

Eswatini

[1] "Census Females"

A tibble: 18 x 7

| | aggr.age | `1966` | `1976` | `1986` | `1997` | `2007` | `2017` |
|----|----------|--------|--------|--------|--------|--------|--------|
| * | <dbl> | <dbl> | <dbl> | <dbl> | <dbl> | <dbl> | <dbl> |
| 1 | 0 | 33046. | 45361. | 61800. | 69089. | 64154. | 65289. |
| 2 | 5 | 30797. | 39820. | 54650. | 69897. | 67933. | 65017. |
| 3 | 10 | 24770. | 34111. | 47114. | 66820. | 68992. | 63947. |
| 4 | 15 | 20754. | 28627. | 40012. | 57869. | 65809. | 59486. |
| 5 | 20 | 17102. | 23750. | 33842. | 47164. | 58262. | 54486. |
| 6 | 25 | 14216. | 19219. | 27344. | 38184. | 46485. | 50419. |
| 7 | 30 | 12011. | 15322. | 21149. | 31197. | 34839. | 44426. |
| 8 | 35 | 9763. | 12596. | 16882. | 25537. | 27473. | 33692. |
| 9 | 40 | 7987. | 10397. | 13831. | 20252. | 22783. | 25384. |
| 10 | 45 | 6530. | 8481. | 11059. | 15970. | 18652. | 22186. |
| 11 | 50 | 5238. | 6721. | 8299. | 12567. | 14638. | 18810. |
| 12 | 55 | 4452. | 5267. | 6201. | 9626. | 11855. | 15827. |
| 13 | 60 | 3649. | 4240. | 5205. | 7462. | 10447. | 12869. |
| 14 | 65 | 2896. | 3274. | 4471. | 5751. | 8416. | 10083. |
| 15 | 70 | 2306. | 2533. | 3393. | 4353. | 5937. | 8294. |
| 16 | 75 | 1281. | 1893. | 2271. | 3132. | 3997. | 5690. |
| 17 | 80 | 877. | 837. | 1595. | 2006. | 2497. | 6222. |
| 18 | 85 | 1518. | 1220. | 1870. | 2189. | 2718. | NA |

[1] "Census Males"

A tibble: 18 x 7

| | aggr.age | `1966` | `1976` | `1986` | `1997` | `2007` | `2017` |
|----|----------|--------|--------|--------|--------|--------|--------|
| * | <dbl> | <dbl> | <dbl> | <dbl> | <dbl> | <dbl> | <dbl> |
| 1 | 0 | 31228. | 43333. | 60281. | 67734. | 63826. | 65605. |
| 2 | 5 | 30121. | 38898. | 53400. | 68628. | 66868. | 65496. |
| 3 | 10 | 23480. | 32377. | 45667. | 65235. | 65999. | 64162. |
| 4 | 15 | 18758. | 23942. | 35987. | 54304. | 59398. | 61317. |
| 5 | 20 | 14580. | 17032. | 26283. | 40757. | 49262. | 52591. |
| 6 | 25 | 11688. | 13565. | 19898. | 30364. | 39138. | 46828. |
| 7 | 30 | 10230. | 12073. | 16384. | 23513. | 30855. | 42398. |
| 8 | 35 | 8903. | 10997. | 13846. | 19420. | 24394. | 33642. |
| 9 | 40 | 7760. | 9633. | 12020. | 16659. | 19208. | 24573. |
| 10 | 45 | 6498. | 8067. | 10598. | 14014. | 15584. | 19308. |
| 11 | 50 | 5203. | 6290. | 8491. | 11238. | 12798. | 14178. |
| 12 | 55 | 4413. | 4896. | 6147. | 8686. | 10130. | 12134. |
| 13 | 60 | 3424. | 3941. | 4494. | 6533. | 7933. | 10119. |
| 14 | 65 | 2445. | 2892. | 3411. | 4649. | 5930. | 7366. |
| 15 | 70 | 1724. | 2128. | 2515. | 3177. | 3969. | 5028. |
| 16 | 75 | 712. | 1467. | 1641. | 2115. | 2416. | 3505. |
| 17 | 80 | 294. | 379. | 1051. | 1305. | 1350. | 2863. |
| 18 | 85 | 486. | 554. | 1010. | 1349. | 1291. | NA |

Thiele log-Normal Hump RW

| | user | system | elapsed |
|----|-------|--------|---------|
| ## | 35.11 | 0.75 | 35.85 |

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

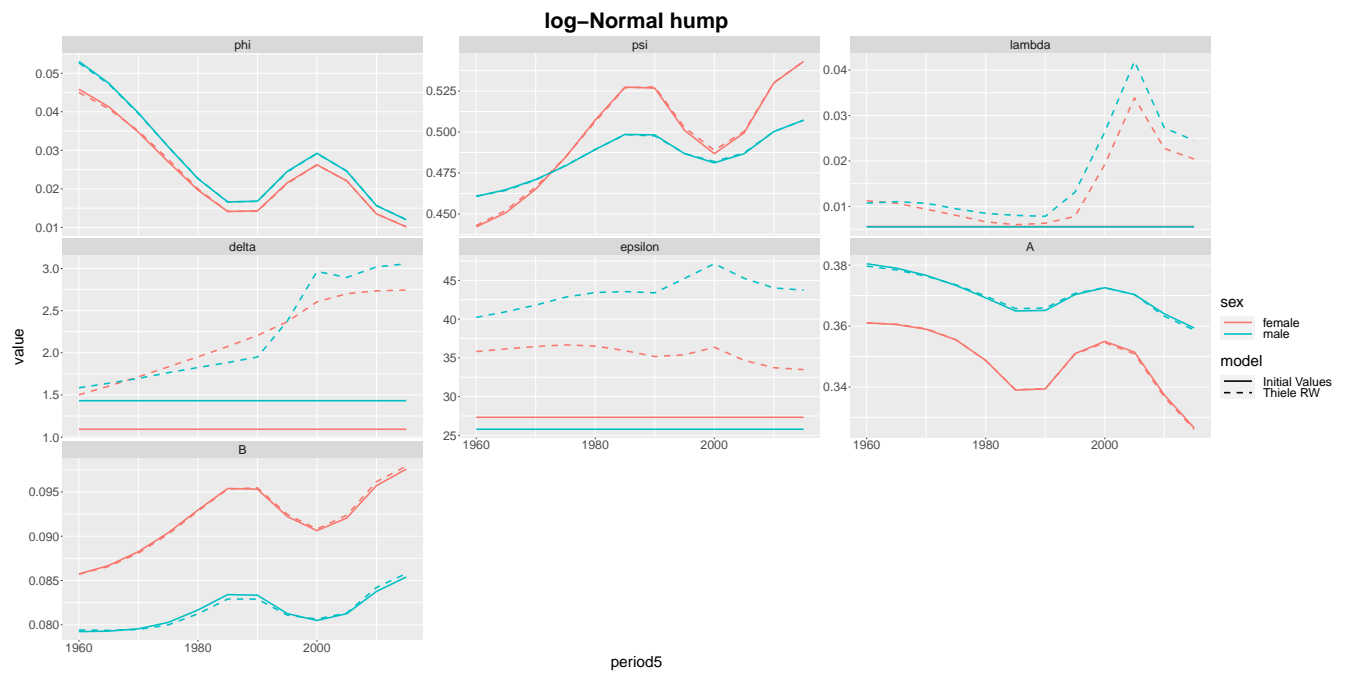


Figure 1: Estimated parameters

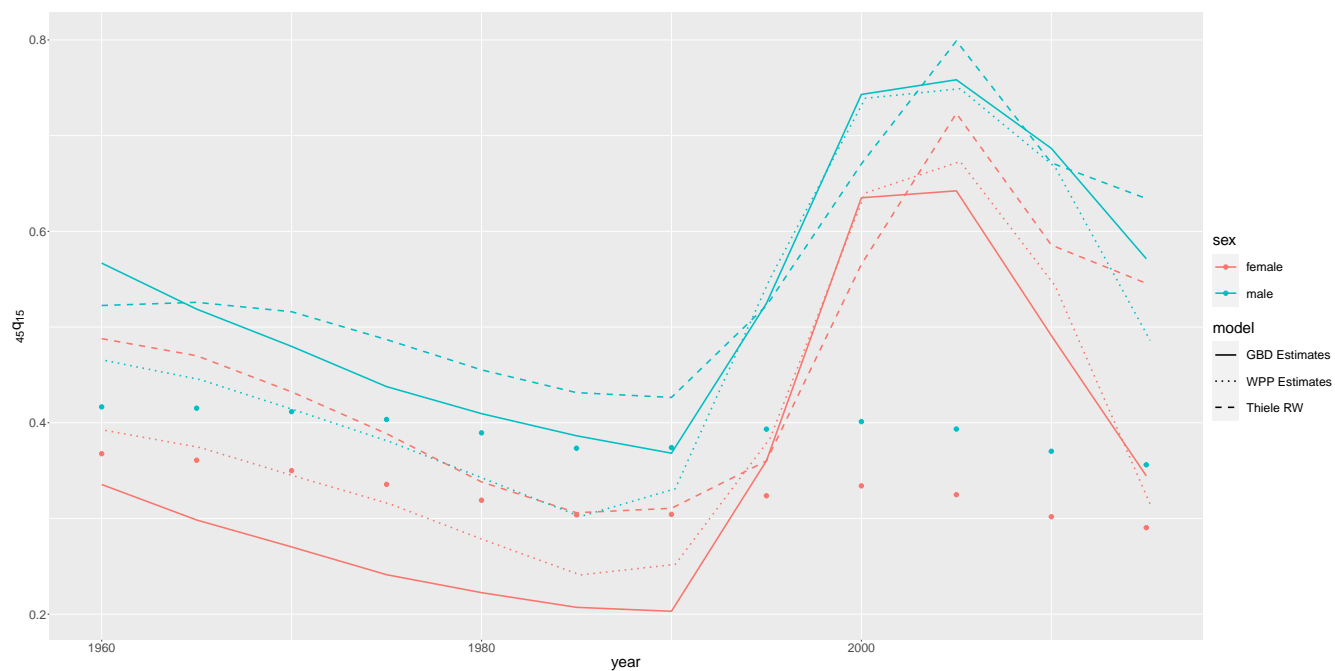


Figure 2: Estimated $_{45}q_{15}$

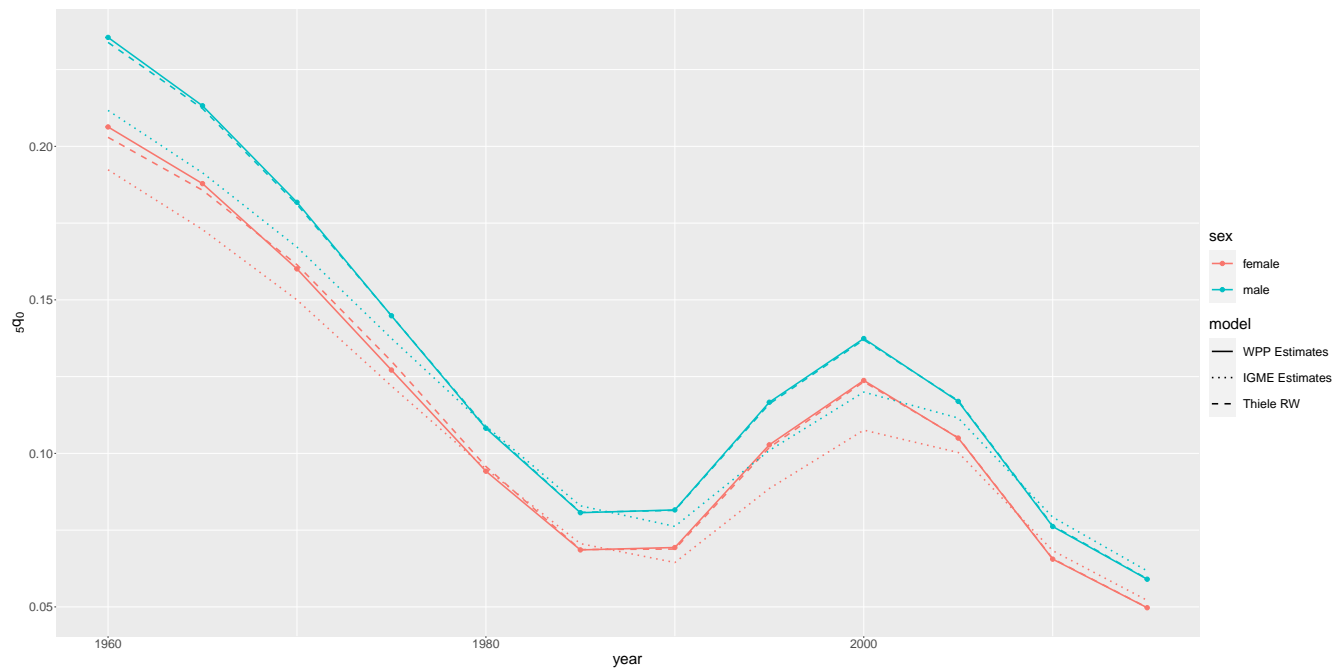


Figure 3: Estimated $_{5}q_0$

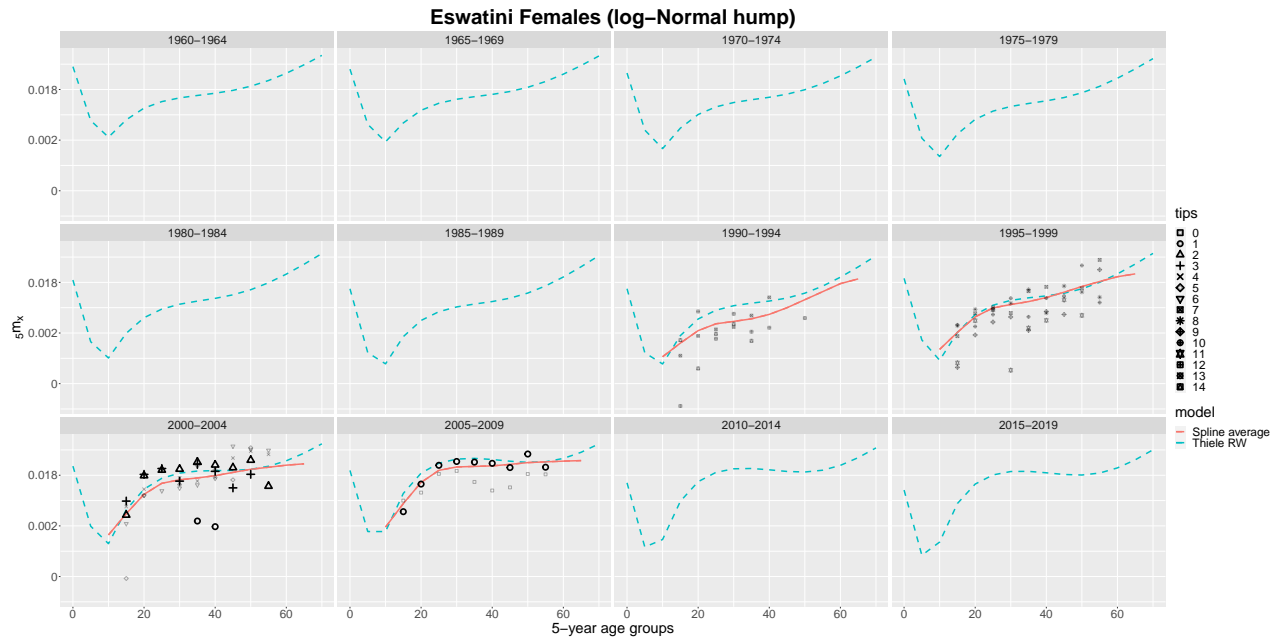


Figure 4: Mortality Schedules



Figure 5: Mortality Schedules

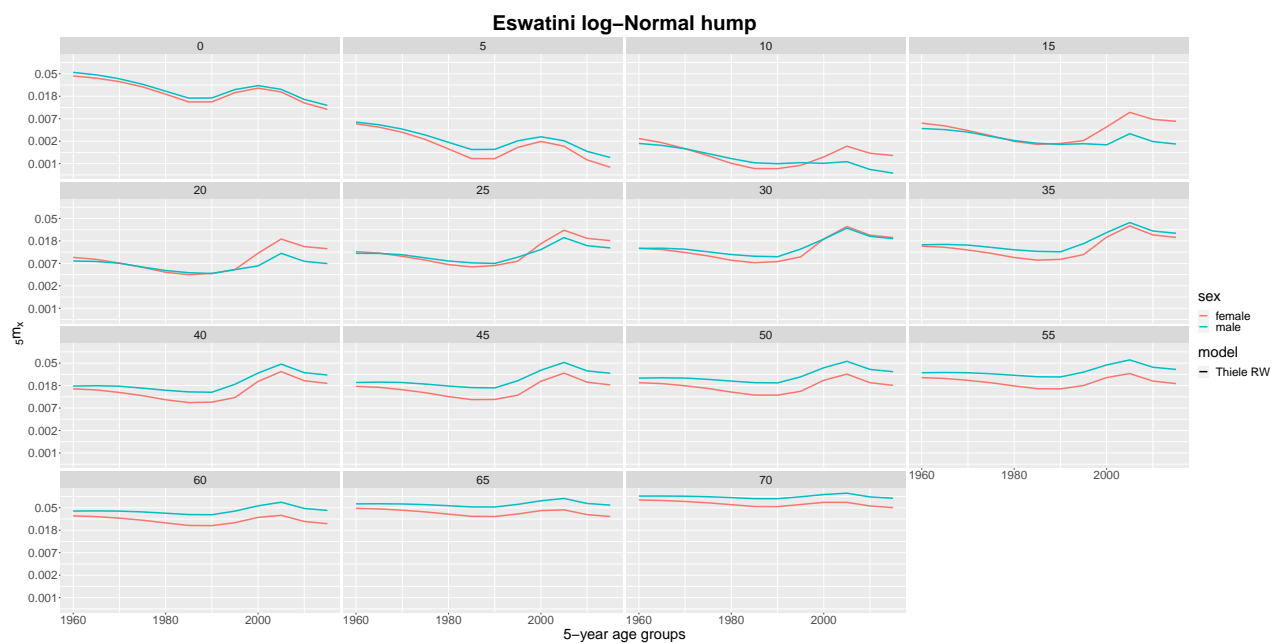


Figure 6: Mortality Schedules

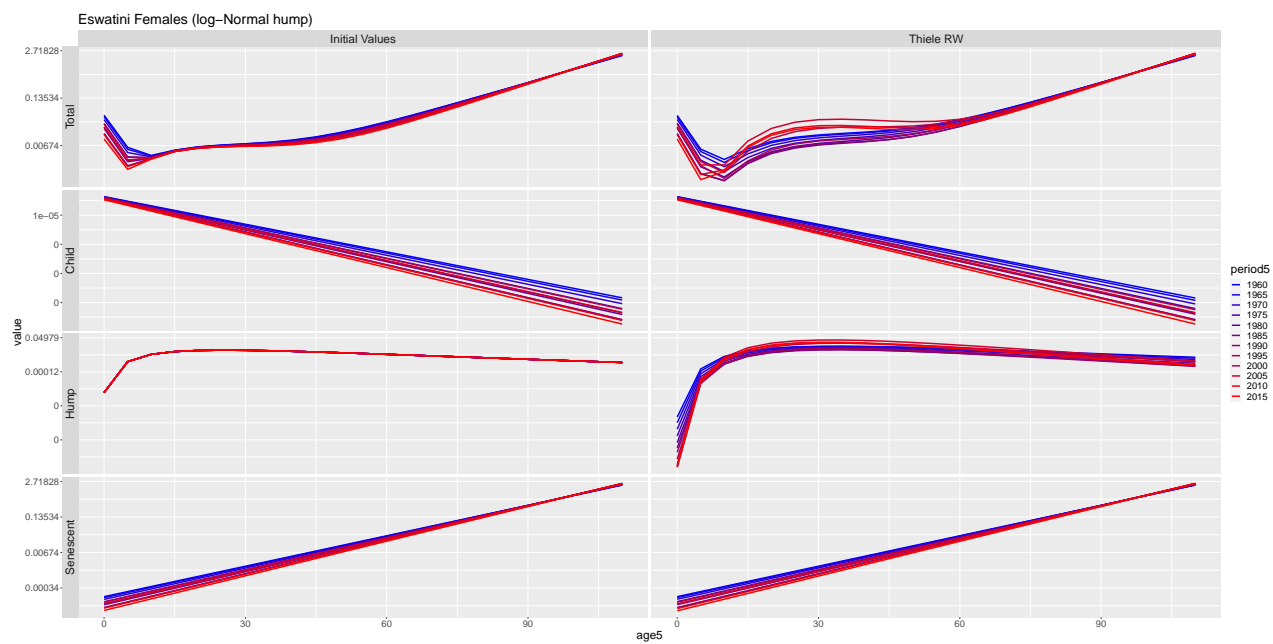


Figure 7: Thiele Decomposed

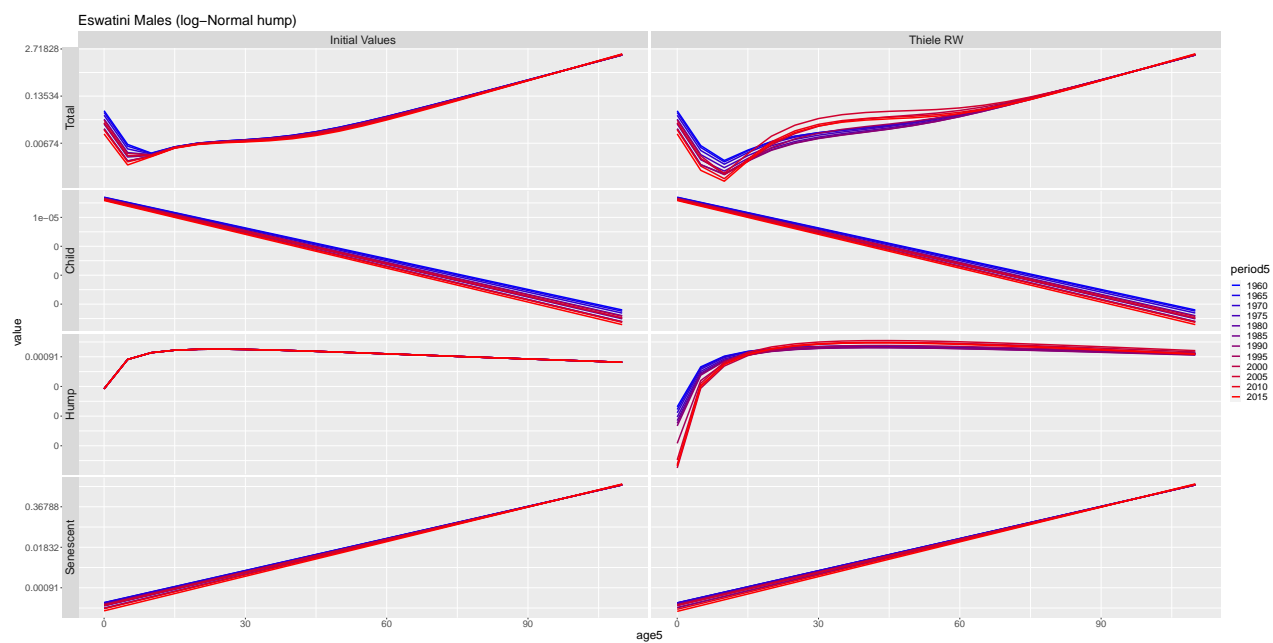


Figure 8: Thiele Decomposed

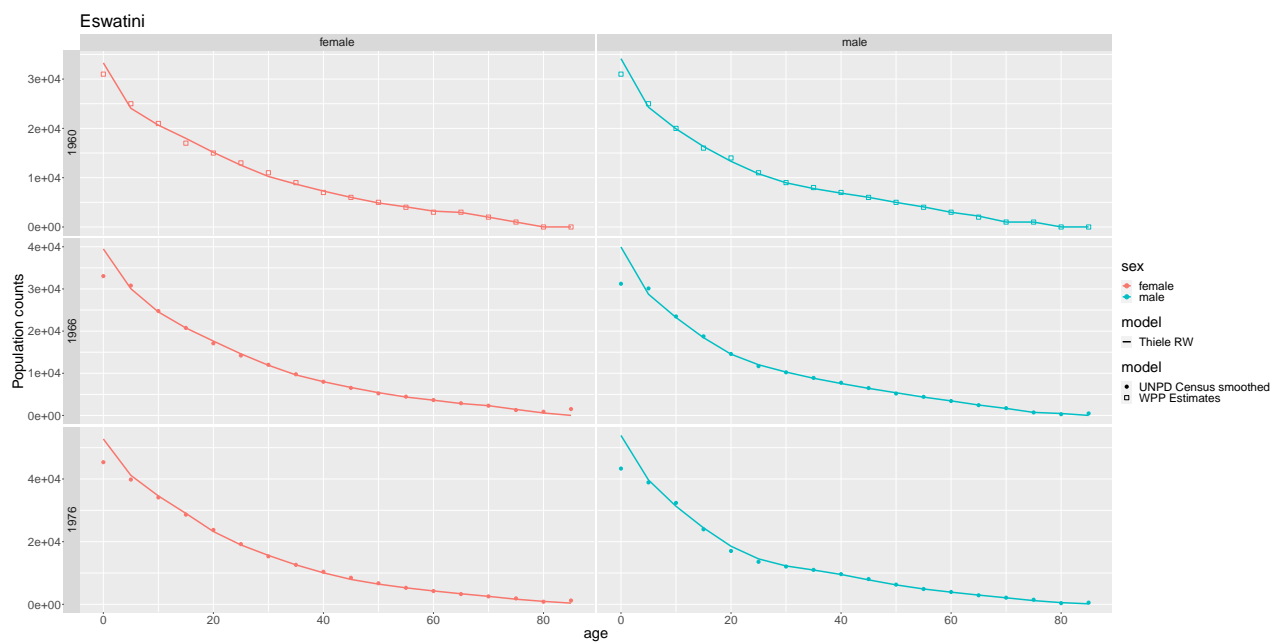


Figure 9: Population

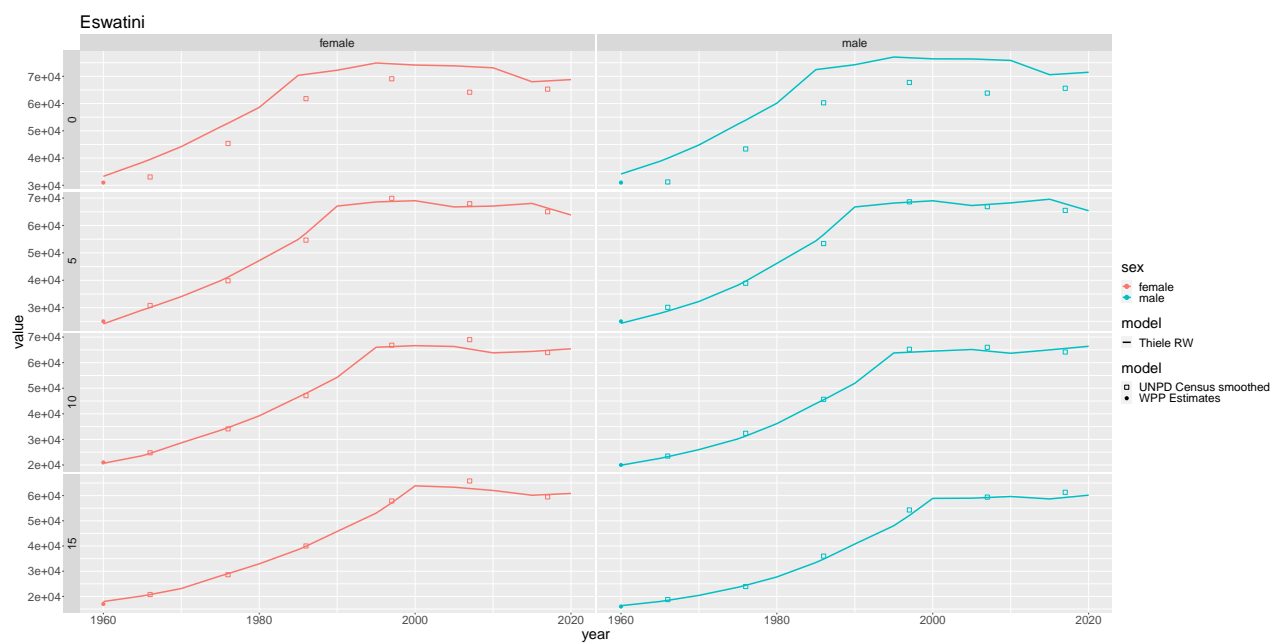


Figure 10: Population

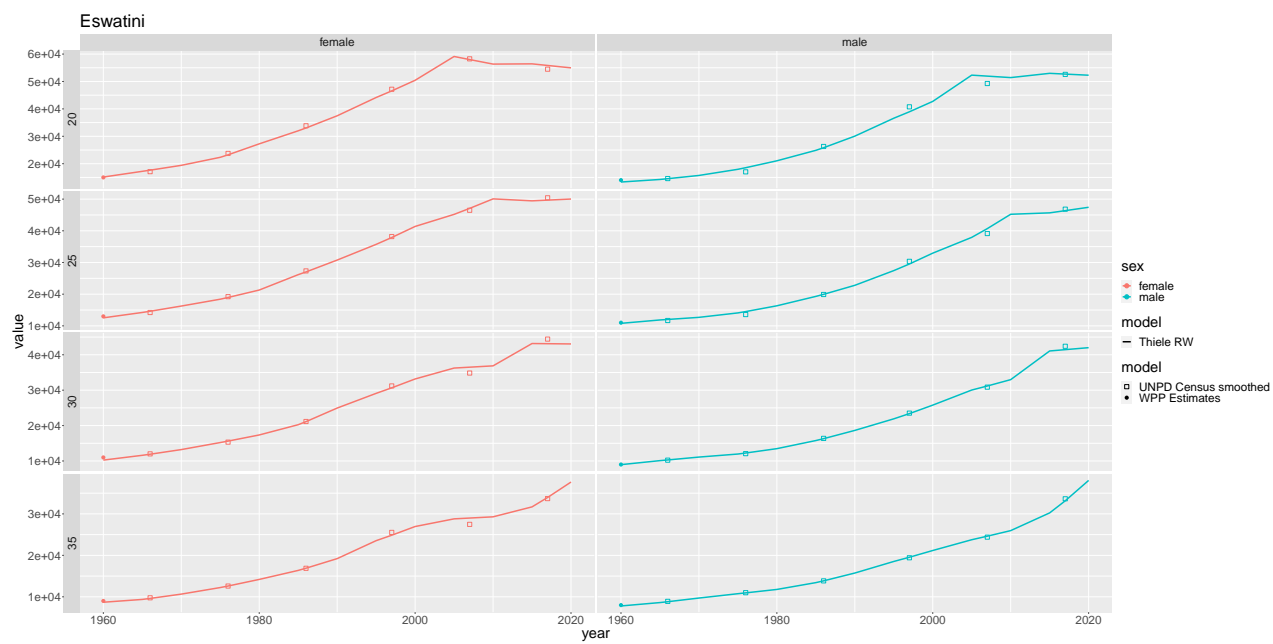


Figure 11: Population

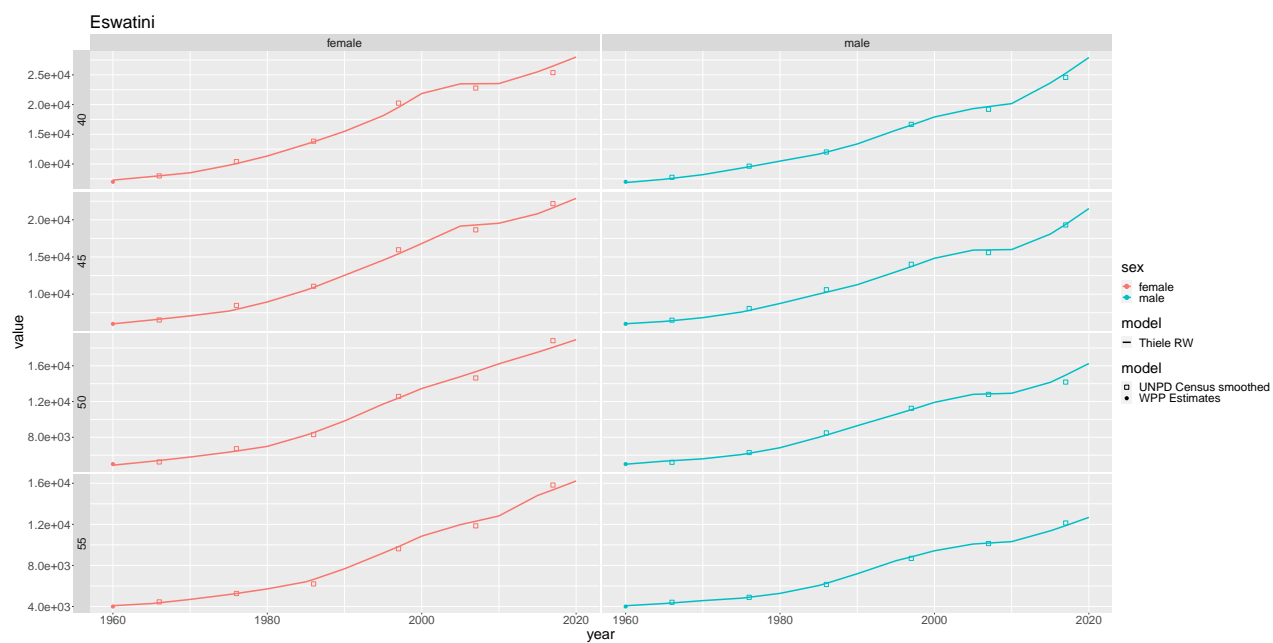


Figure 12: Population

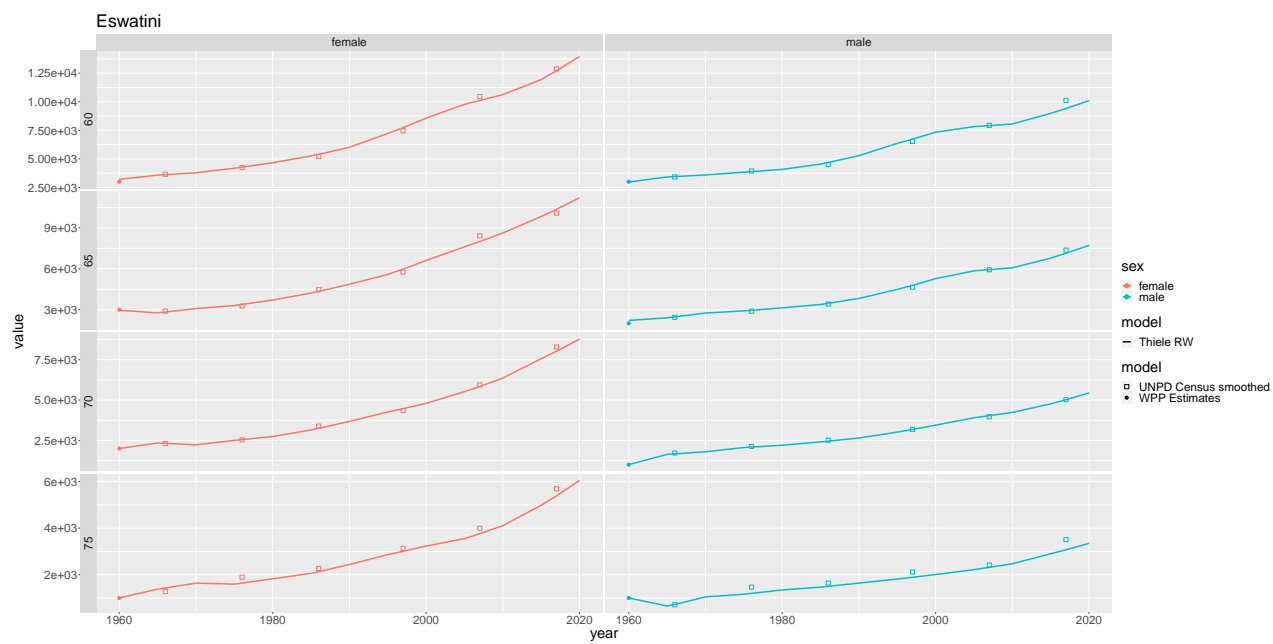


Figure 13: Population

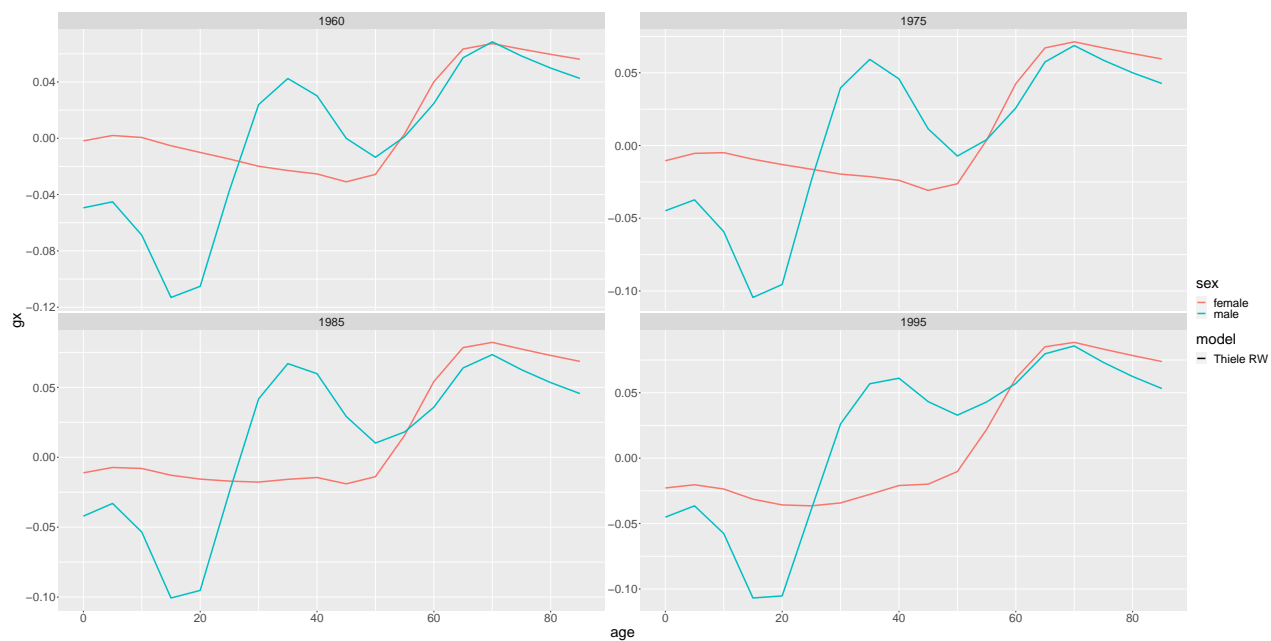


Figure 14: Migration

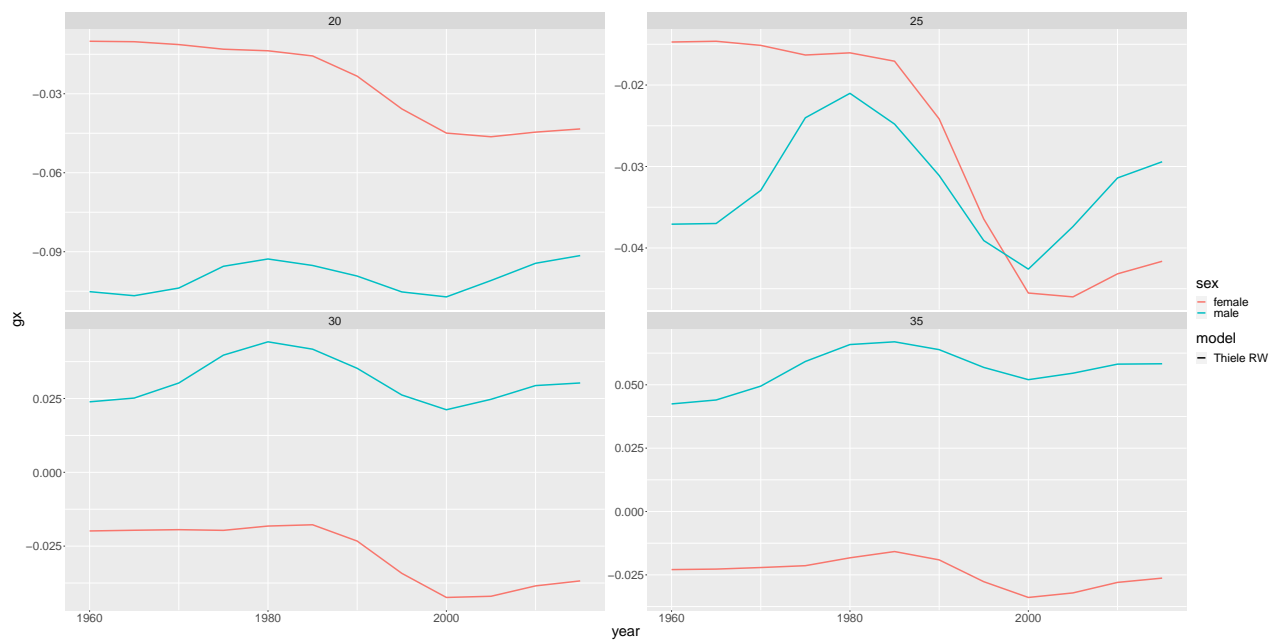


Figure 15: Migration

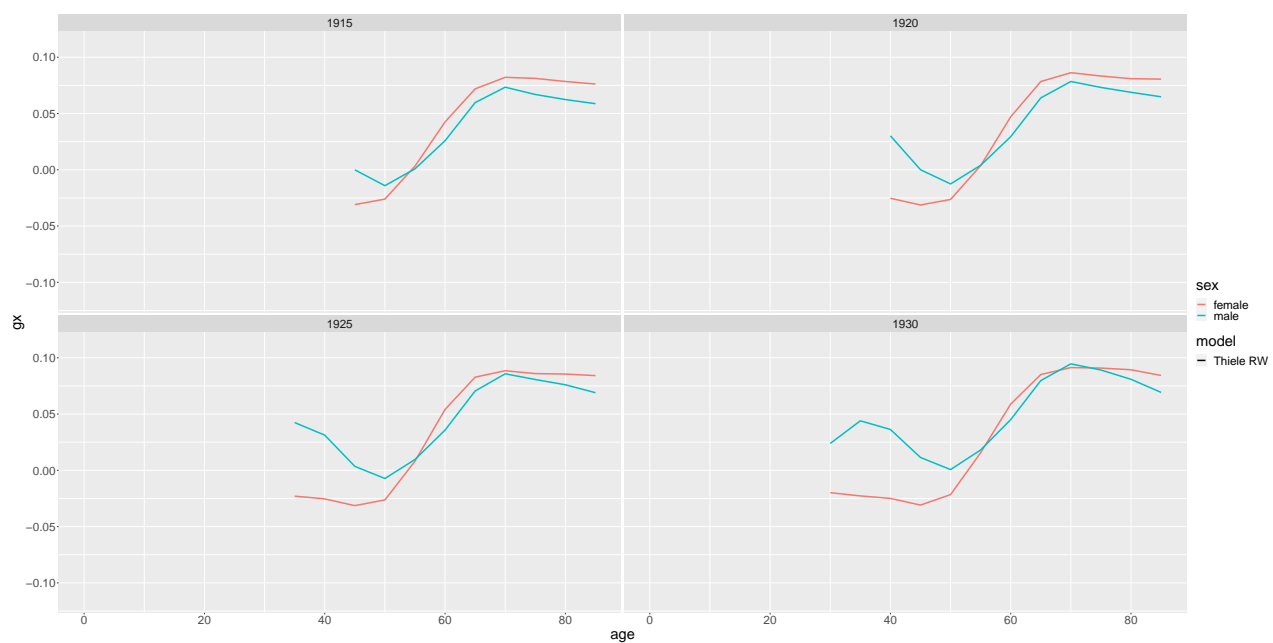


Figure 16: Migration

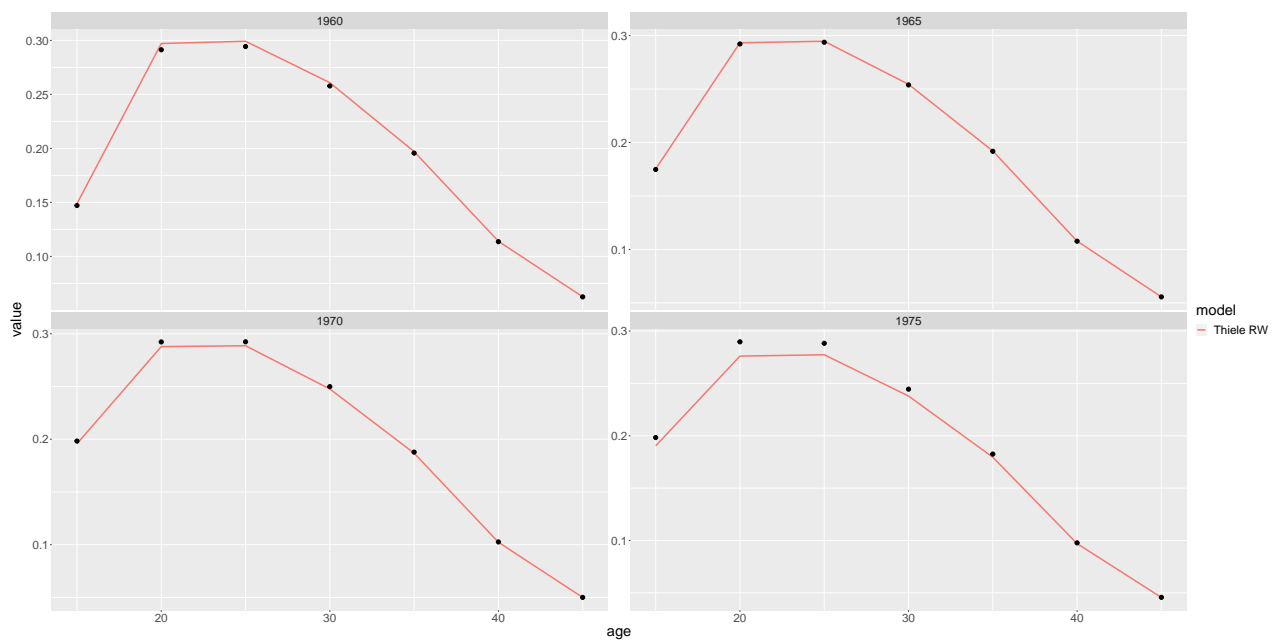


Figure 17: Fertility

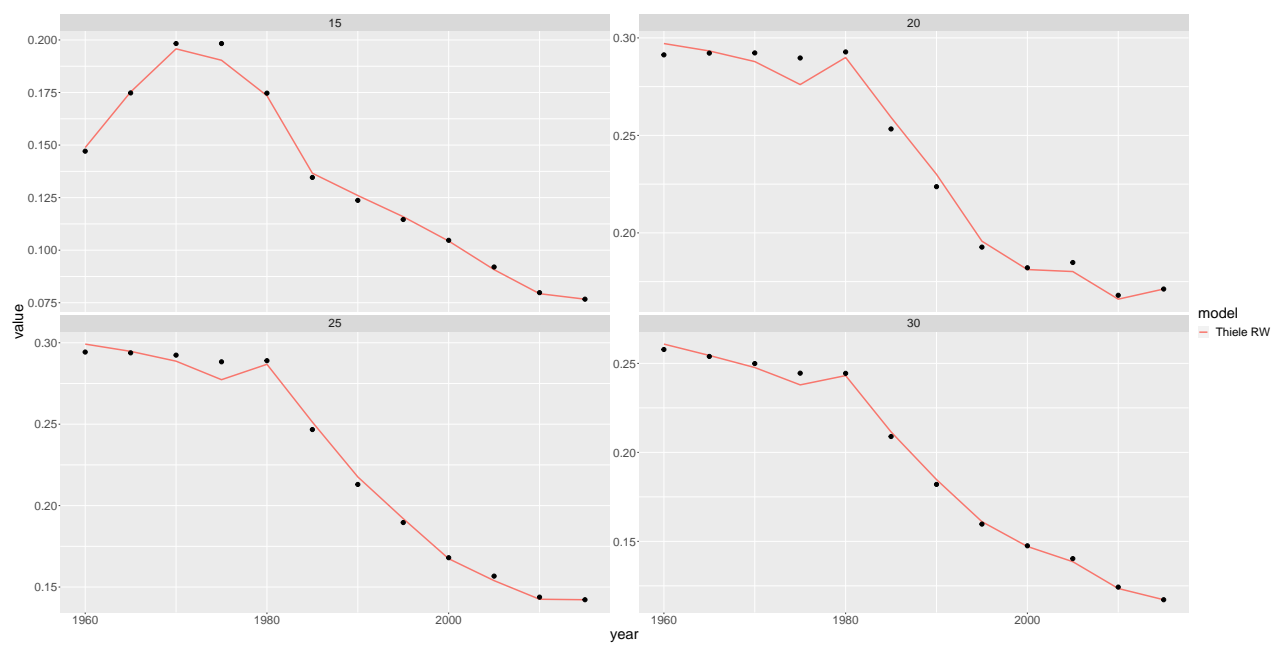


Figure 18: Fertility