

# Burundi

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

```
## # A tibble: 18 x 4
```

```
##   aggr.age `1979` `1990` `2008`  
## *   <dbl>   <dbl>   <dbl>   <dbl>  
## 1      0 351217. 497543. 730172.  
## 2      5 283841. 415359. 584011.  
## 3     10 246185. 325523. 545644.  
## 4     15 233752. 261023. 470991.  
## 5     20 205602. 231259. 397348.  
## 6     25 156787. 211697. 318152.  
## 7     30 117321. 181360. 245358.  
## 8     35  96868. 139136. 191601.  
## 9     40  85160. 101640. 158559.  
## 10    45  73888.  81254. 131553.  
## 11    50  61436.  69706. 104268.  
## 12    55  51258.  57935.  79485.  
## 13    60  44370.  47378.  57035.  
## 14    65  34656.  37458.  41254.  
## 15    70  24107.  29164.  30206.  
## 16    75  15919.  20905.  21783.  
## 17    80   8678.  12881.  14501.  
## 18    85   8387.  15012.  13832.
```

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

```
## # A tibble: 18 x 4
```

```
##   aggr.age `1979` `1990` `2008`  
## *   <dbl>   <dbl>   <dbl>   <dbl>  
## 1      0 346363. 495595. 709439.  
## 2      5 281131. 411904. 561403.  
## 3     10 243533. 321351. 513469.  
## 4     15 226268. 250772. 439284.  
## 5     20 194141. 212357. 373529.  
## 6     25 145324. 193126. 304454.  
## 7     30 104707. 169926. 242842.  
## 8     35  81102. 131389. 196188.  
## 9     40  68939.  92299. 164421.  
## 10    45  59998.  69012. 138811.  
## 11    50  49340.  57265. 112201.  
## 12    55  40463.  47487.  85198.  
## 13    60  34783.  38075.  59847.  
## 14    65  28076.  30203.  41328.  
## 15    70  21455.  24448.  28893.  
## 16    75  15673.  18359.  20283.  
## 17    80   9392.  12236.  13600.  
## 18    85  12196.  16557.  14153.
```

*Thiele log-Normal Hump RW*

```
##   user  system elapsed  
## 37.91   0.64   39.16
```

```
## [1] "relative convergence (4)"  
Thiele log-Normal Hump RW (Pop 5-9 to 70-74, DHS 15-19 to 45-49)  
##      user  system elapsed  
##  34.12    0.73   35.21  
## [1] "relative convergence (4)"
```

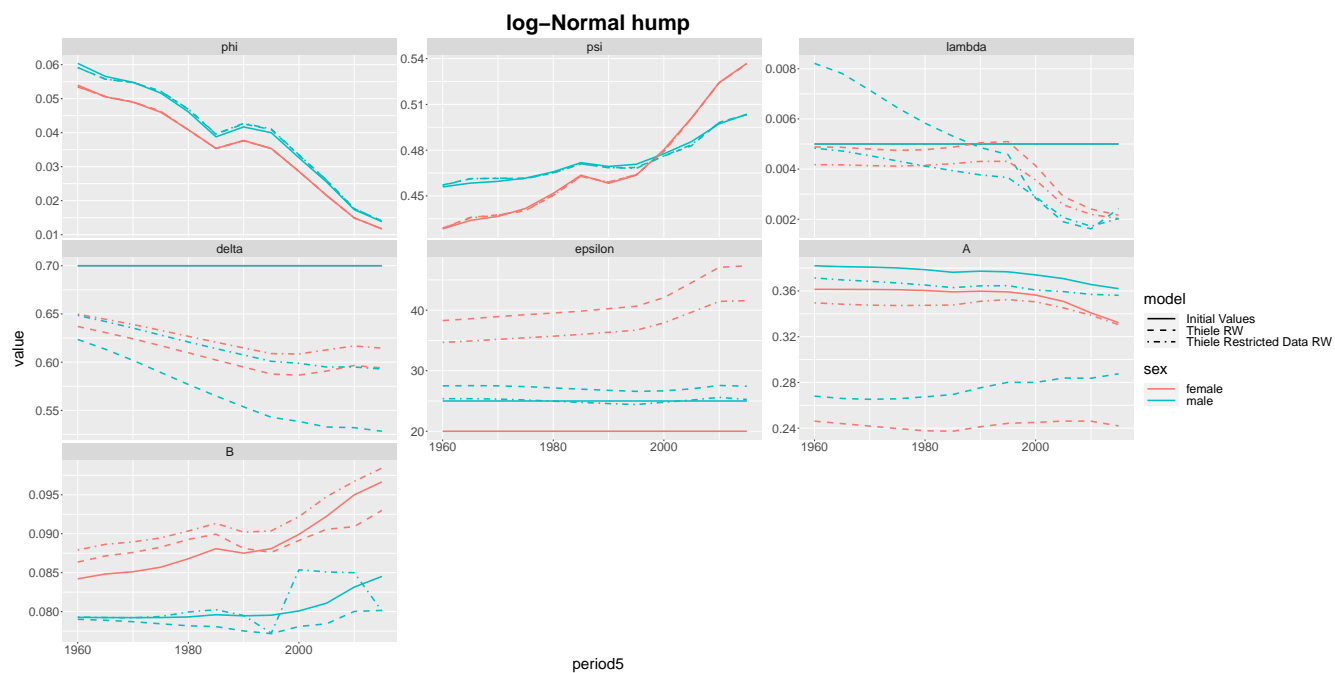


Figure 1: Estimated parameters

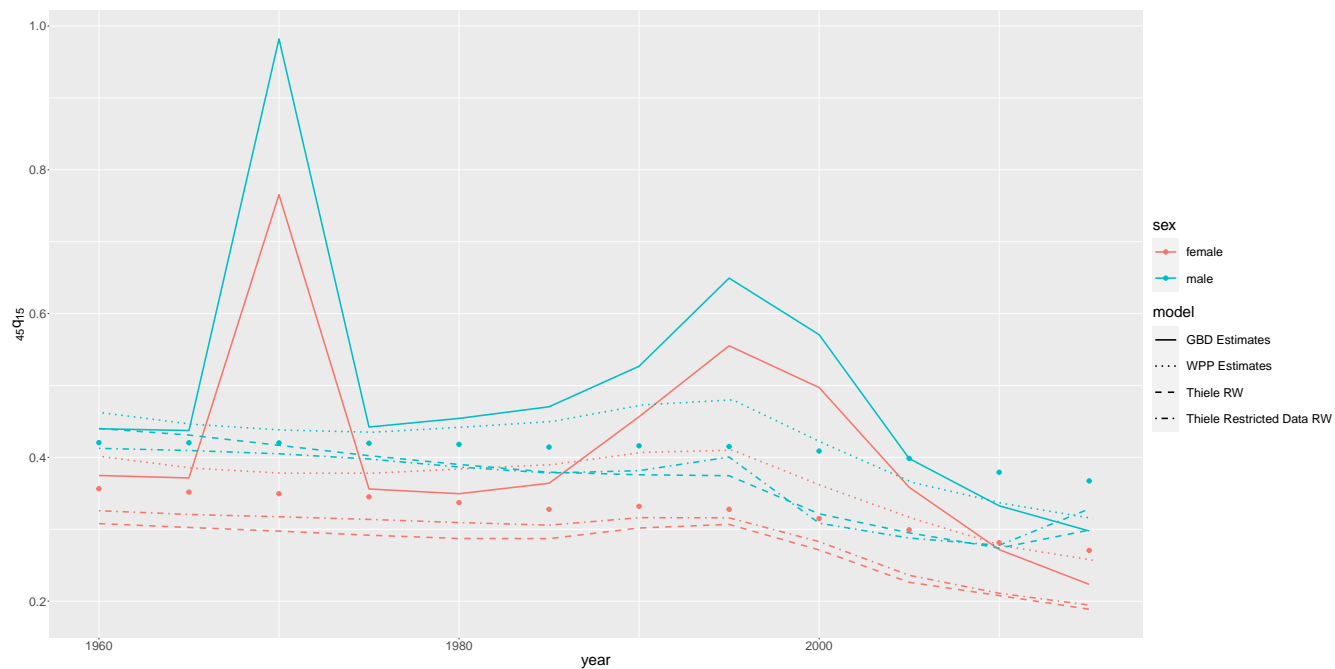


Figure 2: Estimated  $_{45}q_{15}$

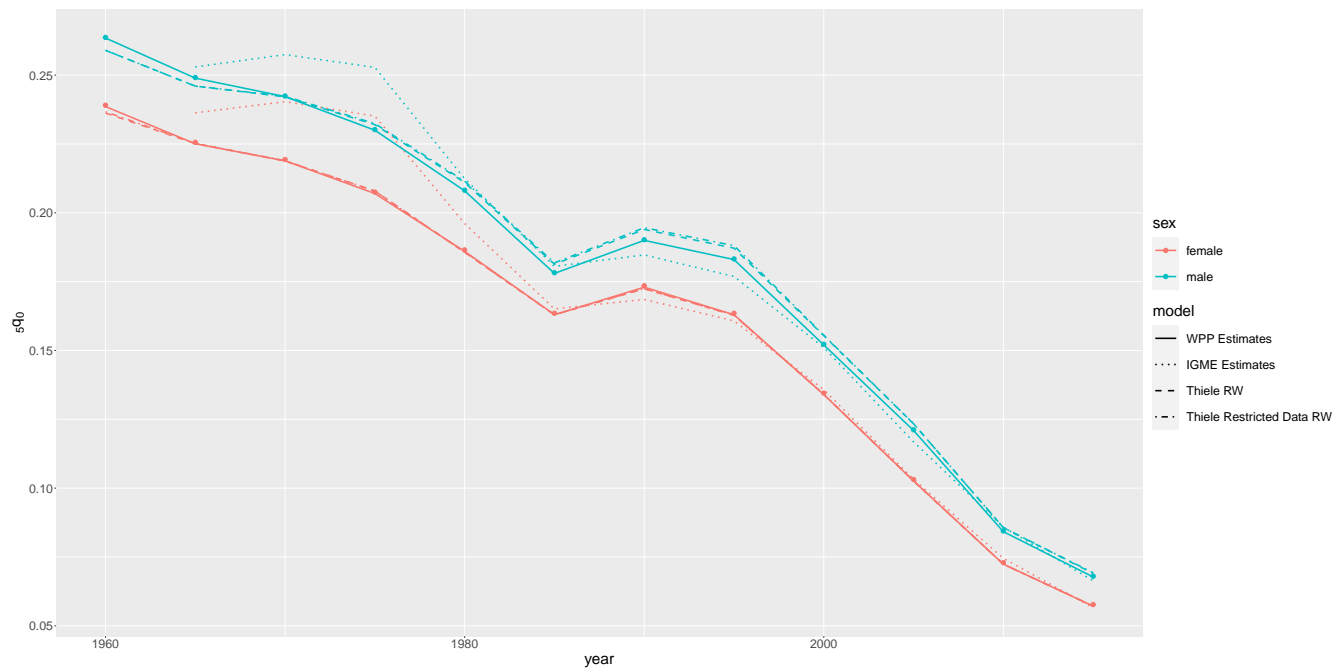


Figure 3: Estimated  $_{5}q_0$

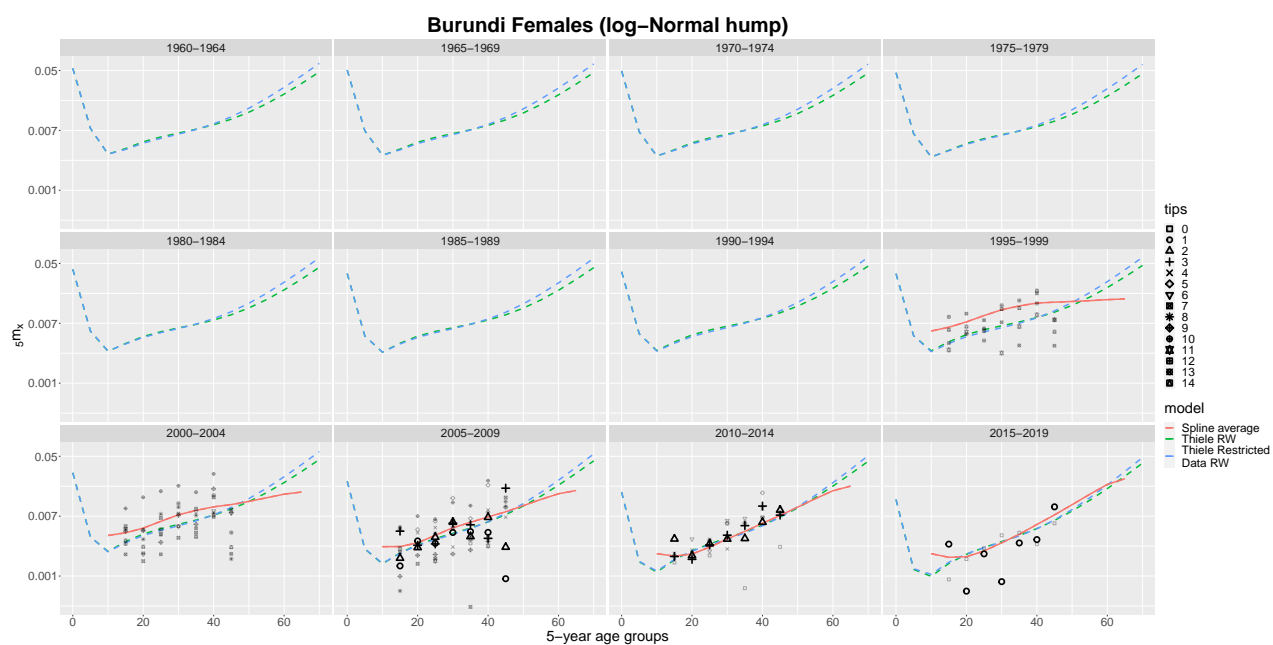


Figure 4: Mortality Schedules

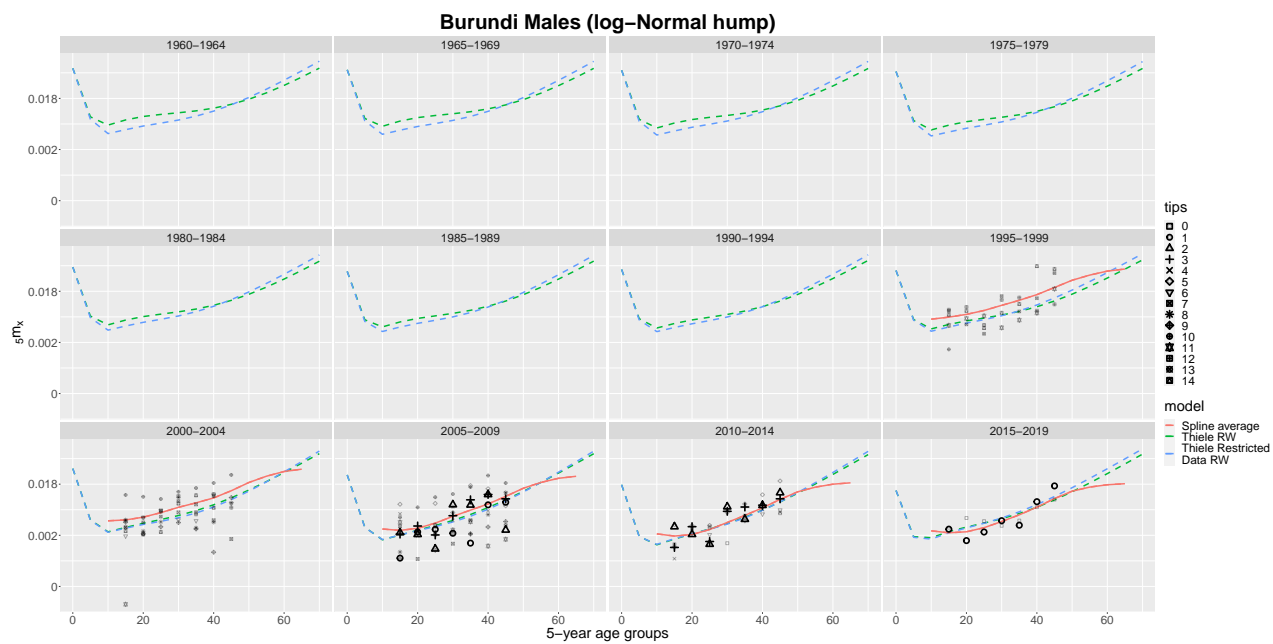


Figure 5: Mortality Schedules

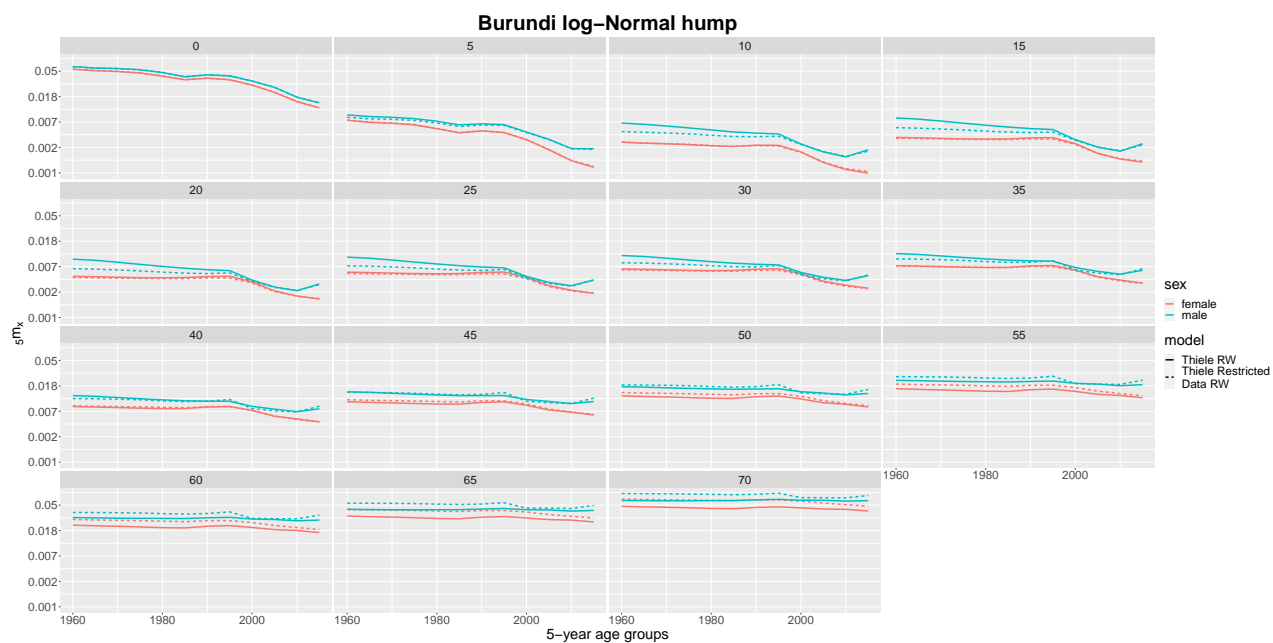


Figure 6: Mortality Schedules

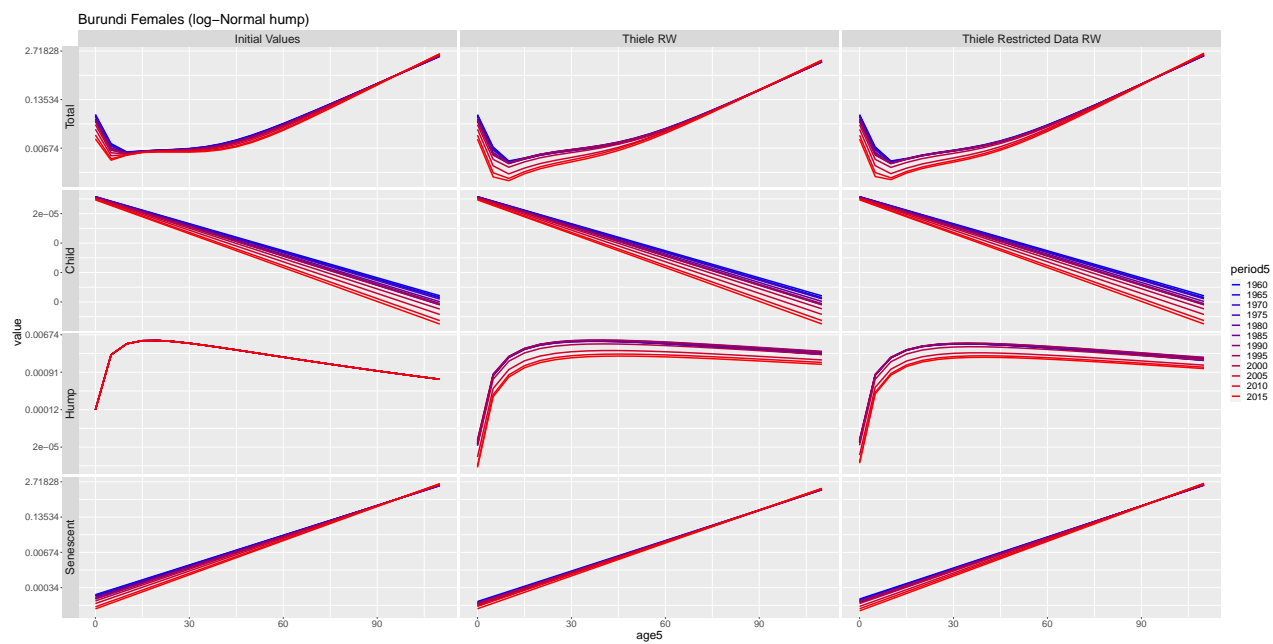


Figure 7: Thiele Decomposed

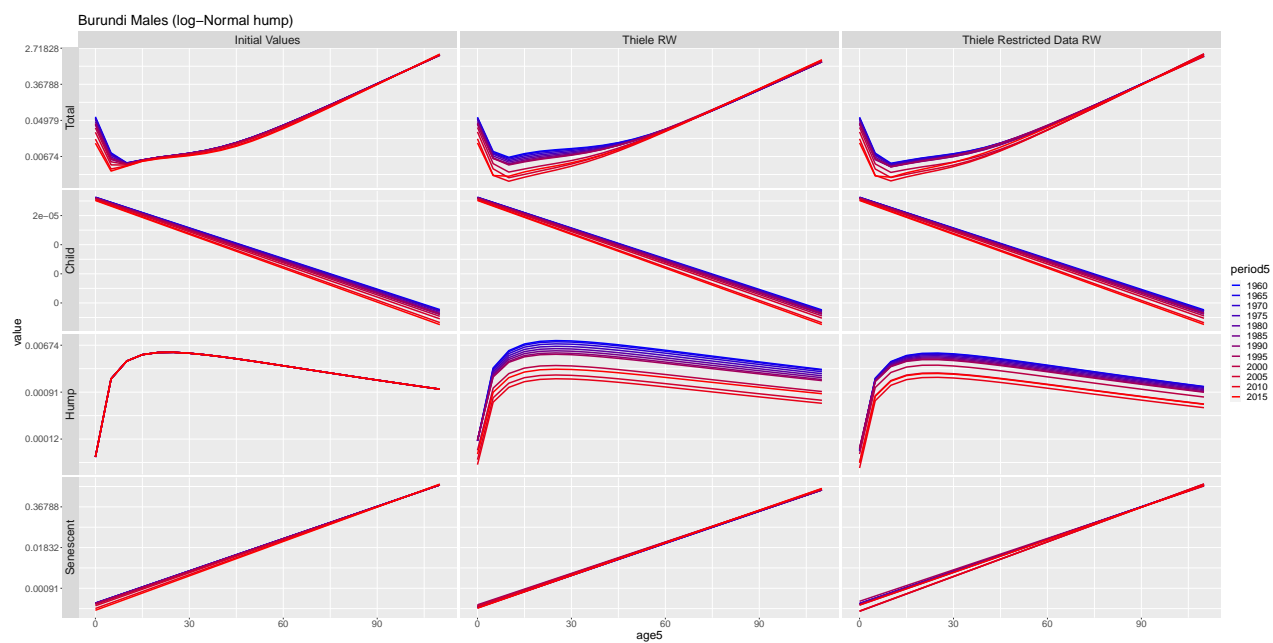


Figure 8: Thiele Decomposed

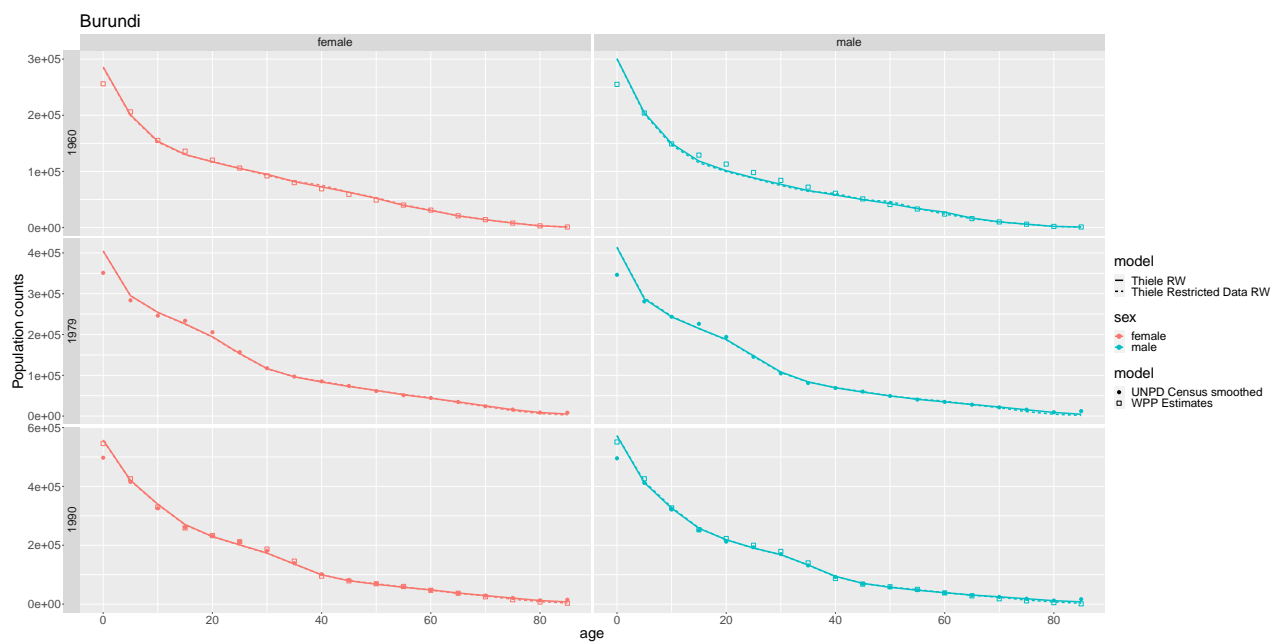


Figure 9: Population

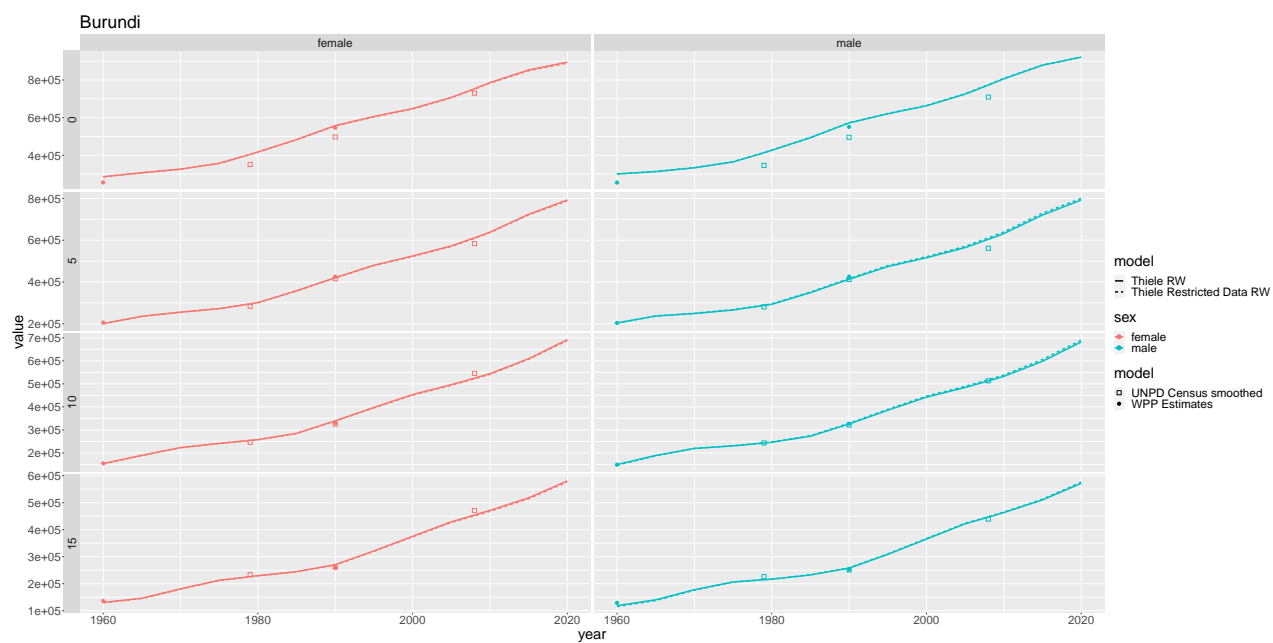


Figure 10: Population

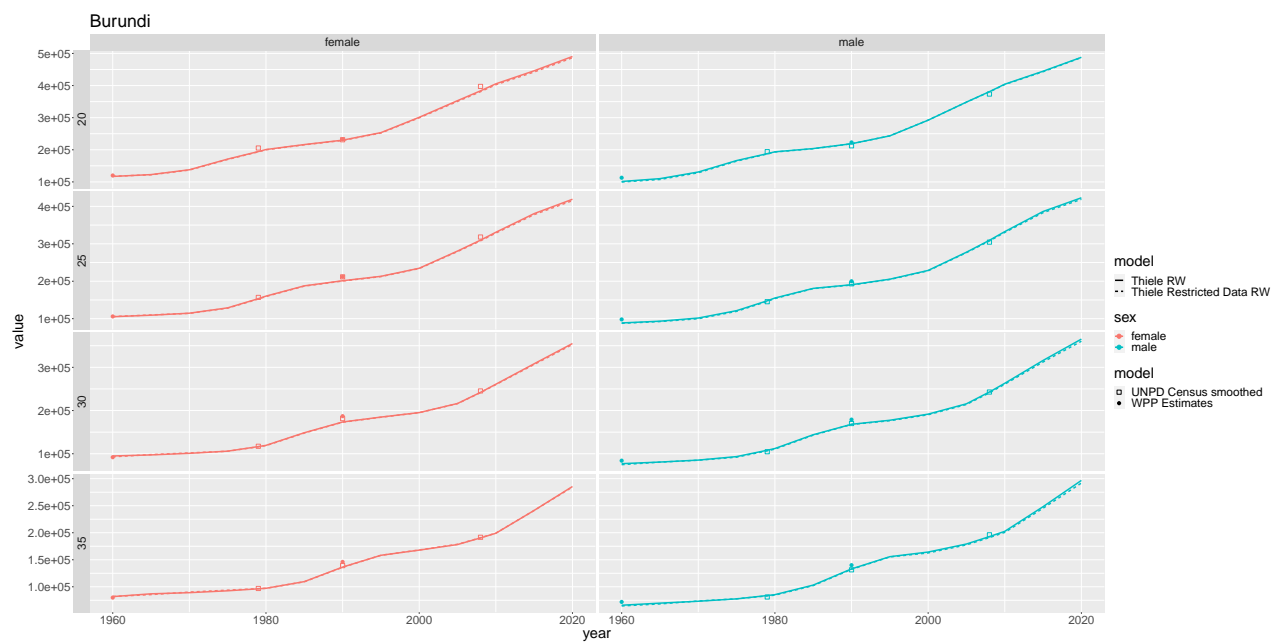


Figure 11: Population



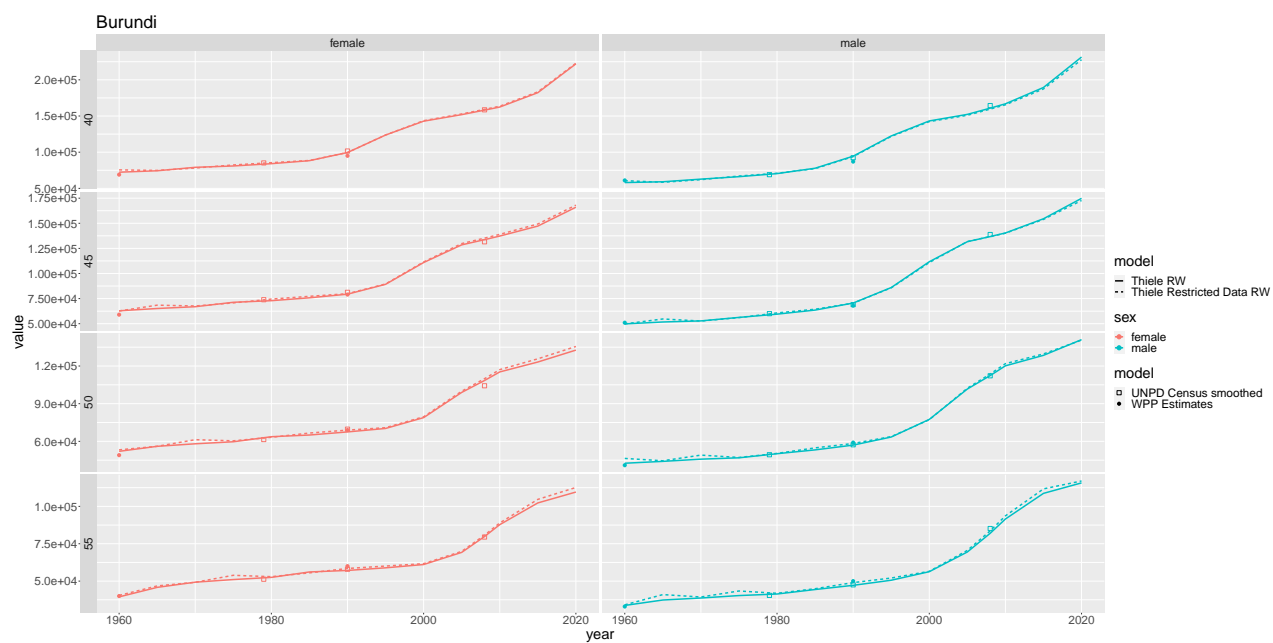


Figure 12: Population



Figure 13: Population

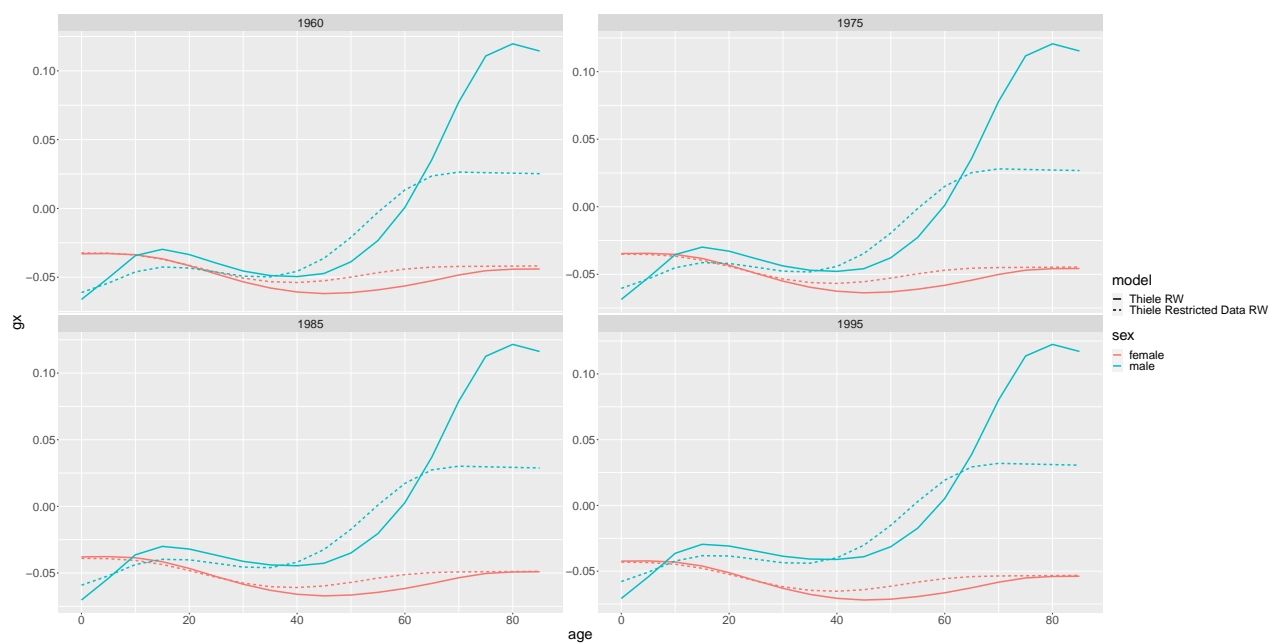


Figure 14: Migration

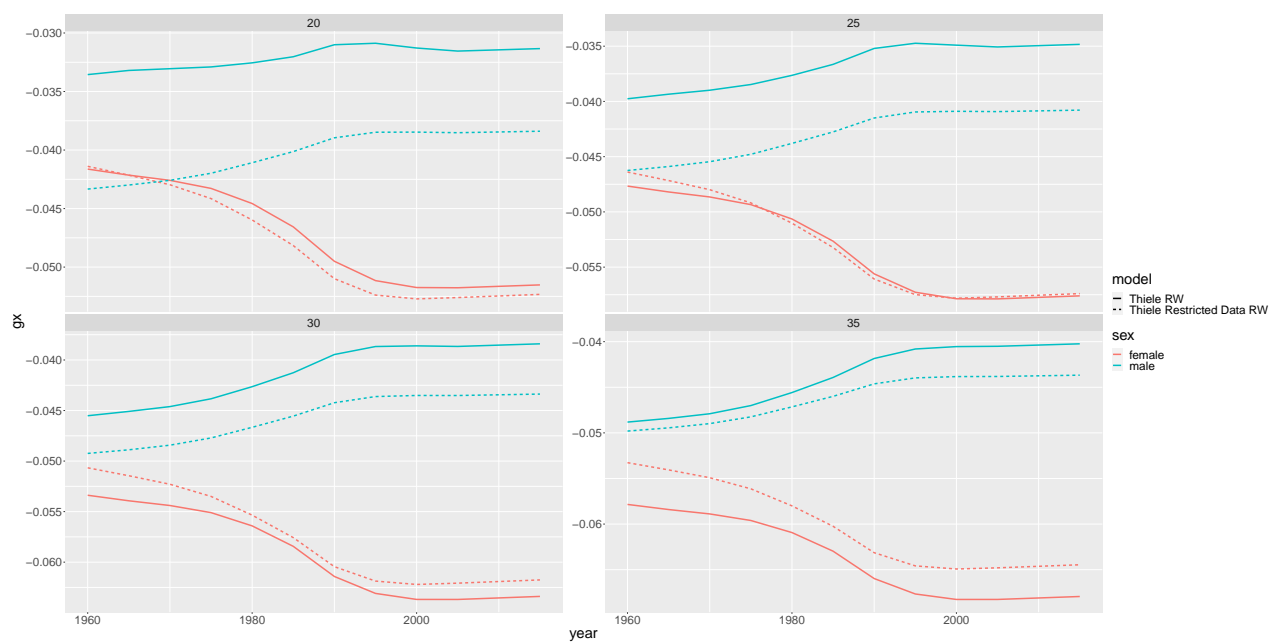


Figure 15: Migration

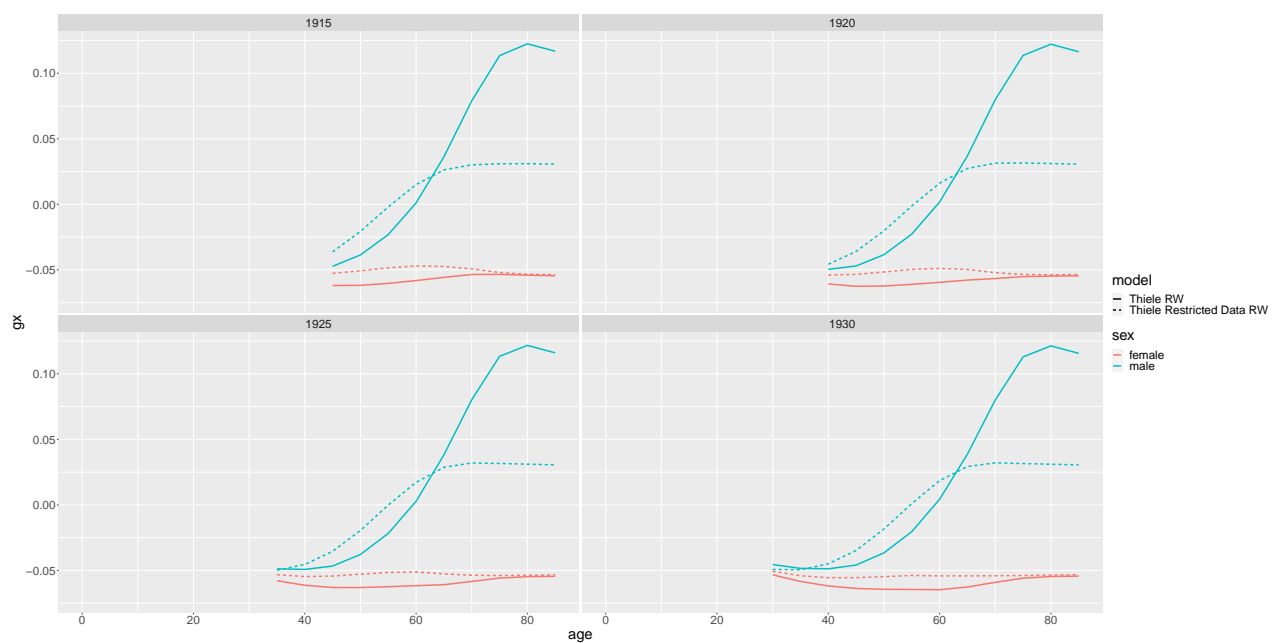


Figure 16: Migration

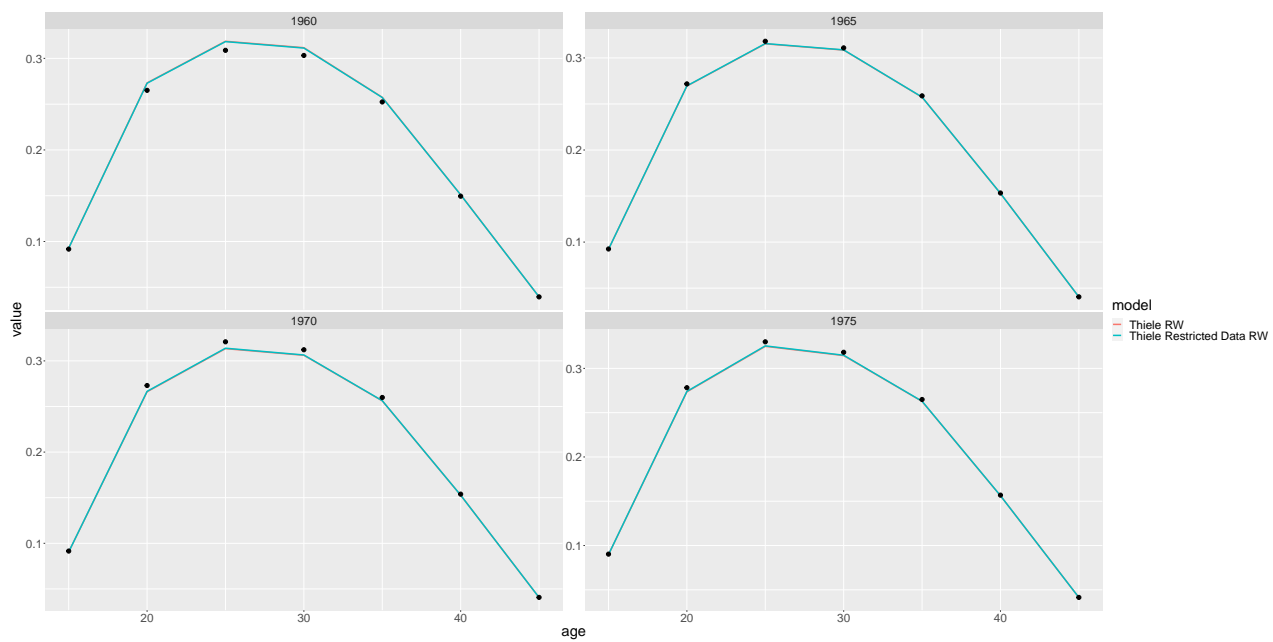


Figure 17: Fertility

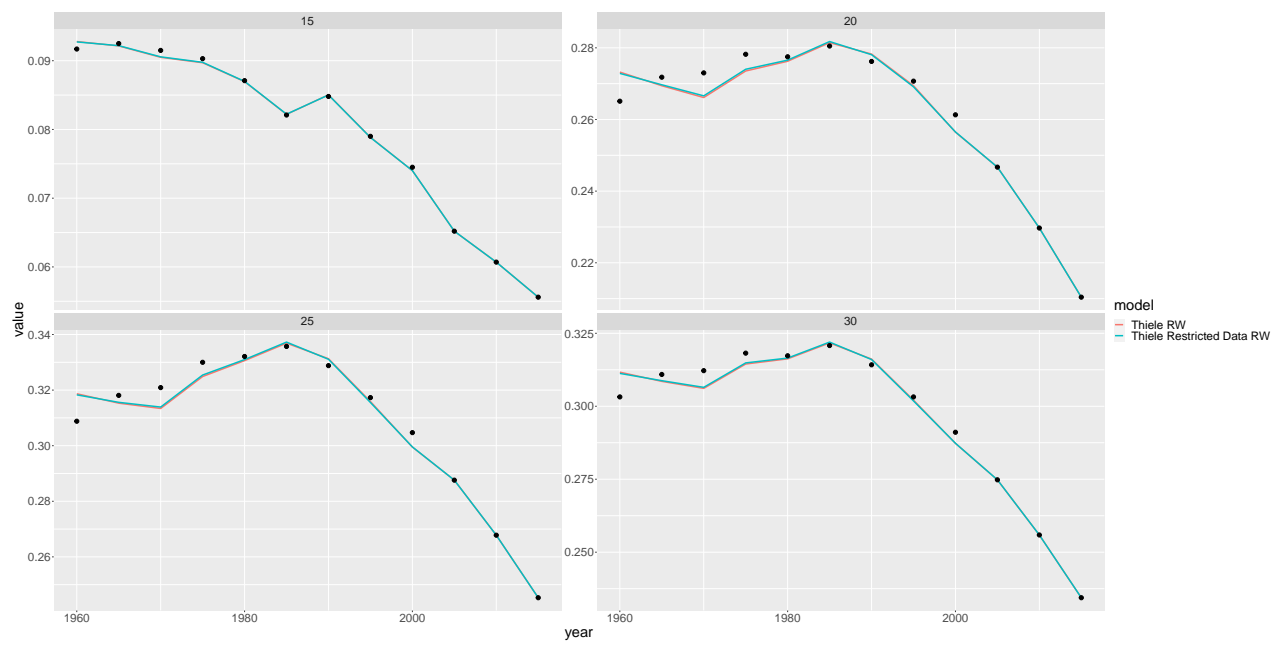


Figure 18: Fertility