

Mozambique

[1] "Census Females"

A tibble: 18 x 5

| ## | aggr.age | `1970` | `1980` | `1997` | `2007` |
|-------|----------|---------|----------|----------|----------|
| ## | * | <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. |

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|-------|----------|---------|----------|---------|----------|
| ## | * | <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 |
|----|-------|--------|---------|
| ## | 28.99 | 0.44 | 29.56 |

```
## [1] "relative convergence (4)"  
Thiele log-Normal Hump RW (Pop 5-9 to 70-74, DHS 15-19 to 45-49)  
##      user  system elapsed  
## 25.75    0.24    26.04  
## [1] "relative convergence (4)"
```

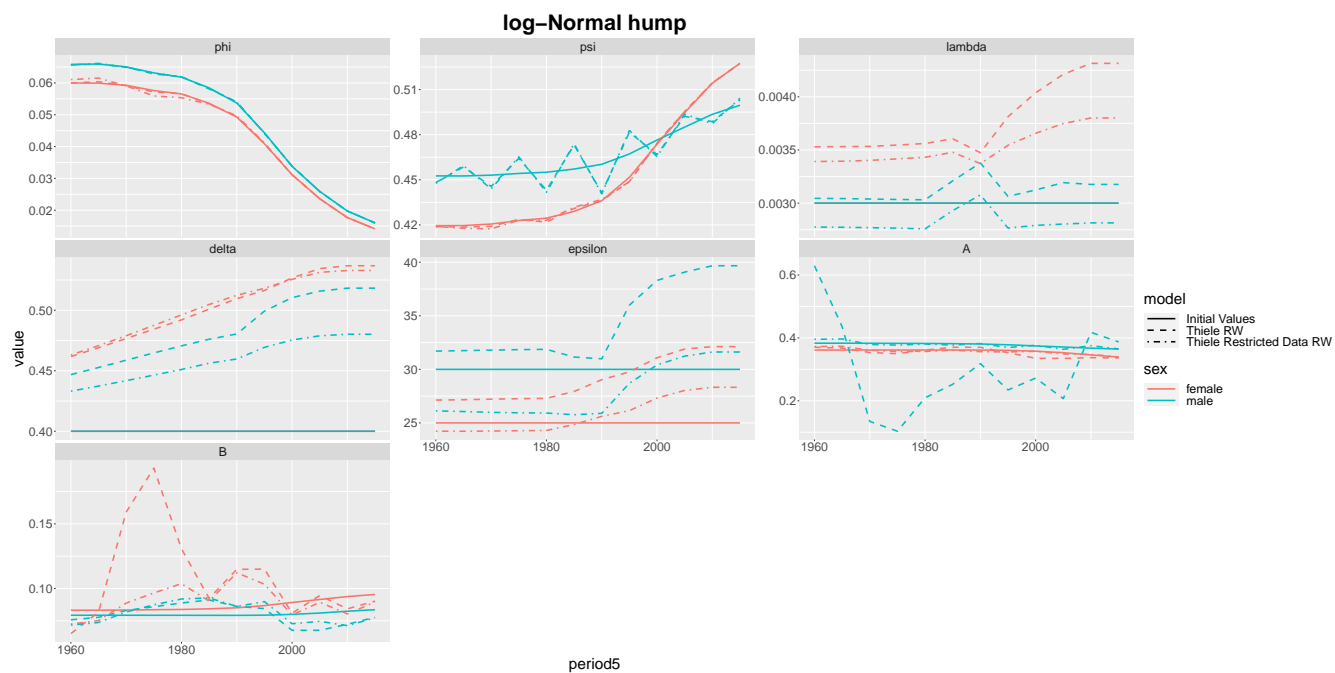


Figure 1: Estimated parameters



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

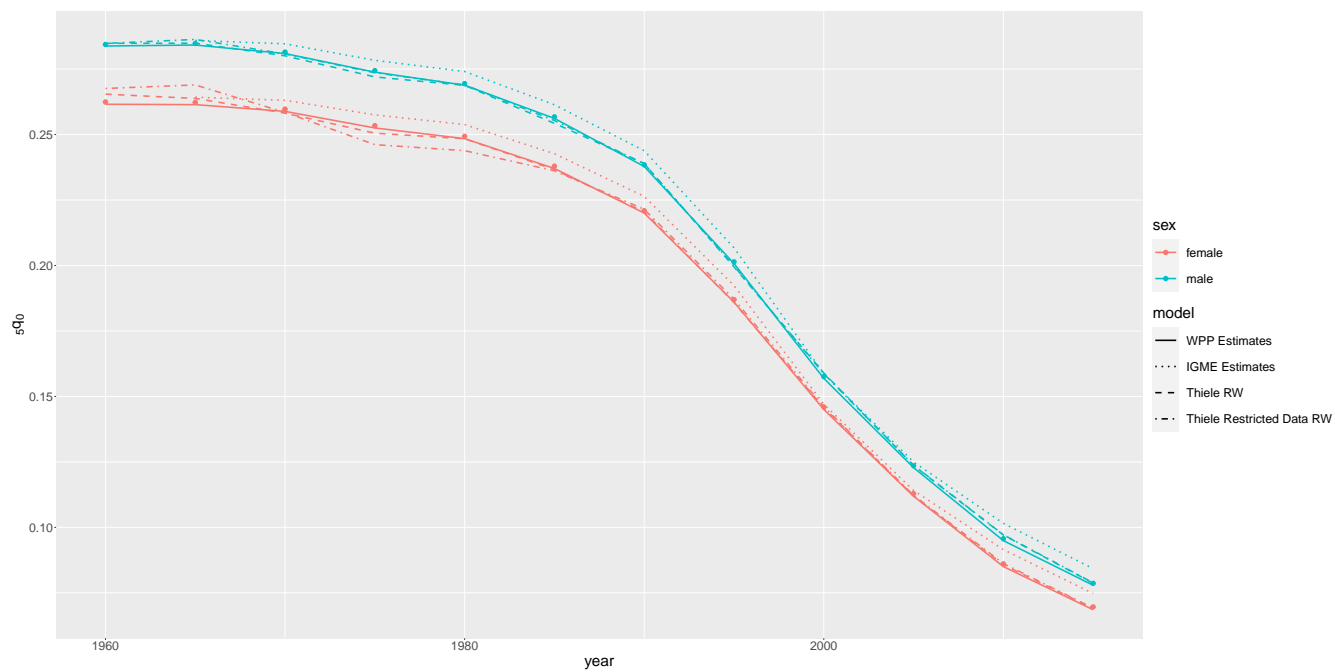


Figure 3: Estimated $_{5}q_0$

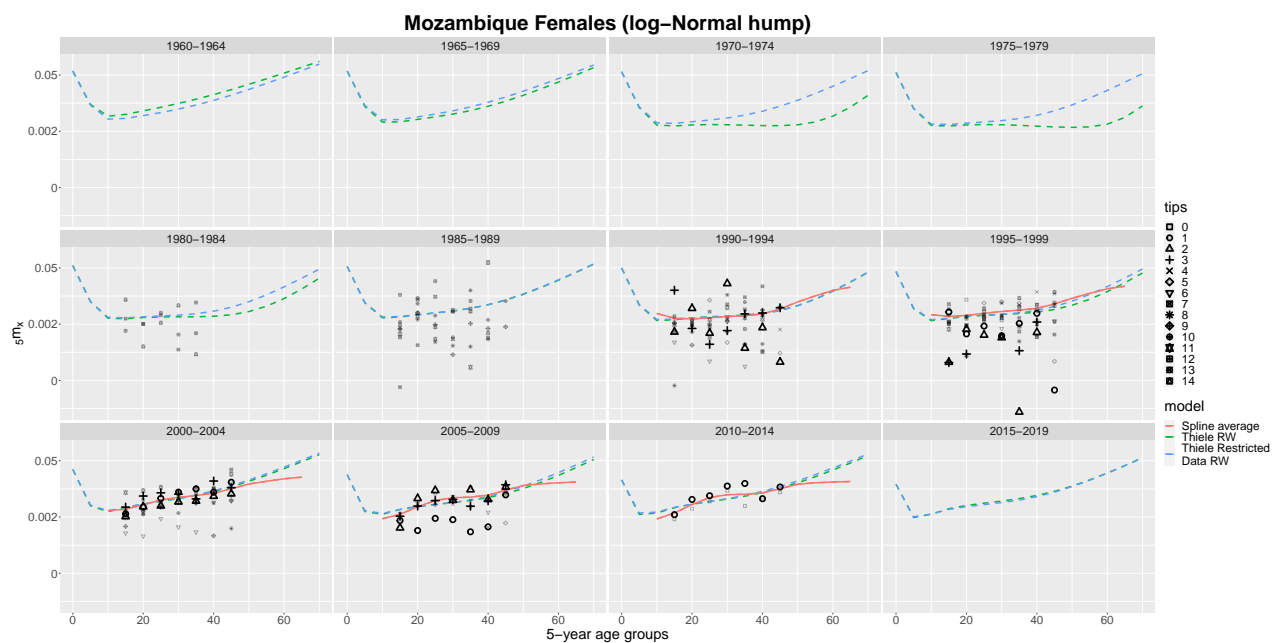


Figure 4: Mortality Schedules

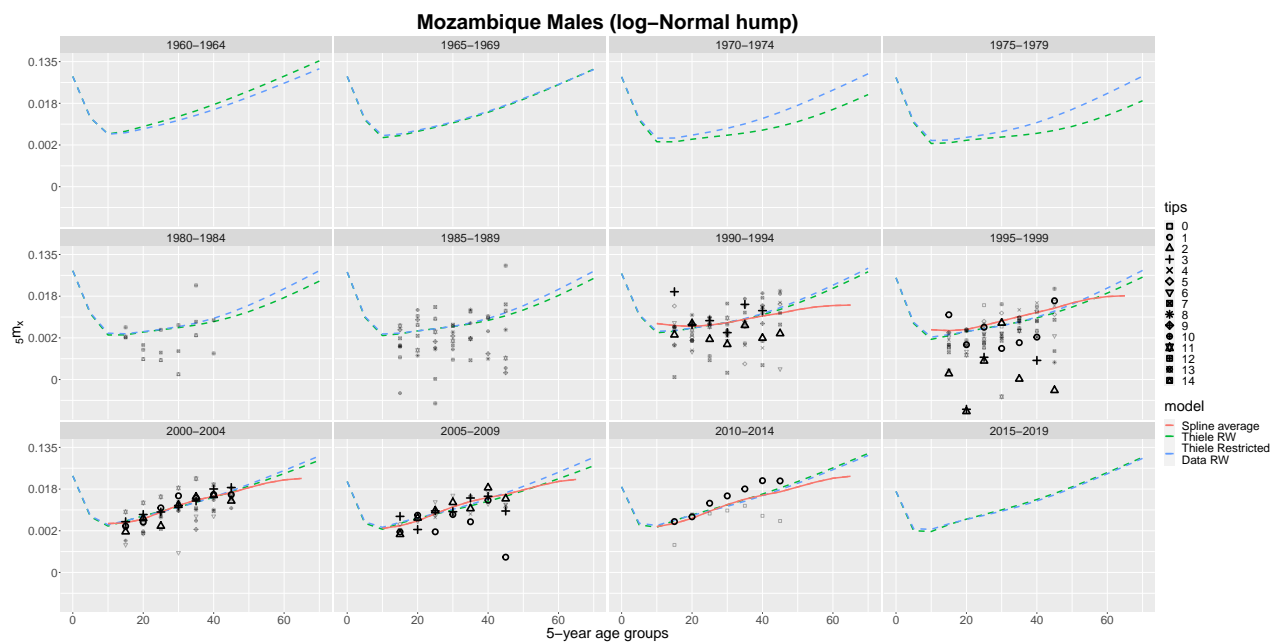


Figure 5: Mortality Schedules

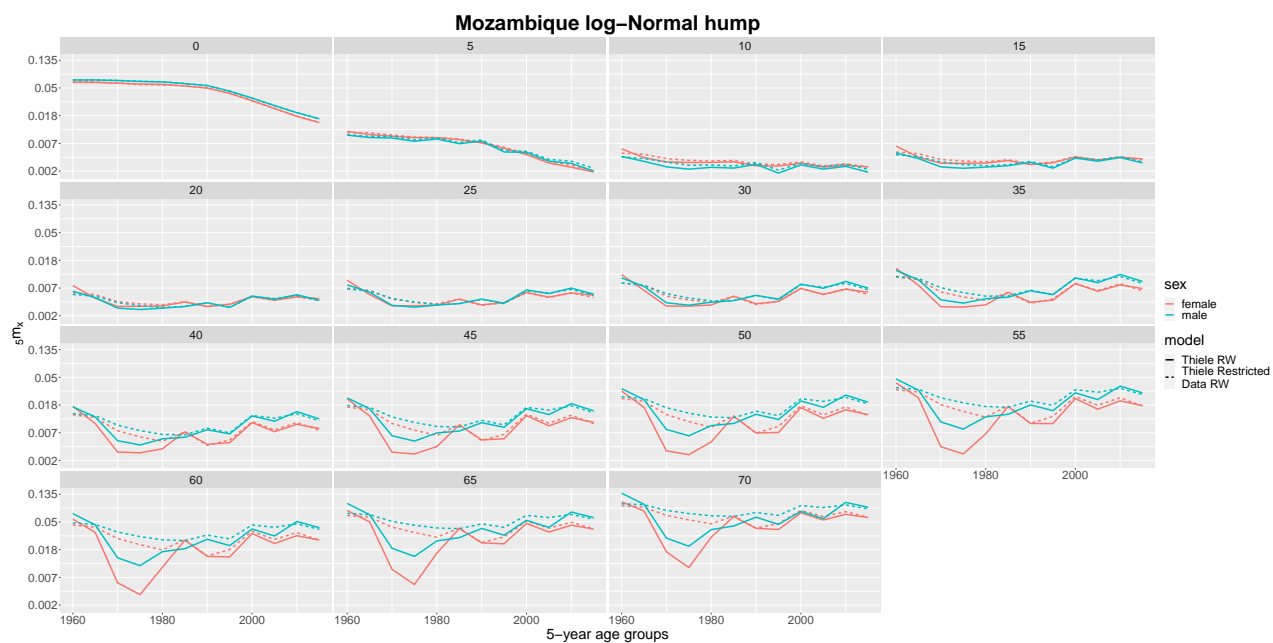


Figure 6: Mortality Schedules

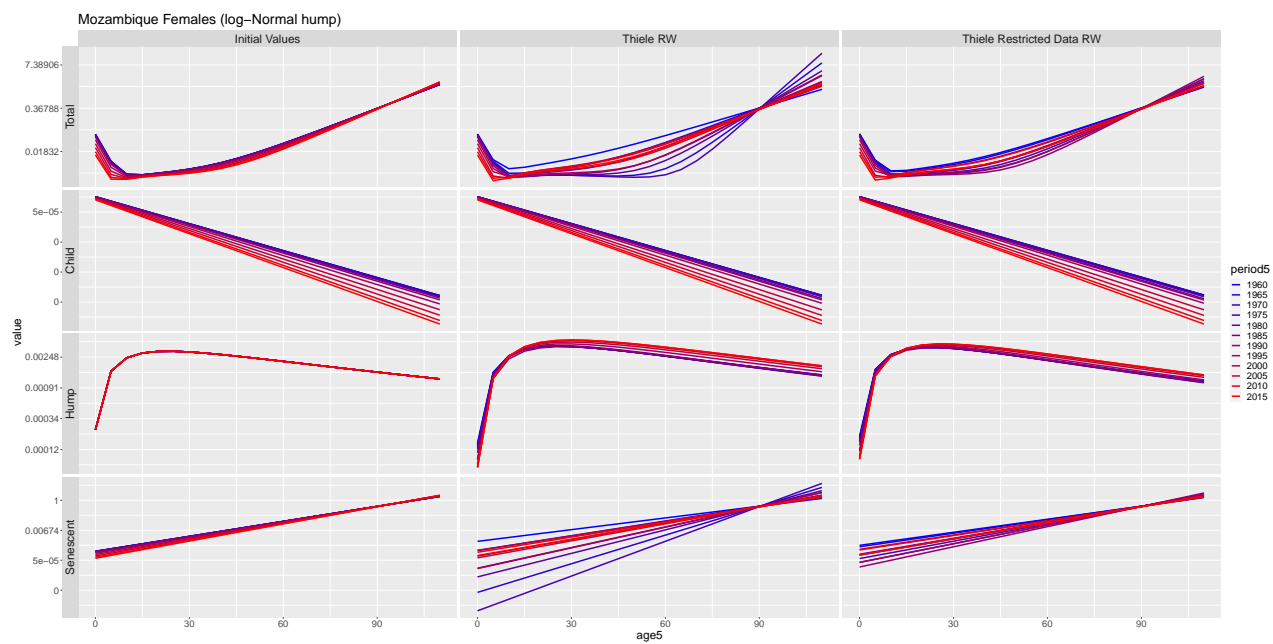


Figure 7: Thiele Decomposed

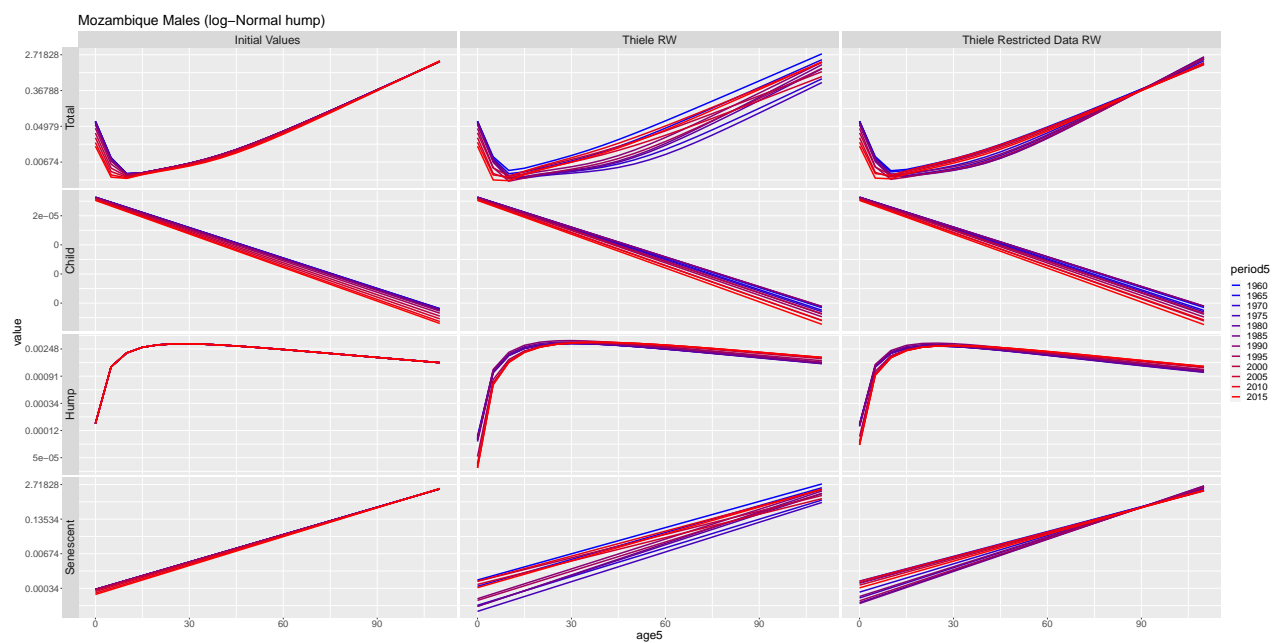


Figure 8: Thiele Decomposed

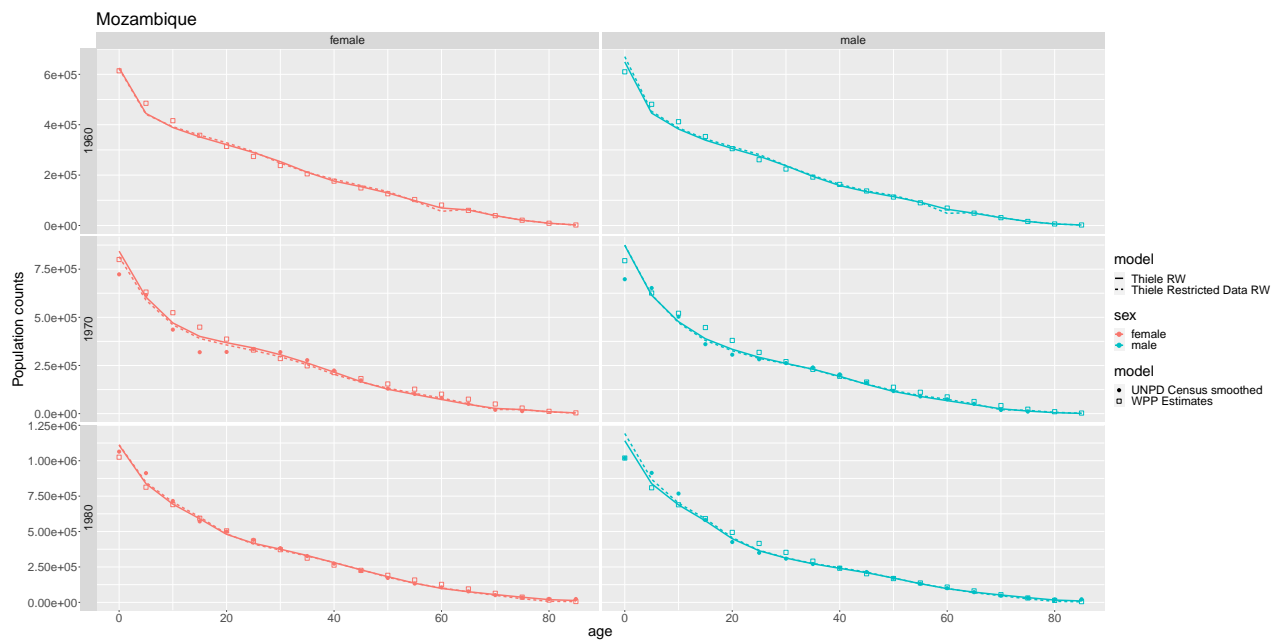


Figure 9: Population

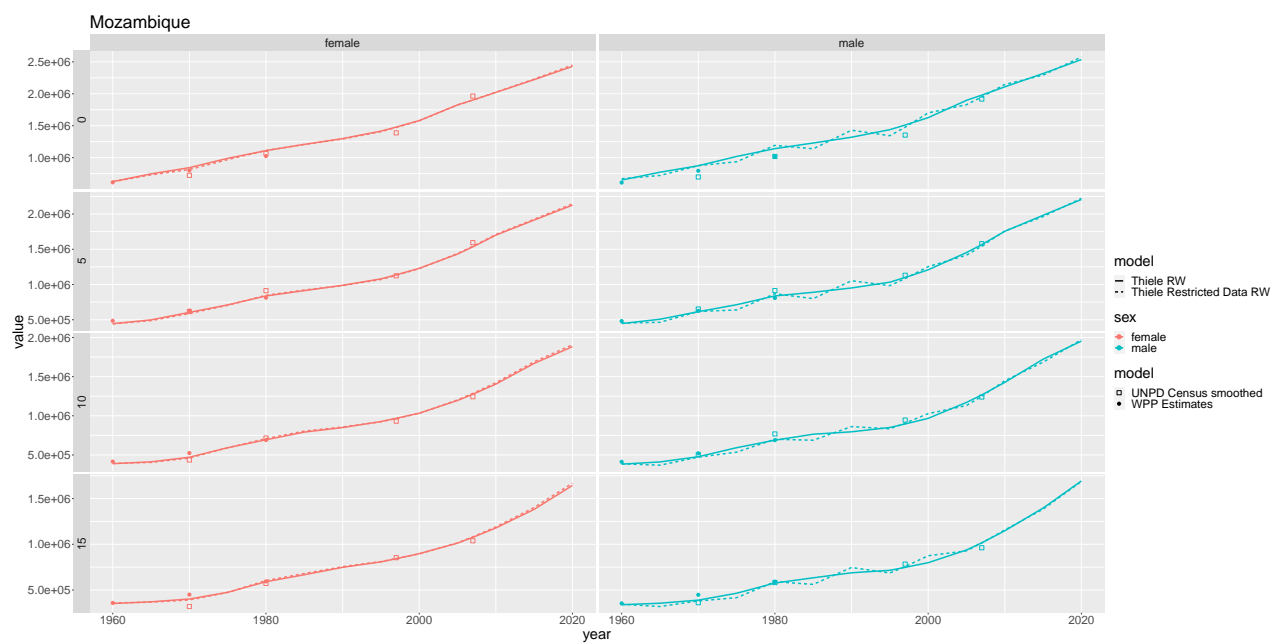


Figure 10: Population

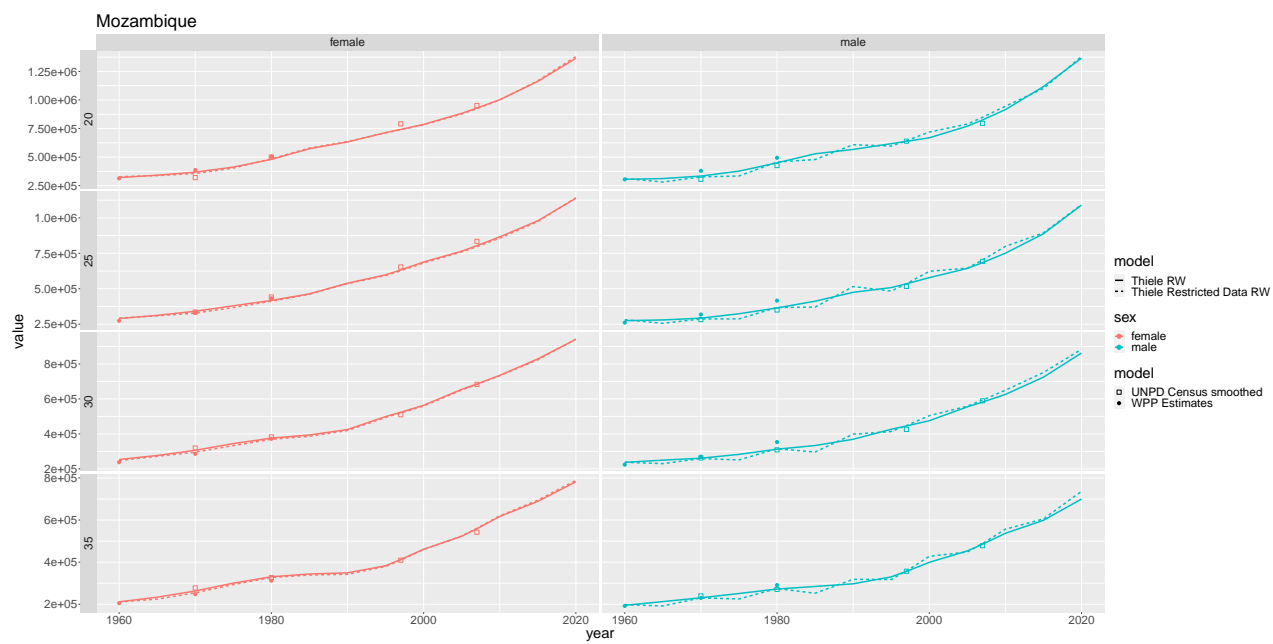


Figure 11: Population

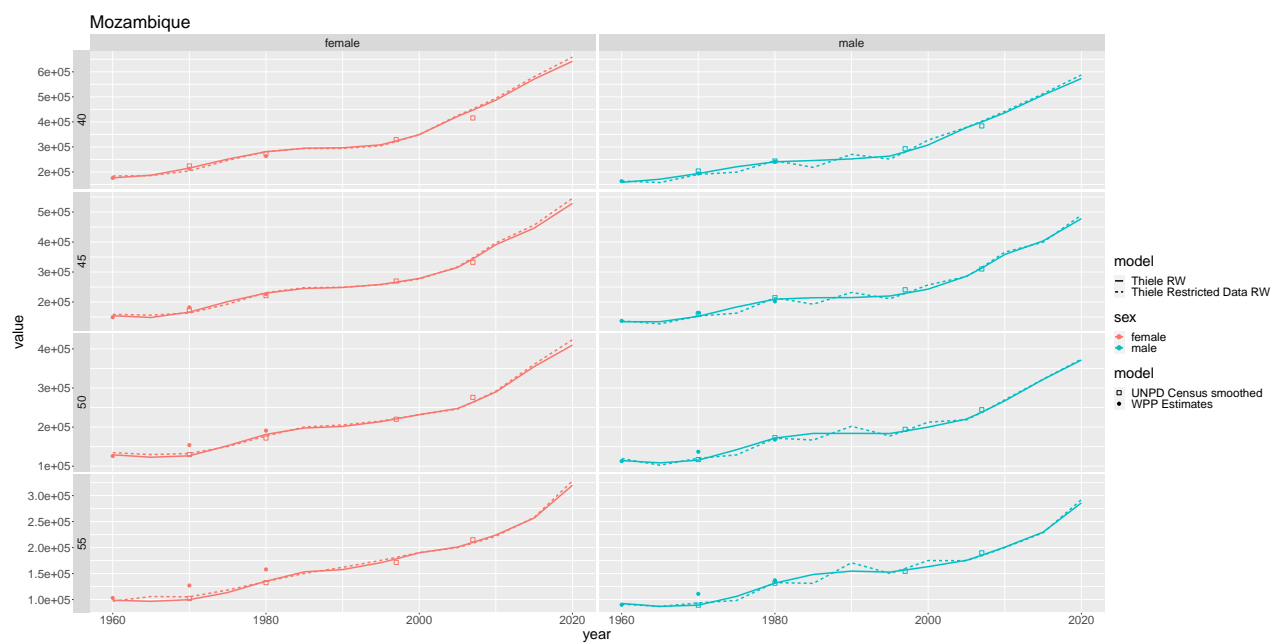


Figure 12: Population



Figure 13: Population



Figure 14: Migration



Figure 15: Migration

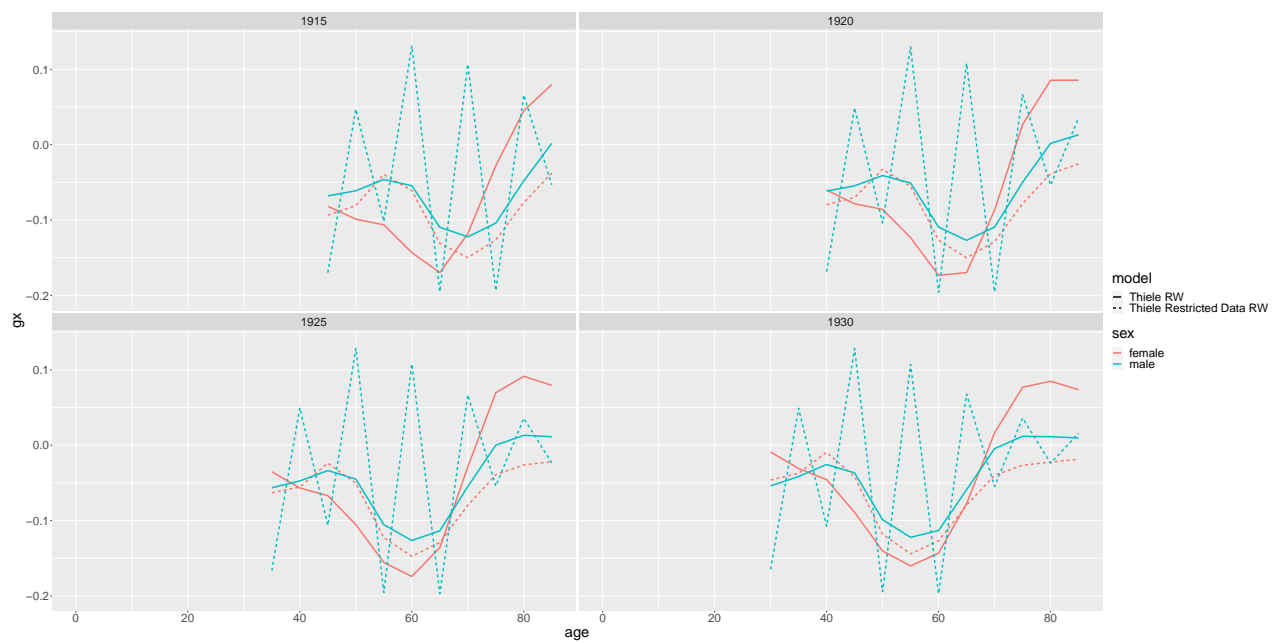


Figure 16: Migration

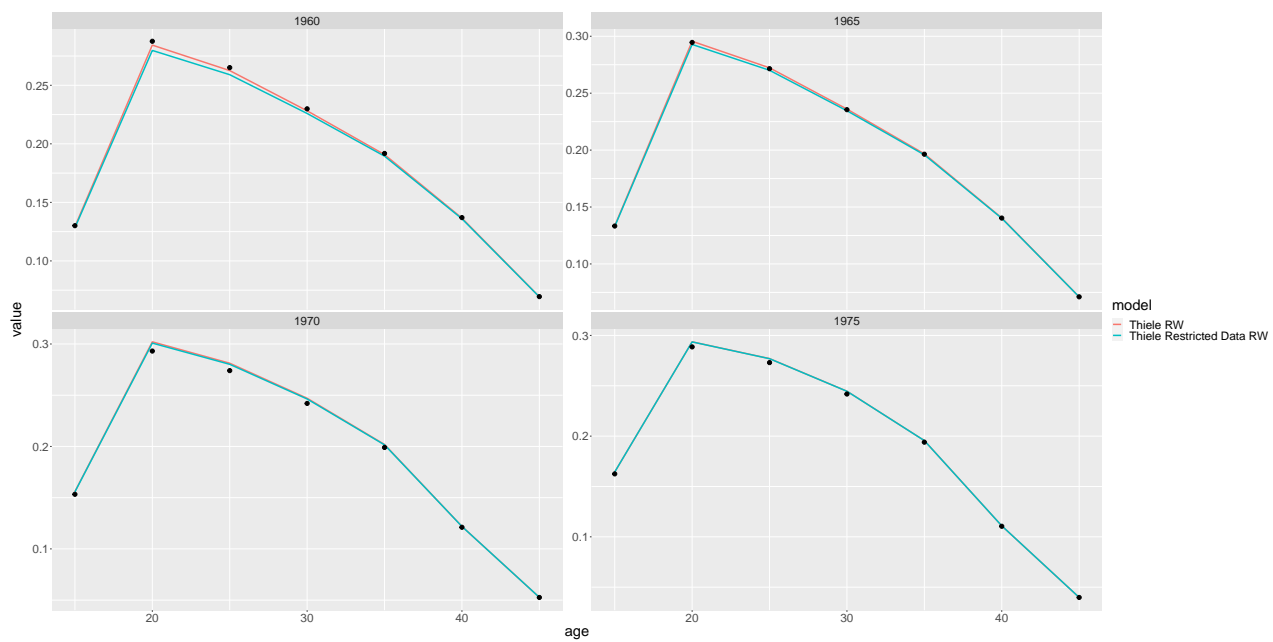


Figure 17: Fertility

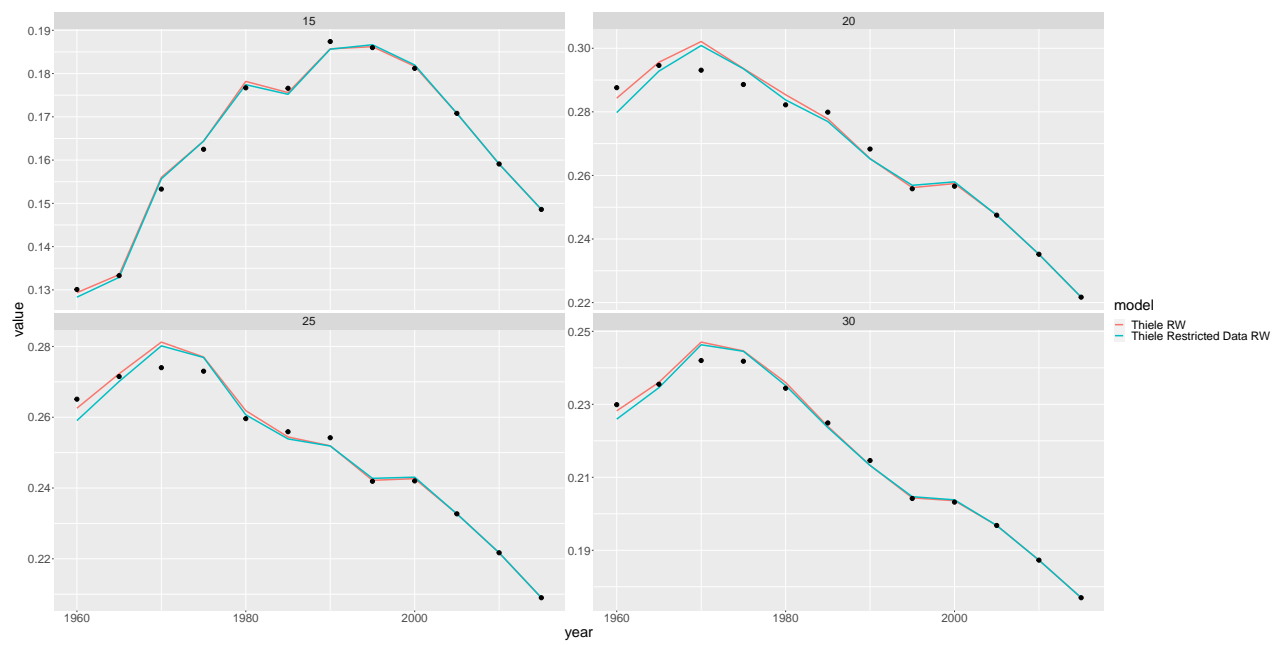


Figure 18: Fertility