Cameroon

```
## [1] "Census Females"
```

```
## # A tibble: 87 x 2
##      age  `2005`
##    <dbl>   <dbl>
## 1      0  337748
## 2      1 306850.
## 3      2 289908.
## 4      3 282849.
## 5      4 274259.
## 6      5 265117.
## 7      6 254493.
## 8      7 245594.
## 9      8 239763.
## 10     9 232630.
## # ... with 77 more rows
```

```
## [1] "Census Males"
```

```
## # A tibble: 87 x 2
##      age  `2005`
##    <dbl>   <dbl>
## 1      0  343296
## 2      1 315010.
## 3      2 296499.
## 4      3  290401
## 5      4 281627.
## 6      5 272737.
## 7      6 262914.
## 8      7 254492.
## 9      8 249144.
## 10     9 241906.
## # ... 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_
##                   5.3471308                4.6200215                5.3508046                    4
##           log_tau2_gx_m        log_lambda_gx_age_f        log_lambda_gx_age_m          log_lambda_g
##                   3.6630312                8.0618346                8.0225151                    7
##       log_lambda_gx_agetime_m          log_lambda_tp log_lambda_tp_0_inflated_sd           log_disp
##                   6.9077460                1.8549015               -2.2601268                    0
##       log_marginal_prec_psi_f      log_marginal_prec_A_f      log_marginal_prec_B_f      log_marginal_pr
##                   4.3031224                6.7958559                6.8060818                    4
##          log_marginal_prec_B_m          log_lambda_phi_f          log_lambda_psi_f            log_lambda_
##                   4.8386763                4.3363105                4.3157651                    2
##              log_lambda_A_f            log_lambda_B_f          log_lambda_phi_m            log_lamb
##                   4.3077294                4.3195014                4.3418197                    4
##          log_lambda_epsilon_m            log_lambda_A_m            log_lambda_B_m
##                   3.8235652                4.3064276                4.1856938
```
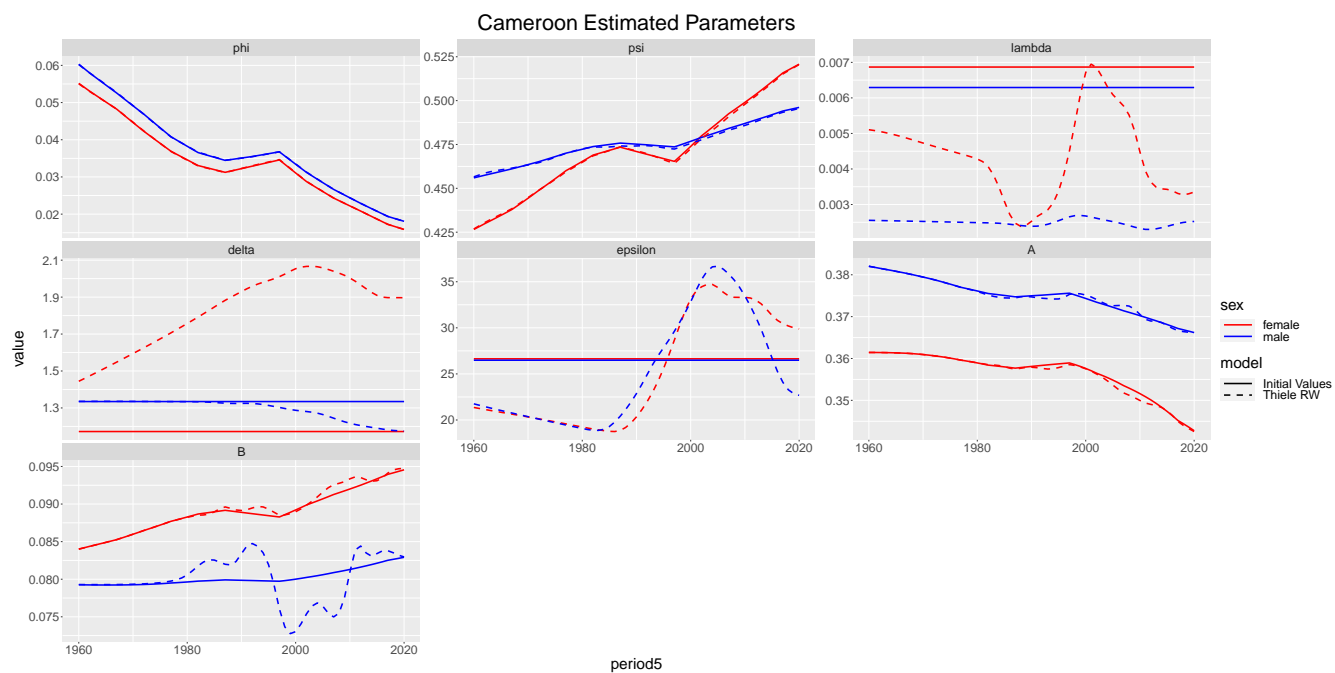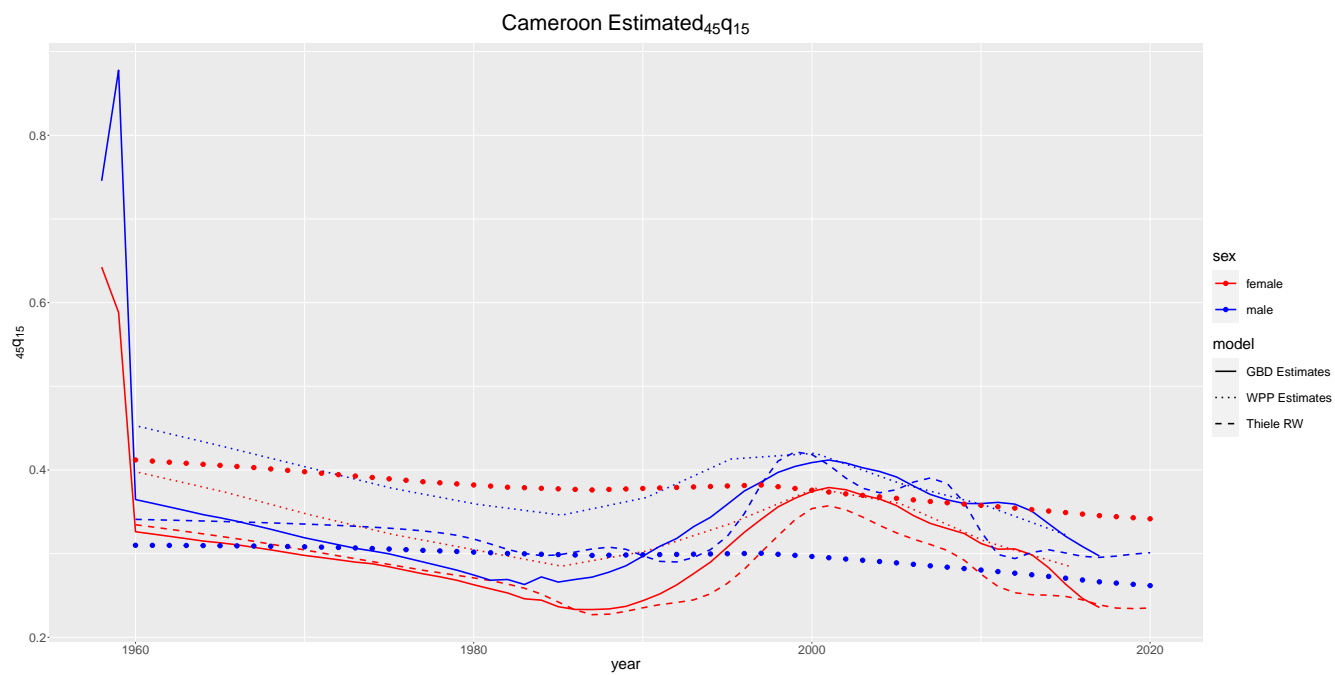
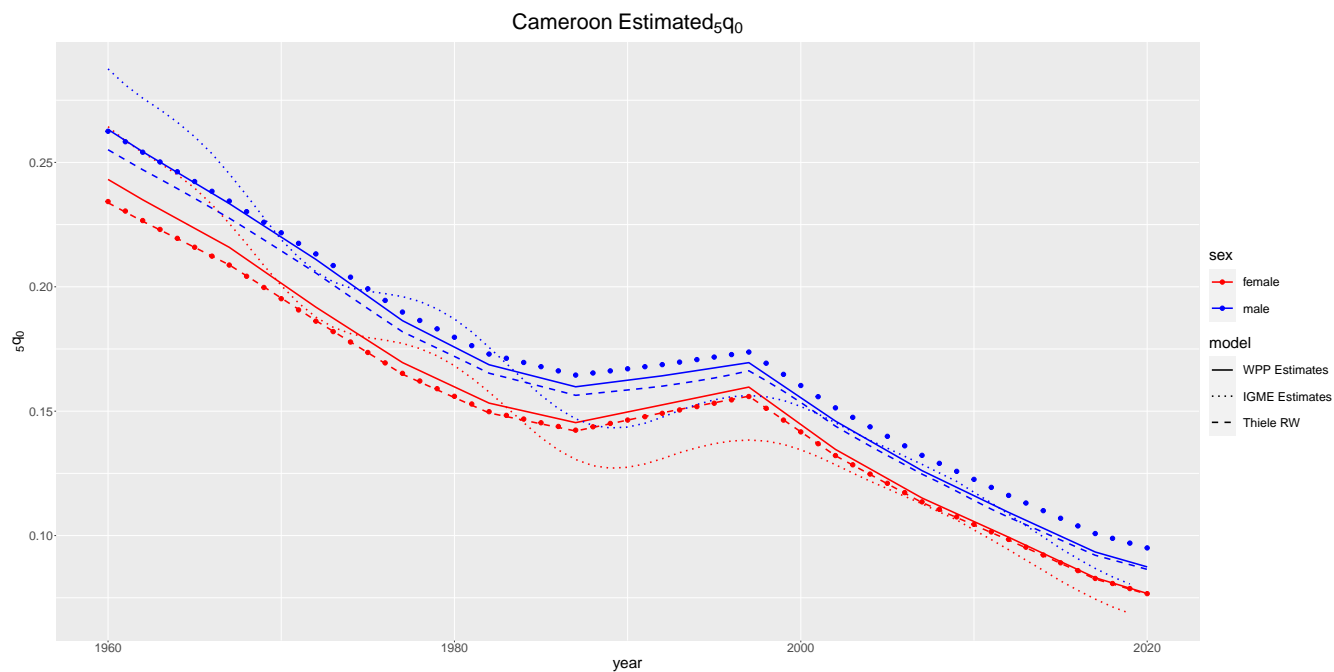Figure 1: Estimated parameters

Figure 2: Estimated $_{45}q_{15}$
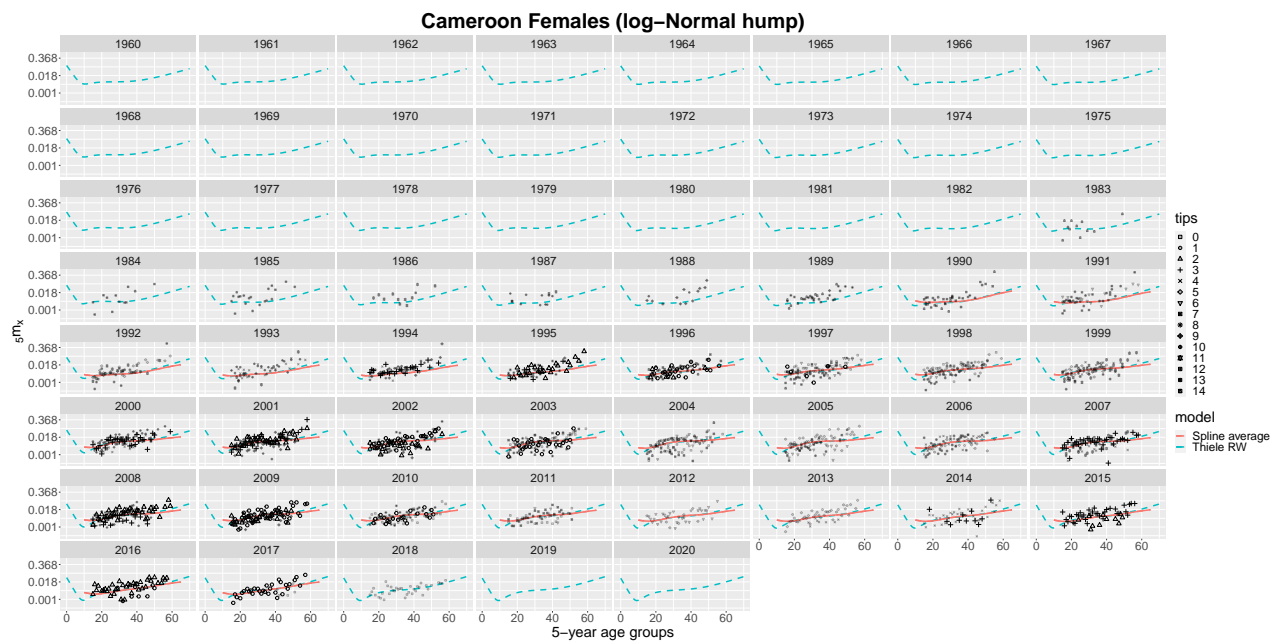
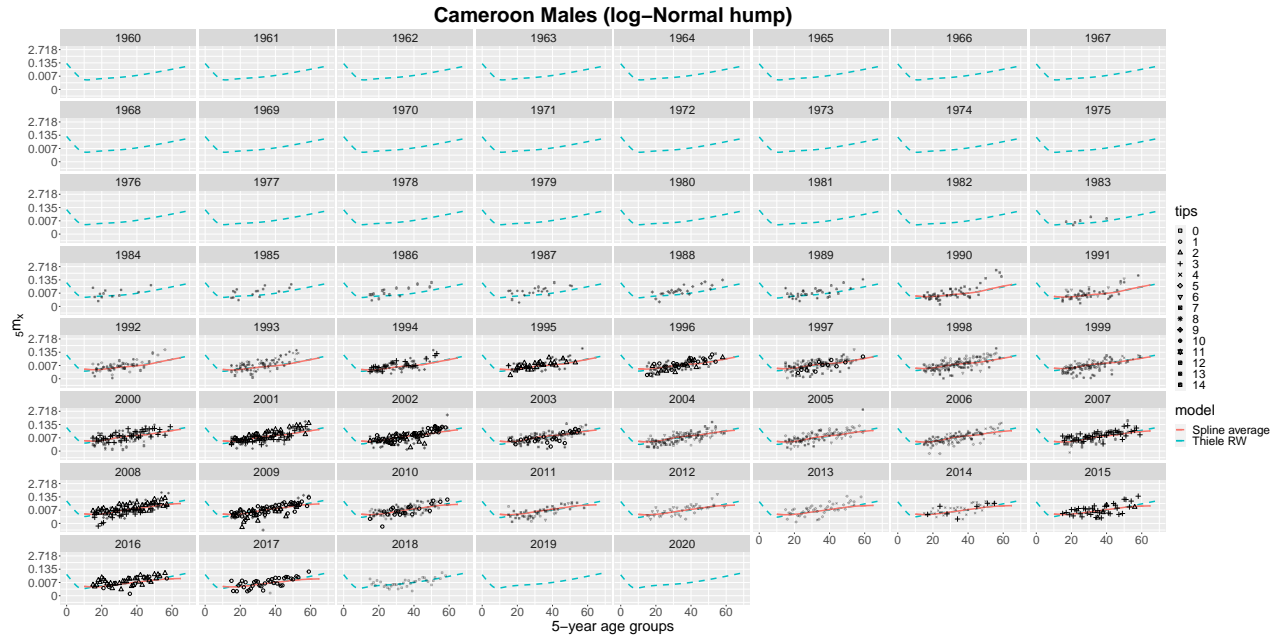Figure 3: Estimated $_5q_0$

Figure 4: Mortality Schedules
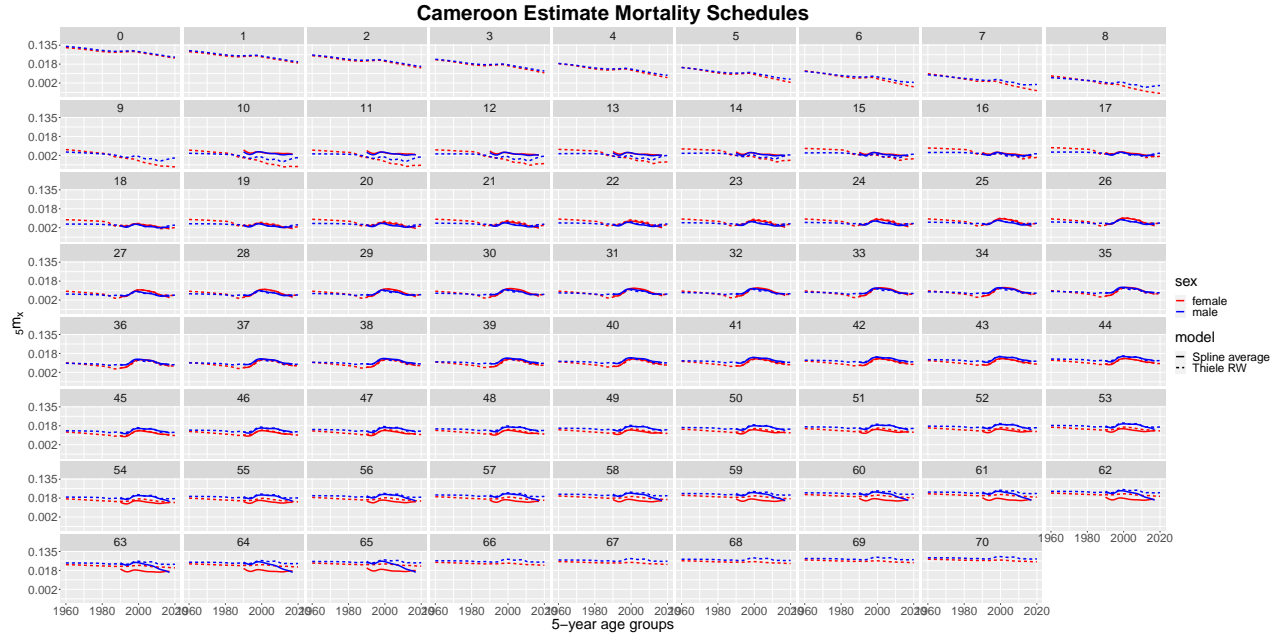
4

Figure 5: Mortality Schedules
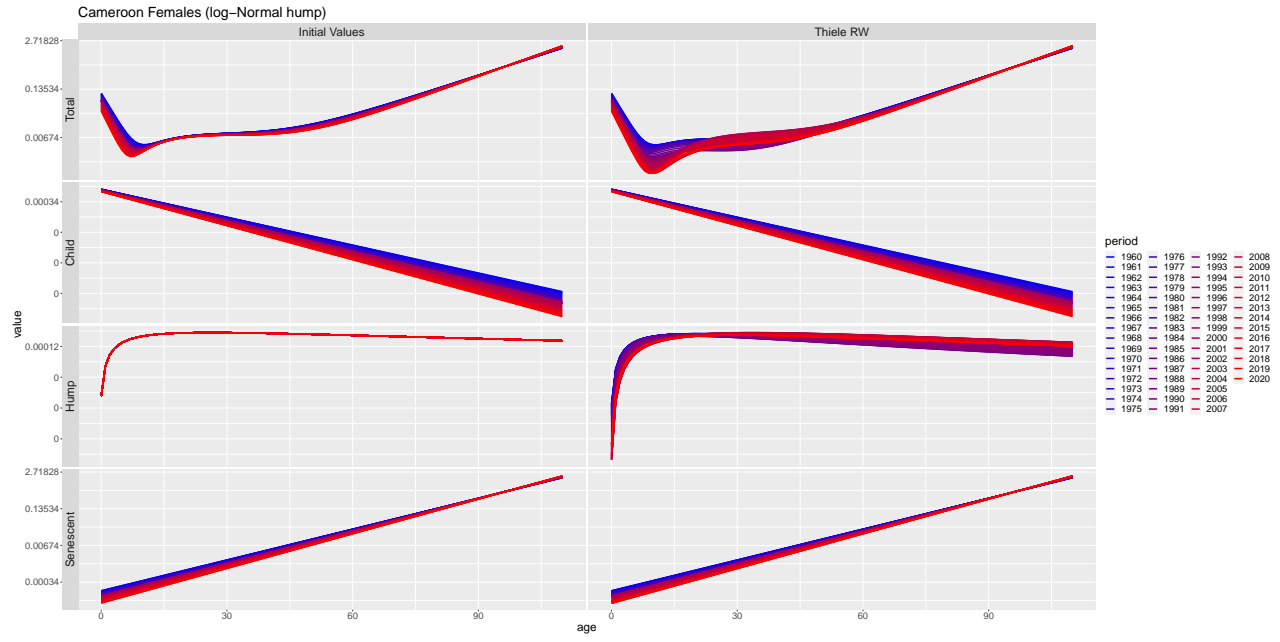

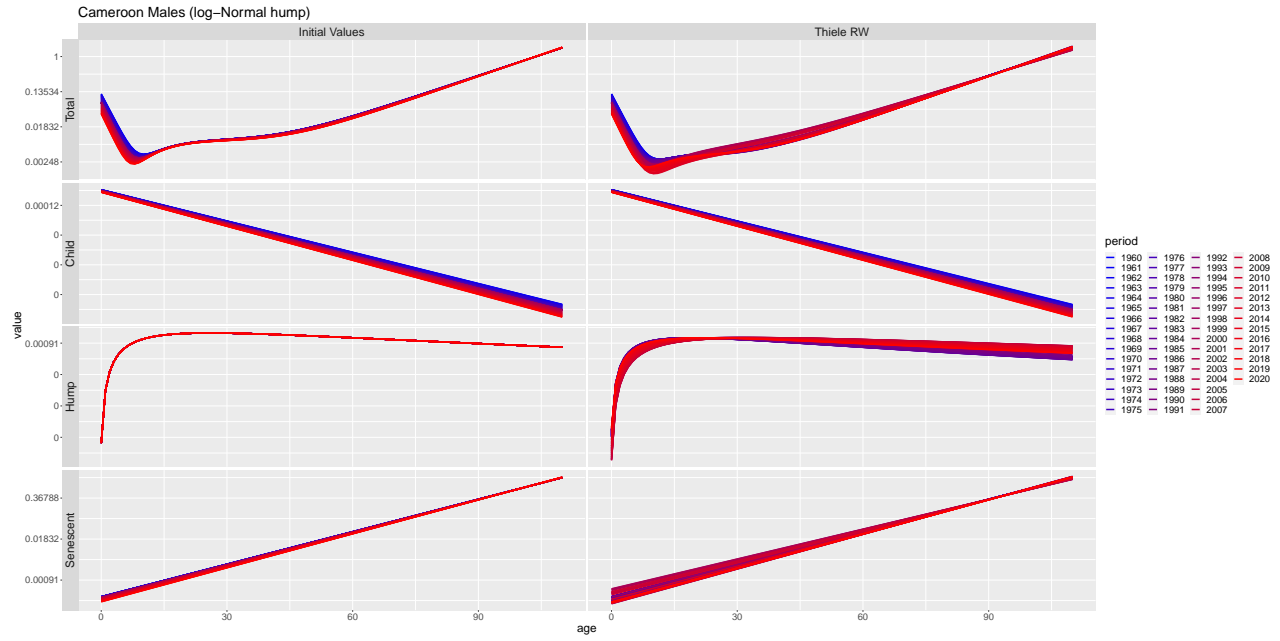Figure 6: Mortality Schedules

5

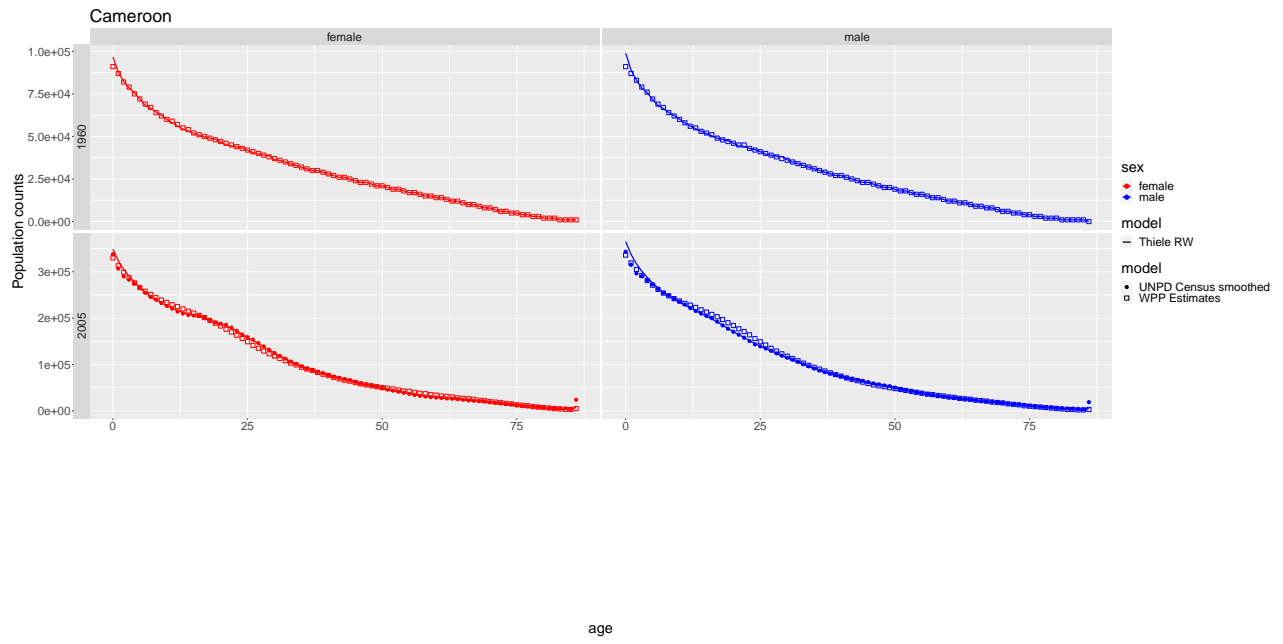Figure 7: Thiele Decomposed
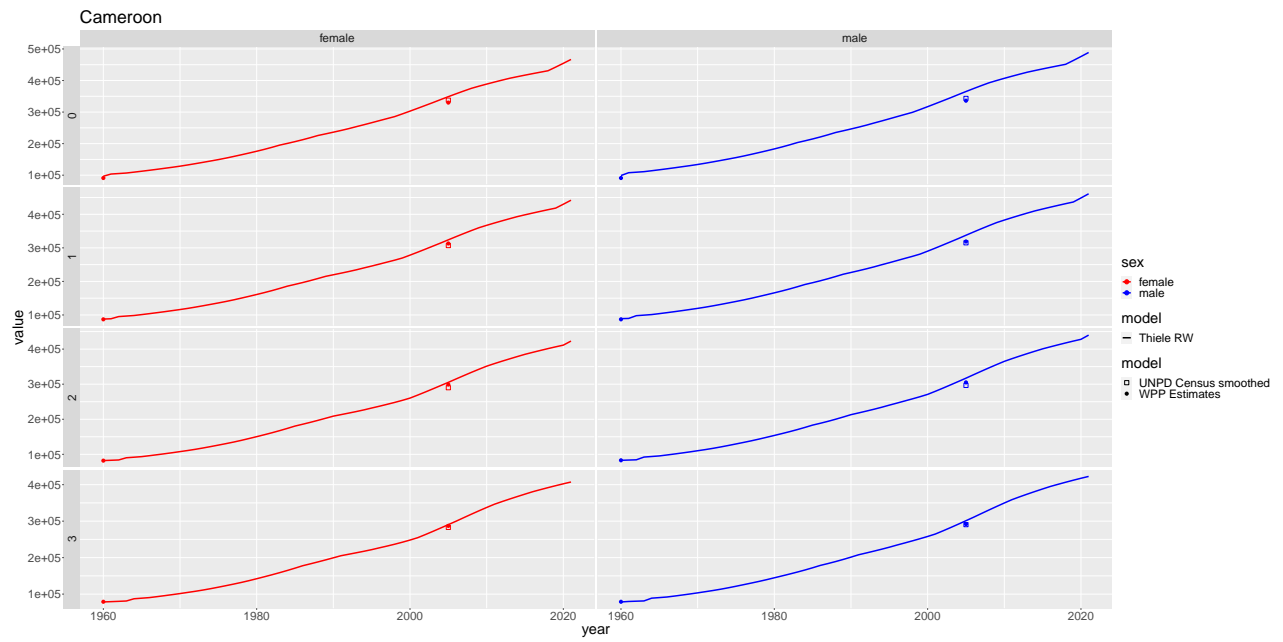

Figure 8: Thiele Decomposed
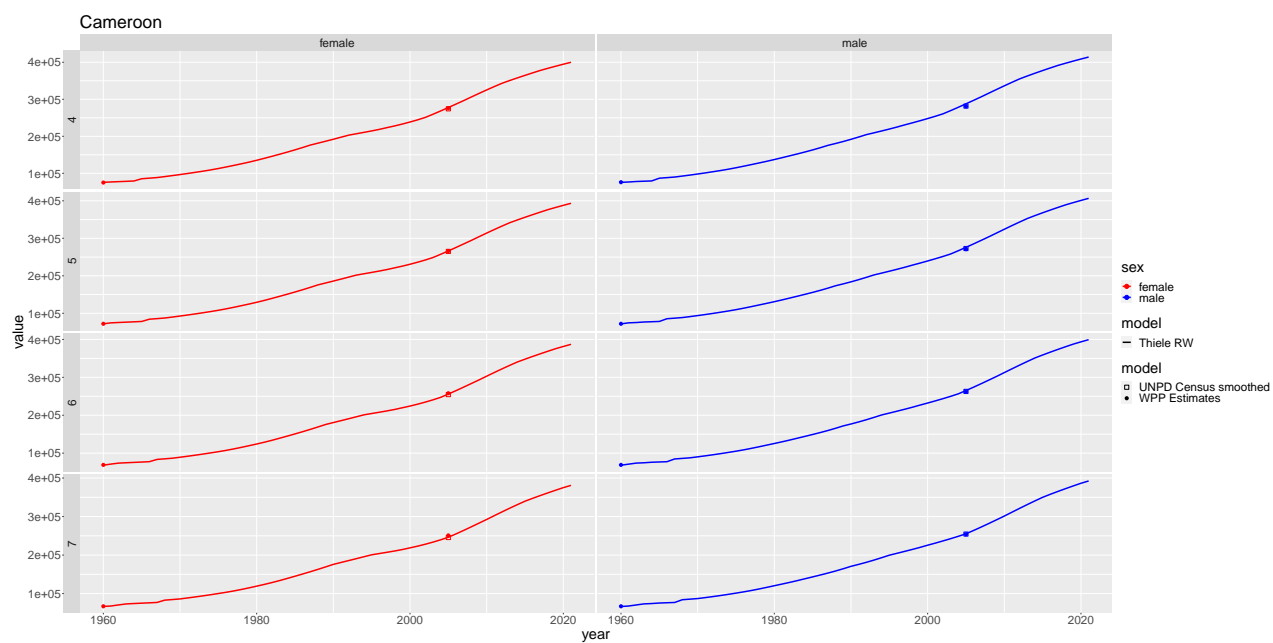
Figure 9: Population

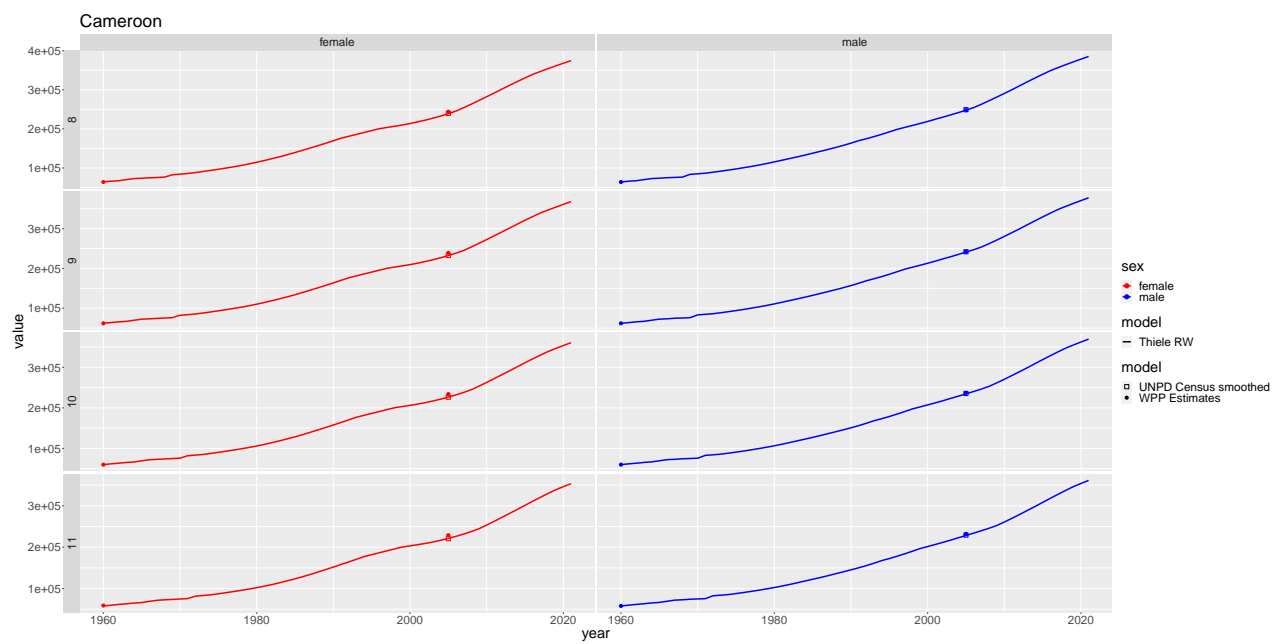Figure 10: Population
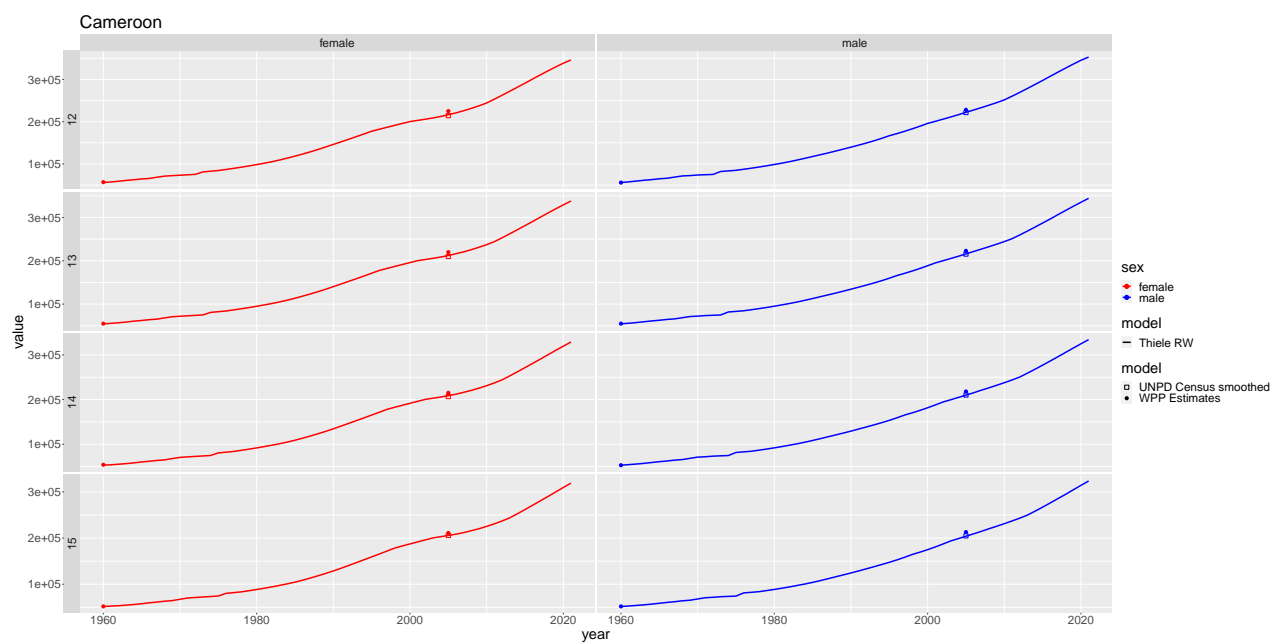
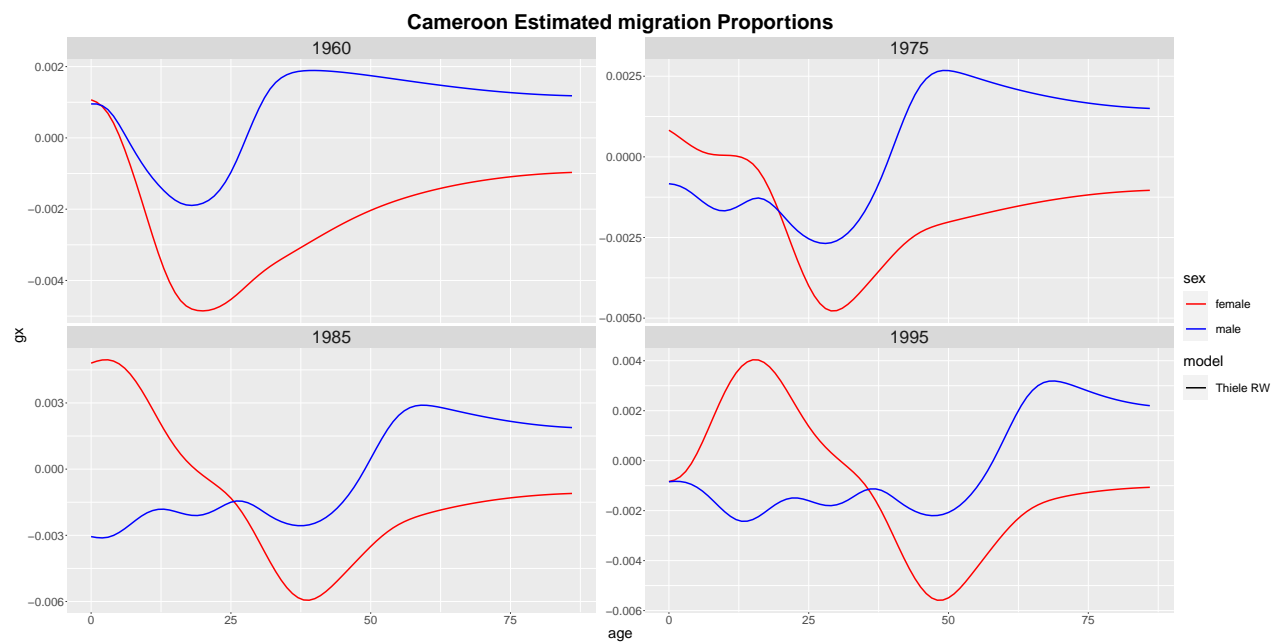Figure 11: Population

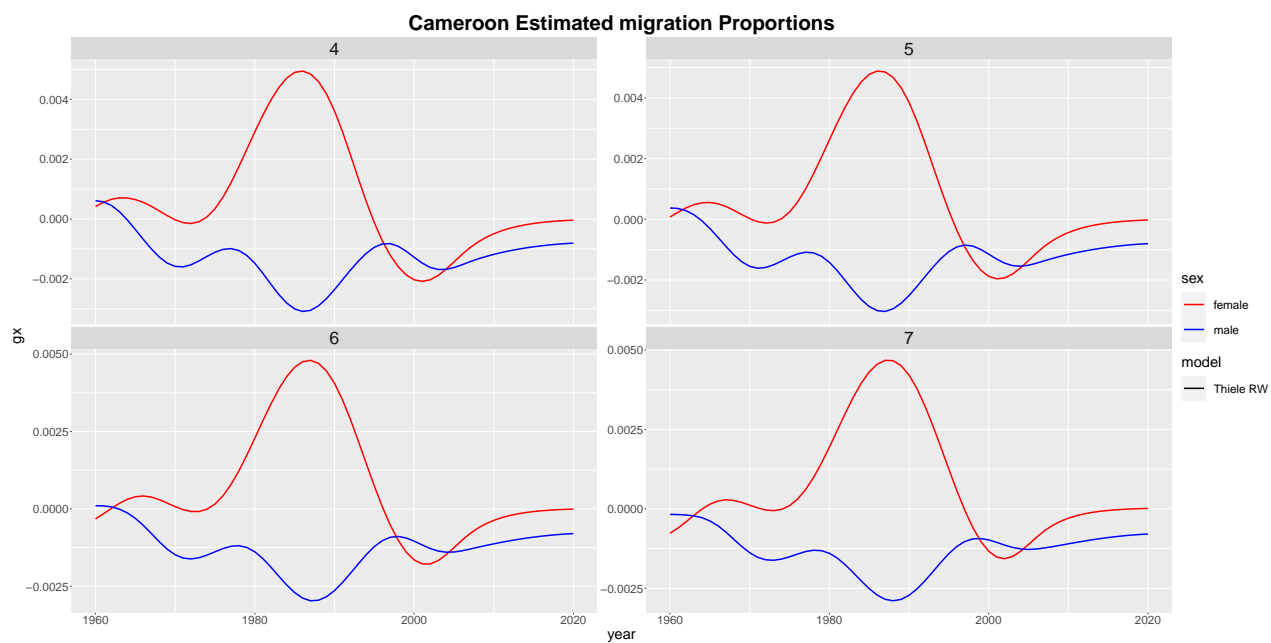Figure 12: Population

8

Figure 13: Population
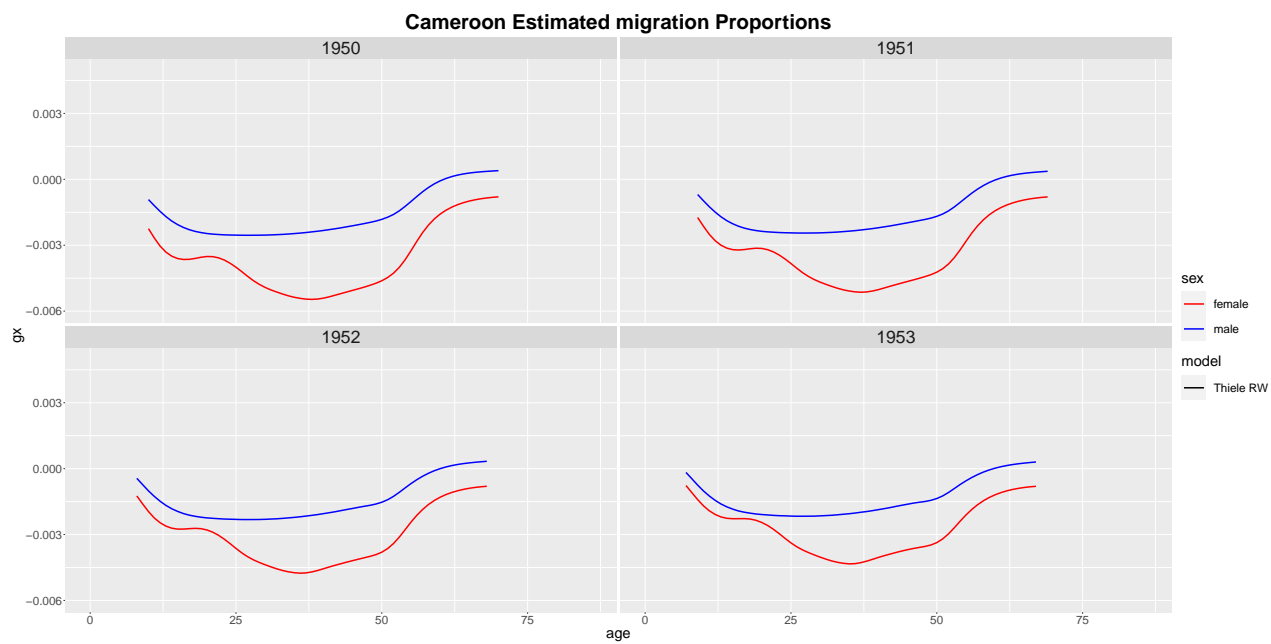

Figure 14: Migration
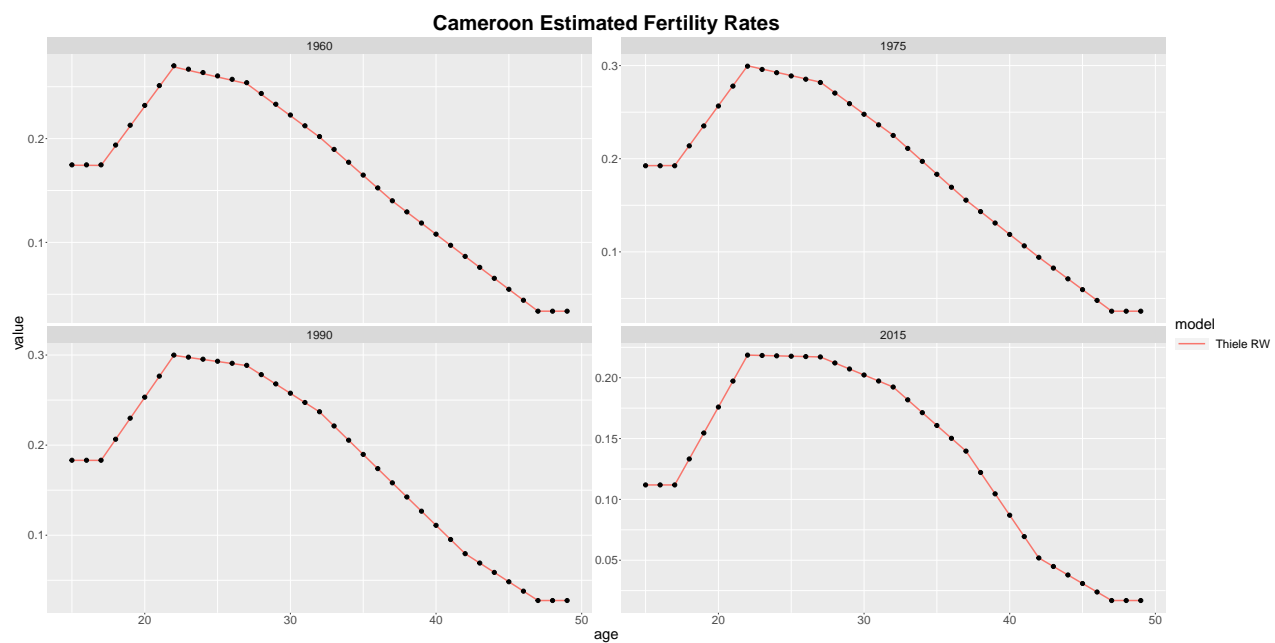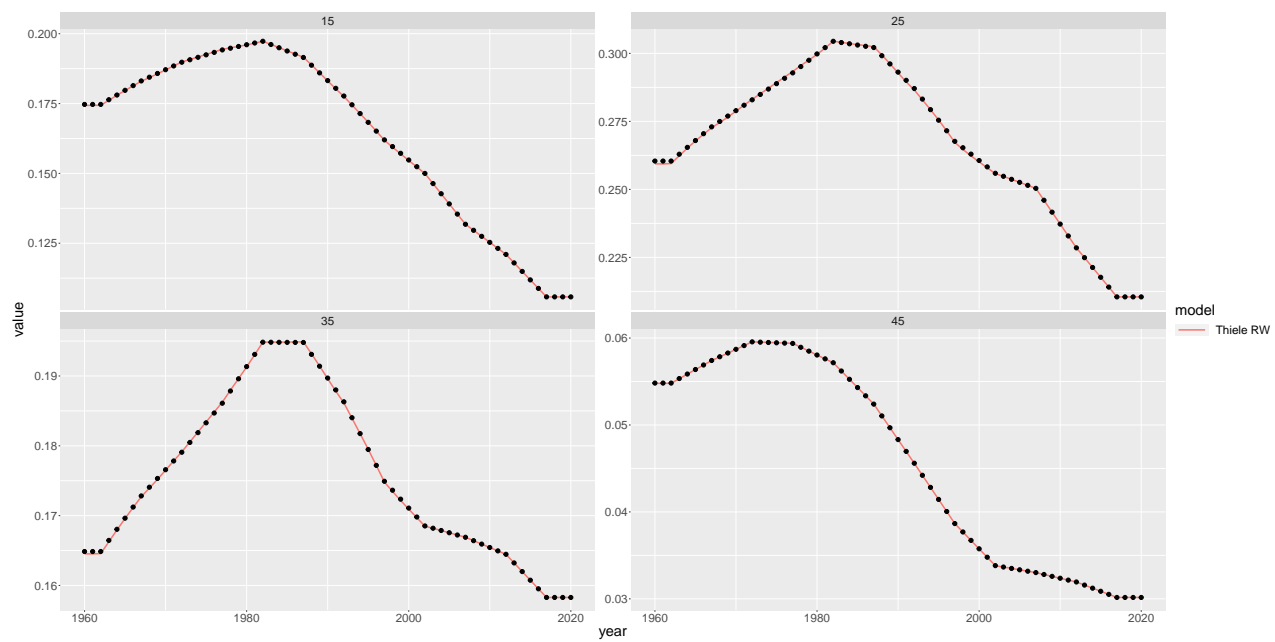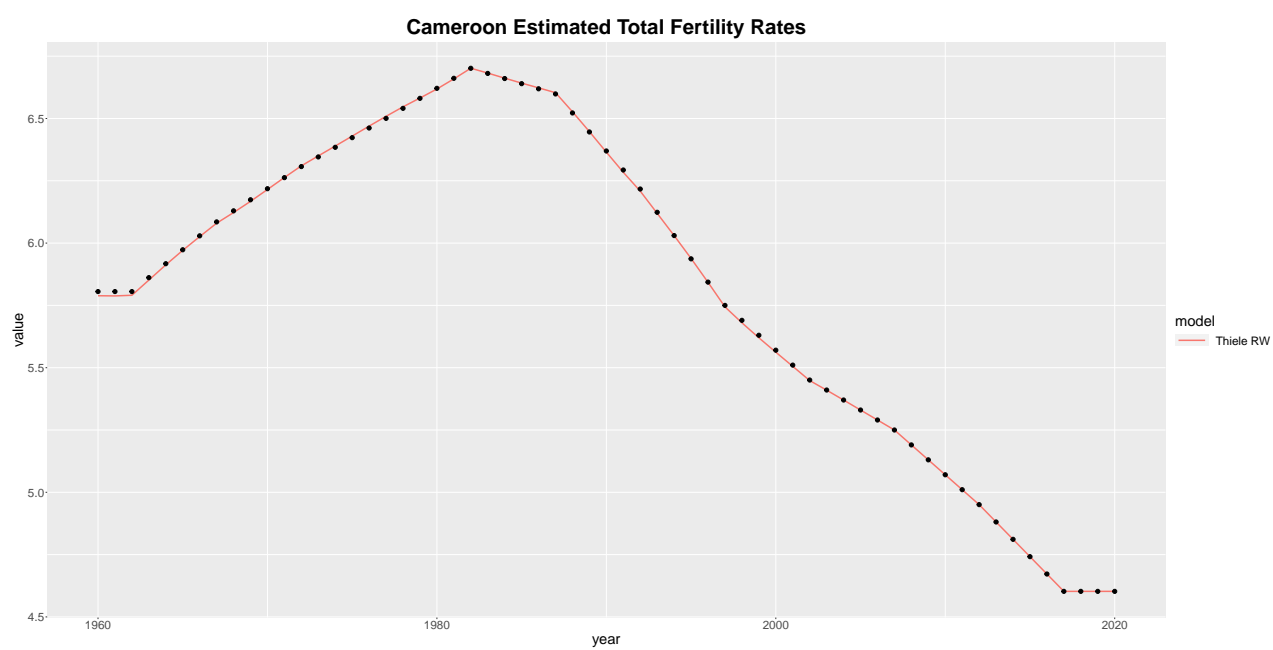
Figure 15: Migration

Figure 16: Migration

10

Figure 17: Fertility

Figure 18: Fertility

Figure 19: Total Fertility