Guinea

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

## # A tibble: 18 x 3
##    aggr.age  `1996`  `2014`
## *     <dbl>   <dbl>   <dbl>
## 1         0 629099  874110
## 2         5 545591. 788987
## 3        10 417300  660467
## 4        15 335618. 570344
## 5        20 307902. 506494.
## 6        25 288558. 434907
## 7        30 248041  359231.
## 8        35 198157. 290111.
## 9        40 156056. 231976.
## 10       45 121375. 181720.
## 11       50  96060. 142381.
## 12       55  80310. 111180.
## 13       60  72839.  88693
## 14       65  59296   69474.
## 15       70  47005   52244.
## 16       75  62565   36503.
## 17       80      NA  23117.
## 18       85      NA  25432

## [1] "Census Males"

## # A tibble: 18 x 3
##    aggr.age  `1996`  `2014`
## *     <dbl>   <dbl>   <dbl>
## 1         0 643728  890034
## 2         5 573860. 810744.
## 3        10 440982. 659194.
## 4        15 320036. 519244.
## 5        20 255442  419369
## 6        25 224650. 340730.
## 7        30 197222. 279970.
## 8        35 171459. 233115.
## 9        40 147724. 197034
## 10       45 119655. 166446.
## 11       50  95200. 141578.
## 12       55  79656. 120187.
## 13       60  69800.  98373.
## 14       65  56828.  74596.
## 15       70  40047   53927.
## 16       75  63801   37345
## 17       80      NA  23516
## 18       85      NA  24319.
```

Thiele log-Normal Hump RW

```
## Warning in fit_tmb(input.thiele.loghump.oag.vec.RW, inner_verbose = FALSE, : convergence error: false c
```

```
##    user   system elapsed
##   97.93    1.21   99.81
```
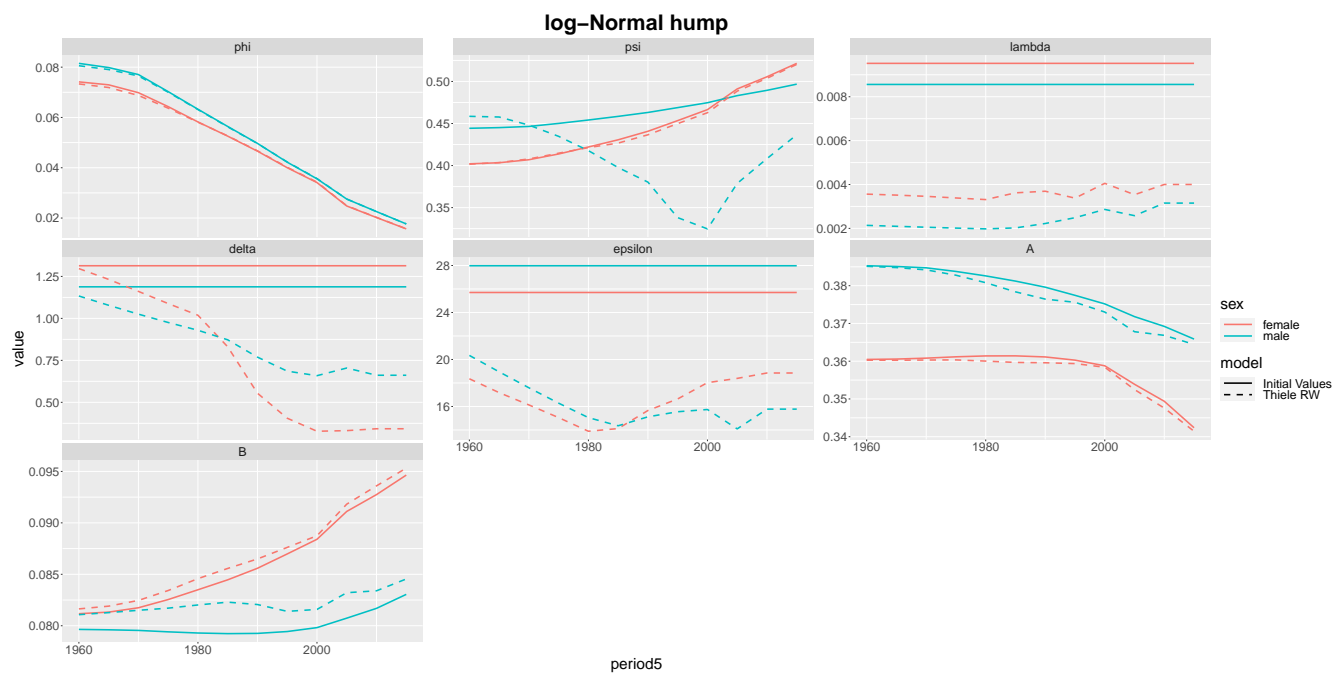
```
## [1] "false convergence (8)"
```

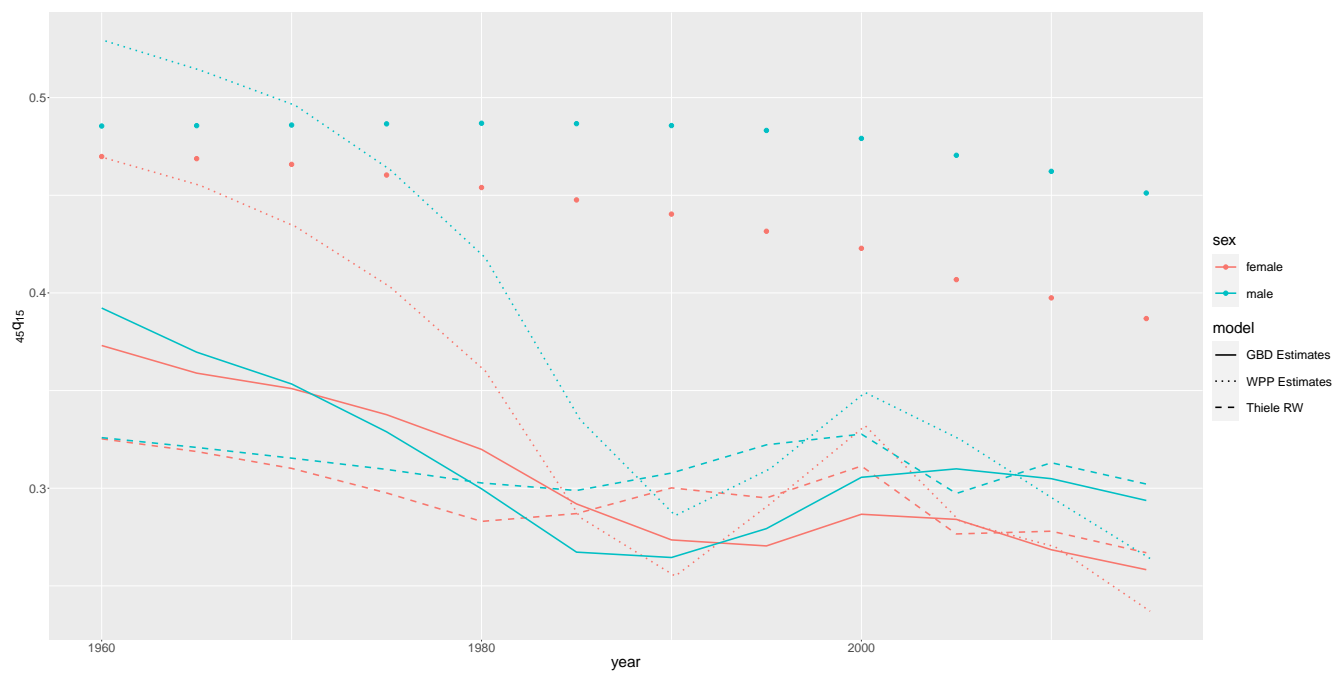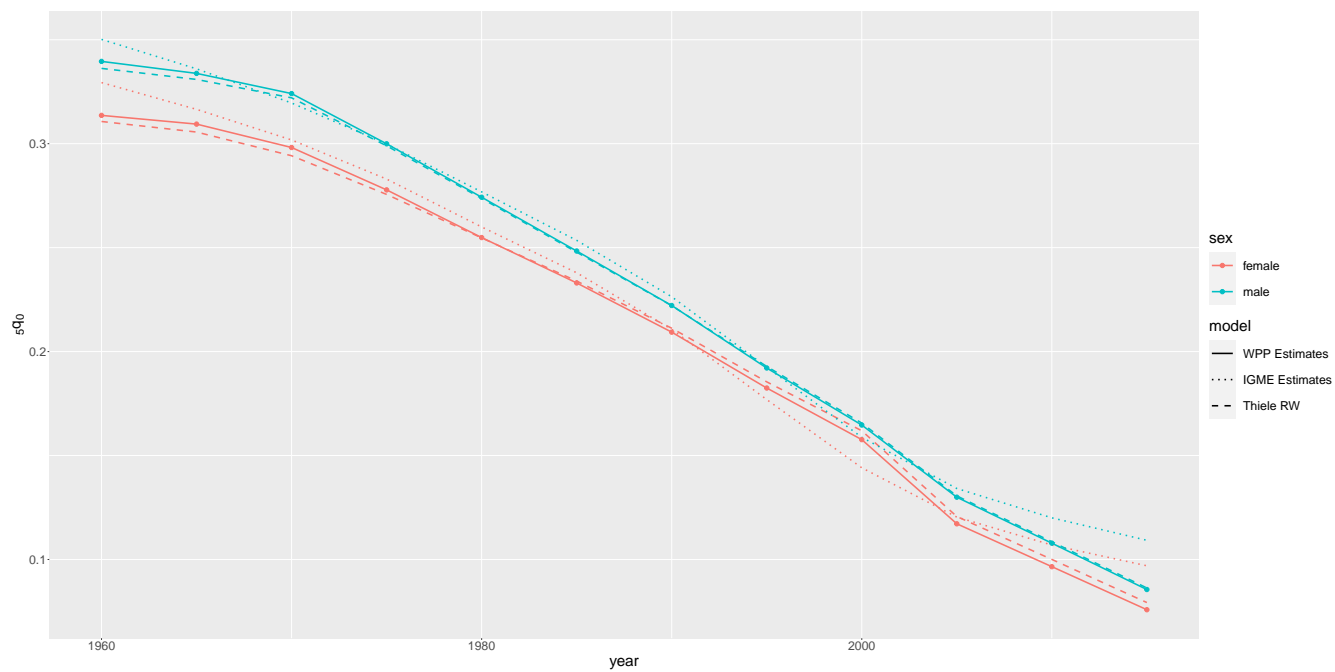Figure 1: Estimated parameters

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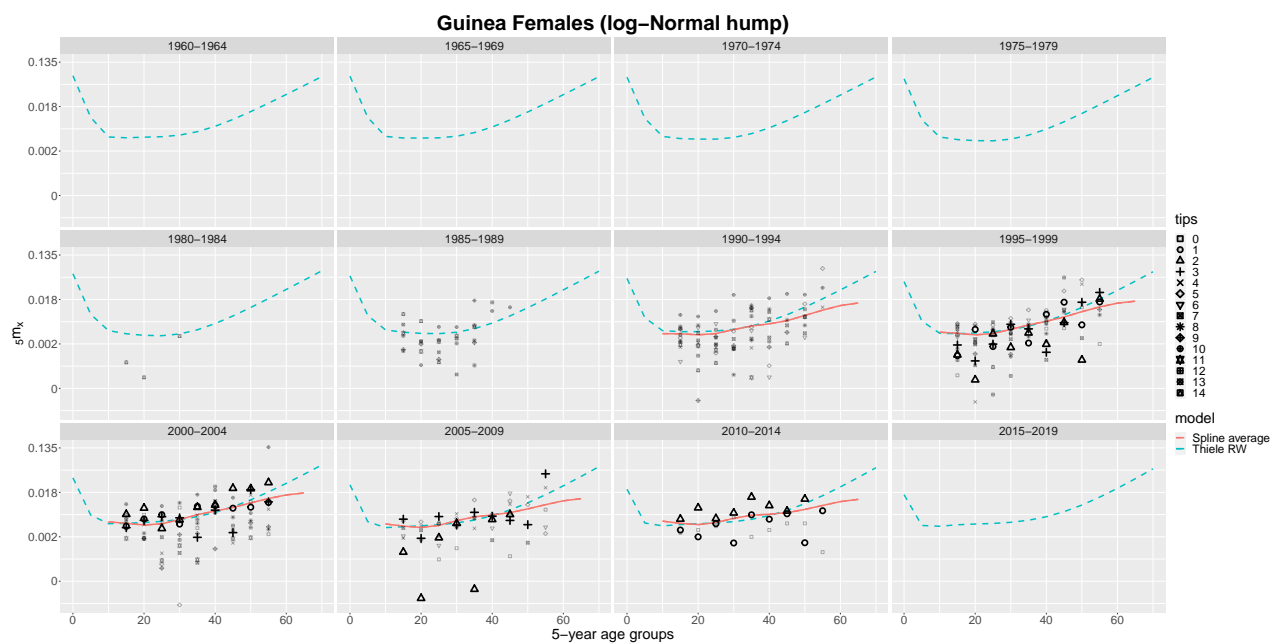

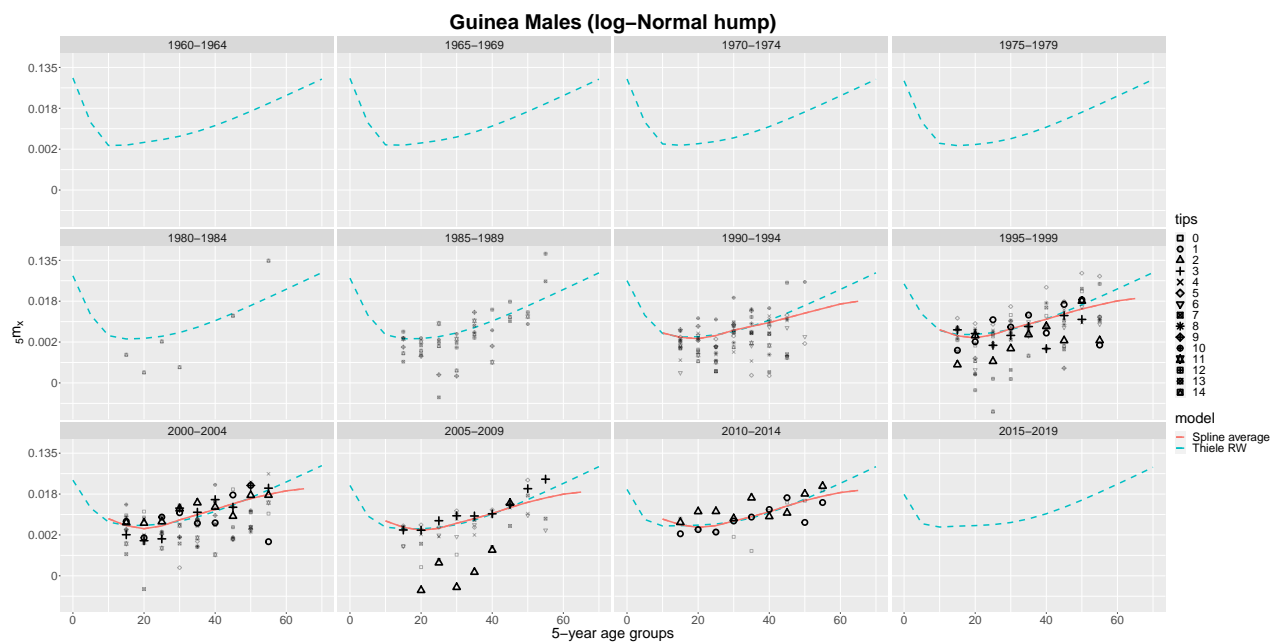Figure 3: Estimated $_5q_0$

4

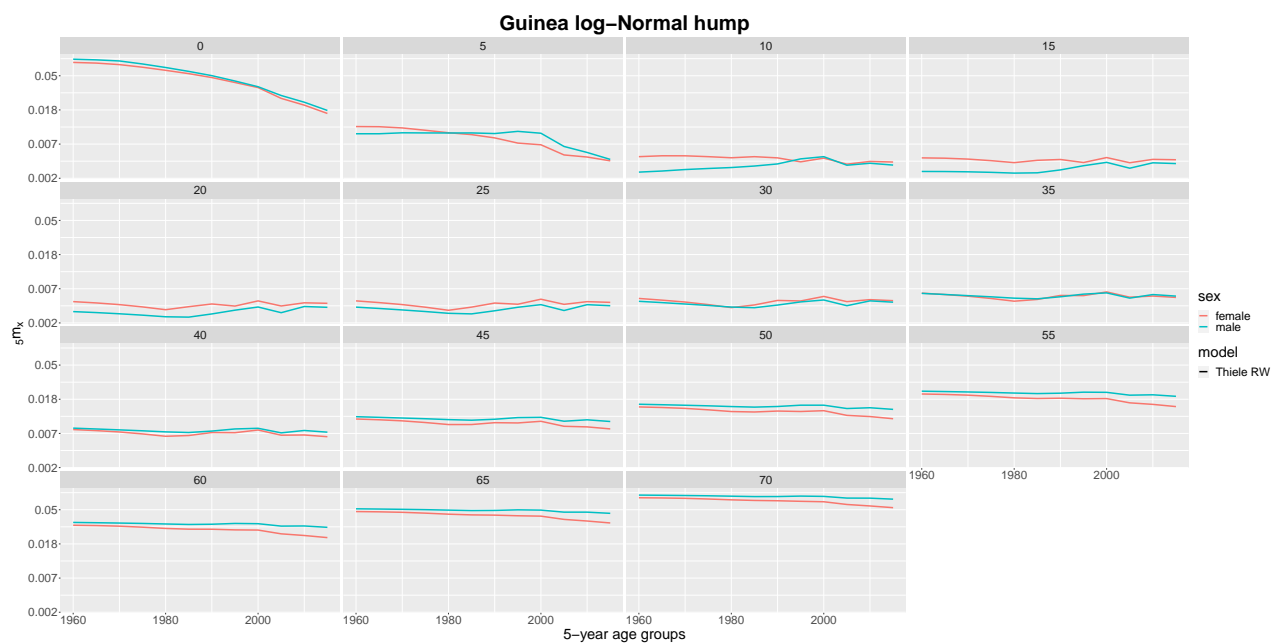Figure 4: Mortality Schedules

Figure 5: Mortality Schedules
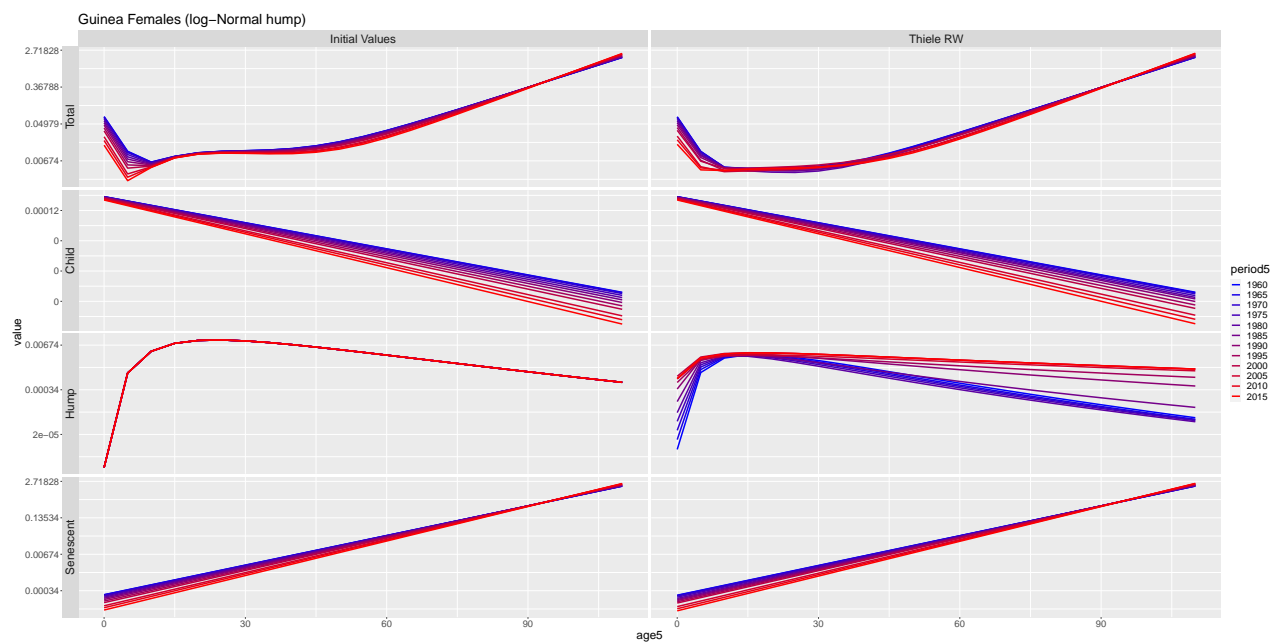
5

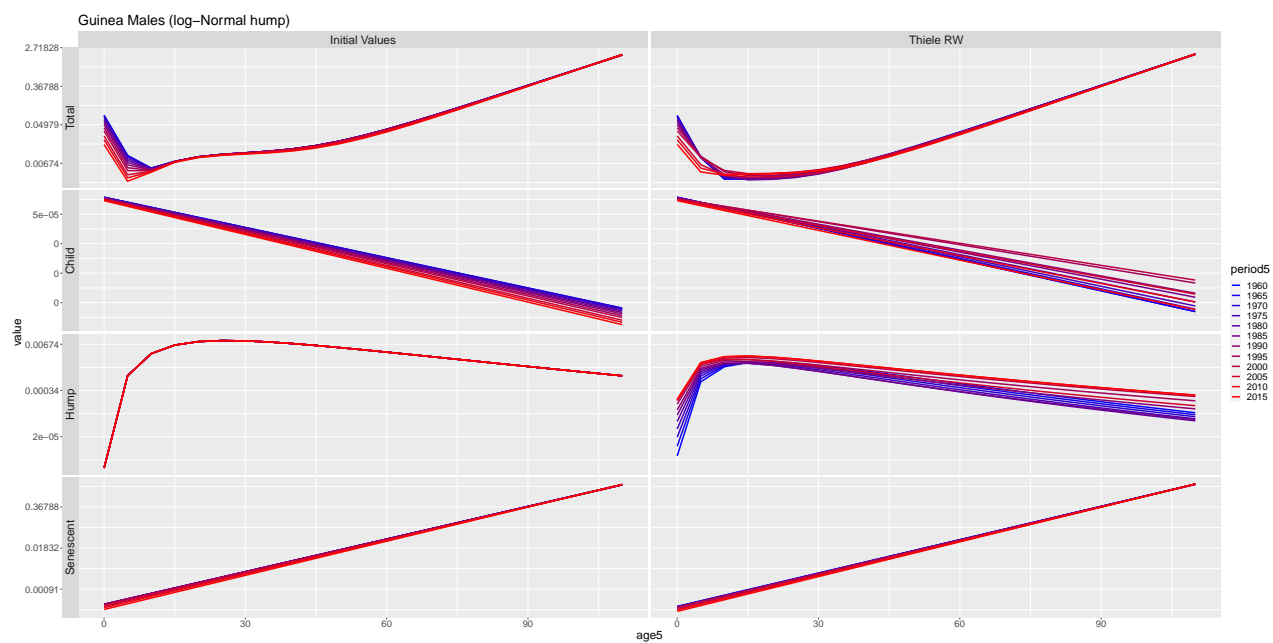Figure 6: Mortality Schedules
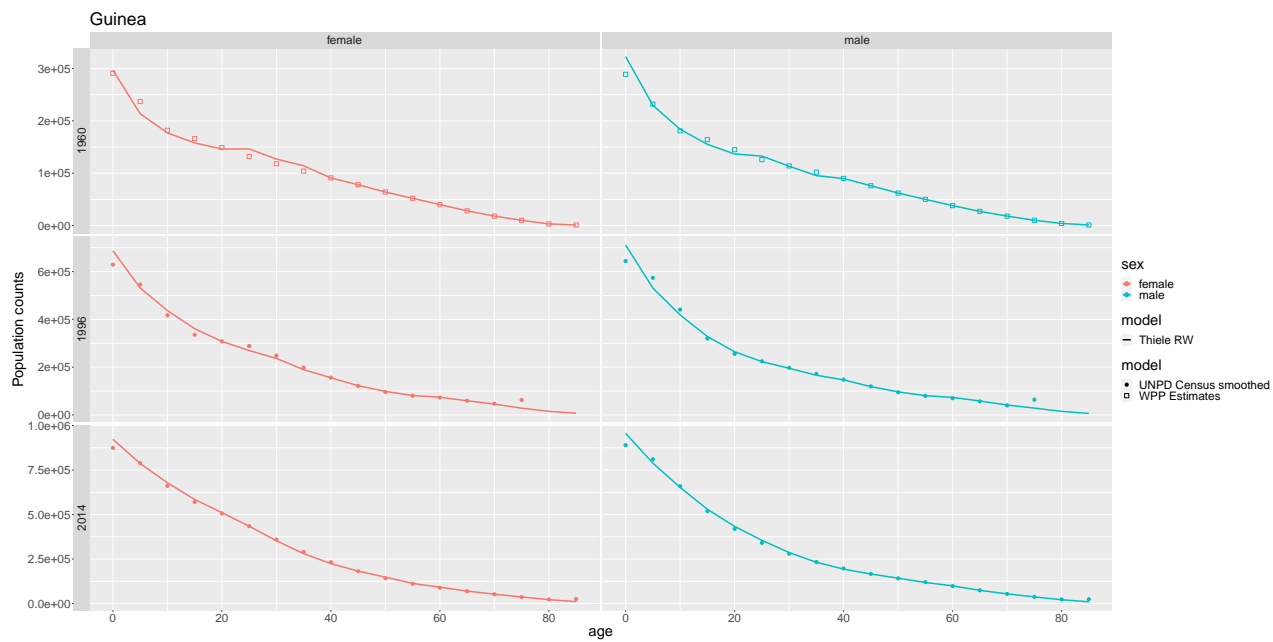

Figure 7: Thiele Decomposed
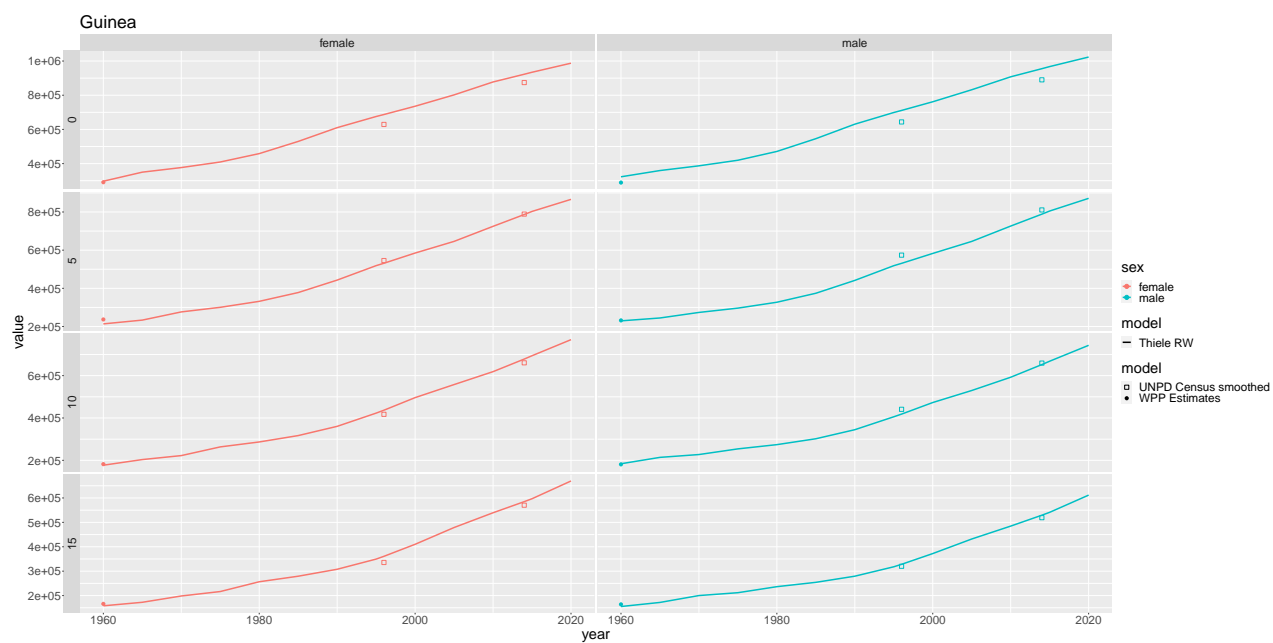
Figure 8: Thiele Decomposed
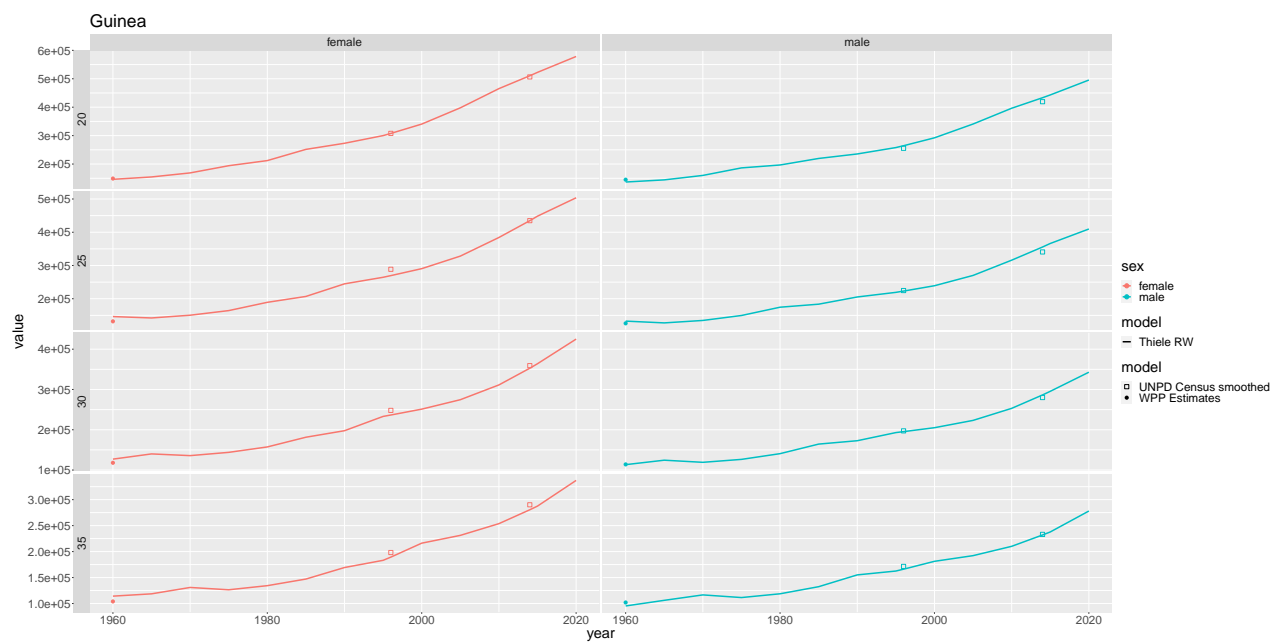

Figure 9: Population

7

Figure 10: Population
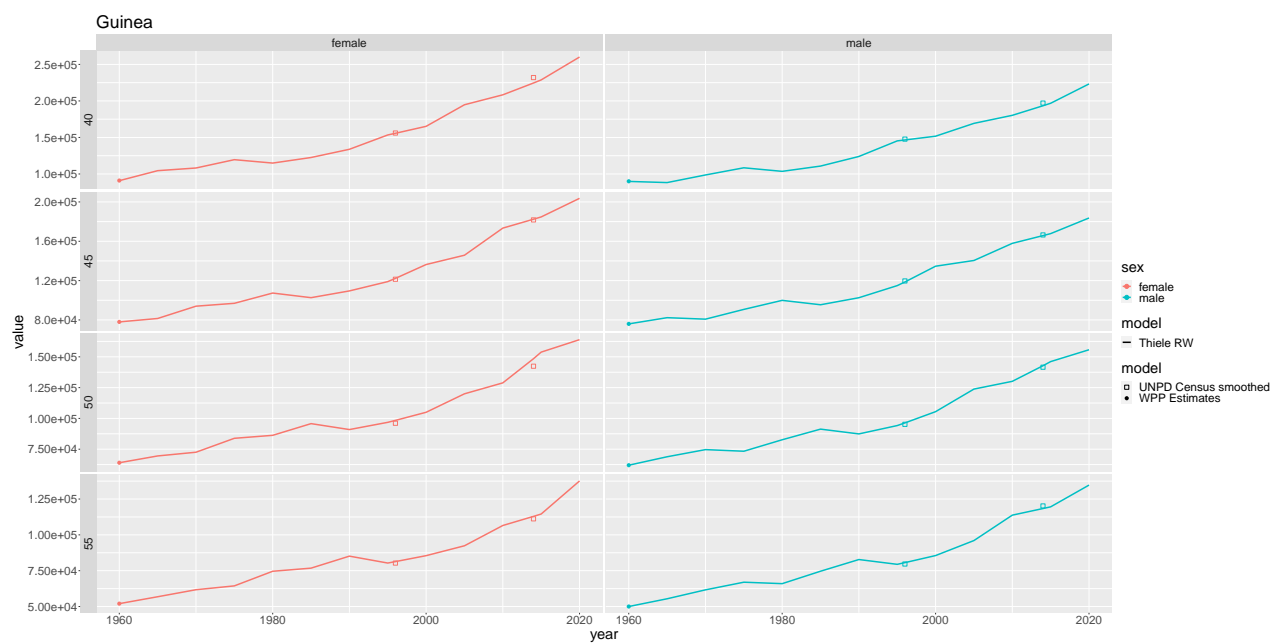

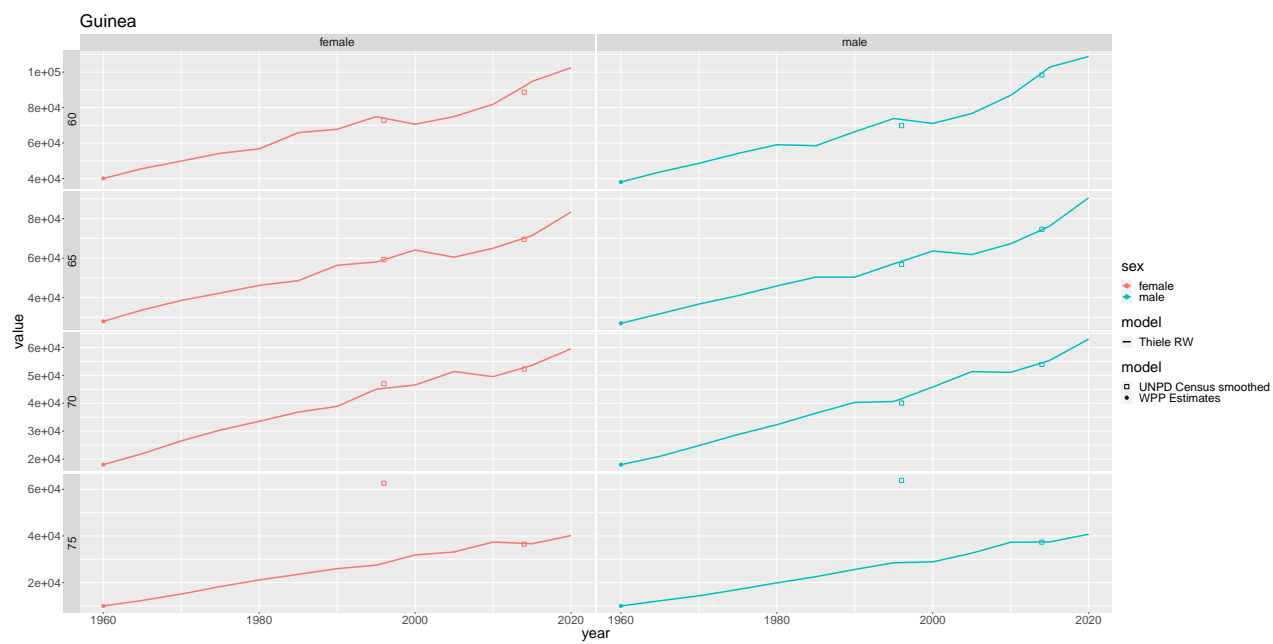Figure 11: Population
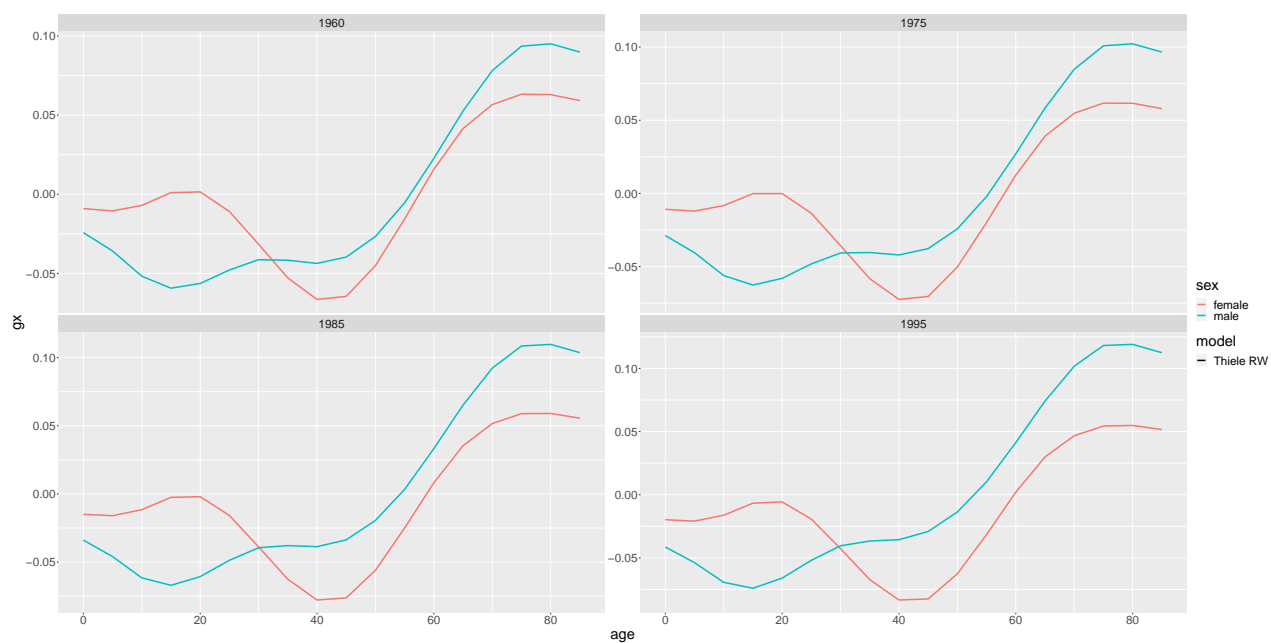
8

Figure 12: Population

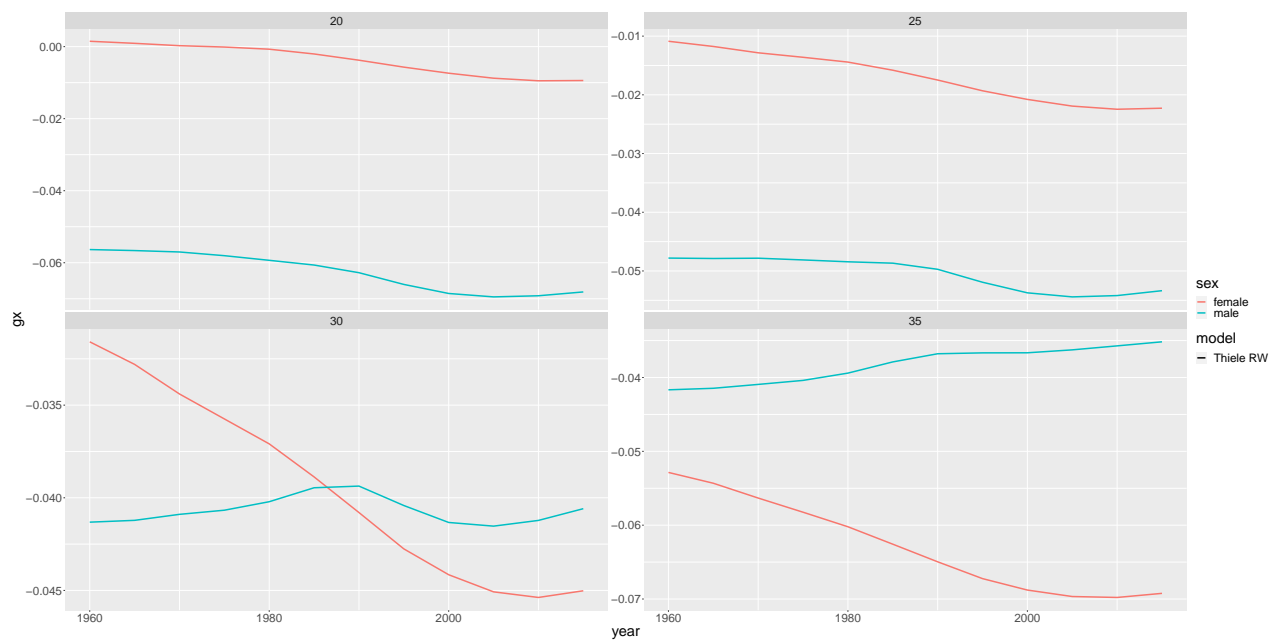Figure 13: Population

9
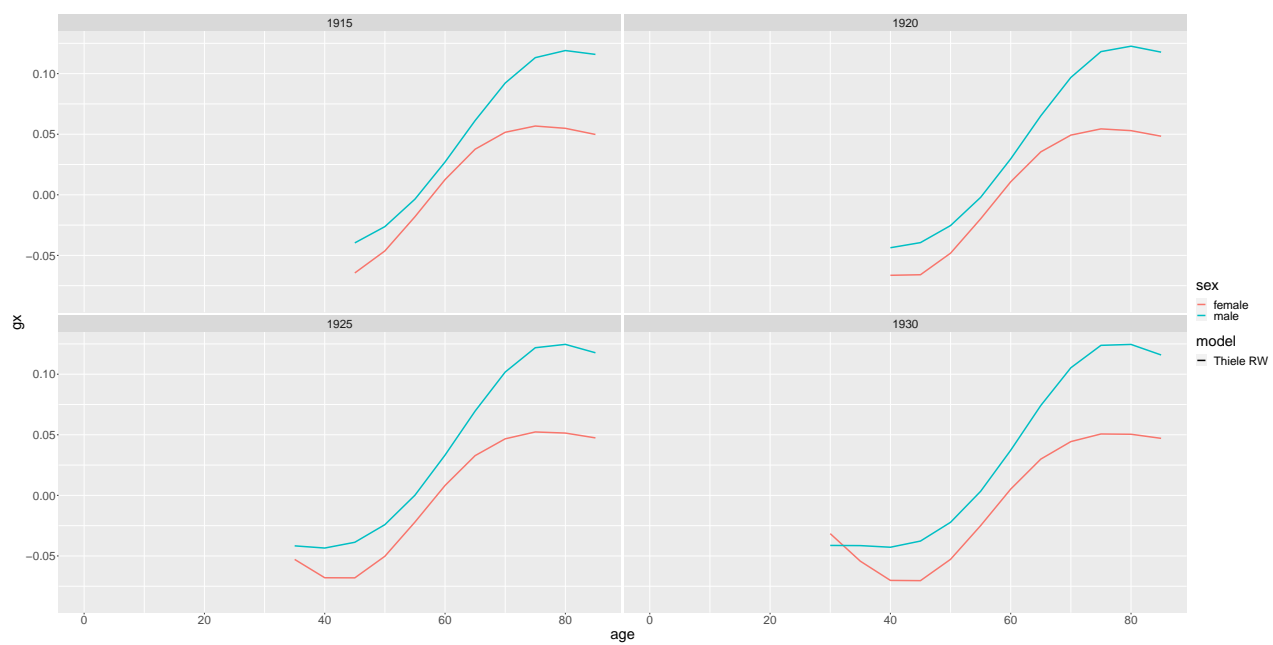
Figure 14: Migration
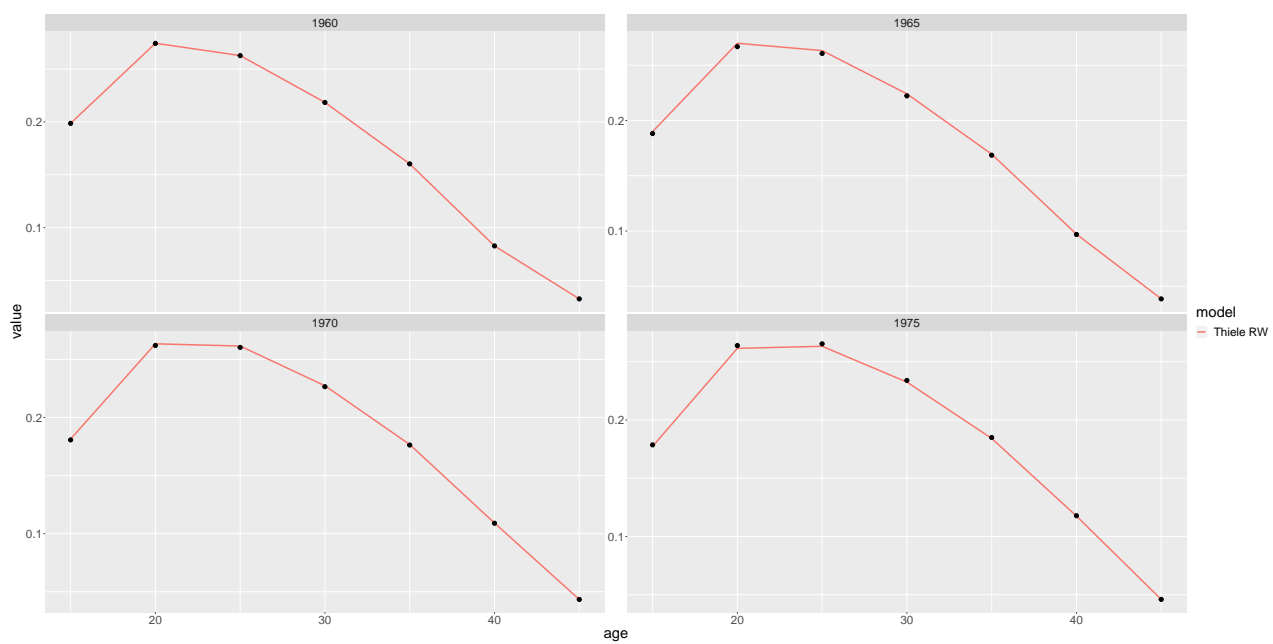

Figure 15: Migration
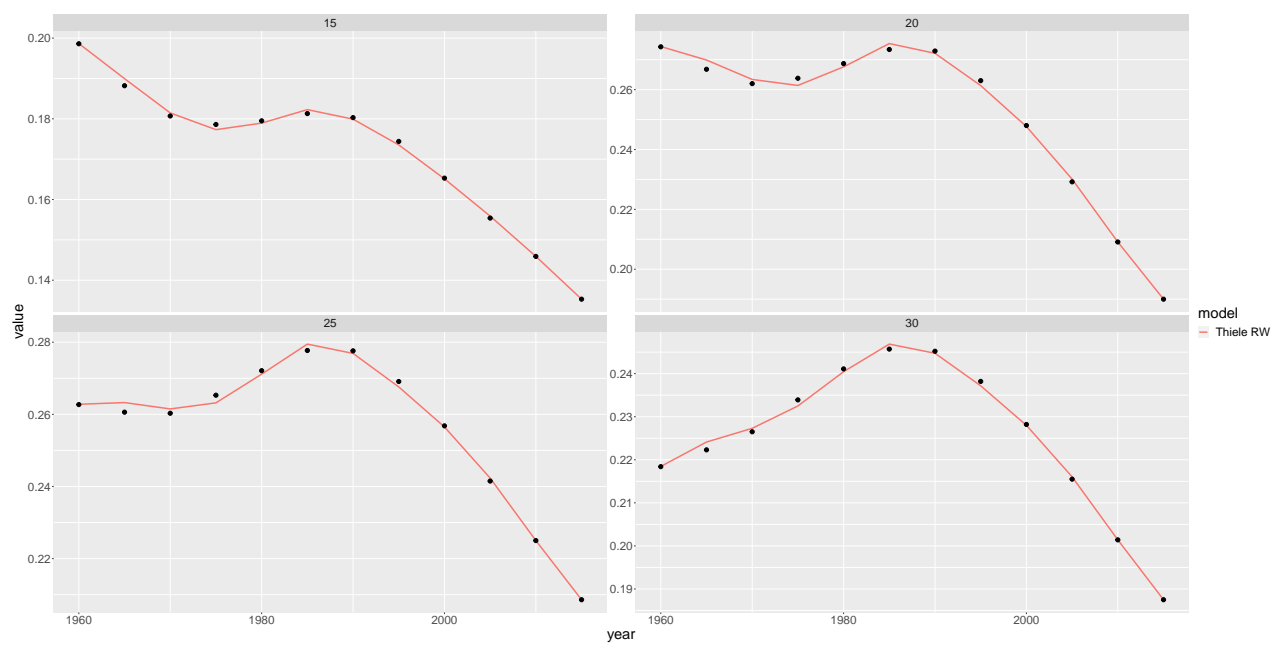
Figure 16: Migration

Figure 17: Fertility

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Figure 18: Fertility