

Mozambique

[1] "Census Females"

```
## # A tibble: 18 x 5
##   aggr.age `1970` `1980` `1997` `2007`
## *   <dbl>   <dbl>   <dbl>   <dbl>   <dbl>
## 1      0 723077 1064130. 1388350 1963660.
## 2      5 615358 912491. 1123532. 1594522.
## 3     10 436100. 716104. 931153. 1243611.
## 4     15 318958. 571487. 853550. 1038278.
## 5     20 320232. 500286. 790943. 951448.
## 6     25 335818 441540. 653526. 834306.
## 7     30 319309. 382720. 509496 683334.
## 8     35 277668 327087. 409375. 542334.
## 9     40 223728 273286. 329197. 415756.
## 10    45 172490 221183. 269851. 332424.
## 11    50 129875 171975. 220113 275973.
## 12    55 102099. 132512. 171406 215040.
## 13    60 80779 105655. 133428. 163891.
## 14    65 50631 77596. 98570. 124119.
## 15    70 19726 51011. 63340 87866.
## 16    75 12937 33819. 38412. 57908.
## 17    80    NA 24471. 22126. 34254.
## 18    85    NA 23509. 17850 30523.
```

[1] "Census Males"

```
## # A tibble: 18 x 5
##   aggr.age `1970` `1980` `1997` `2007`
## *   <dbl>   <dbl>   <dbl>   <dbl>   <dbl>
## 1      0 697822 1018835. 1353206 1917794.
## 2      5 652180. 914042. 1131271 1578767.
## 3     10 503181. 768139. 945280 1239592.
## 4     15 360521. 581307. 783251. 962135.
## 5     20 305990. 425760. 639416. 795540.
## 6     25 282238. 349815. 516370. 693327.
## 7     30 262403. 308554. 425804. 589094.
## 8     35 239745. 270596. 356955 478250.
## 9     40 203729. 243736. 292744. 383917.
## 10    45 160248. 214258. 240772 310056.
## 11    50 116962. 172993. 194249 244428.
## 12    55 89211. 131372. 154370. 189850.
## 13    60 74190. 99948. 122804. 147036.
## 14    65 50689. 71866. 90648 110029.
## 15    70 18859 47637. 59192 78466.
## 16    75 10545 31136. 36442. 51400.
## 17    80    NA 20838. 20295 29215.
## 18    85    NA 21862. 16724 27477.
```

Thiele log-Normal Hump RW

```
##   user system elapsed
## 24.52 0.39 25.08
```

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

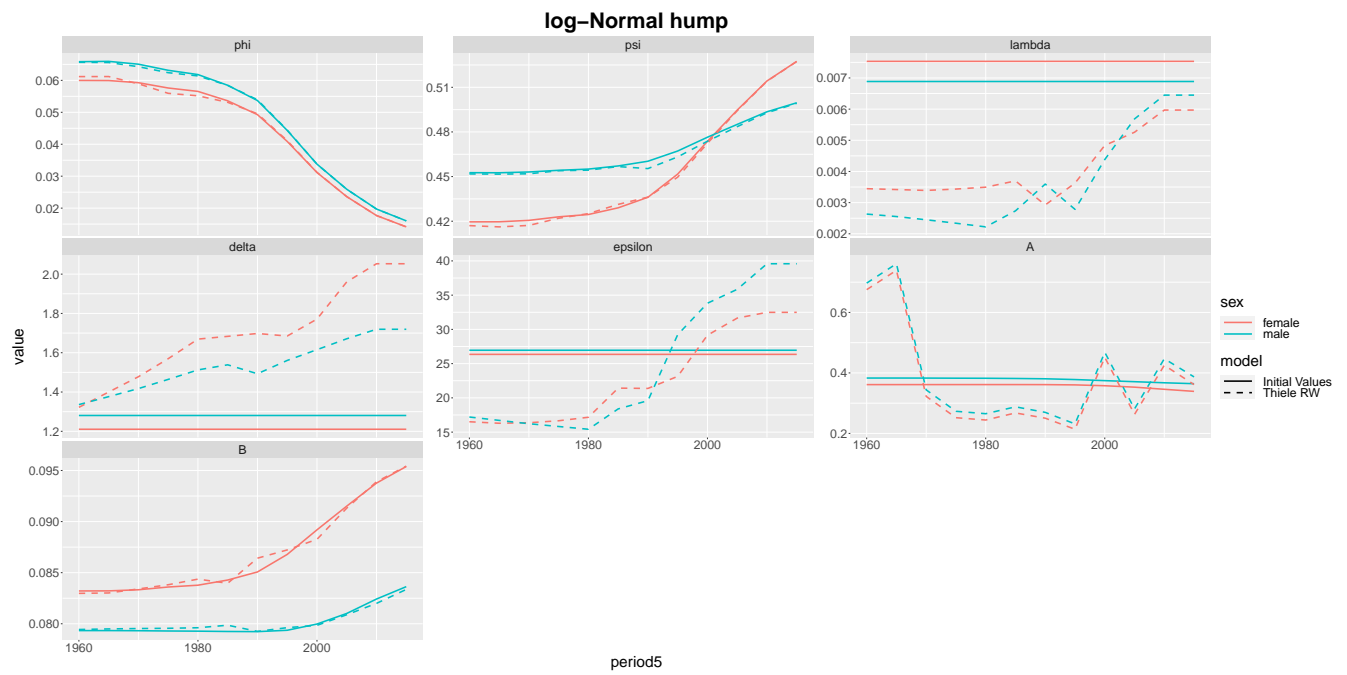


Figure 1: Estimated parameters



Figure 2: Estimated $45q_{15}$

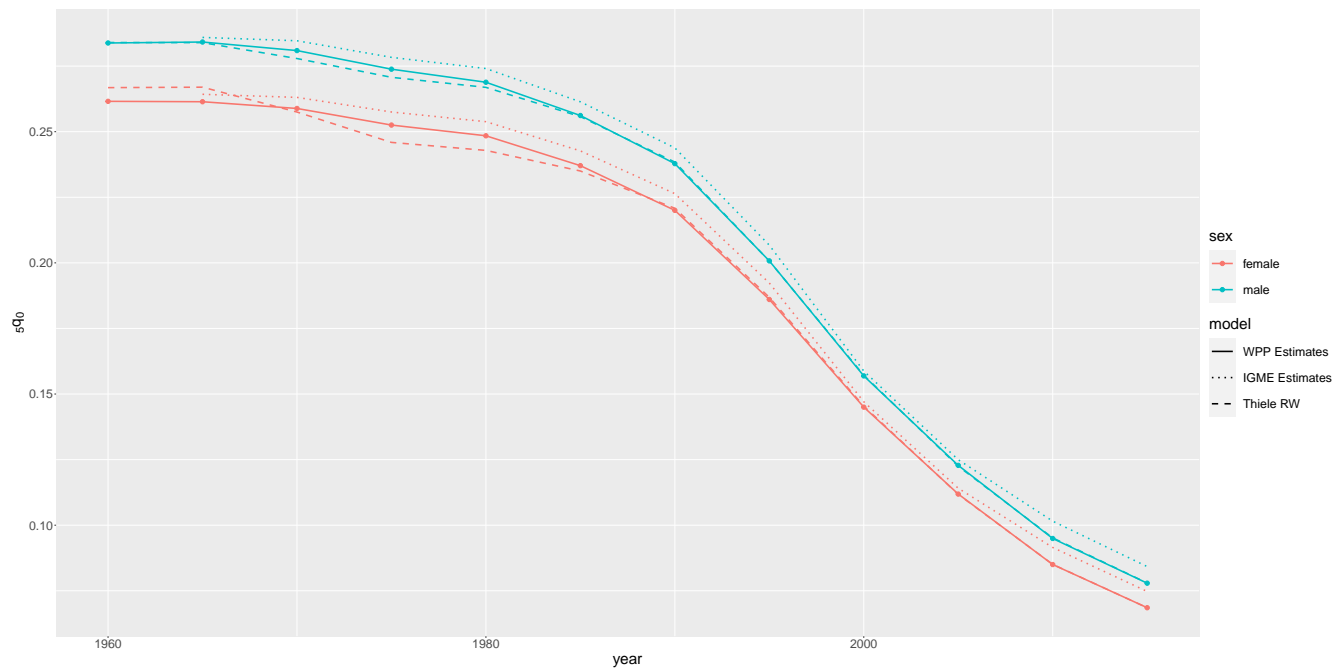


Figure 3: Estimated $5q_0$

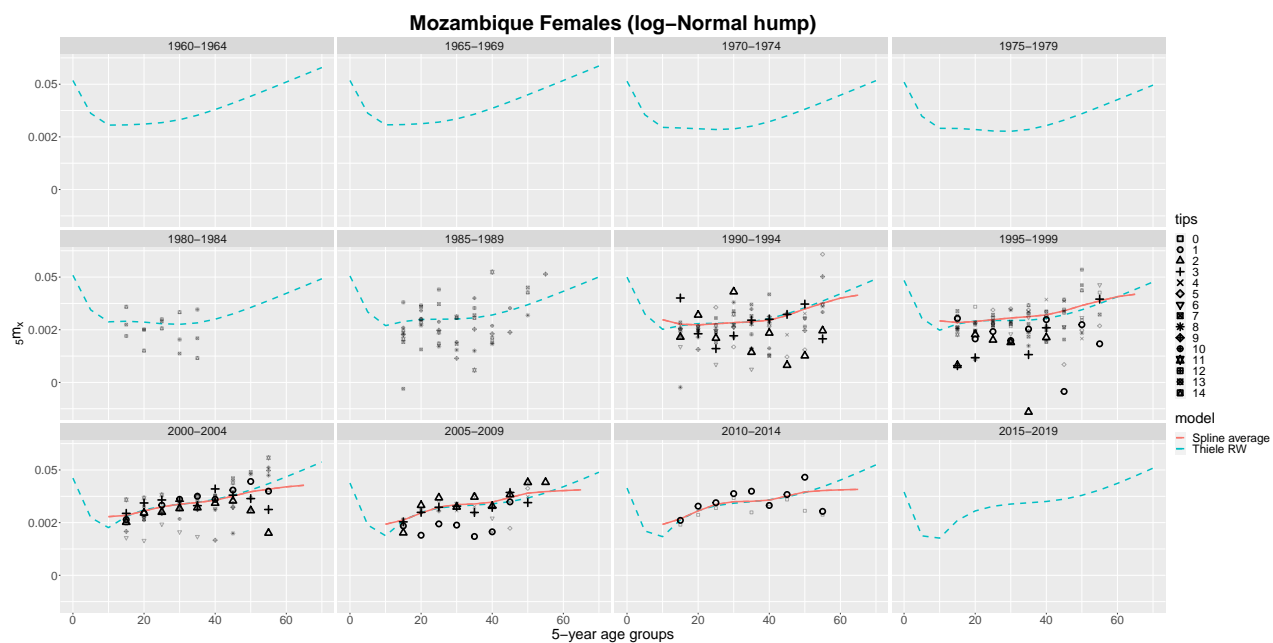


Figure 4: Mortality Schedules

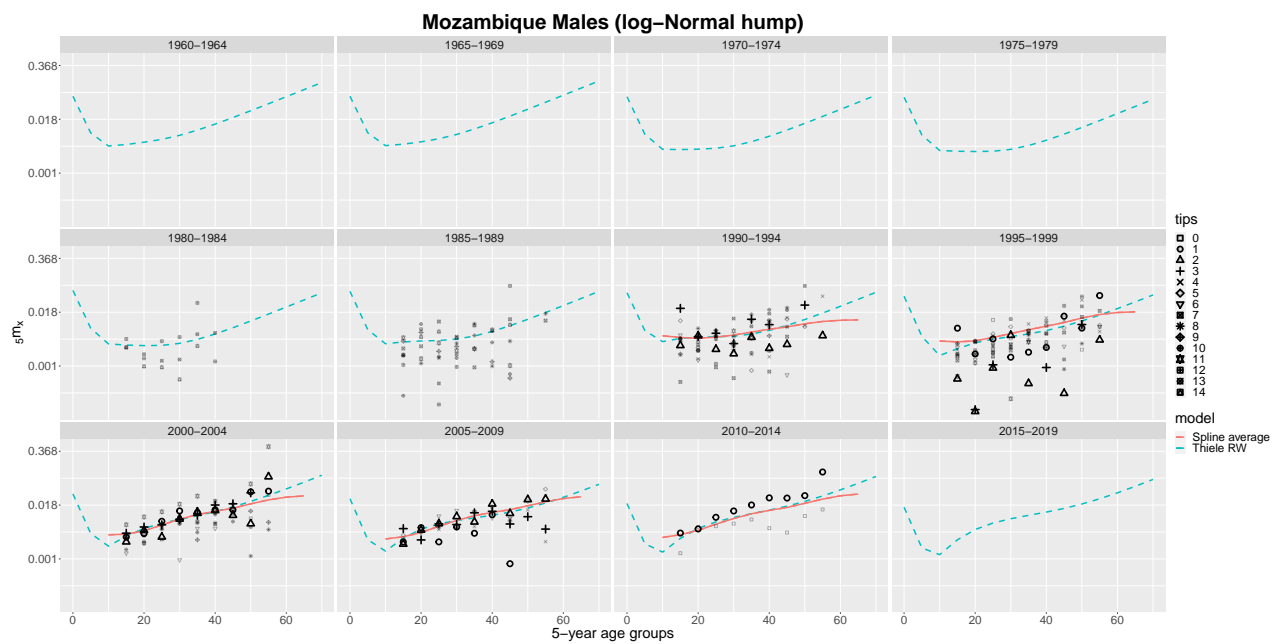


Figure 5: Mortality Schedules

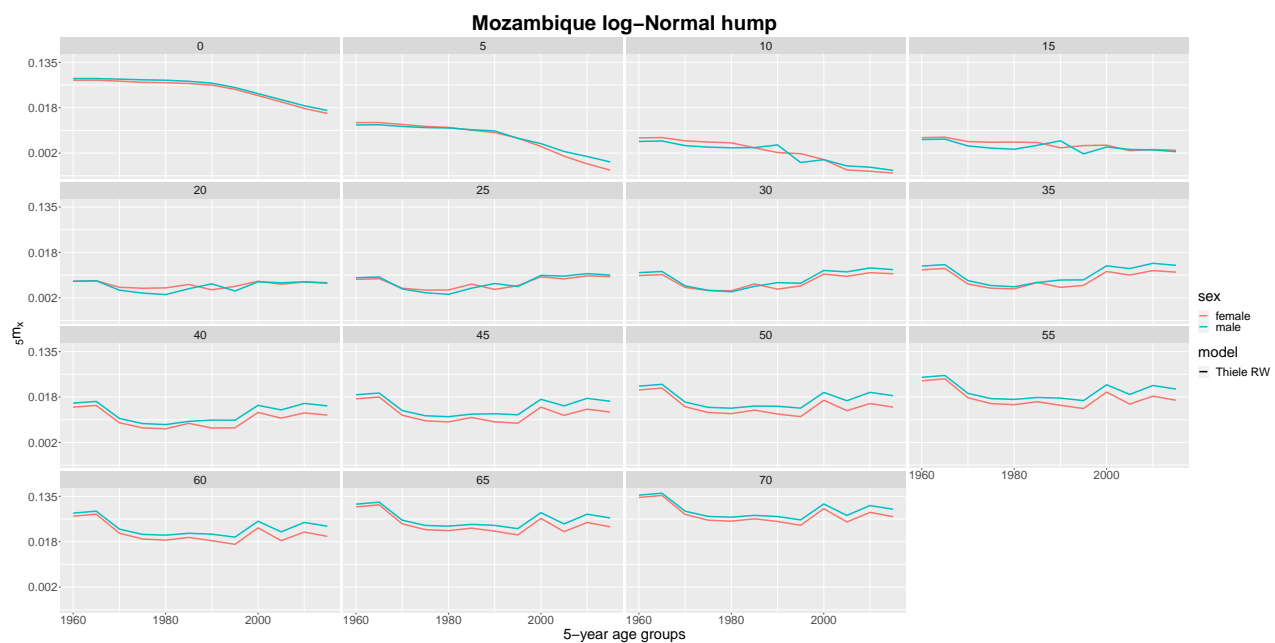


Figure 6: Mortality Schedules

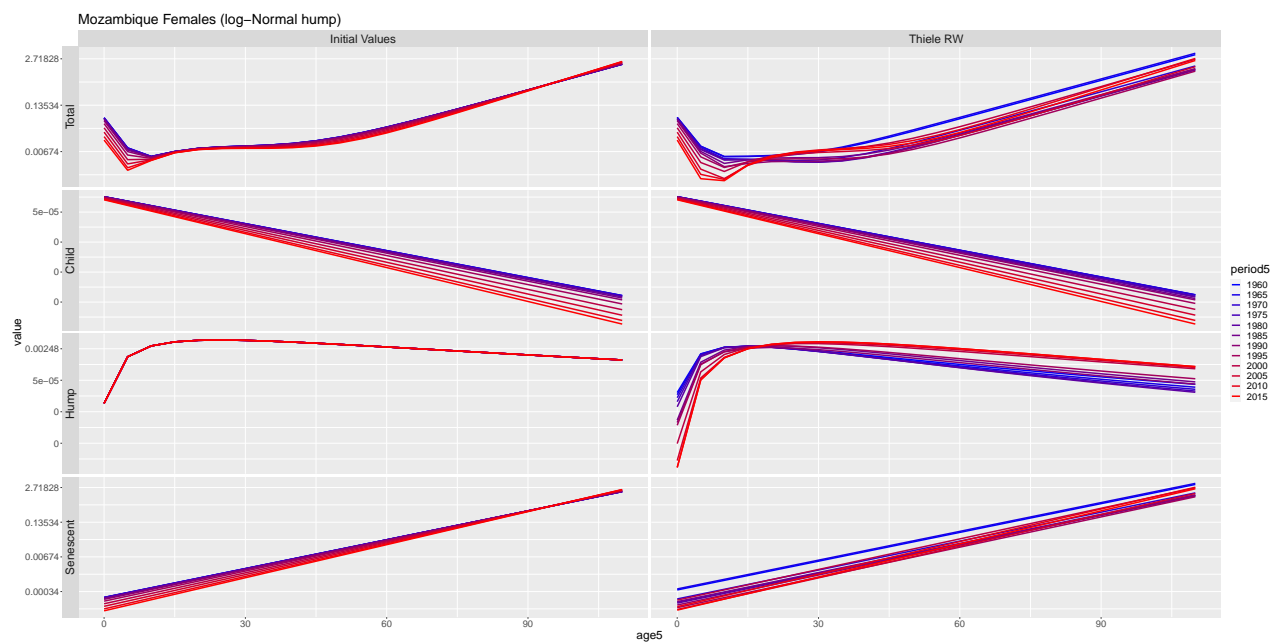


Figure 7: Thiele Decomposed

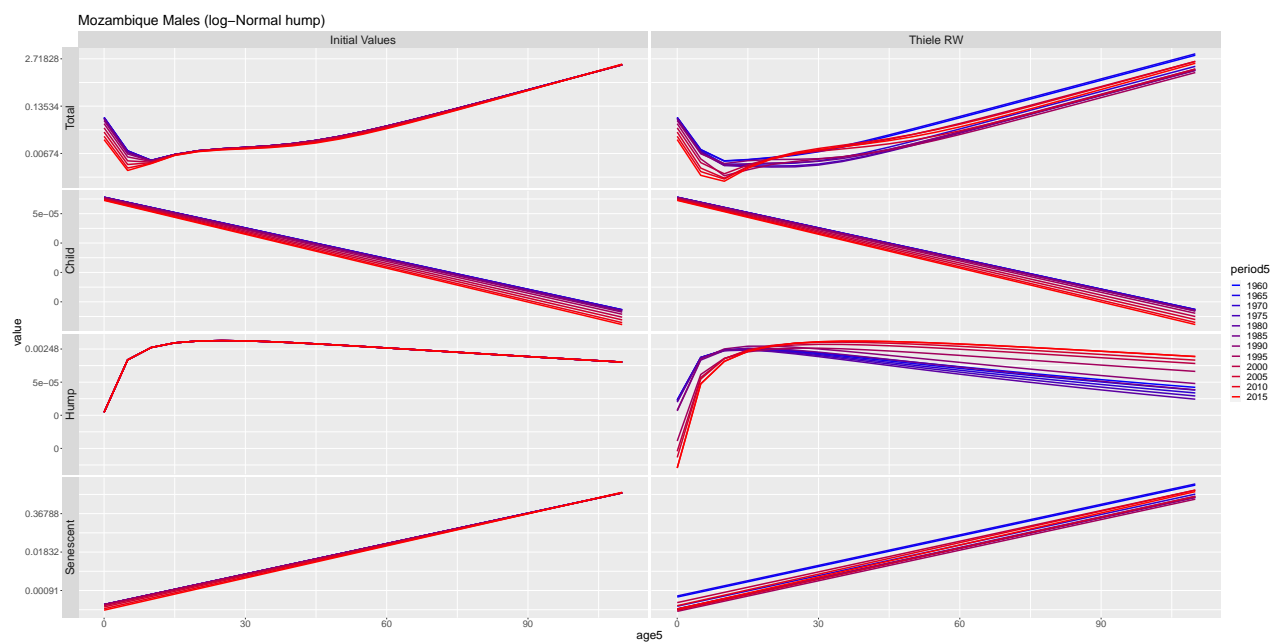


Figure 8: Thiele Decomposed

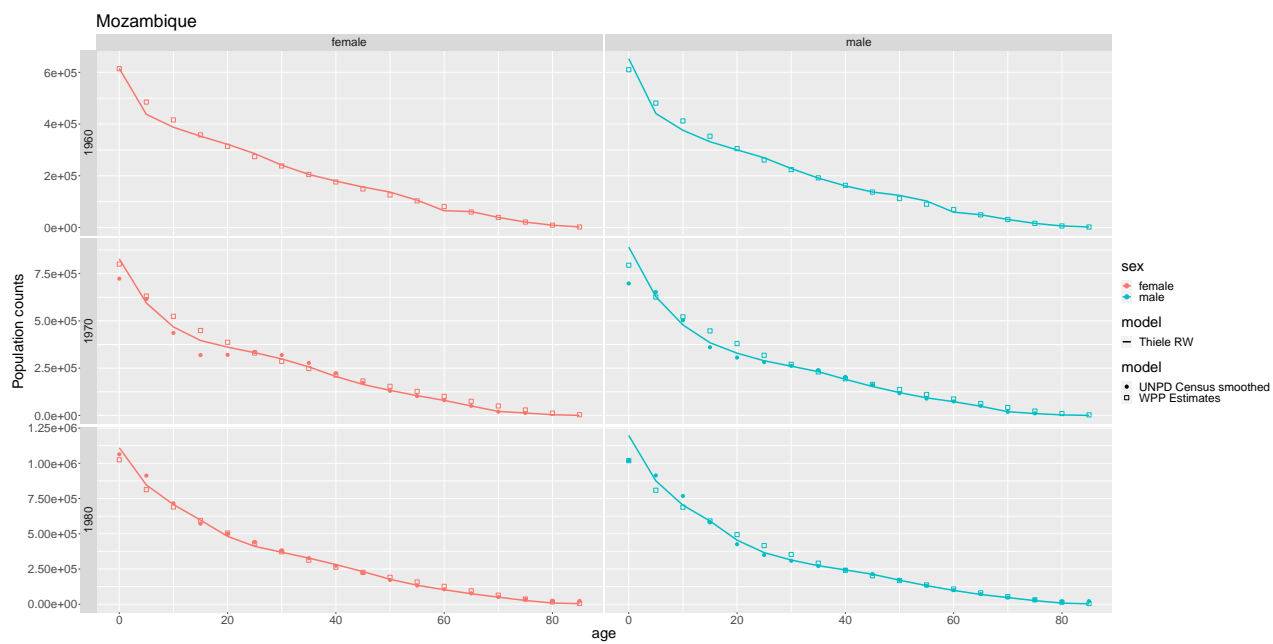


Figure 9: Population

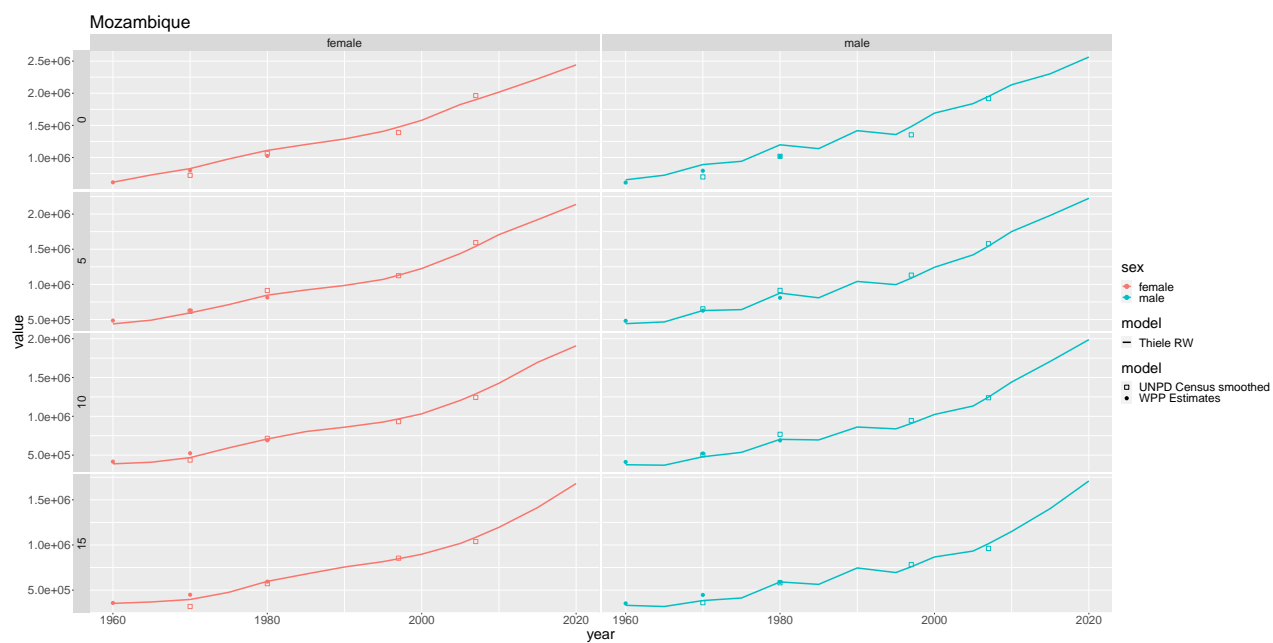


Figure 10: Population

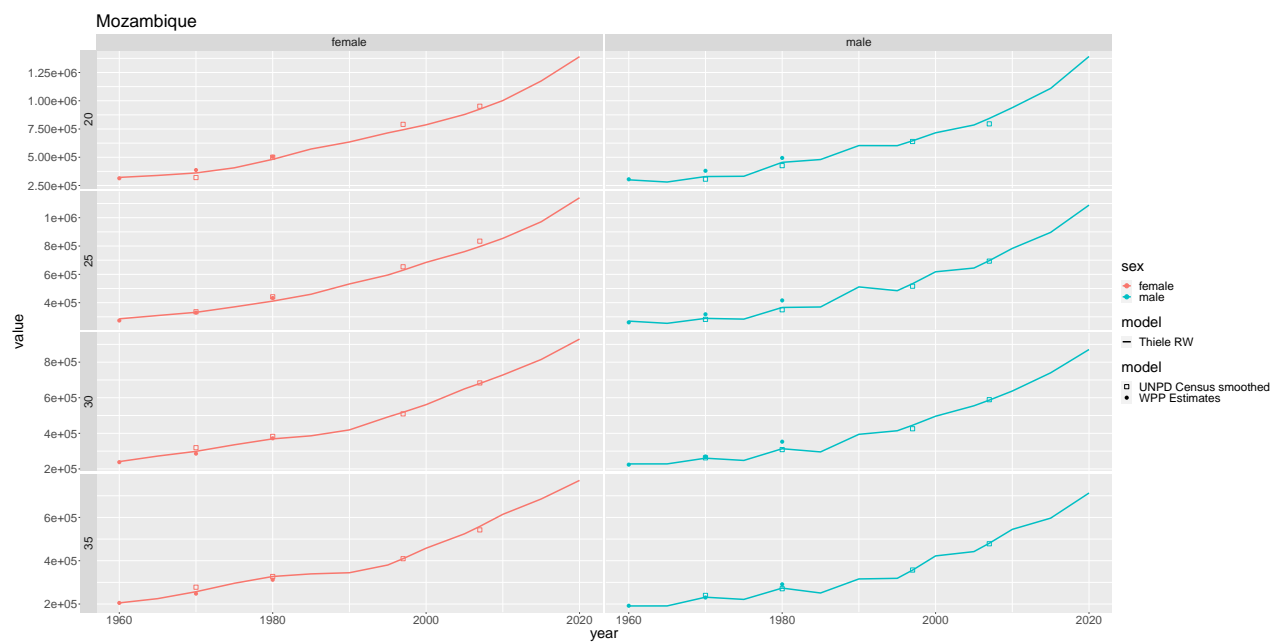


Figure 11: Population

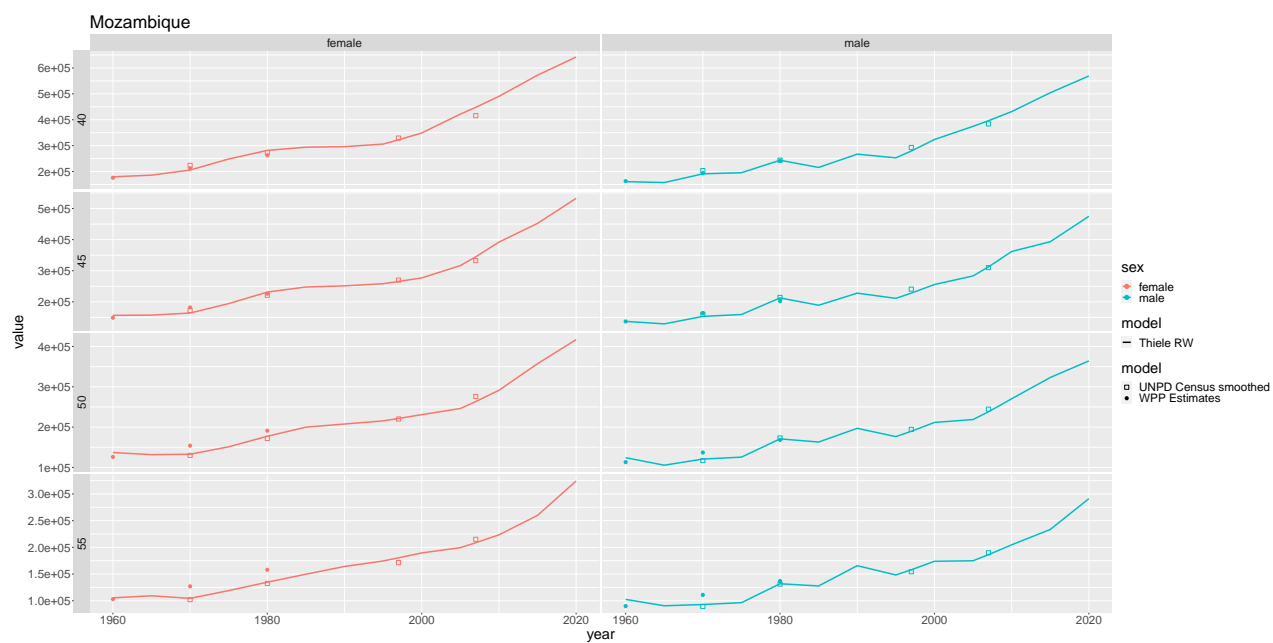


Figure 12: Population

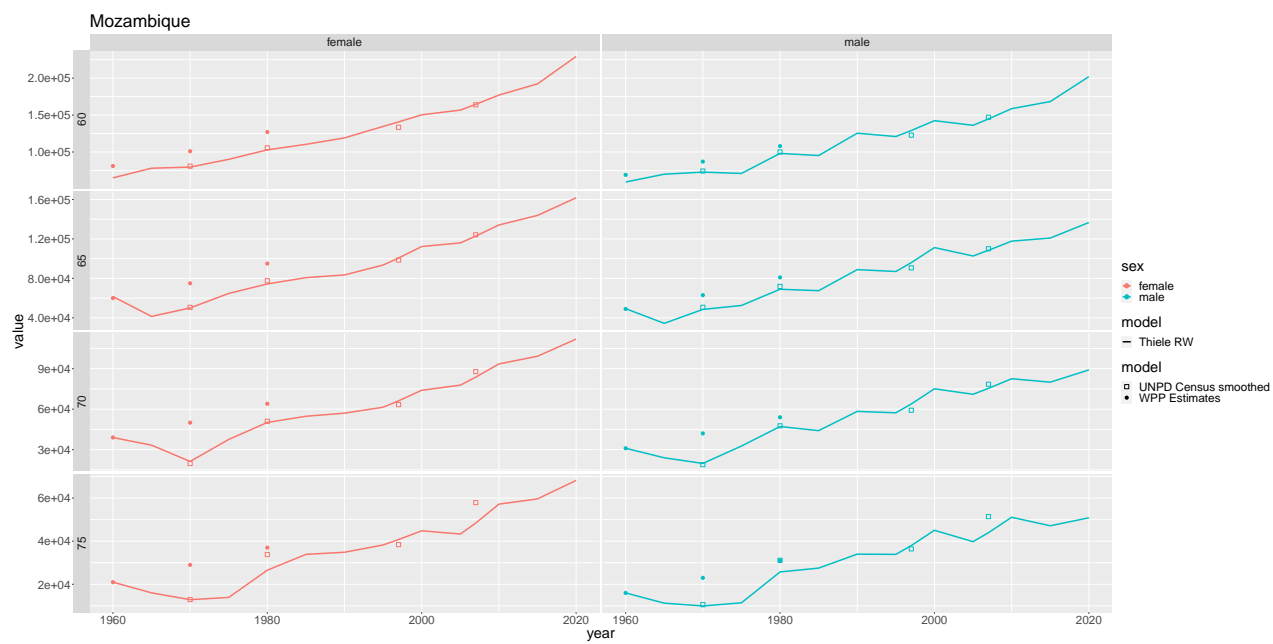


Figure 13: Population

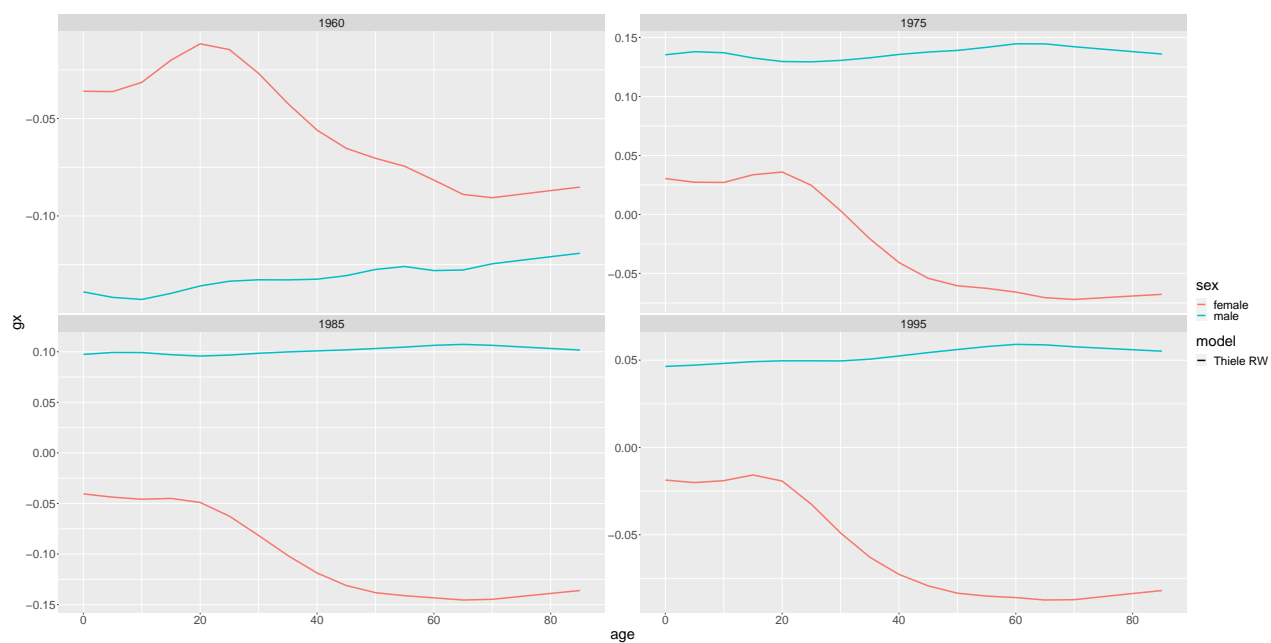


Figure 14: Migration

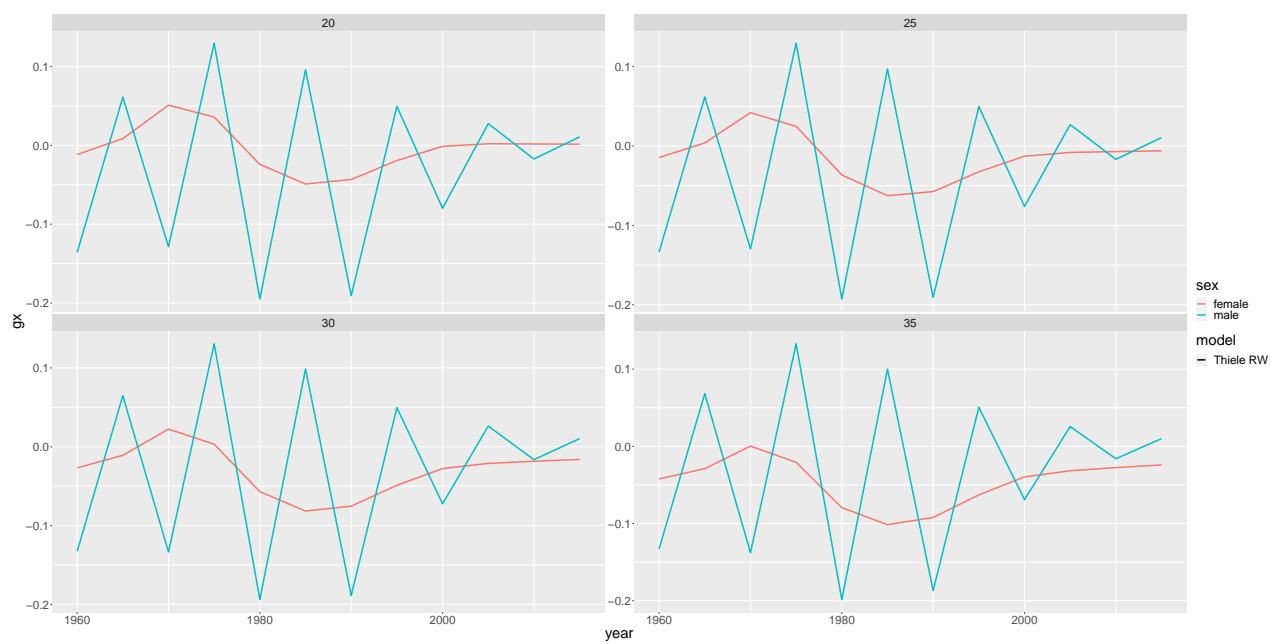


Figure 15: Migration

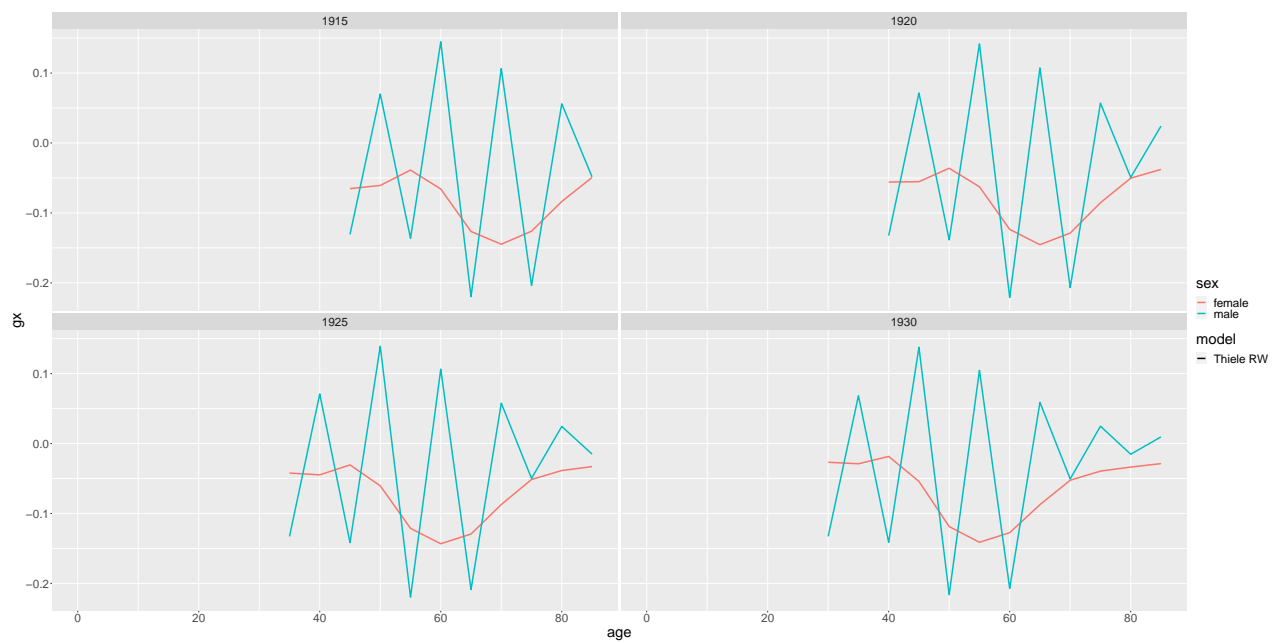


Figure 16: Migration

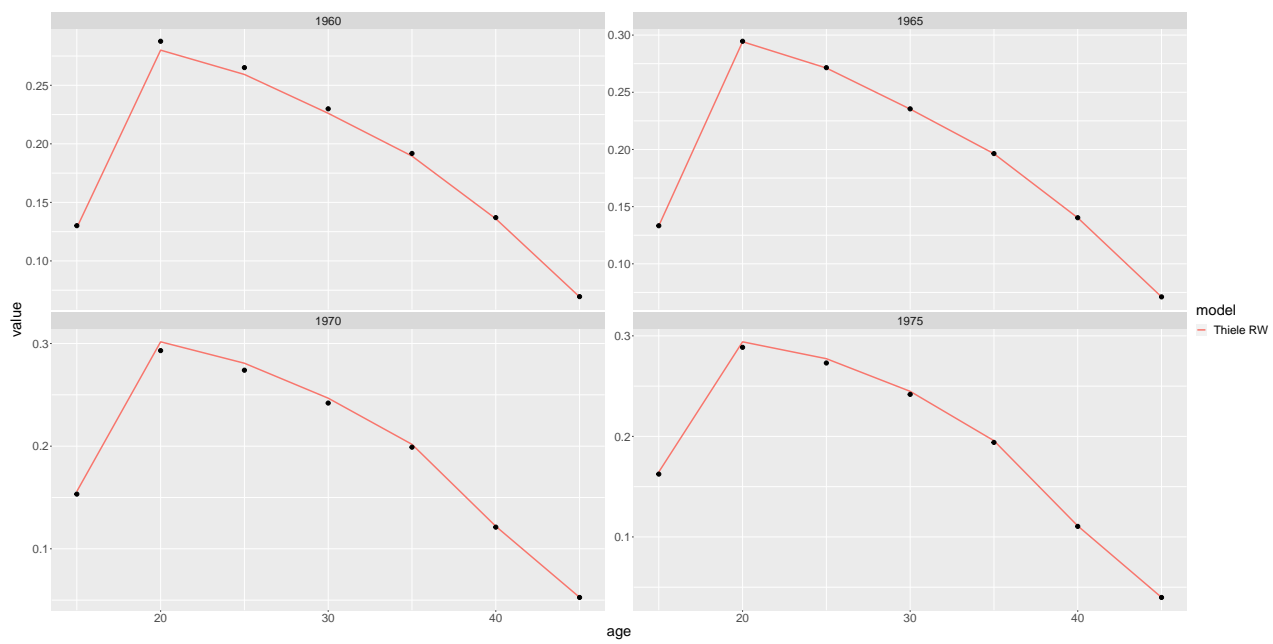


Figure 17: Fertility

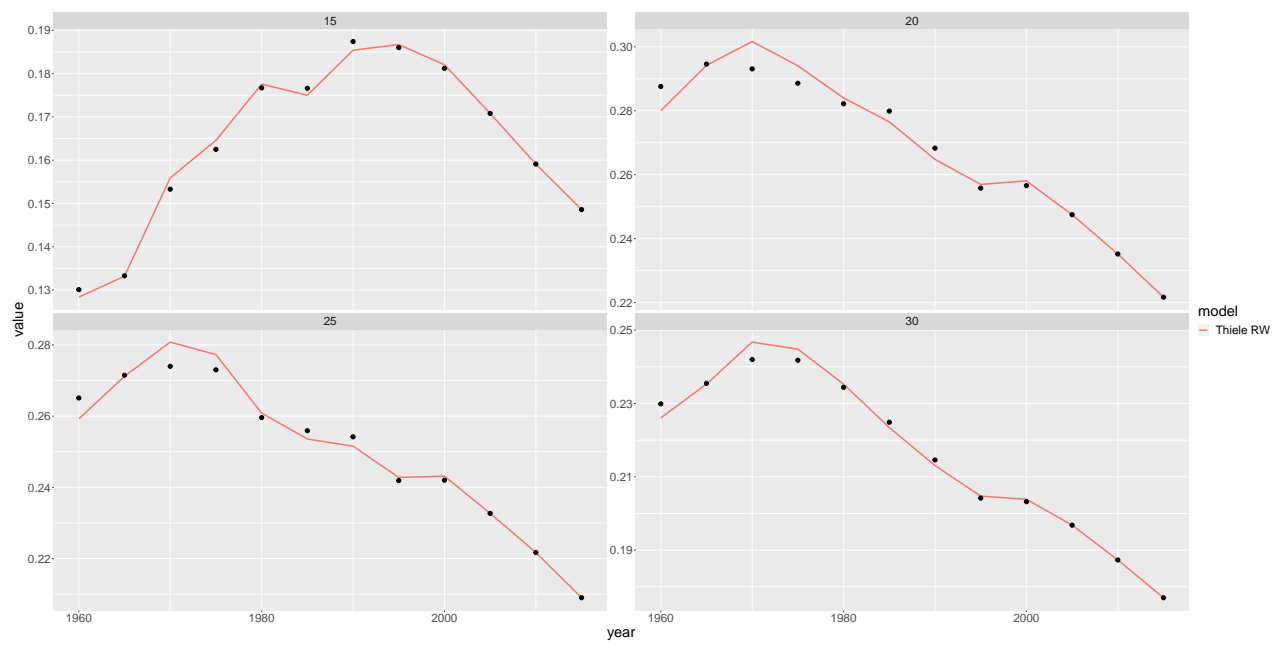


Figure 18: Fertility