

Rwanda

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

```
## # A tibble: 18 x 5
```

	aggr.age	`1978`	`1991`	`2002`	`2012`
*	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1	0	466037.	653170	665141	771978
2	5	361325.	580142.	577688	765565
3	10	304639.	474522.	558736.	655970.
4	15	275639.	373865	494688.	588830.
5	20	231462.	308889.	420437	520983.
6	25	173641.	269890	337174.	453729
7	30	130320.	233112.	264493.	379522.
8	35	111521.	182968.	215660.	305718.
9	40	100240.	133279.	179419.	244142.
10	45	86457.	105644.	146335.	200541
11	50	74057.	92709.	113963.	167144.
12	55	62652.	79171.	86033.	136175.
13	60	49547.	64911.	65745.	104611
14	65	32385.	50270	50987.	76197.
15	70	13319.	40610	38045.	54853.
16	75	22368.	35965	21734	39347.
17	80	NA	NA	14707	26706.
18	85	NA	NA	8231	26496.

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

```
## # A tibble: 18 x 5
```

	aggr.age	`1978`	`1991`	`2002`	`2012`
*	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1	0	462588.	644055	655090	768049
2	5	358634.	566505	563351	757421
3	10	303160.	460628.	536404.	640364.
4	15	273928.	358739.	463566.	569188.
5	20	226121.	293768.	383778.	499650.
6	25	161692.	261421.	299168.	428454.
7	30	110684.	229449.	228871.	350632.
8	35	87492.	177671.	185847.	274429.
9	40	79283.	122634.	154300.	209778
10	45	71068.	86745	123156.	167014.
11	50	61257.	71374.	91774.	136966.
12	55	51816.	62772.	65381.	108245.
13	60	42545.	52764.	47457.	79267
14	65	30119.	41664.	36184.	54291.
15	70	14043.	32755	27764.	36581.
16	75	23333.	33020	16255	25146.
17	80	NA	NA	12081	17154.
18	85	NA	NA	6610	17077.

Thiele log-Normal Hump RW

```
## user system elapsed
## 52.97 1.14 54.34
```

```
## [1] "relative convergence (4)"  
Thiele log-Normal Hump RW (Pop 5-9 to 70-74, DHS 15-19 to 45-49)  
##      user  system elapsed  
##  41.66    0.75   42.60  
## [1] "relative convergence (4)"
```

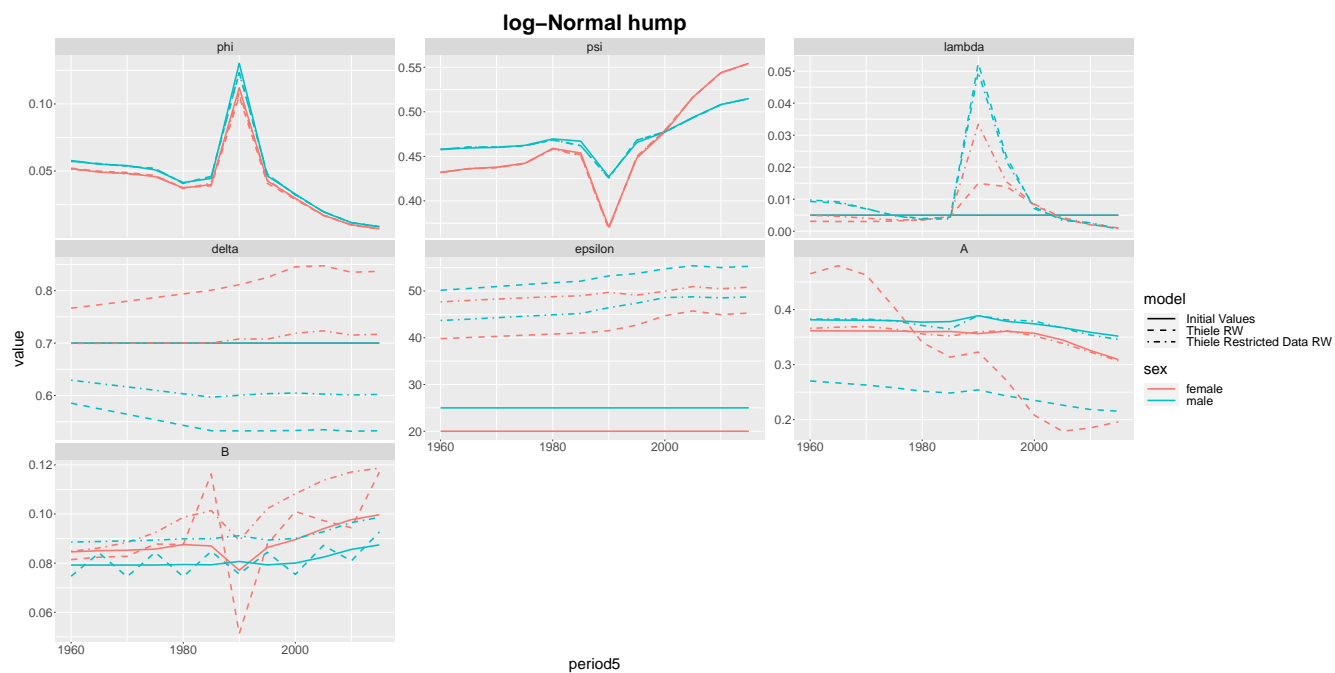


Figure 1: Estimated parameters

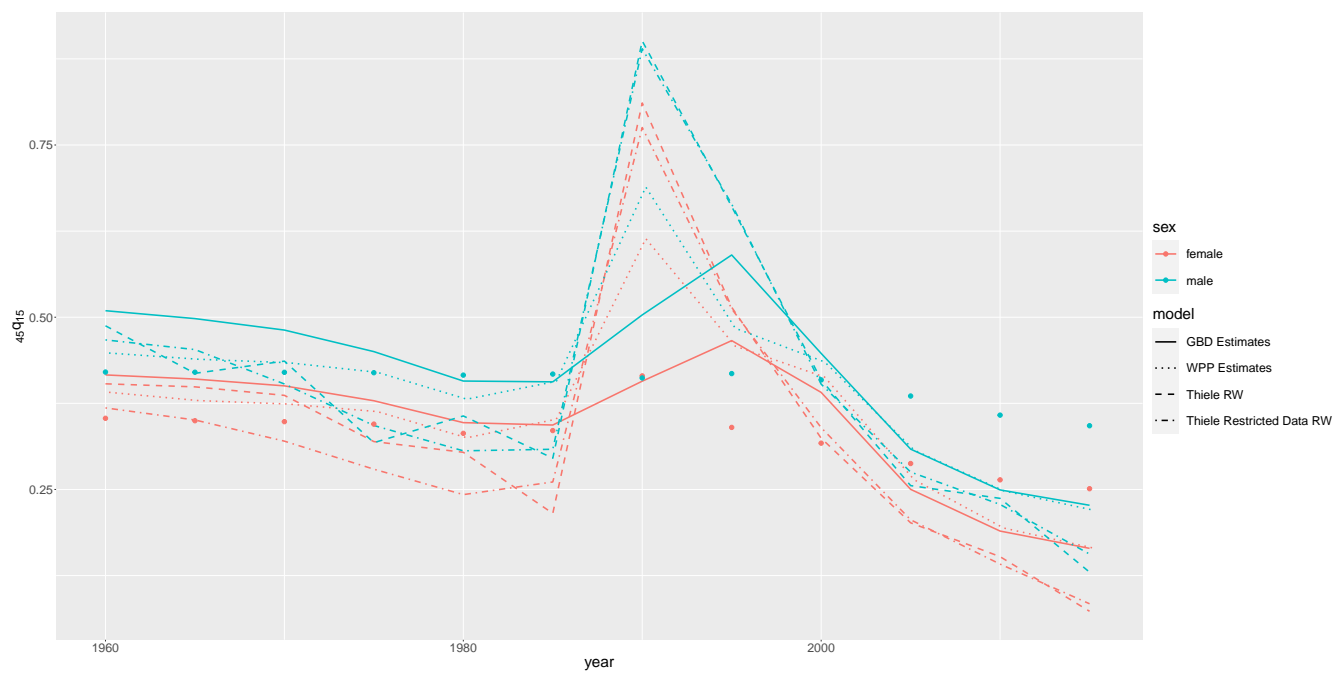


Figure 2: Estimated $45q_{15}$

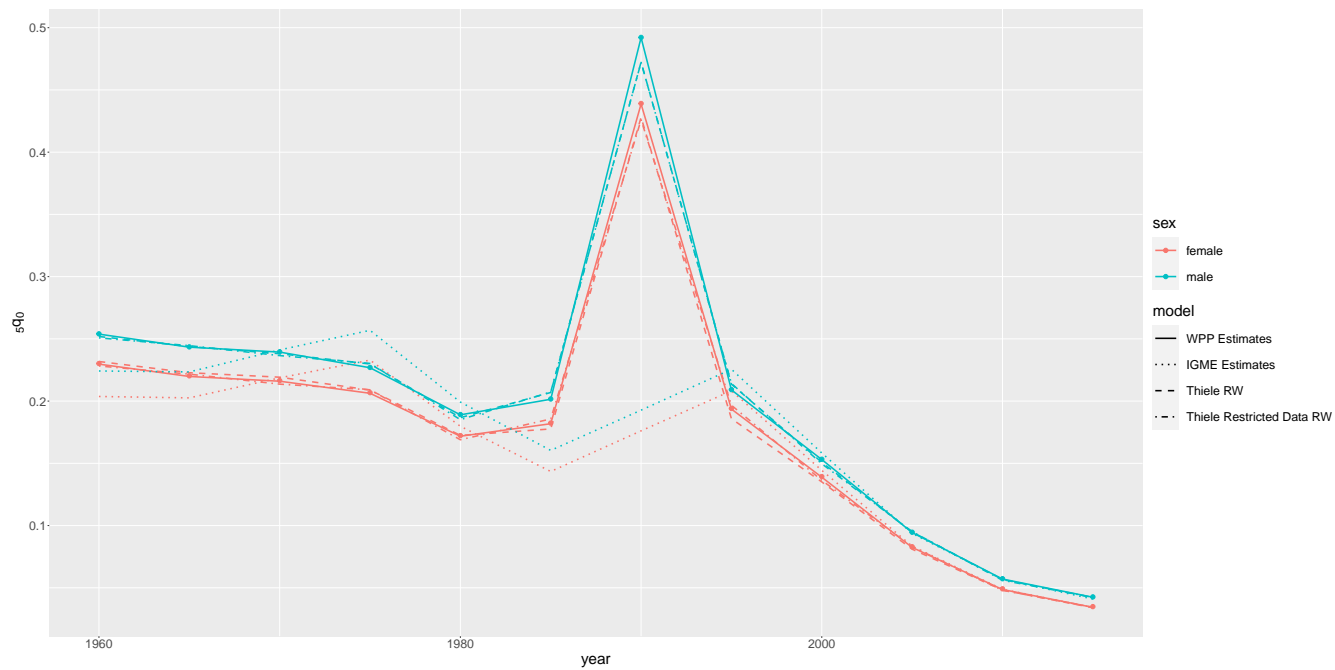


Figure 3: Estimated $5q_0$

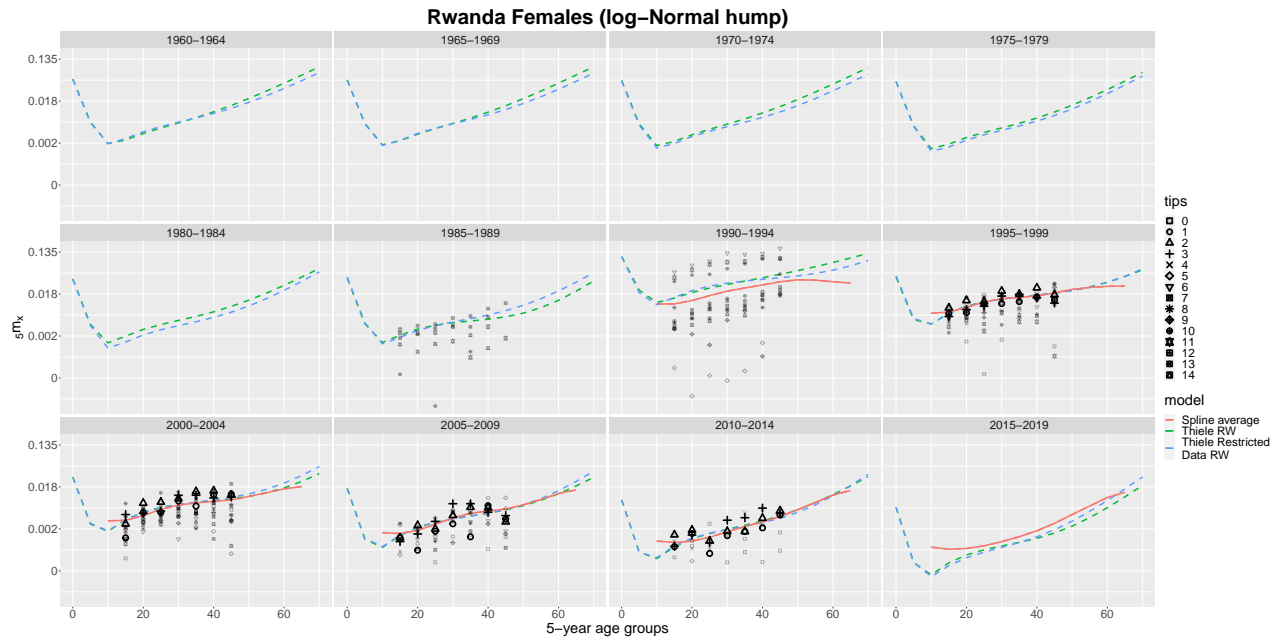


Figure 4: Mortality Schedules

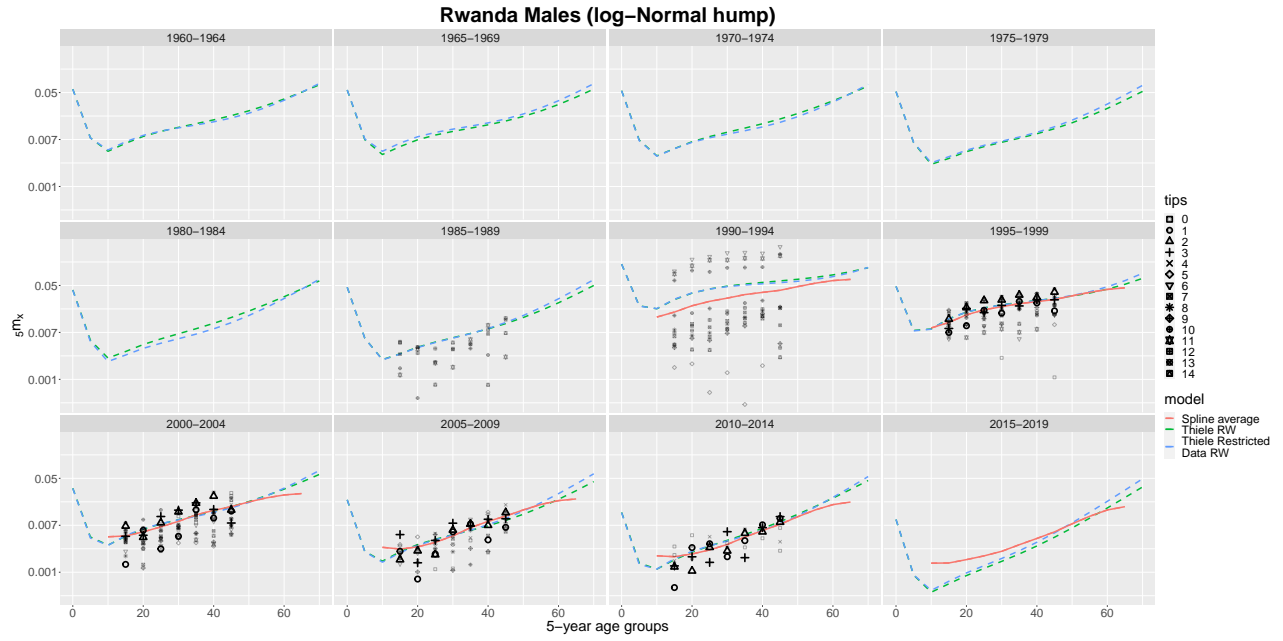


Figure 5: Mortality Schedules

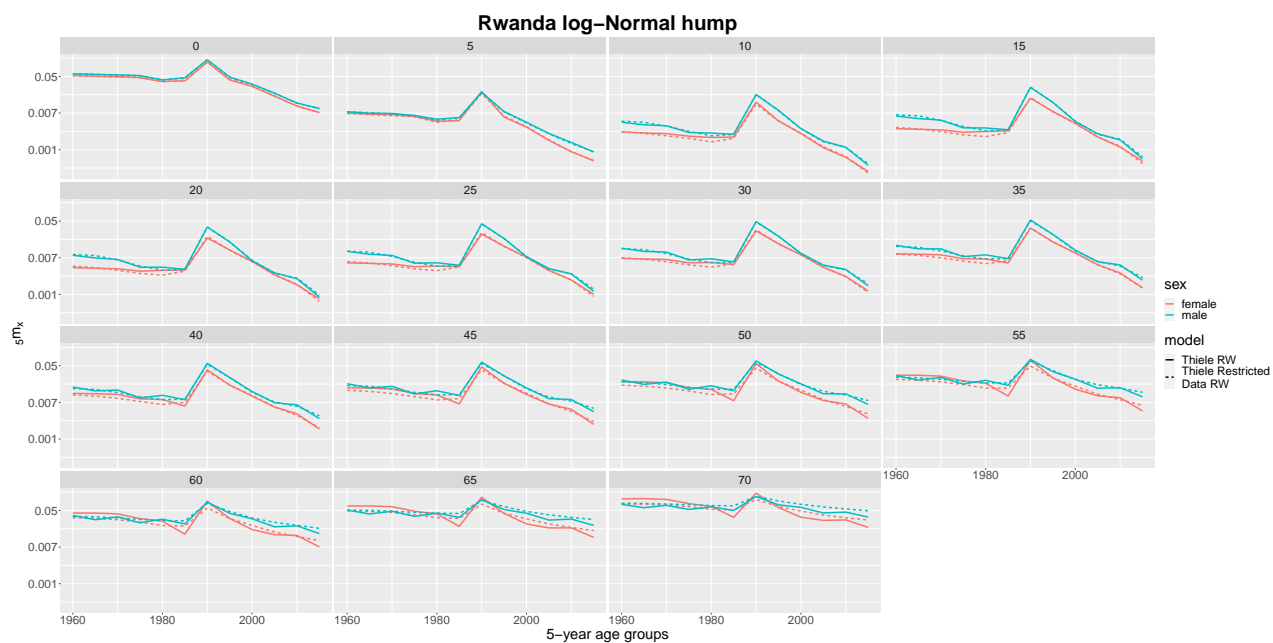


Figure 6: Mortality Schedules

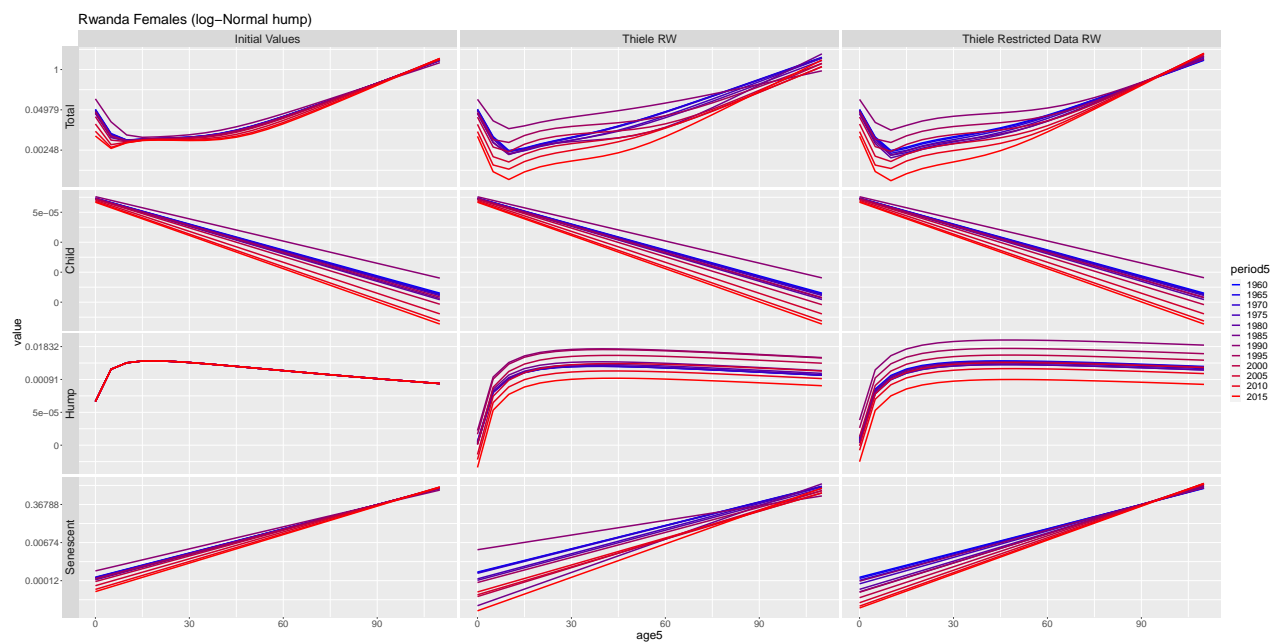


Figure 7: Thiele Decomposed

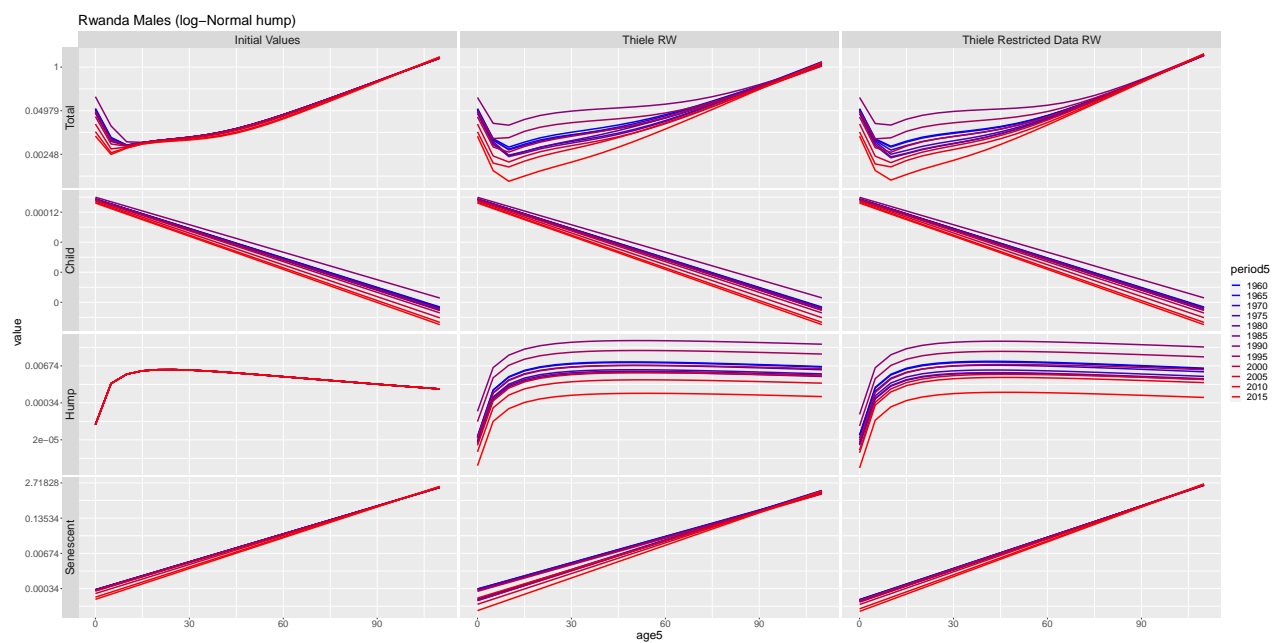


Figure 8: Thiele Decomposed

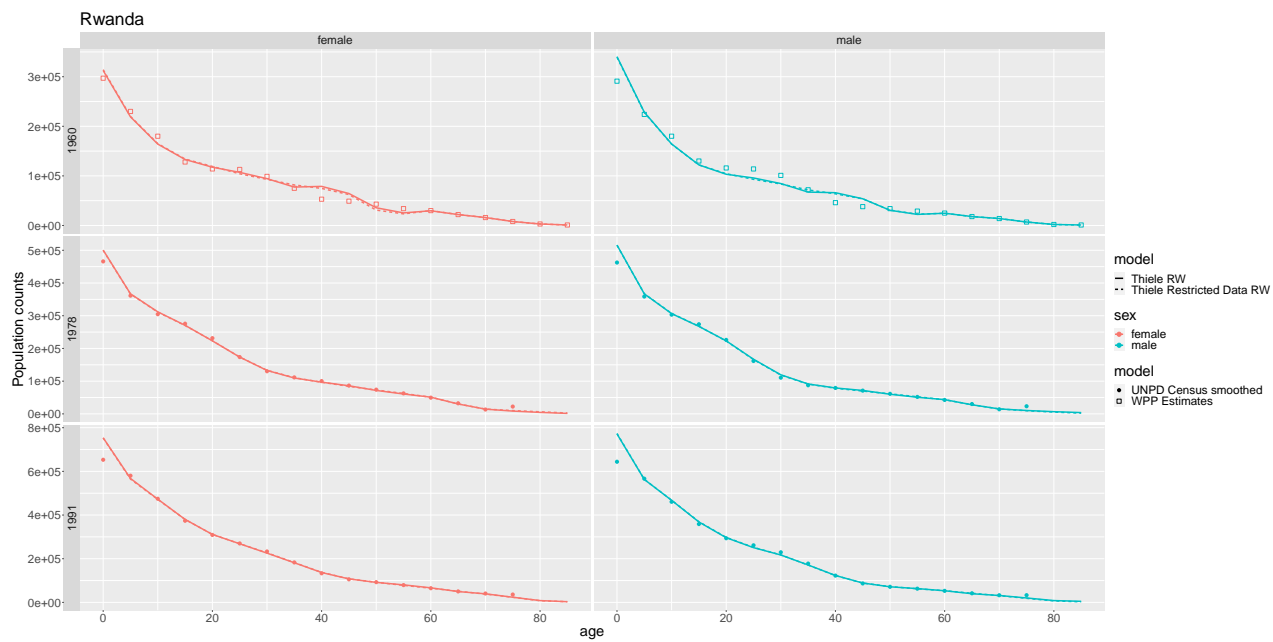


Figure 9: Population

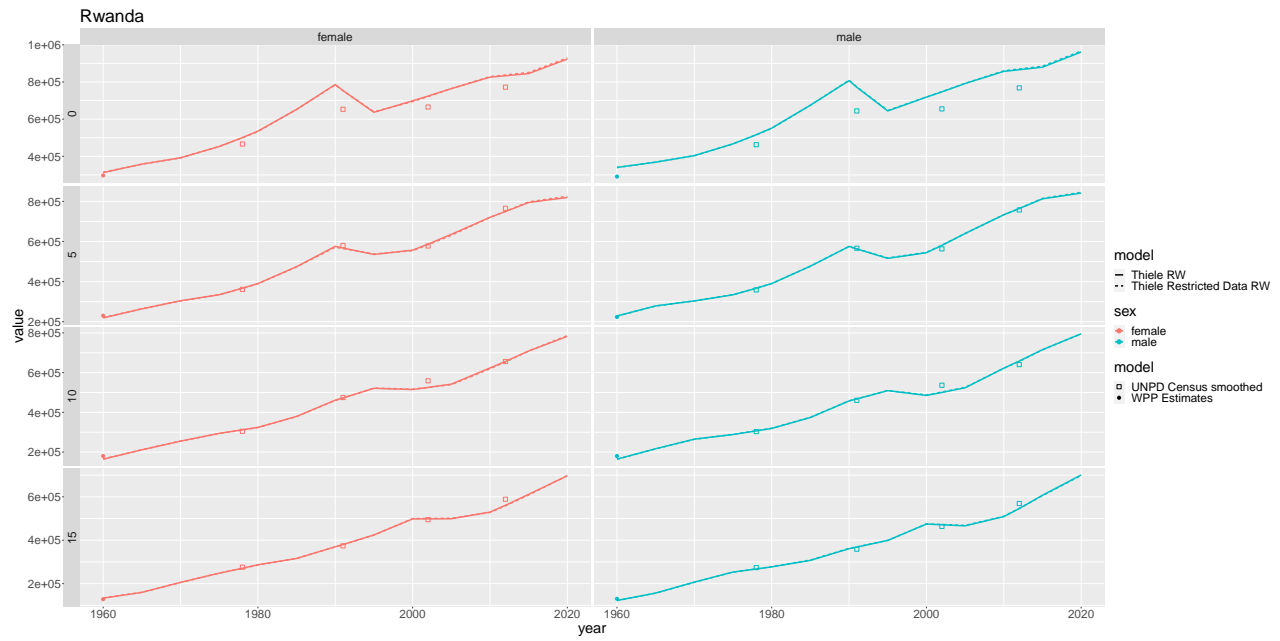


Figure 10: Population

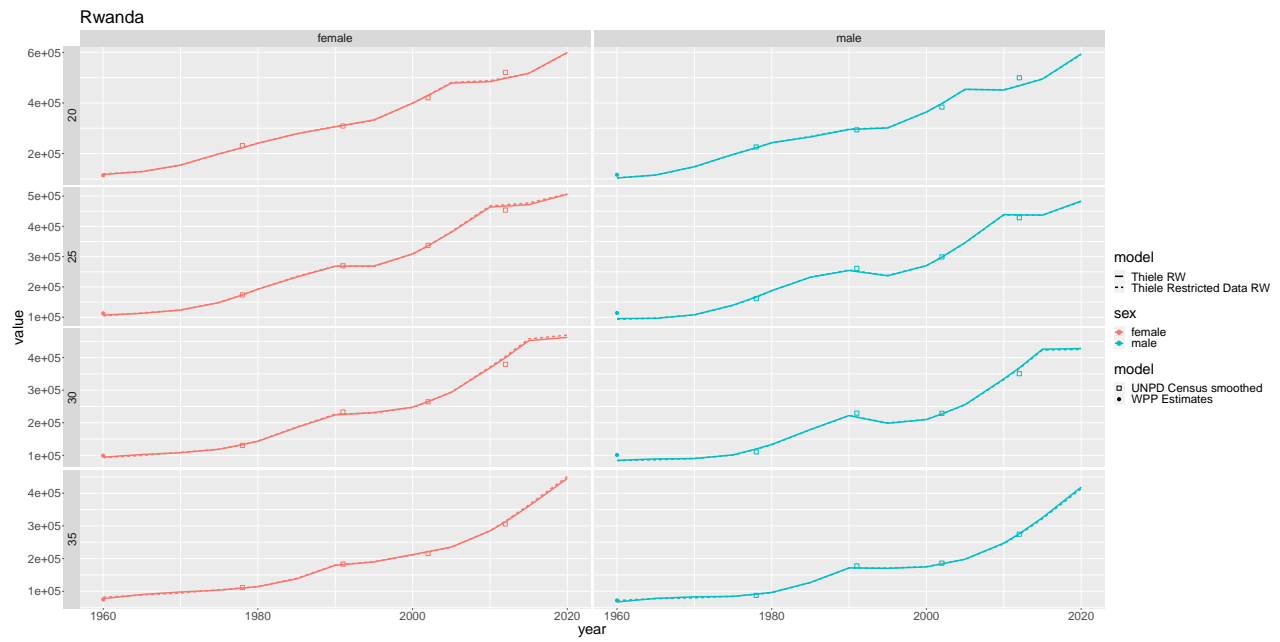


Figure 11: Population

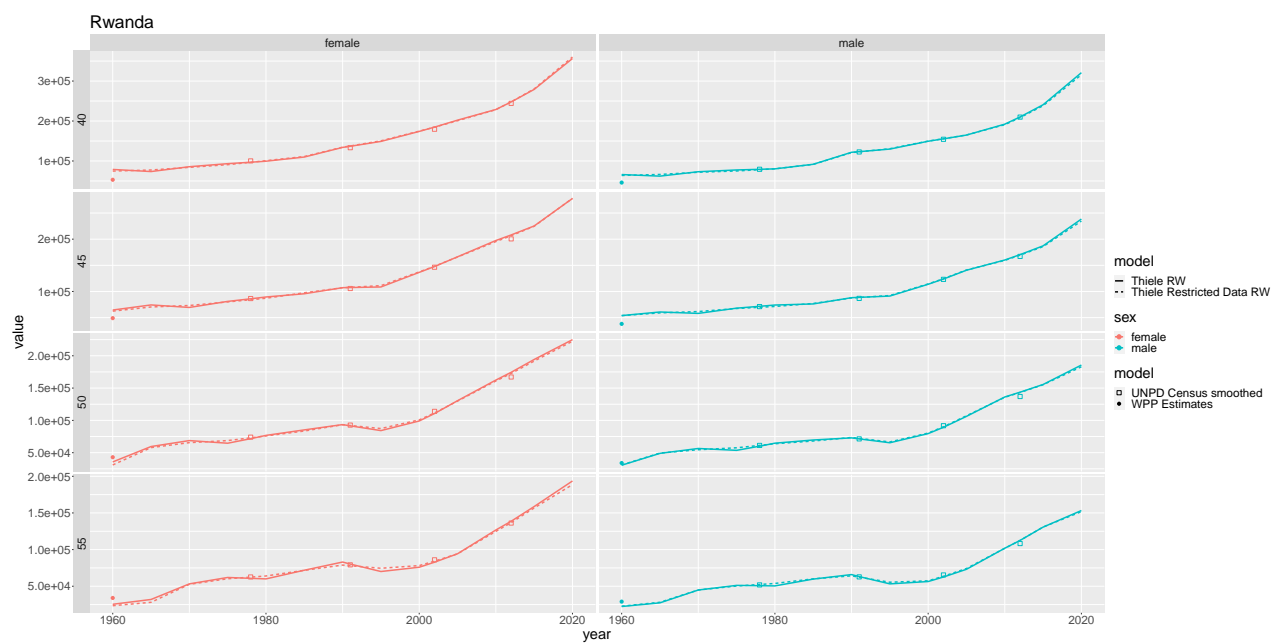


Figure 12: Population

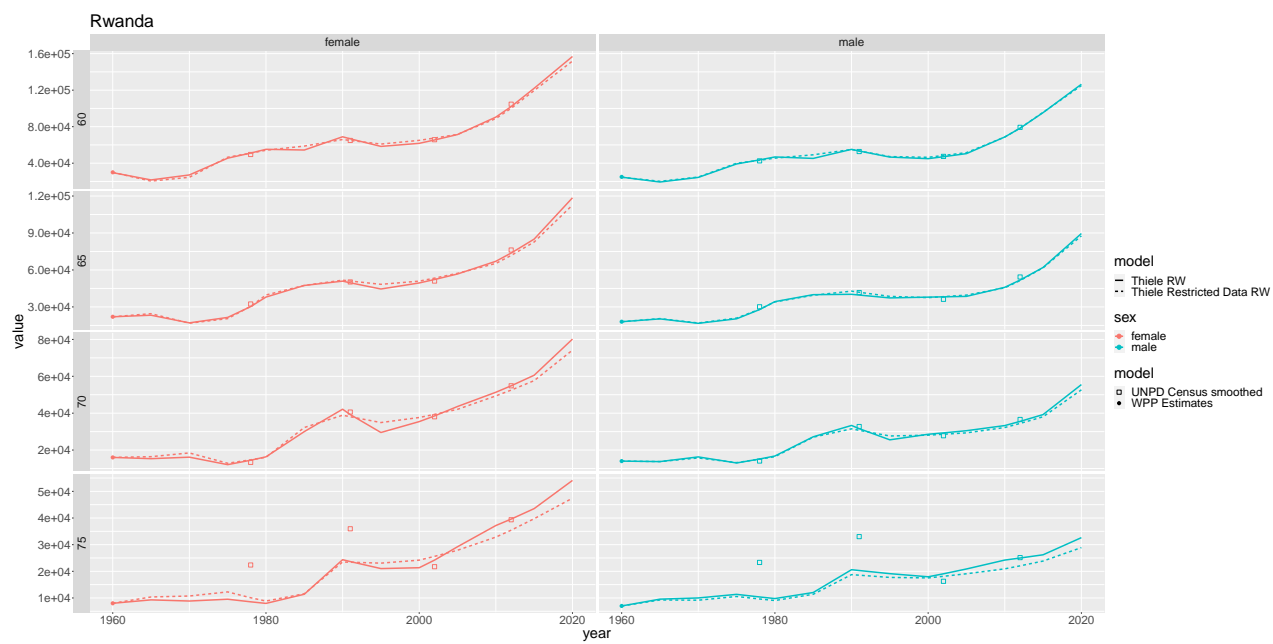


Figure 13: Population

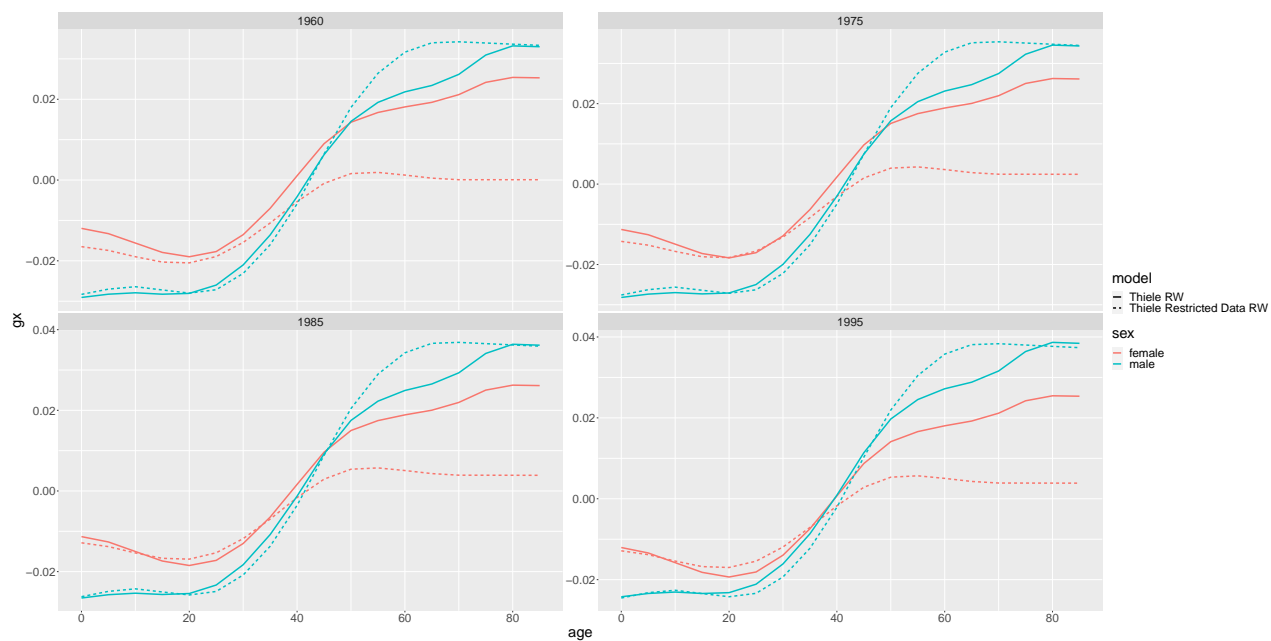


Figure 14: Migration

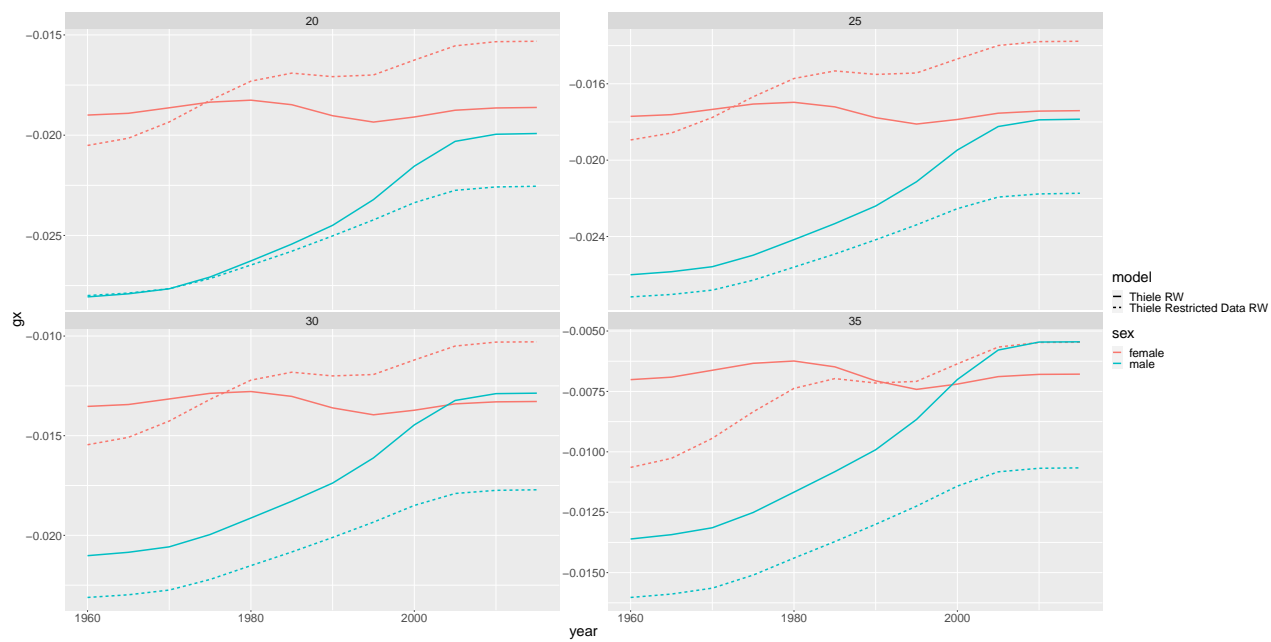


Figure 15: Migration

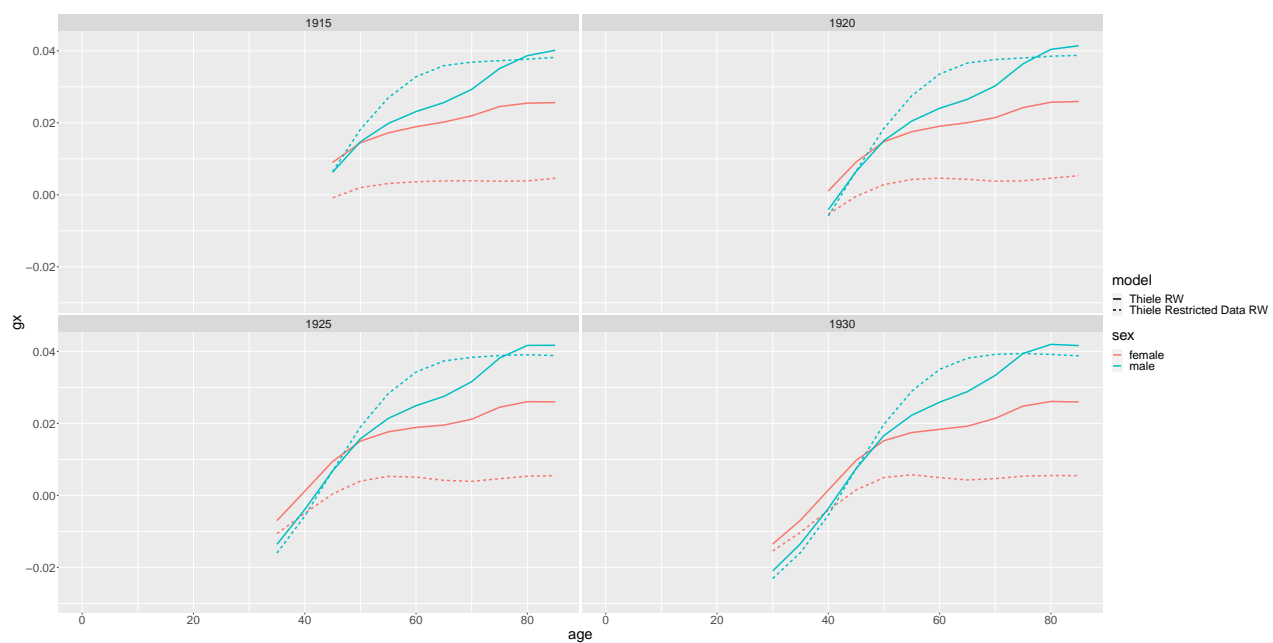


Figure 16: Migration

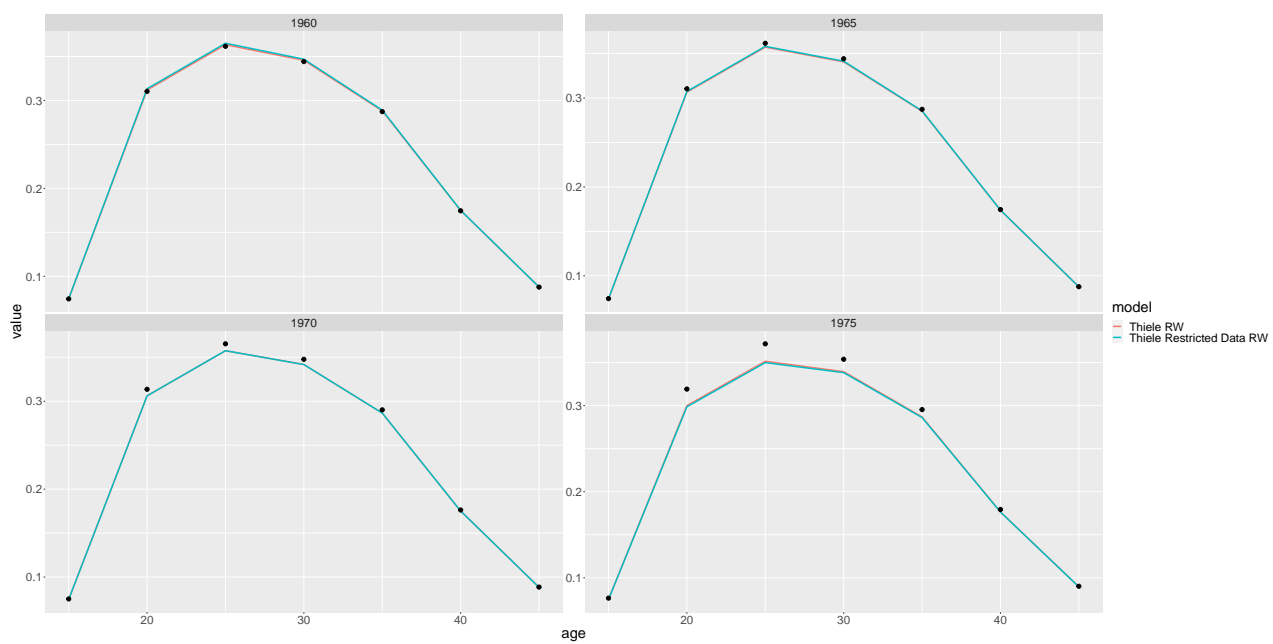


Figure 17: Fertility

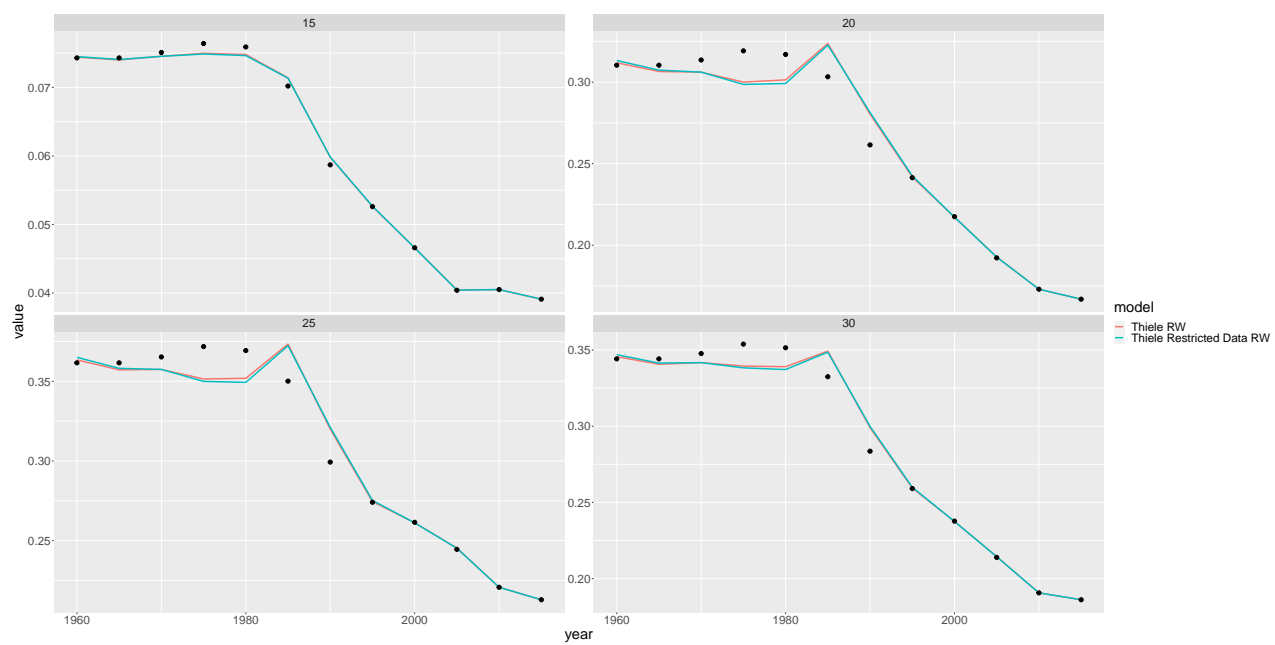


Figure 18: Fertility