

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
##	30.37	0.77	31.27

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

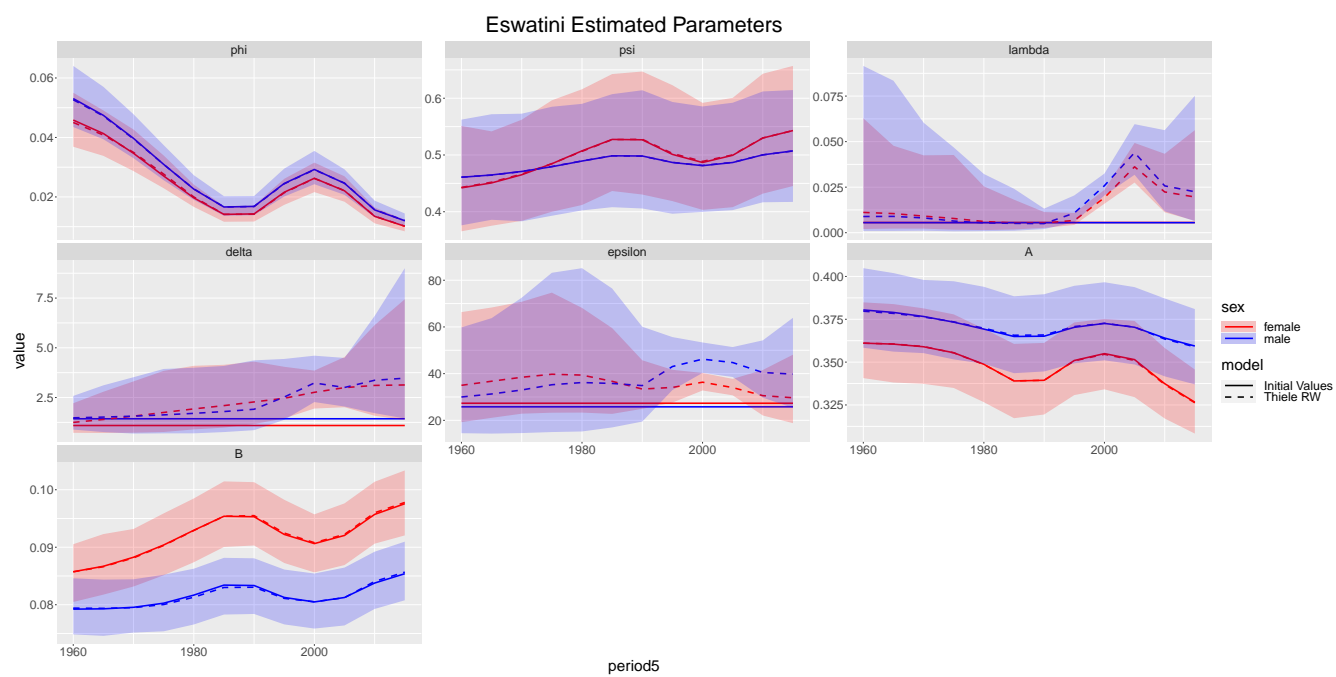


Figure 1: Estimated parameters

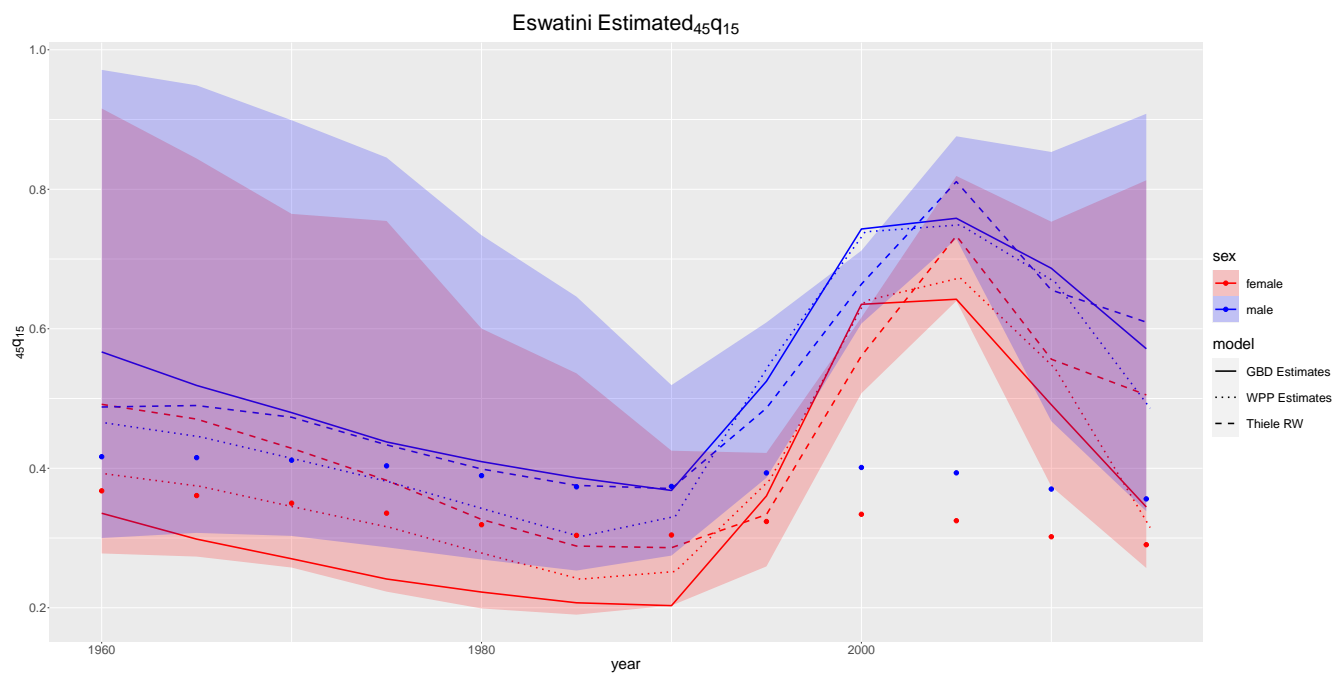


Figure 2: Estimated $_{45}q_{15}$

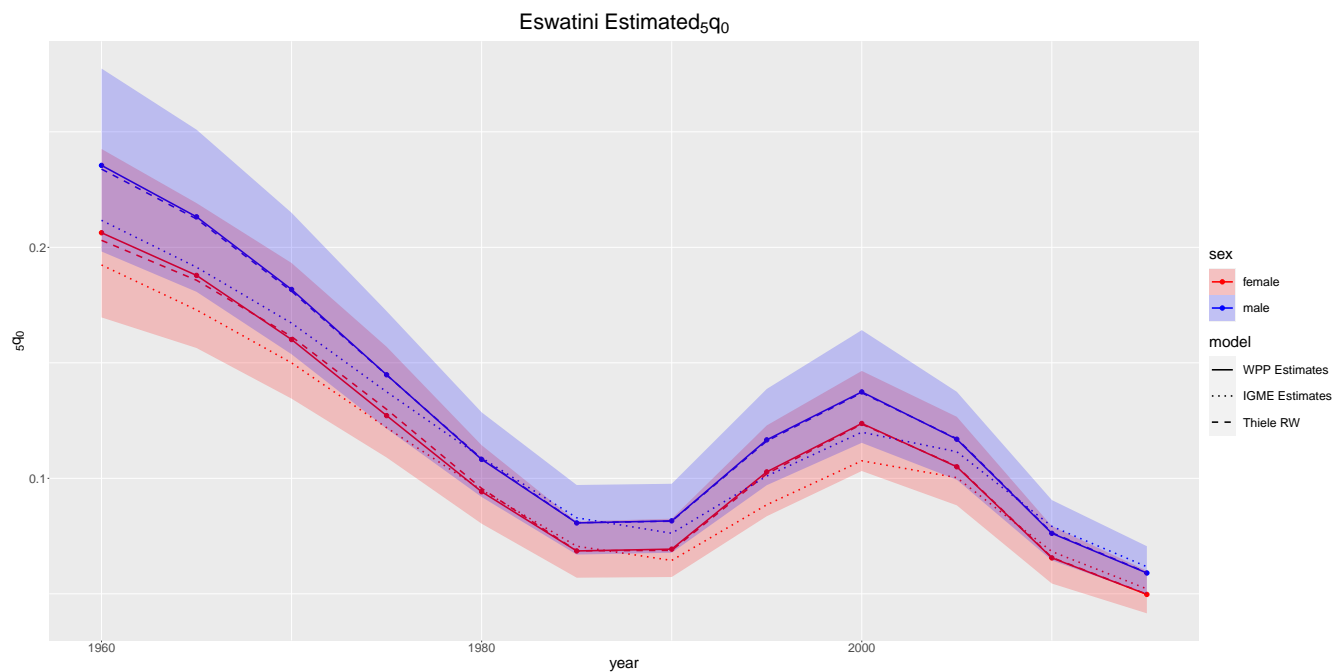


Figure 3: Estimated ${}_5q_0$

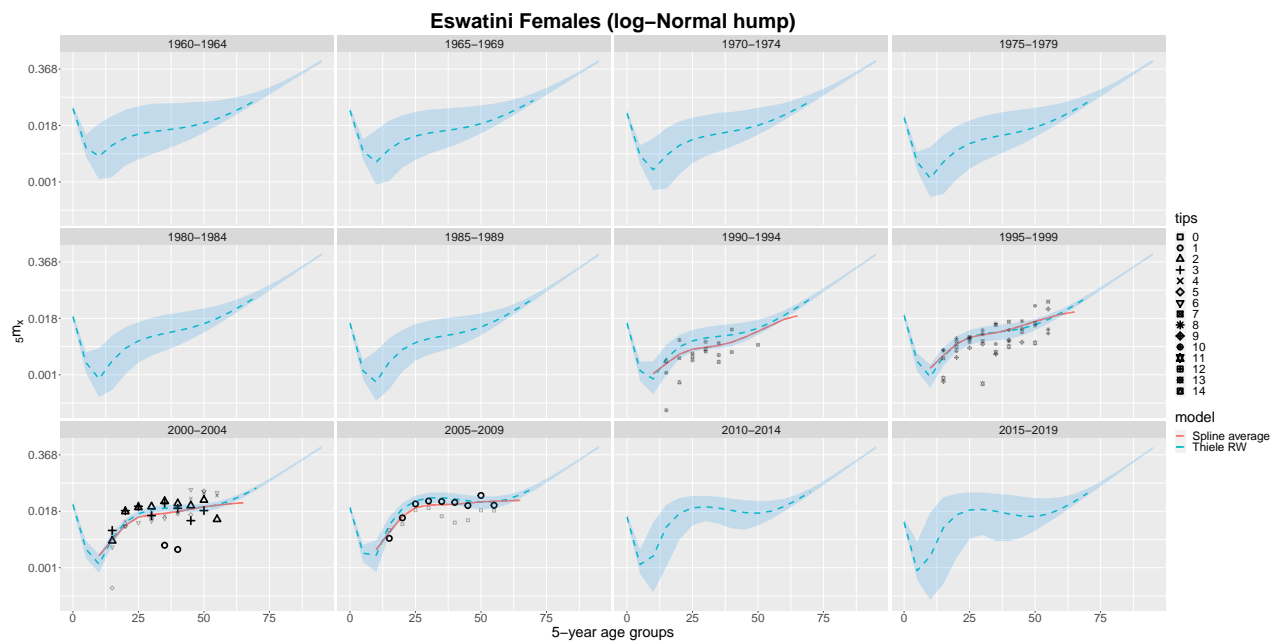


Figure 4: Mortality Schedules

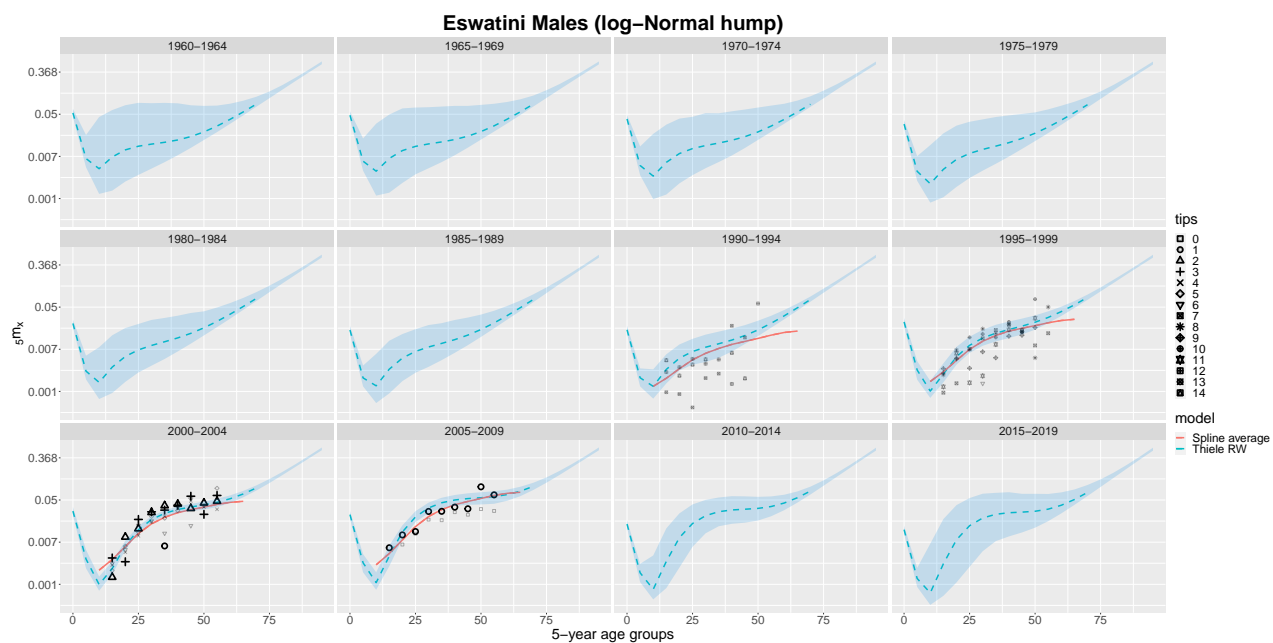


Figure 5: Mortality Schedules

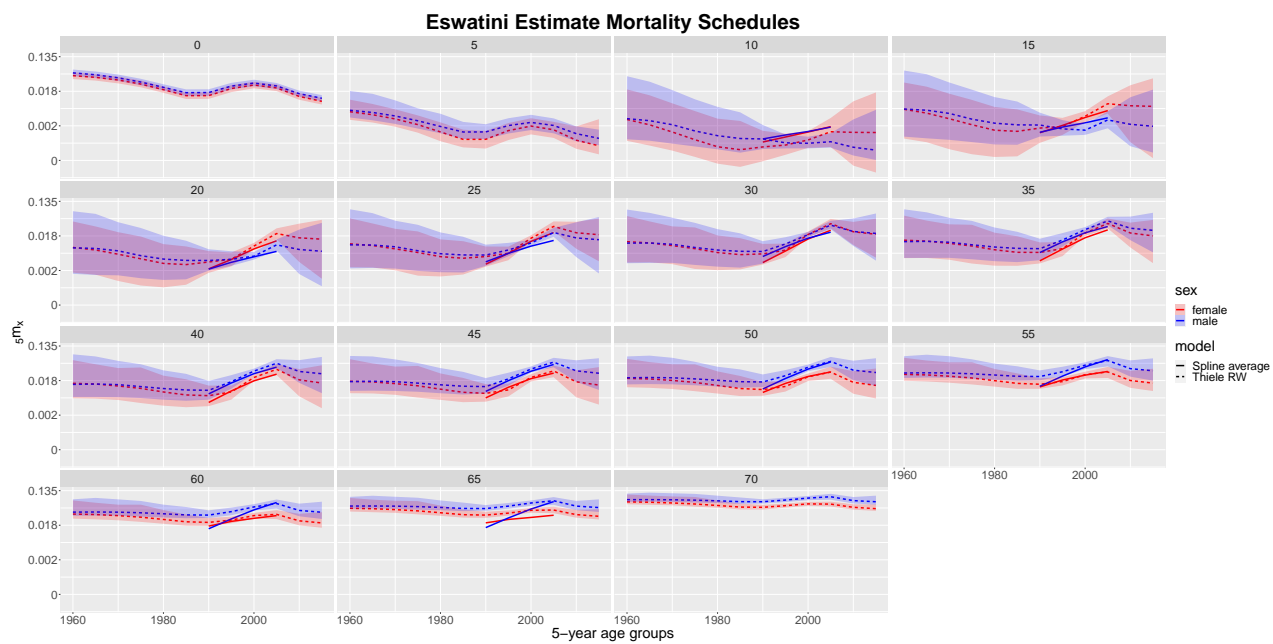


Figure 6: Mortality Schedules

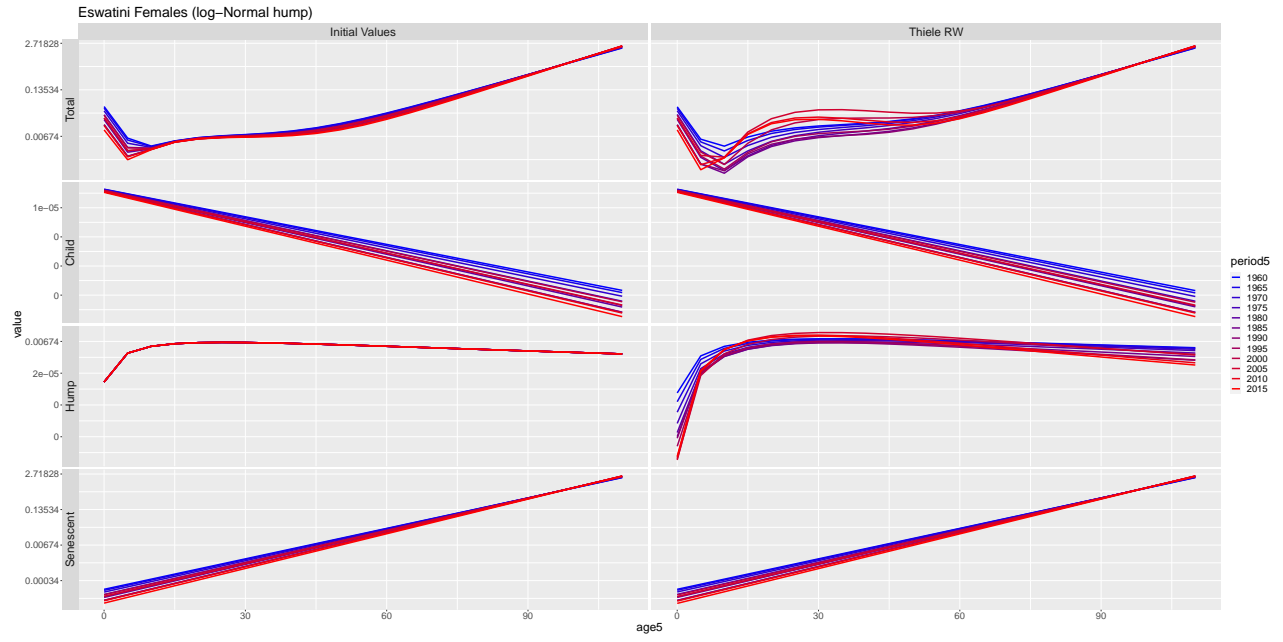


Figure 7: Thiele Decomposed

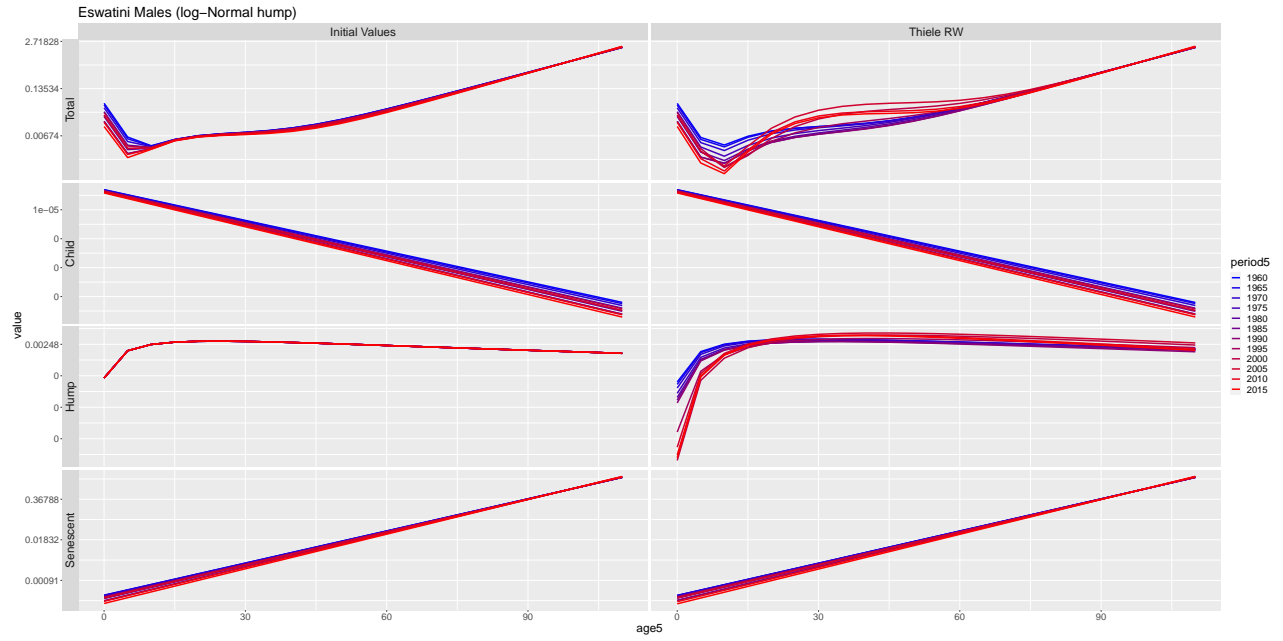


Figure 8: Thiele Decomposed

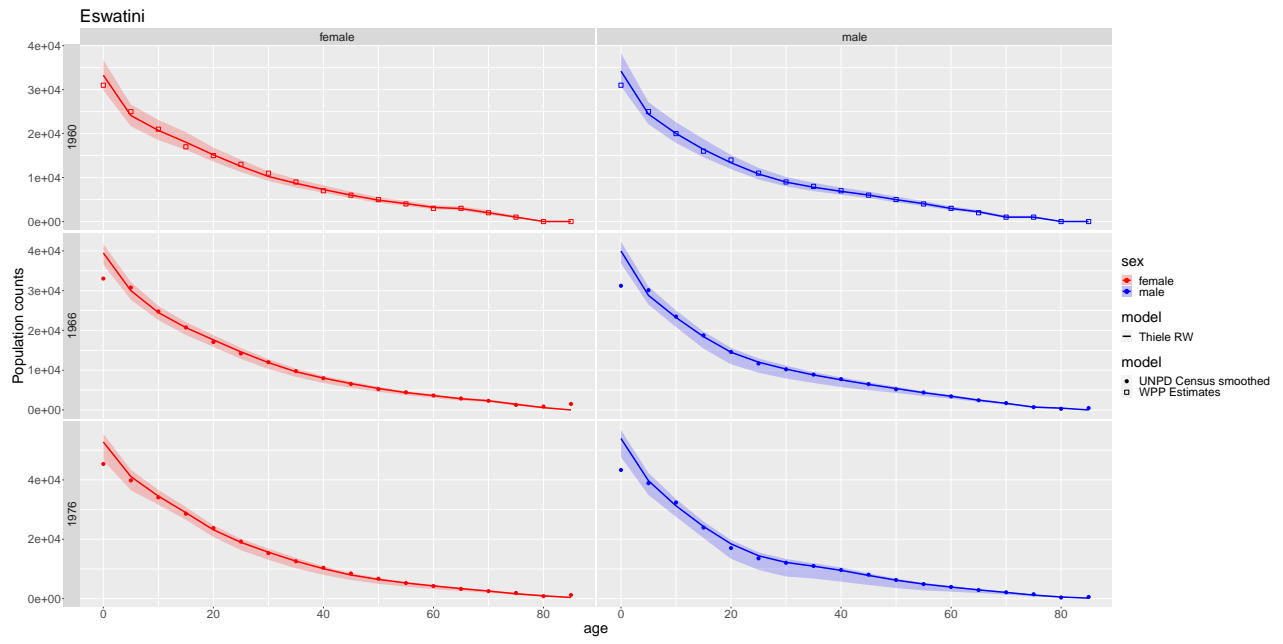


Figure 9: Population

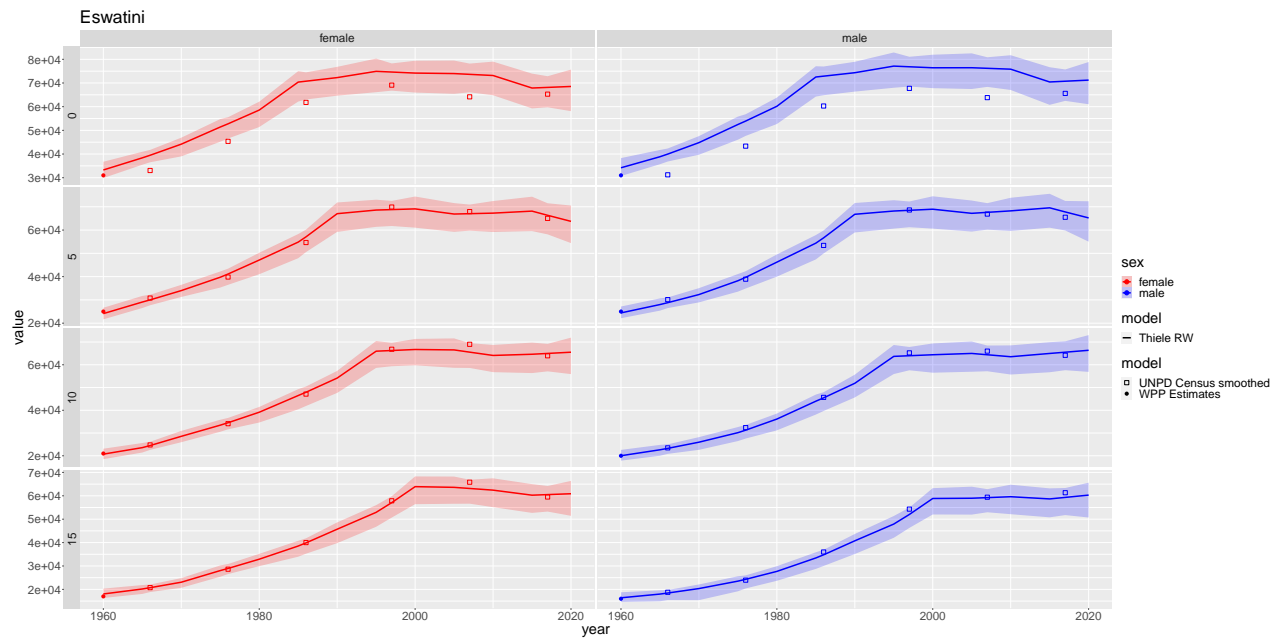


Figure 10: Population

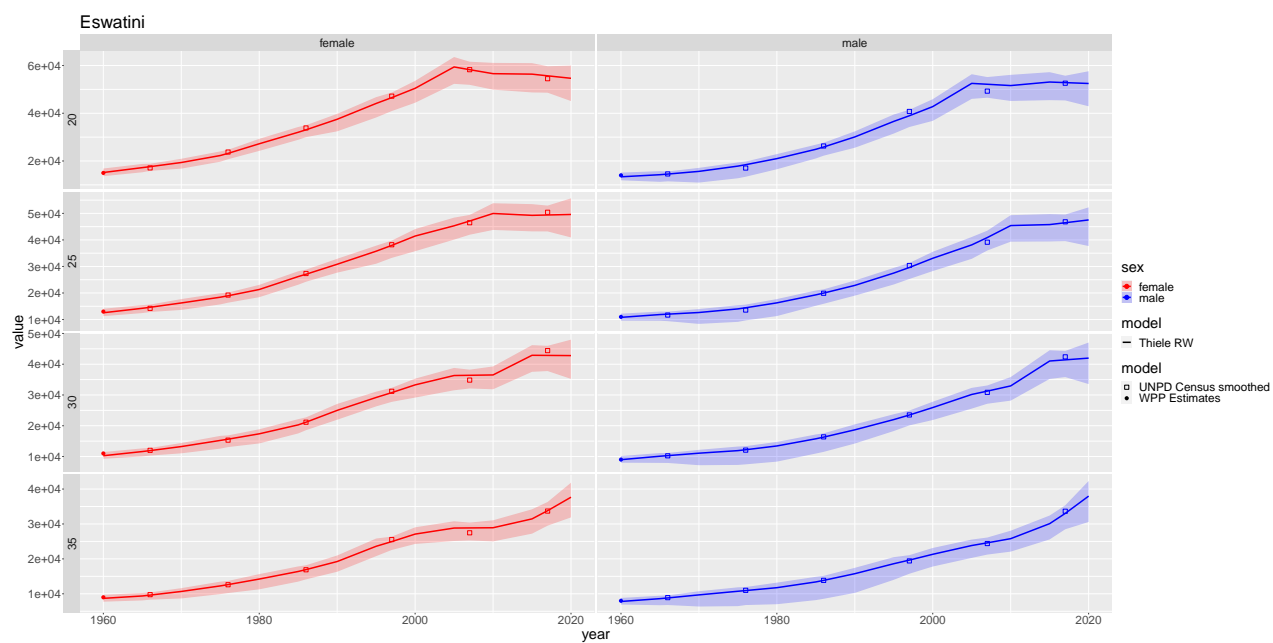


Figure 11: Population

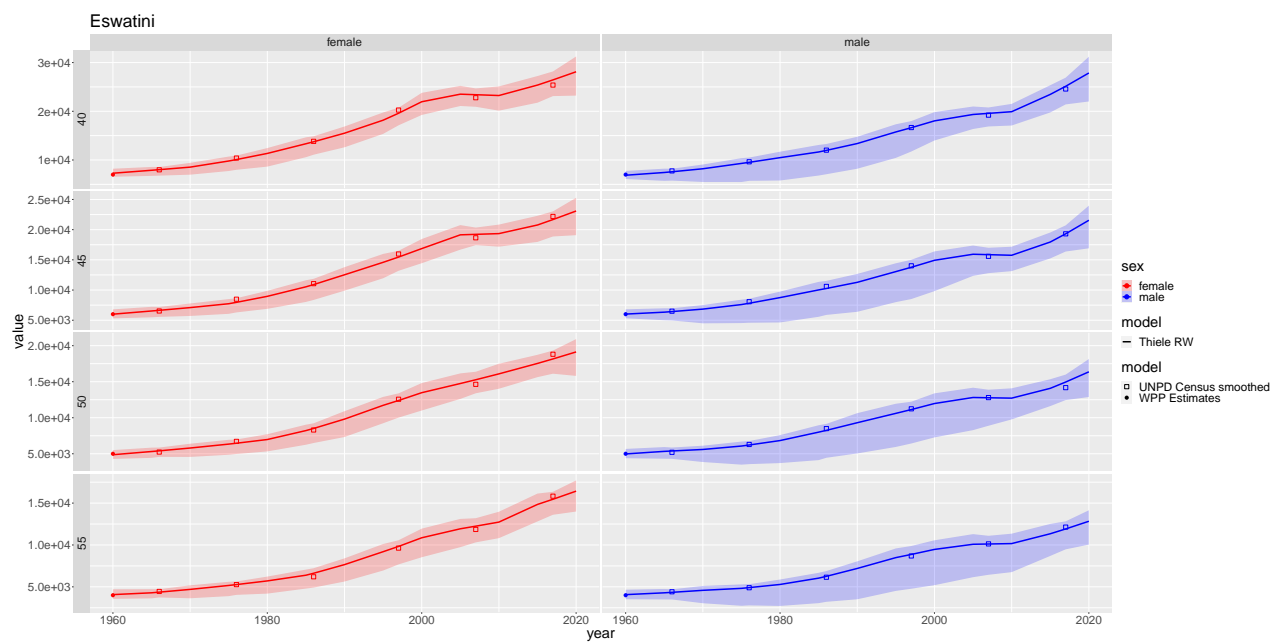


Figure 12: Population

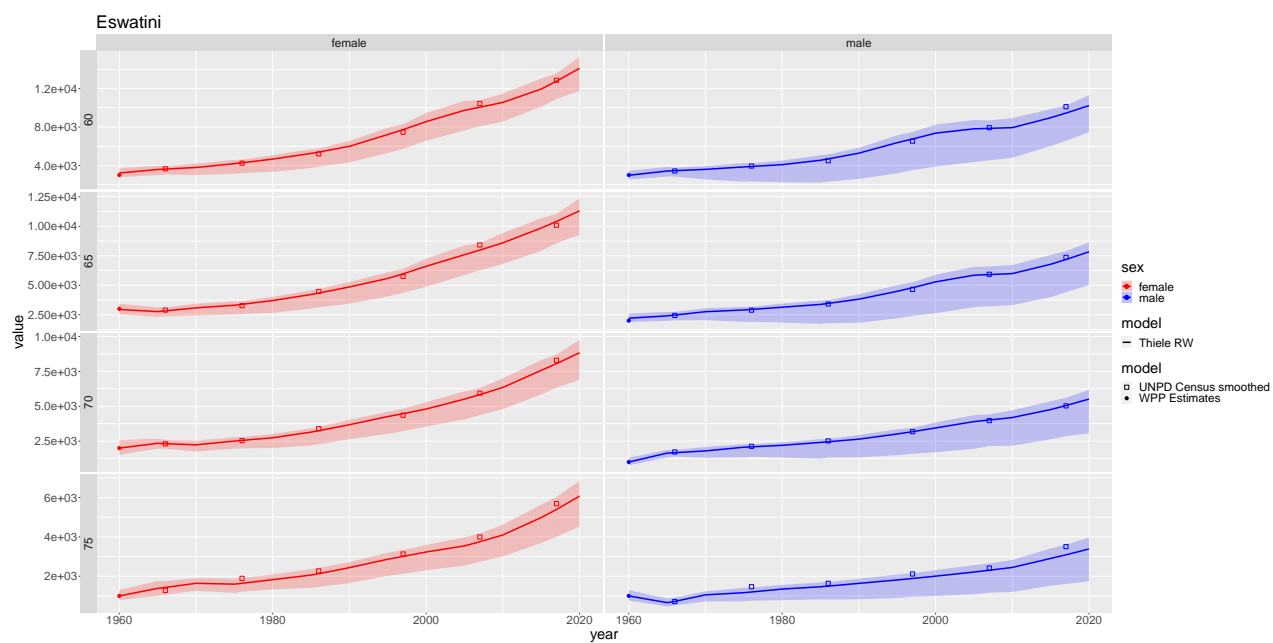


Figure 13: Population

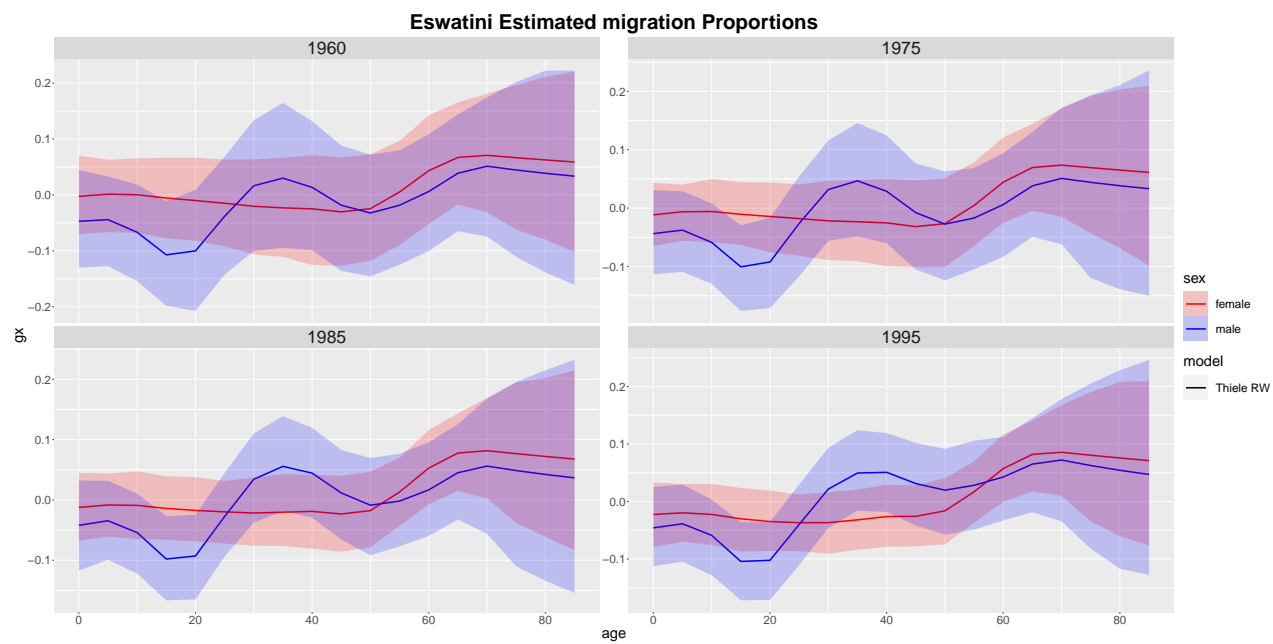


Figure 14: Migration

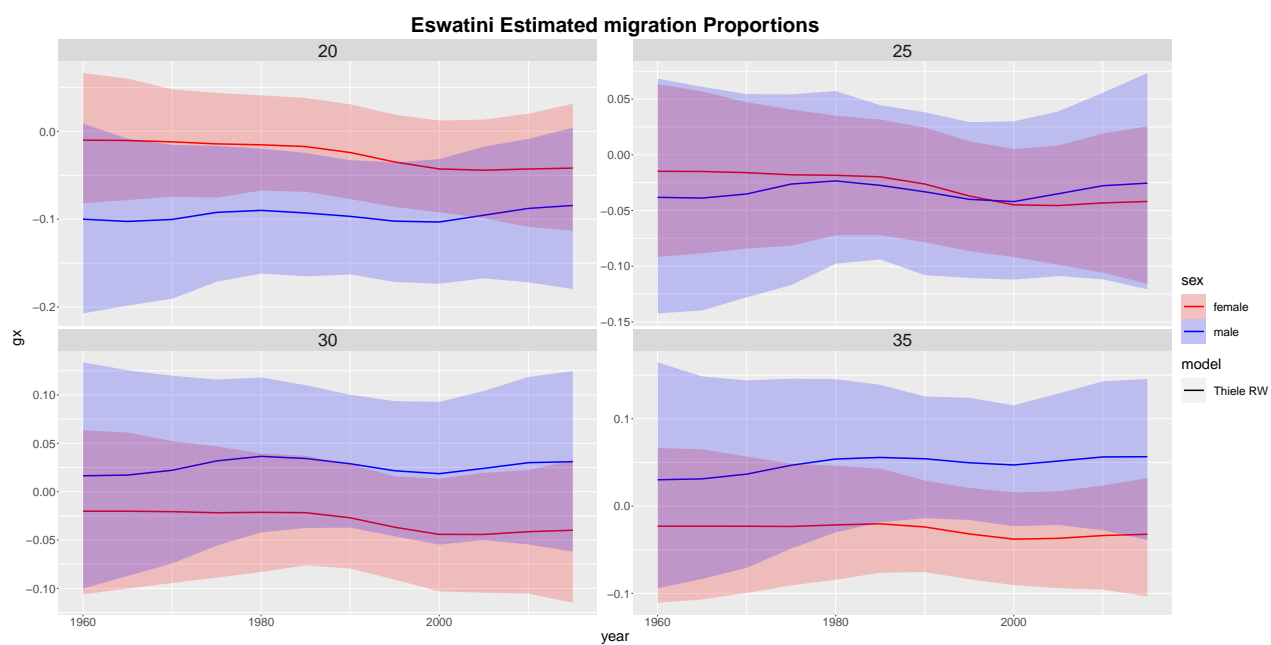


Figure 15: Migration

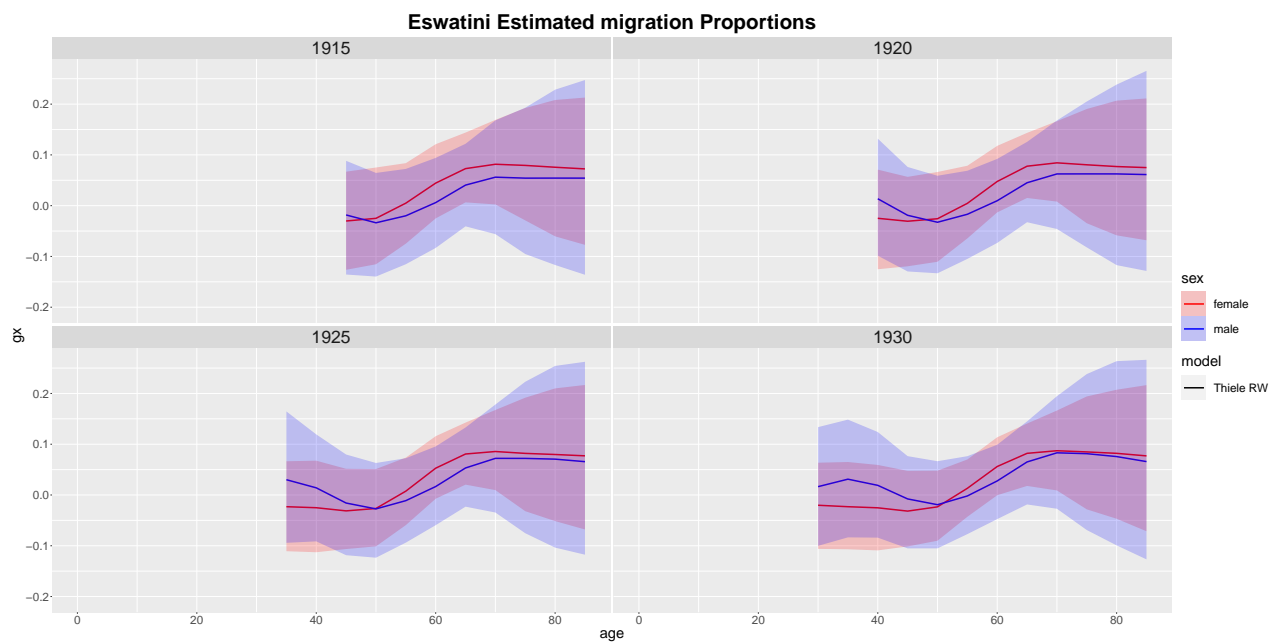


Figure 16: Migration

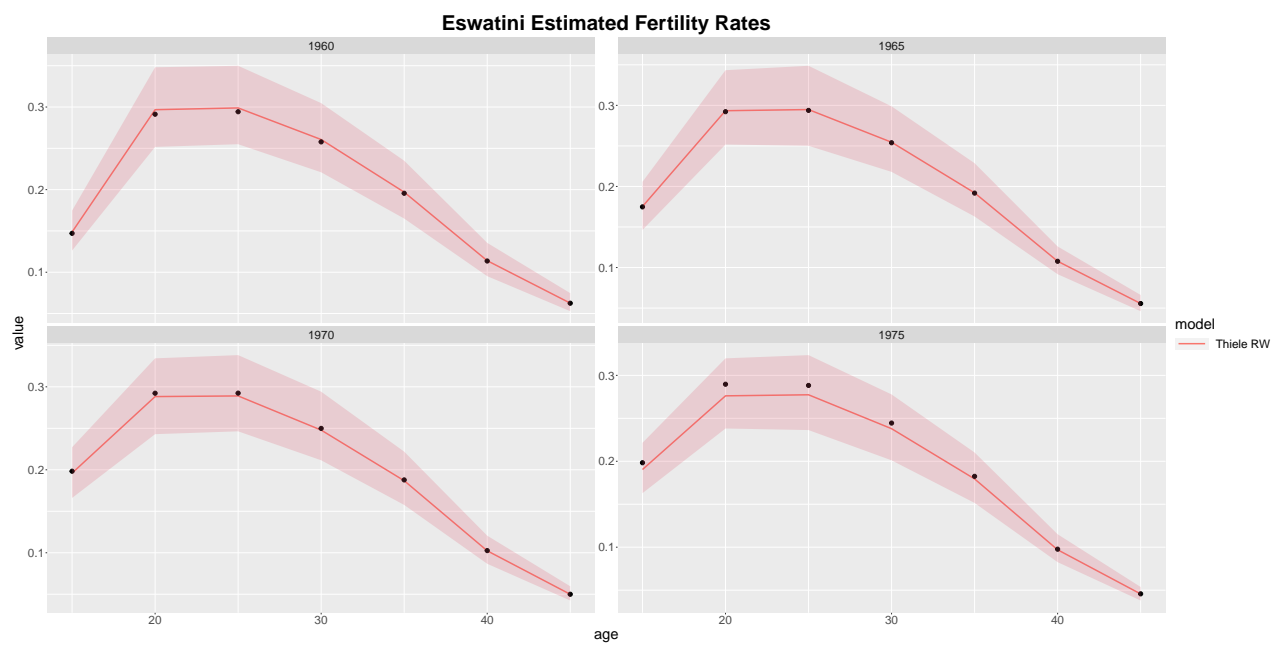


Figure 17: Fertility

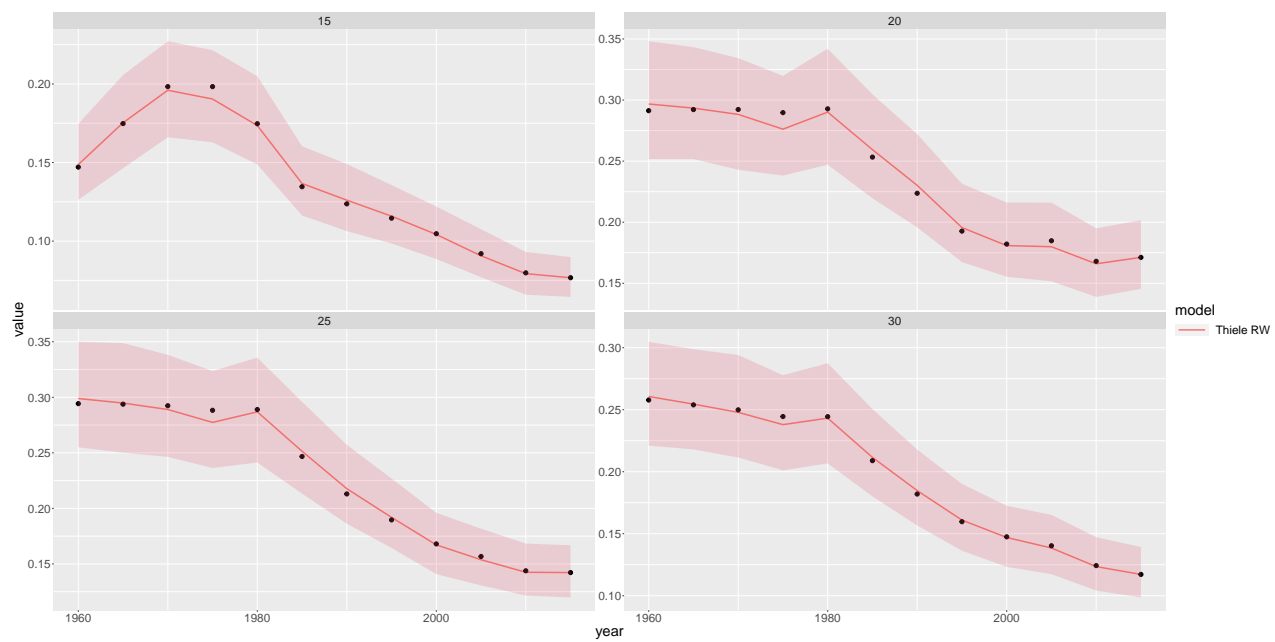


Figure 18: Fertility