

Cameroon

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

## # A tibble: 86 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 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.
## 6    25 269228.
## 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.
## 6     5 272737.
```

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## 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.
## 6     25 221801.
## 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.
## 17    80  14288.
## 18    85  17413.
```

Thiele log-Normal Hump Spline

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

##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log
##	5.2678030	6.0170946	5.3004236	6.0234079	
##	log_dispersion	log_dispersion	log_lambda_tp	tp_slope	
##	0.6148560	0.7078286	3.3215871	-0.0289957	
##	log_lambda_phi	log_lambda_psi	log_lambda_A	log_lambda_B	log_la
##	12.7384693	12.7099954	12.5947103	12.1615699	
##	log_lambda_epsilon				
##	3.9147778				

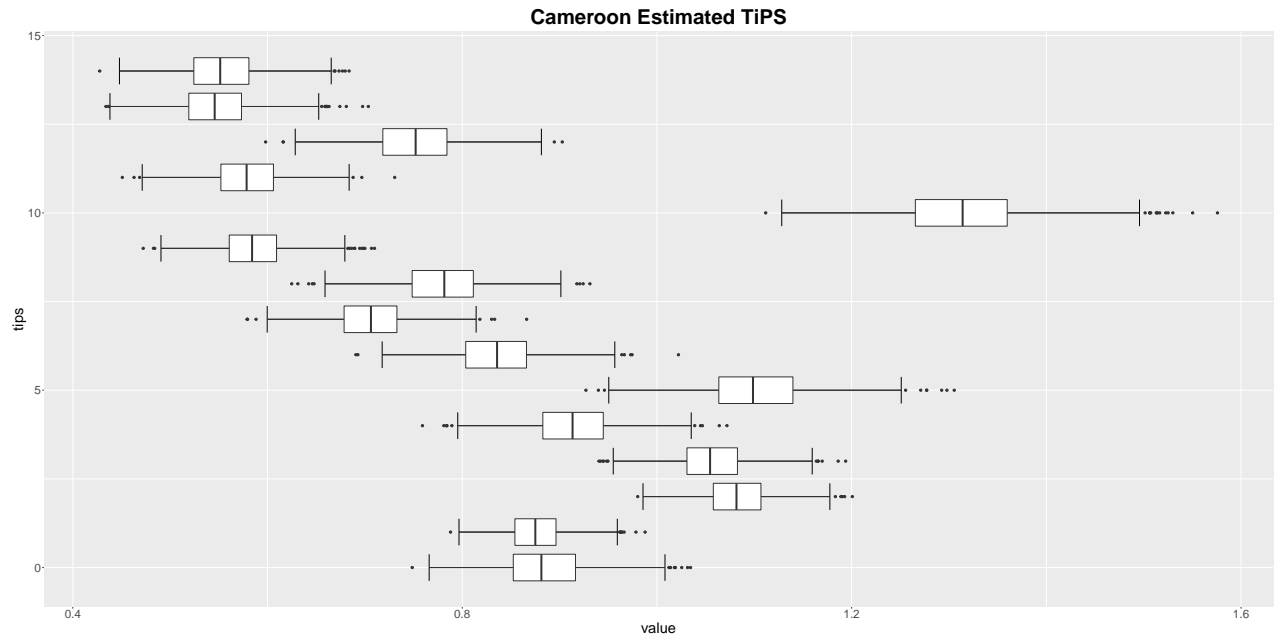


Figure 1: Estimated TiPS

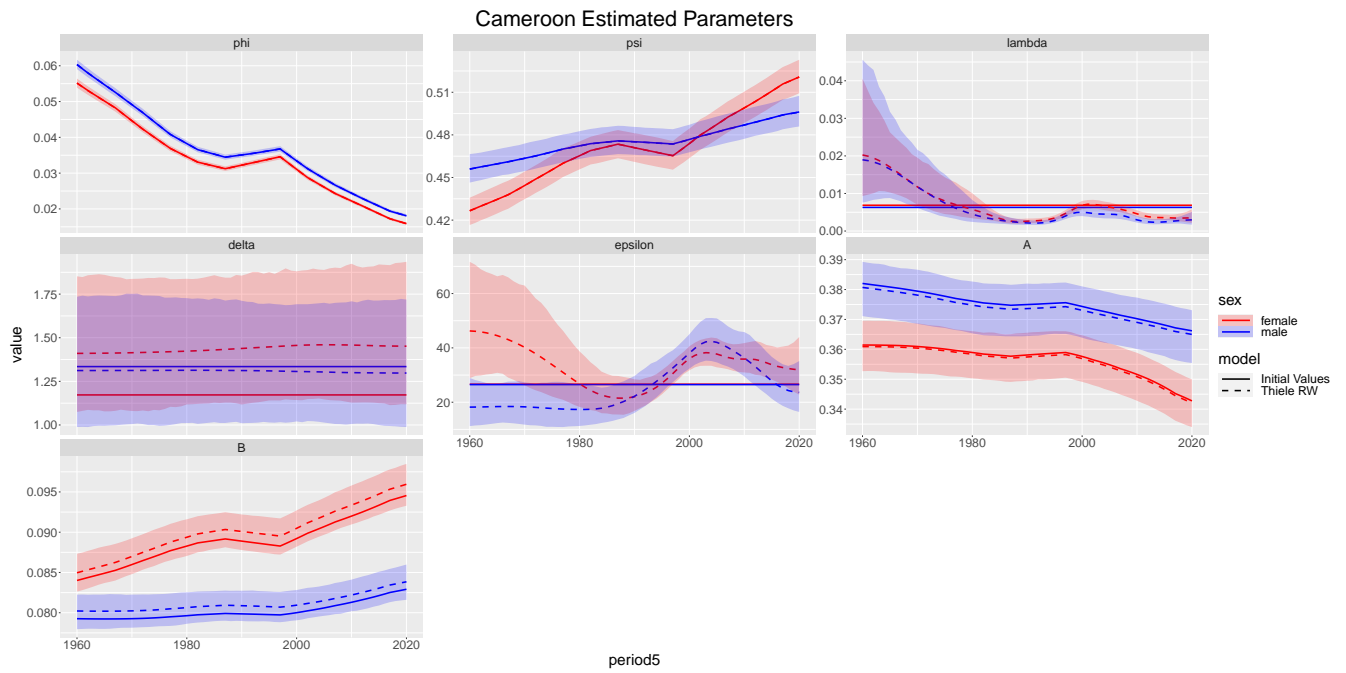


Figure 2: Estimated parameters

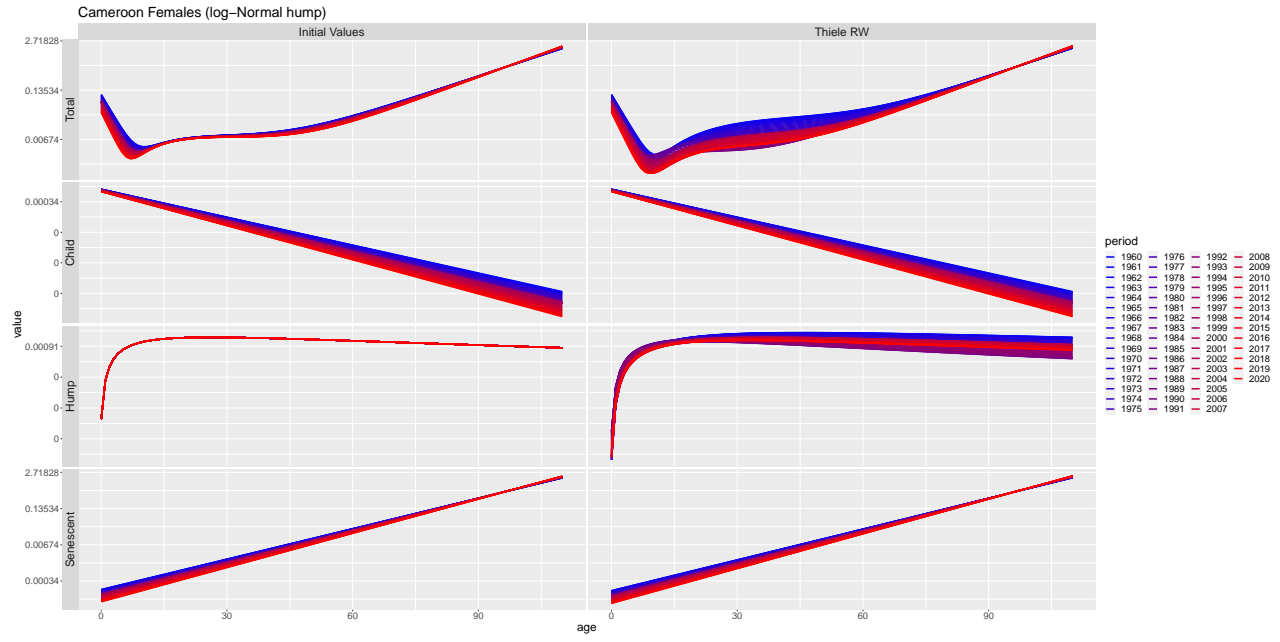


Figure 3: Thiele Decomposed

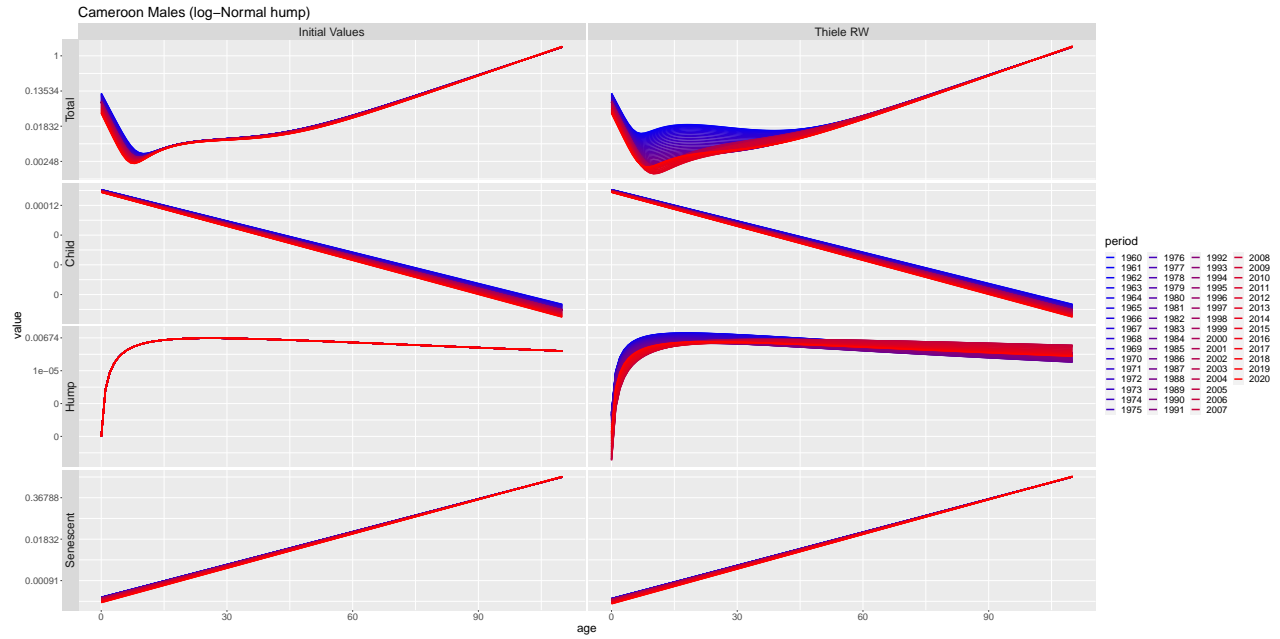


Figure 4: Thiele Decomposed

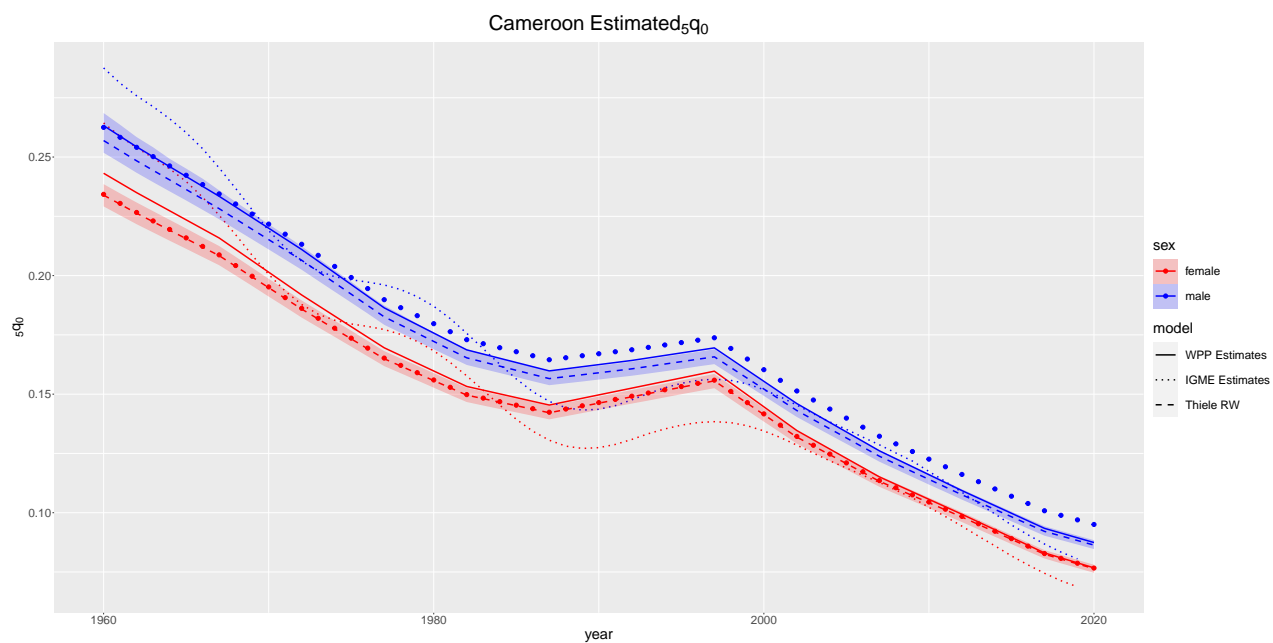


Figure 5: Estimated ${}_5q_0$

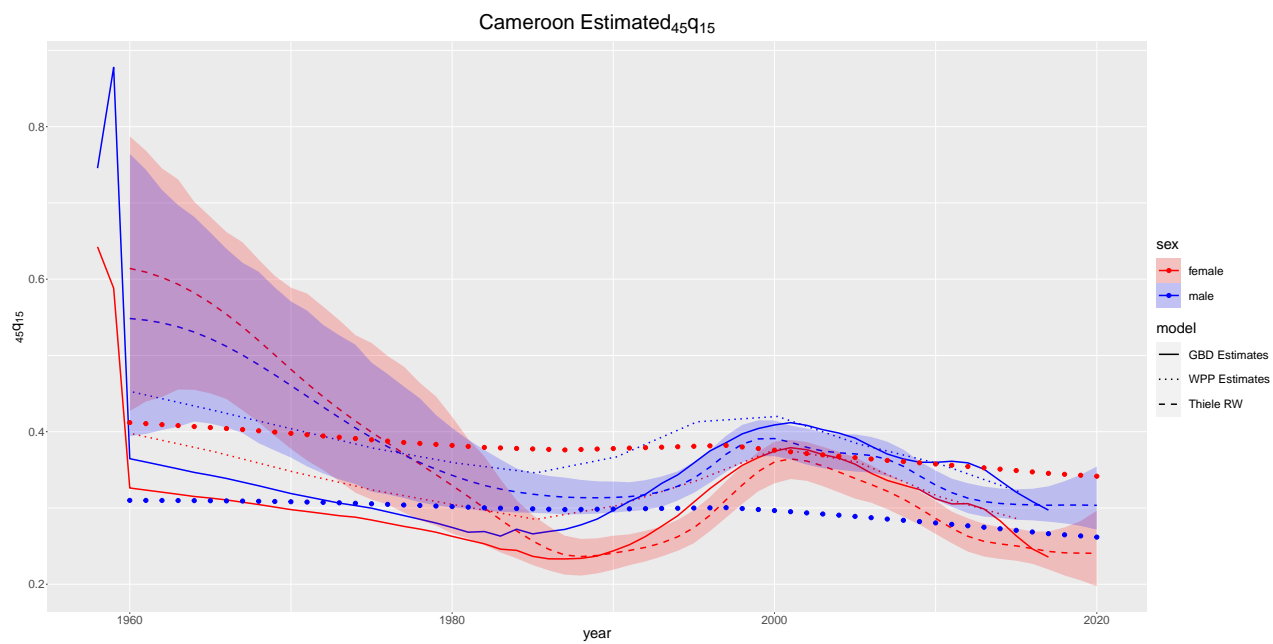


Figure 6: Estimated ${}_{45}q_{15}$

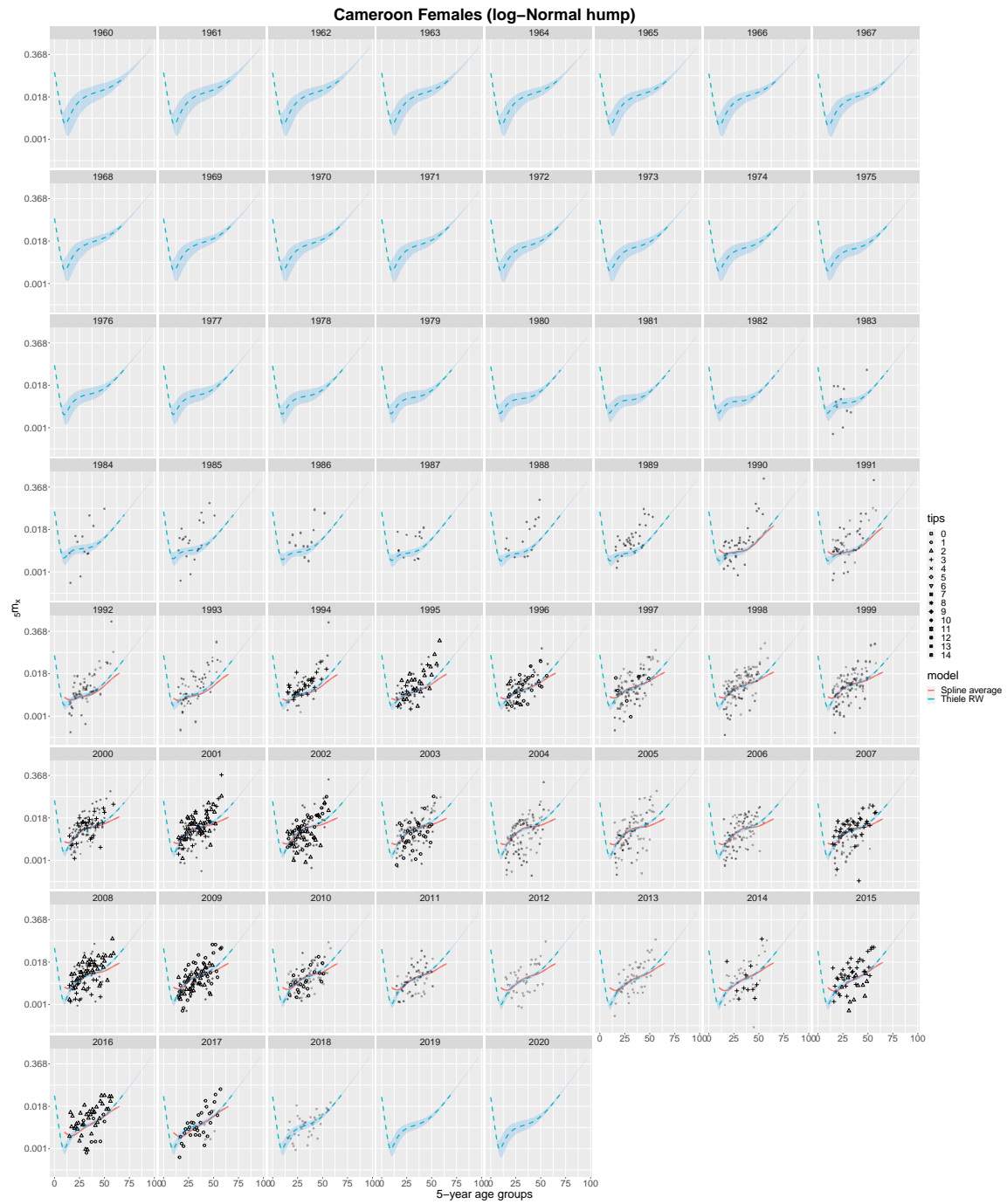


Figure 7: Mortality Schedules

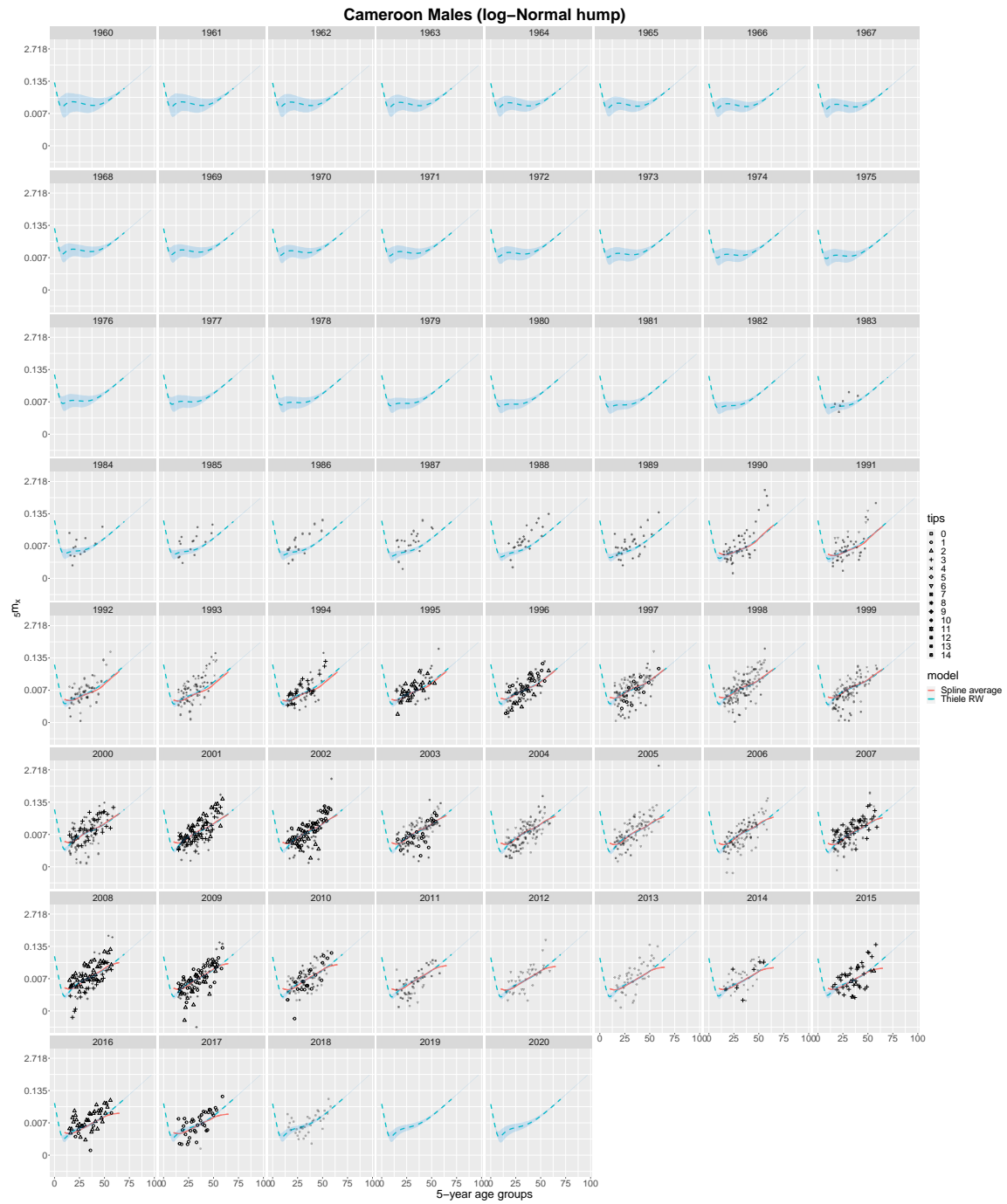


Figure 8: Mortality Schedules

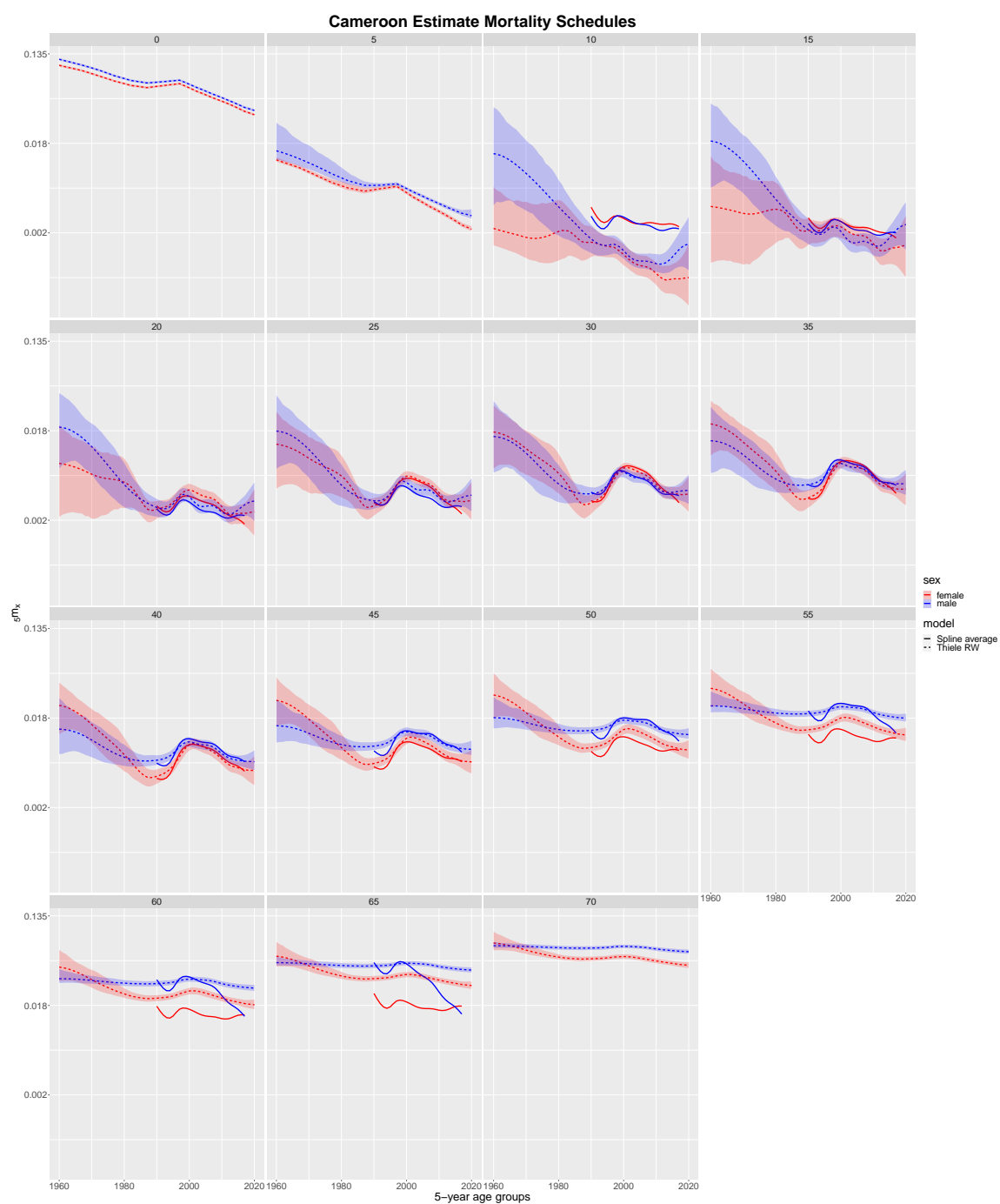


Figure 9: Mortality Schedules

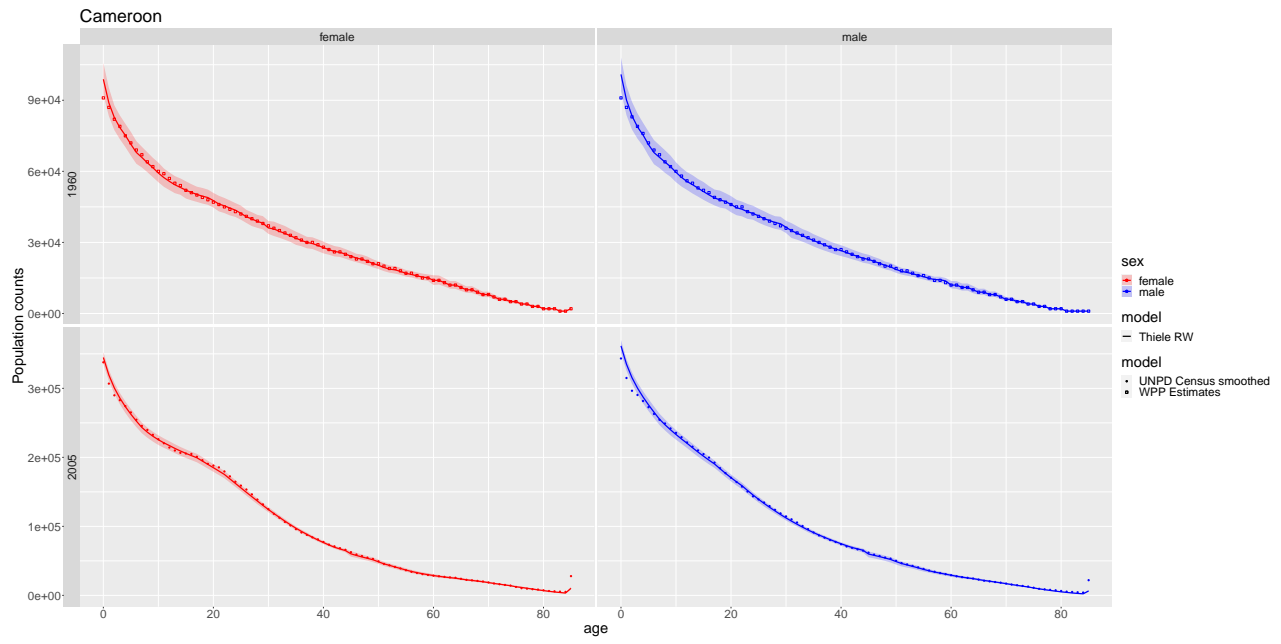


Figure 10: Population

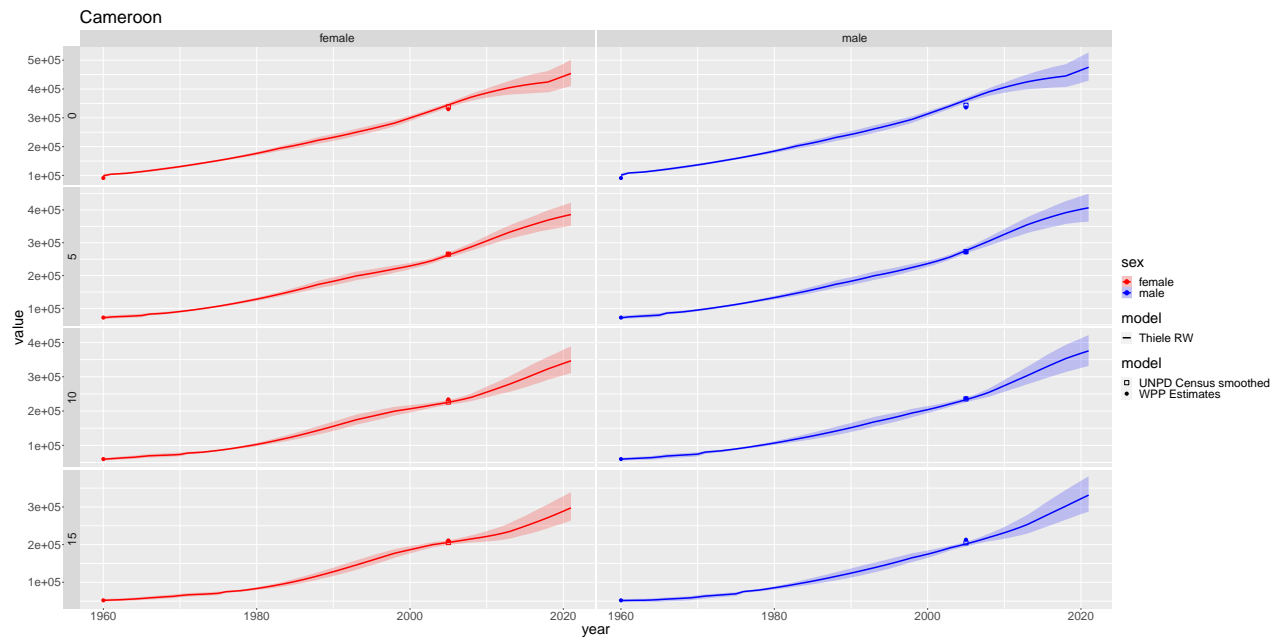


Figure 11: Population

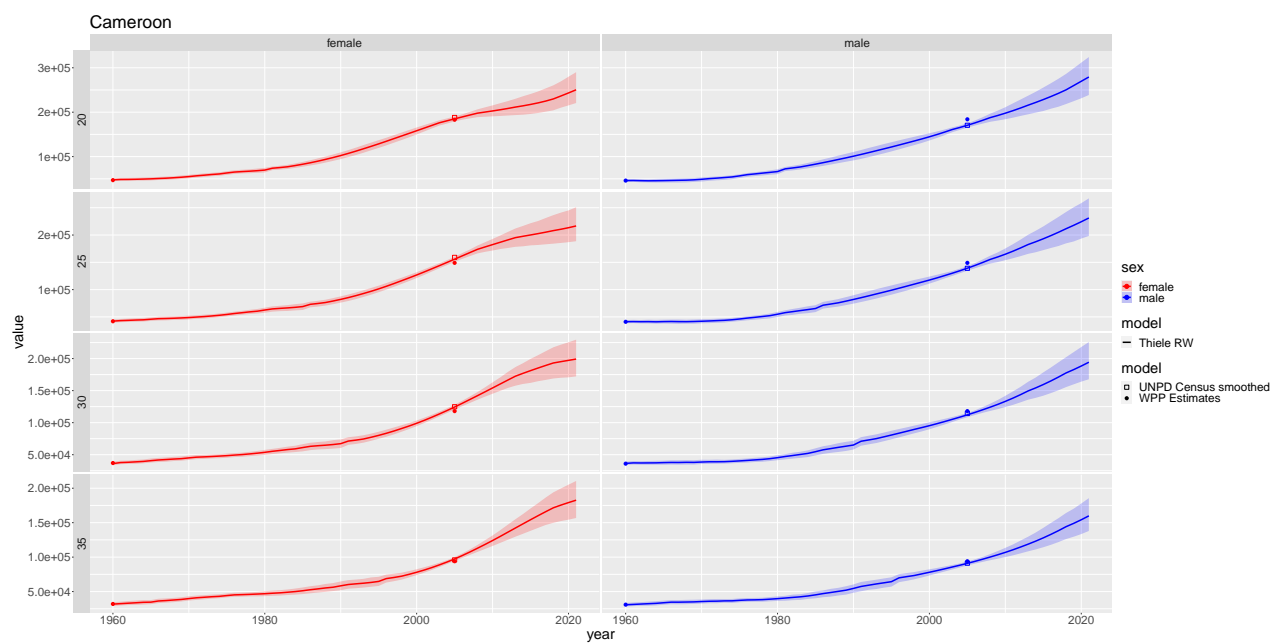


Figure 12: Population

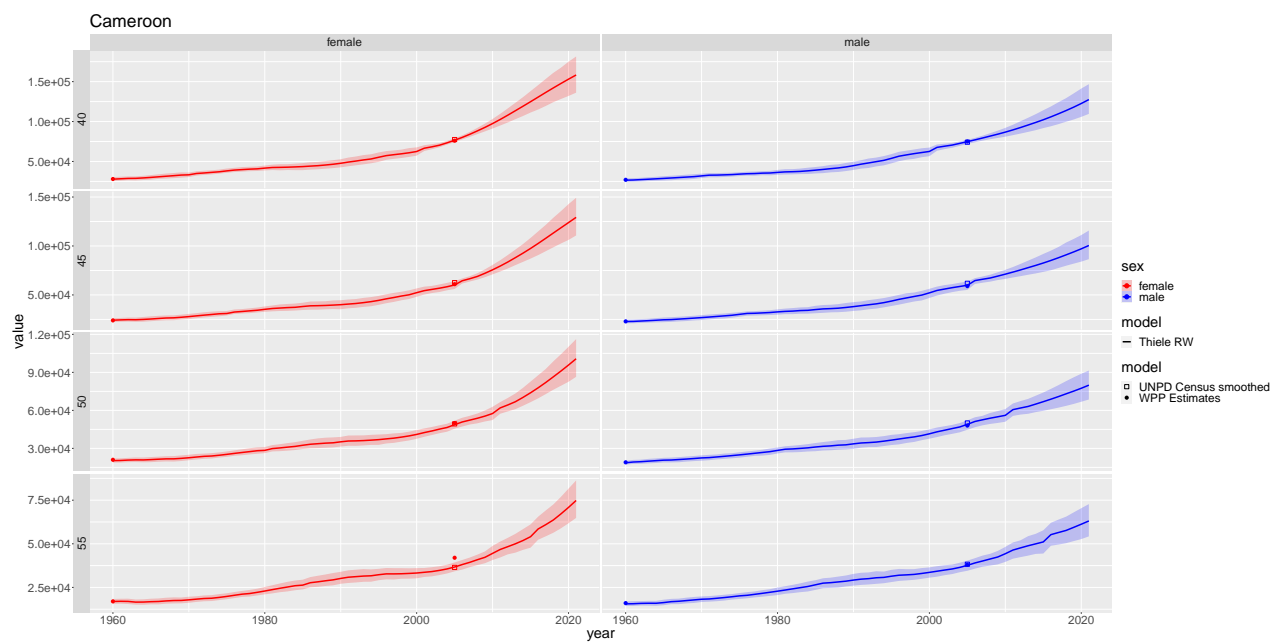


Figure 13: Population

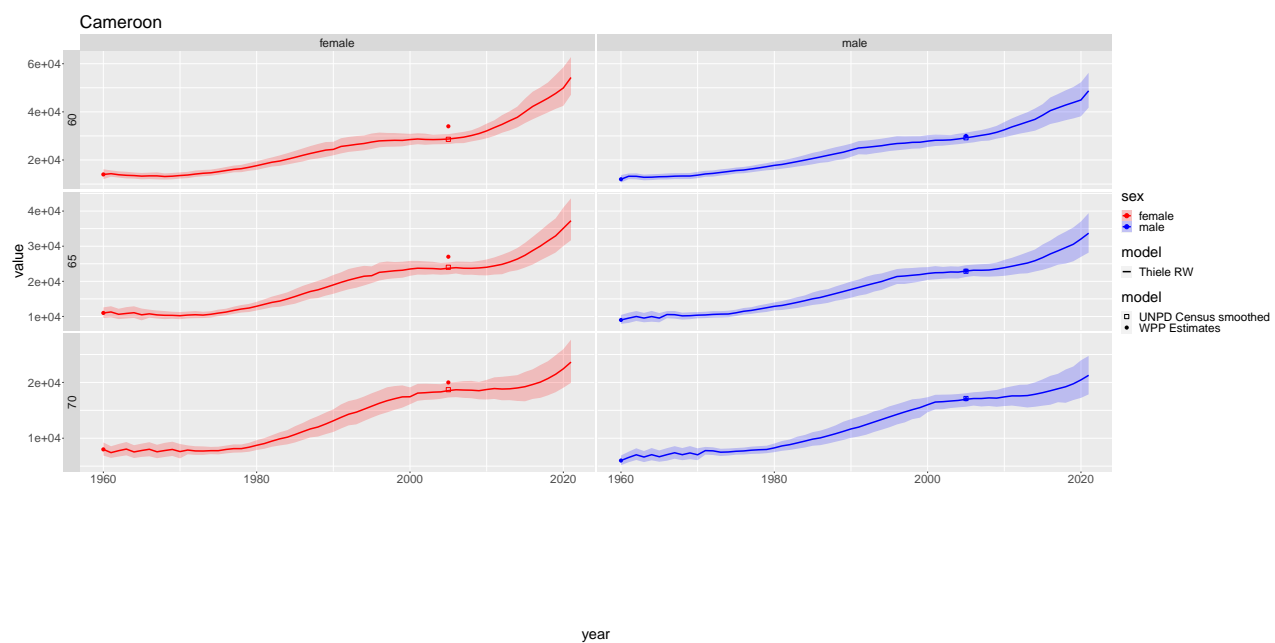


Figure 14: Population

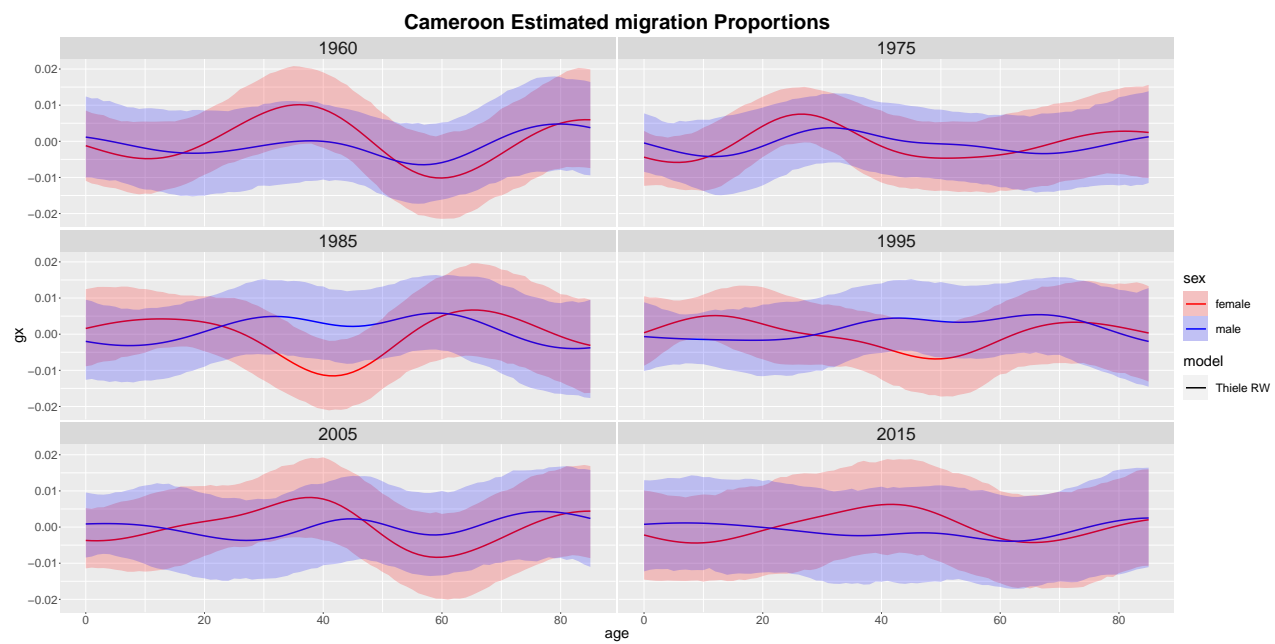


Figure 15: Migration

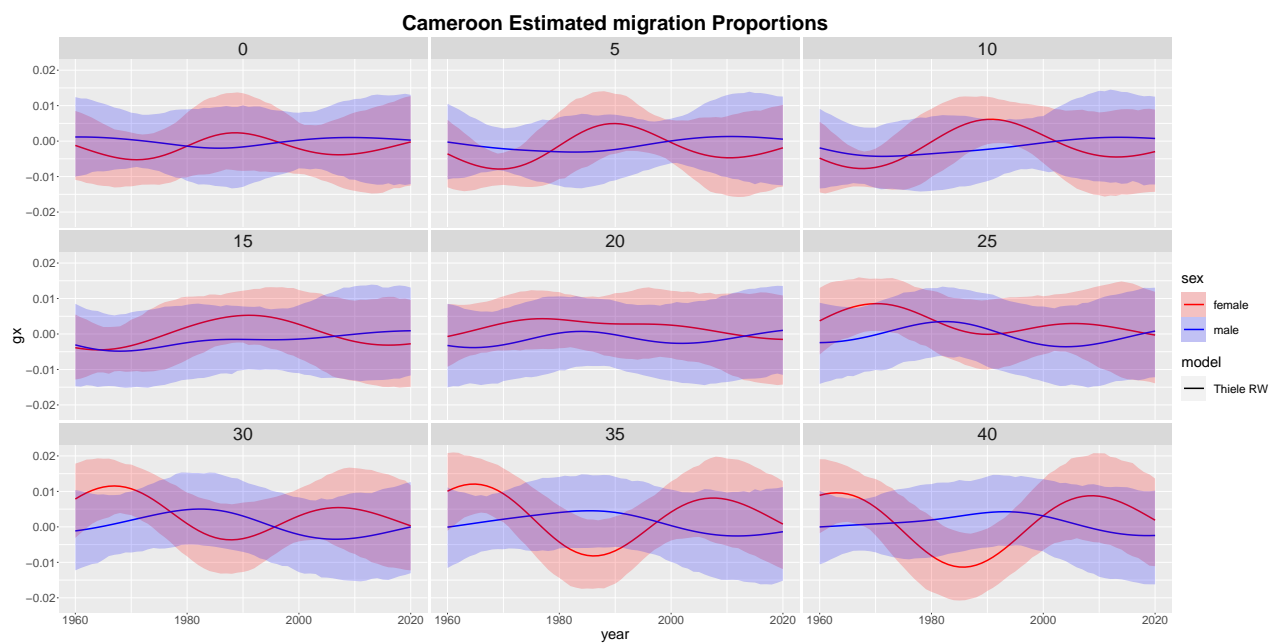


Figure 16: Migration

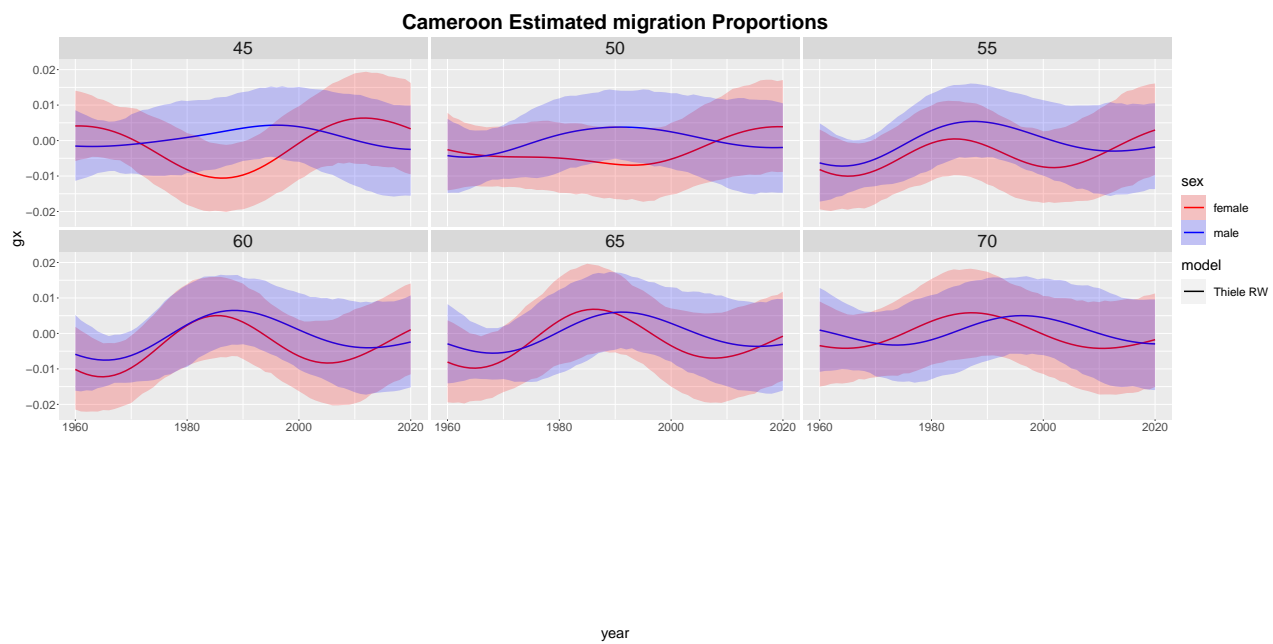


Figure 17: Migration

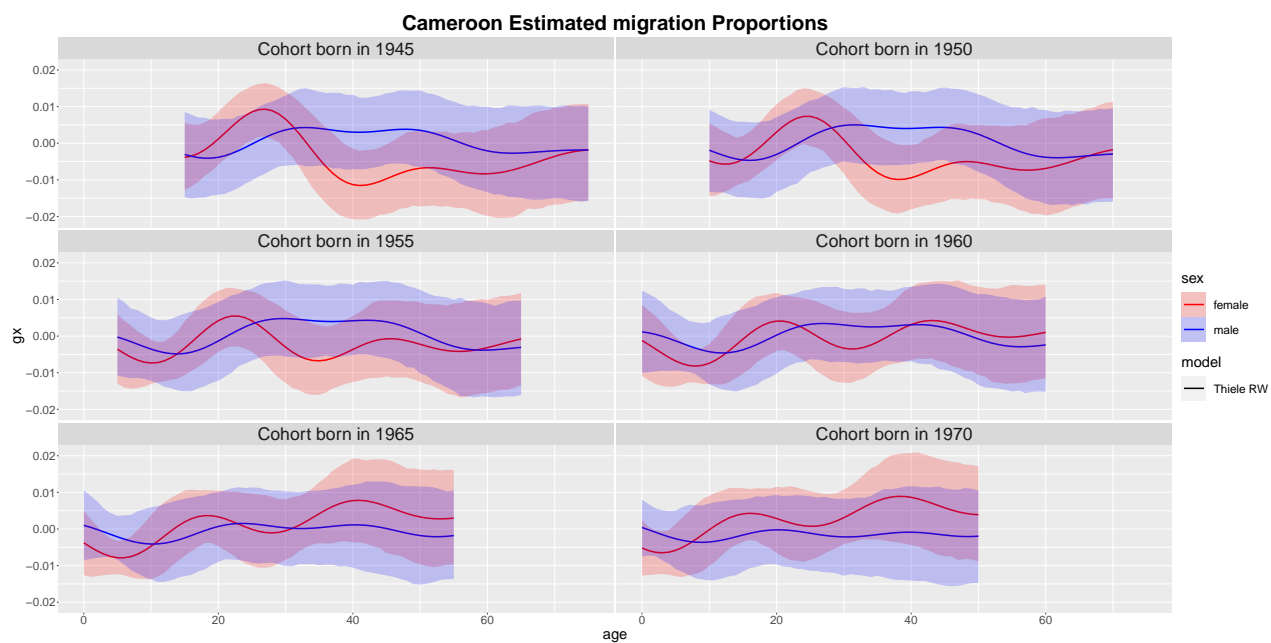


Figure 18: Migration

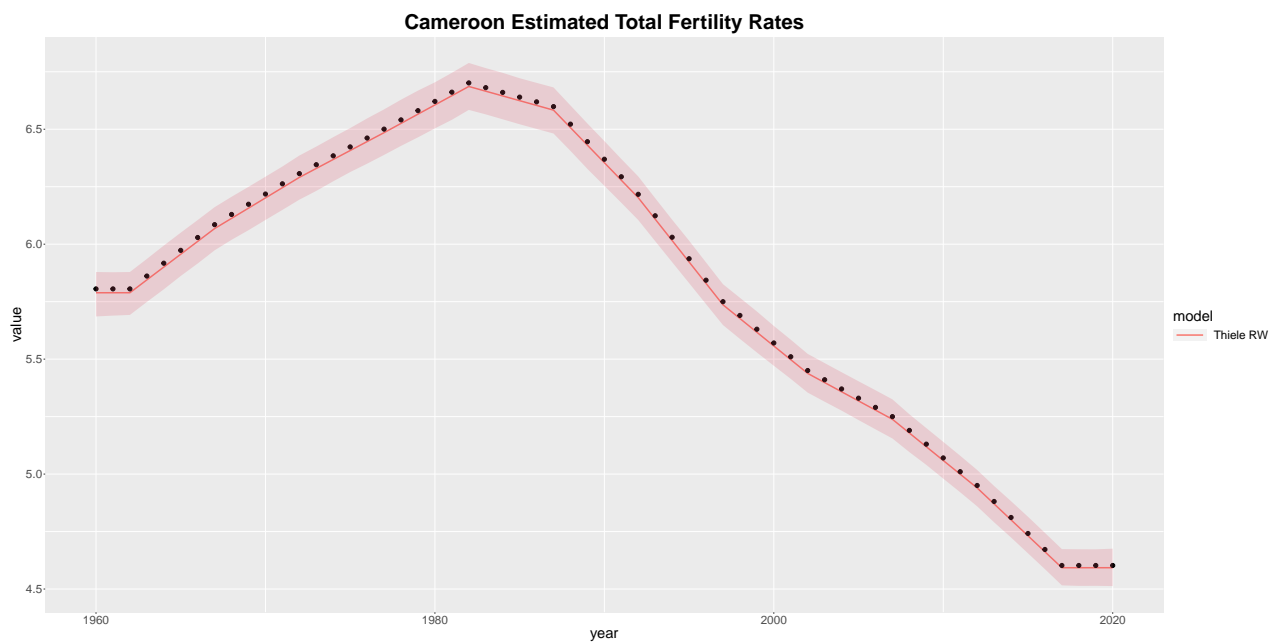


Figure 19: Total Fertility

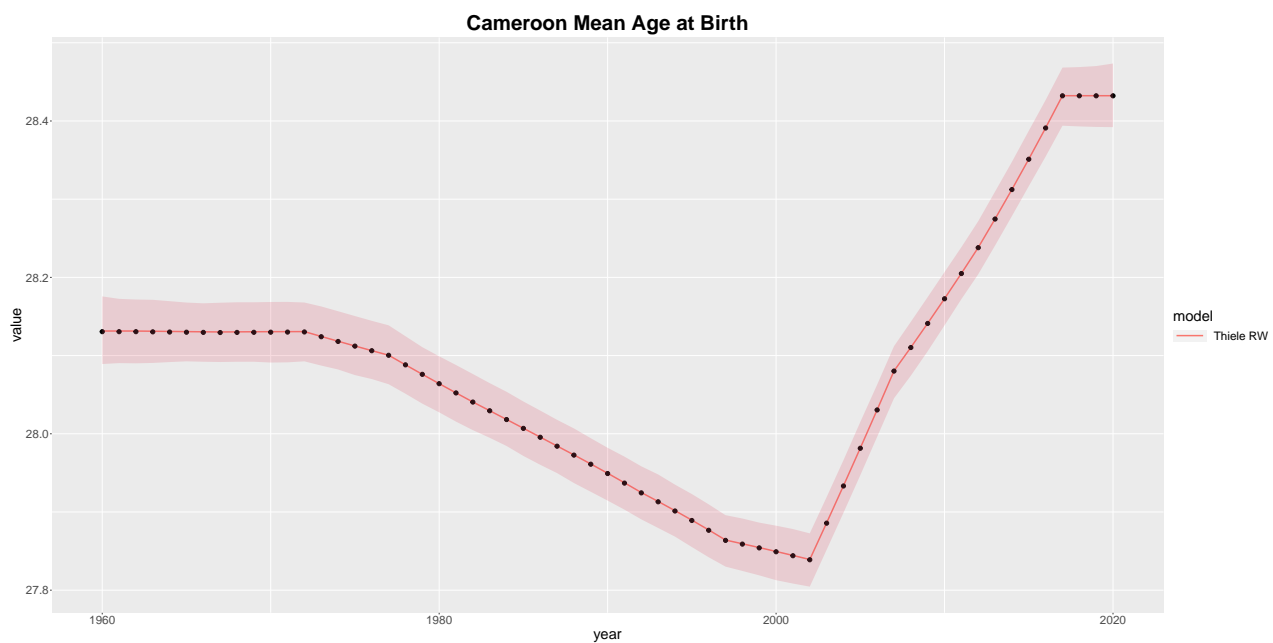


Figure 20: Mean age at births

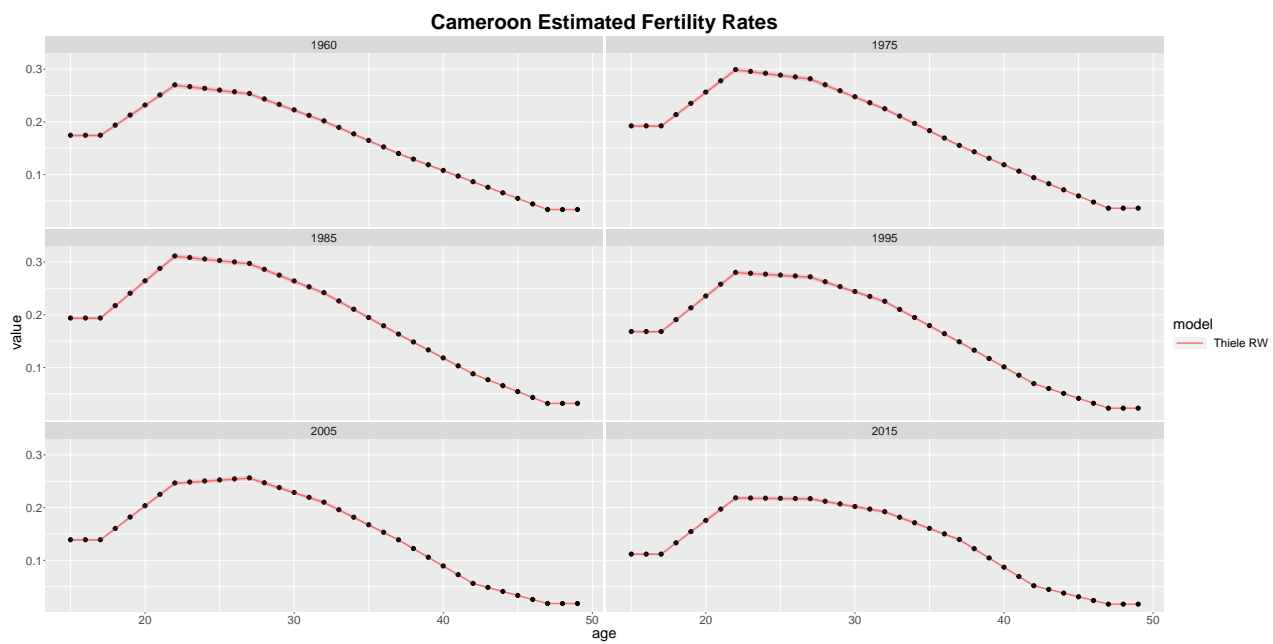


Figure 21: Fertility

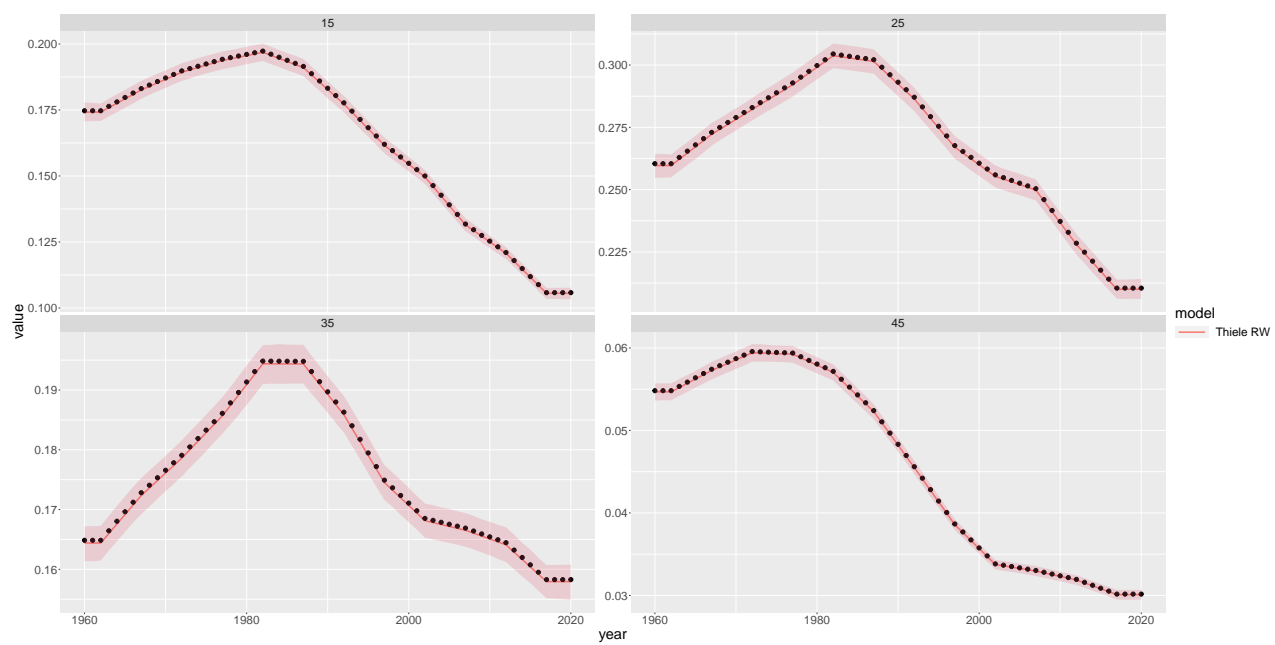


Figure 22: Fertility