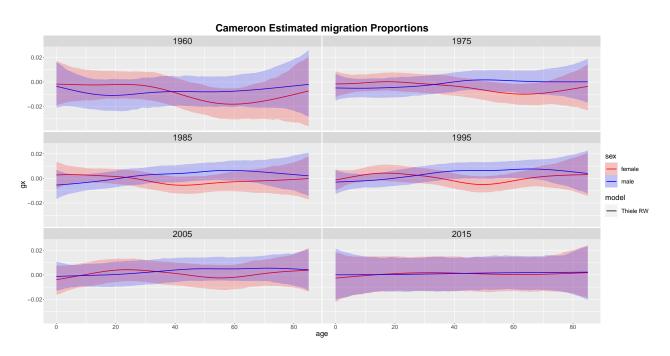


Figure 14: Migration

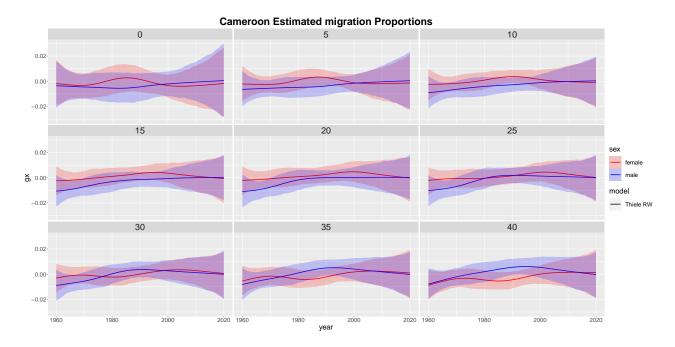


Figure 15: Migration

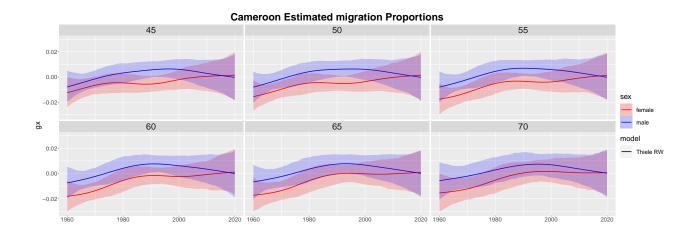


Figure 16: Migration

year

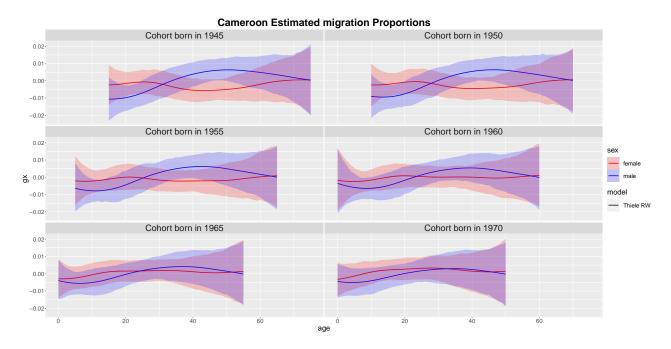


Figure 17: Migration

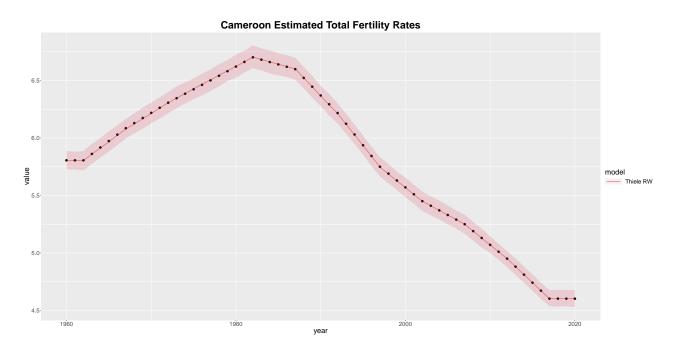


Figure 18: Total Fertility

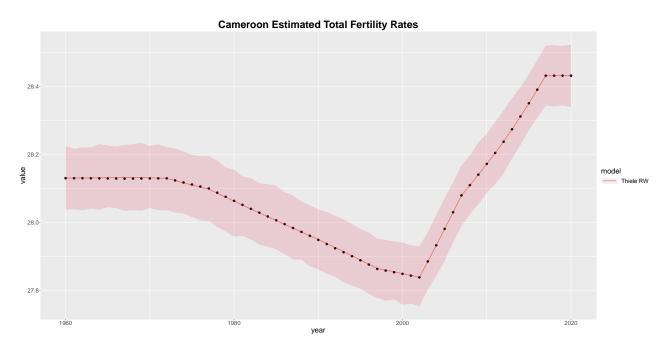


Figure 19: Mean age at births

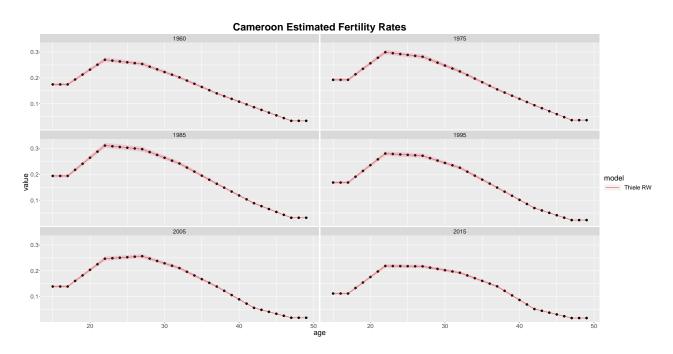


Figure 20: Fertility

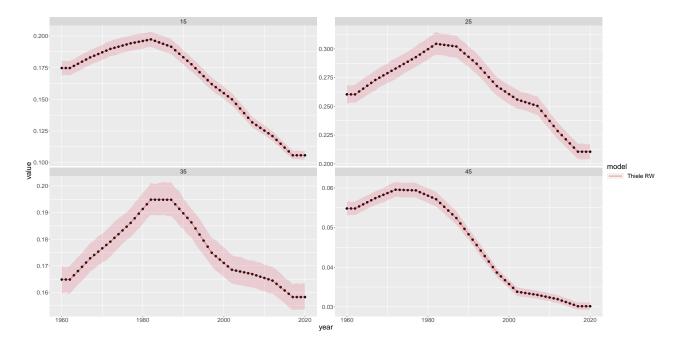


Figure 21: Fertility