

# Zimbabwe

## [1] "Census Females"

## # A tibble: 18 x 6

##	aggr.age	`1969`	`1982`	`1992`	`2002`	`2012`
##	*	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
## 1	0	1100.	666513.	798430.	841551.	994095.
## 2	5	1252.	606731.	800838.	786853.	888042.
## 3	10	1181.	518252.	734654.	766089.	816383.
## 4	15	935.	427787.	632121.	740696.	732628.
## 5	20	709.	356139.	515526.	652354.	658733.
## 6	25	541.	283765.	401947.	513851.	589595.
## 7	30	437.	216565.	323256.	377382.	486213.
## 8	35	379.	171958.	259608.	285606.	371333.
## 9	40	303.	140150.	196167.	235848.	269013.
## 10	45	227.	112995.	156462.	199664.	210869.
## 11	50	168.	88392.	131658.	163218.	193389.
## 12	55	124.	69556.	101596.	124937.	166578.
## 13	60	95.4	57646.	76774.	95198.	129163.
## 14	65	67.1	43446.	62335.	74711.	98600.
## 15	70	35.5	30553.	62691.	57053.	73611.
## 16	75	17.0	46842.	68635.	41096.	53541.
## 17	80	9.26	NA	NA	27715.	37440.
## 18	85	13.4	NA	NA	29432.	44517.

## [1] "Census Males"

## # A tibble: 18 x 6

##	aggr.age	`1969`	`1982`	`1992`	`2002`	`2012`
##	*	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
## 1	0	1156.	644716.	791447.	840935.	988570.
## 2	5	1278.	600942.	791611.	783064.	883312.
## 3	10	1207.	516716.	723986.	755159.	812432.
## 4	15	931.	400975.	607706.	700391.	699246.
## 5	20	636.	304239.	472762.	586689.	577653.
## 6	25	459.	241174.	355698.	472073.	507682.
## 7	30	389.	190946.	282187.	363579.	443238.
## 8	35	341.	156158.	228982.	259868.	359967.
## 9	40	280.	137423.	181401.	198311.	265699.
## 10	45	229.	121965.	150071.	163962.	182884.
## 11	50	186.	102082.	127067.	130424.	140339.
## 12	55	142.	81032.	104878.	105187.	119597.
## 13	60	97.1	65118.	84499.	88204.	97041.
## 14	65	60.0	46169.	64250.	71083.	76432.
## 15	70	32.4	29874.	58462.	53914.	59566.
## 16	75	15.2	39495.	52190.	36893.	43527.
## 17	80	8.24	NA	NA	22891.	28936.
## 18	85	7.21	NA	NA	19019.	28690.

*Thiele log-Normal Hump RW*

##	user	system	elapsed
##	36.69	1.00	37.96

```
## [1] "relative convergence (4)"  
Thiele log-Normal Hump RW (Pop 5-9 to 70-74, DHS 15-19 to 45-49)  
##      user  system elapsed  
##  32.35    0.69   33.23  
## [1] "relative convergence (4)"
```

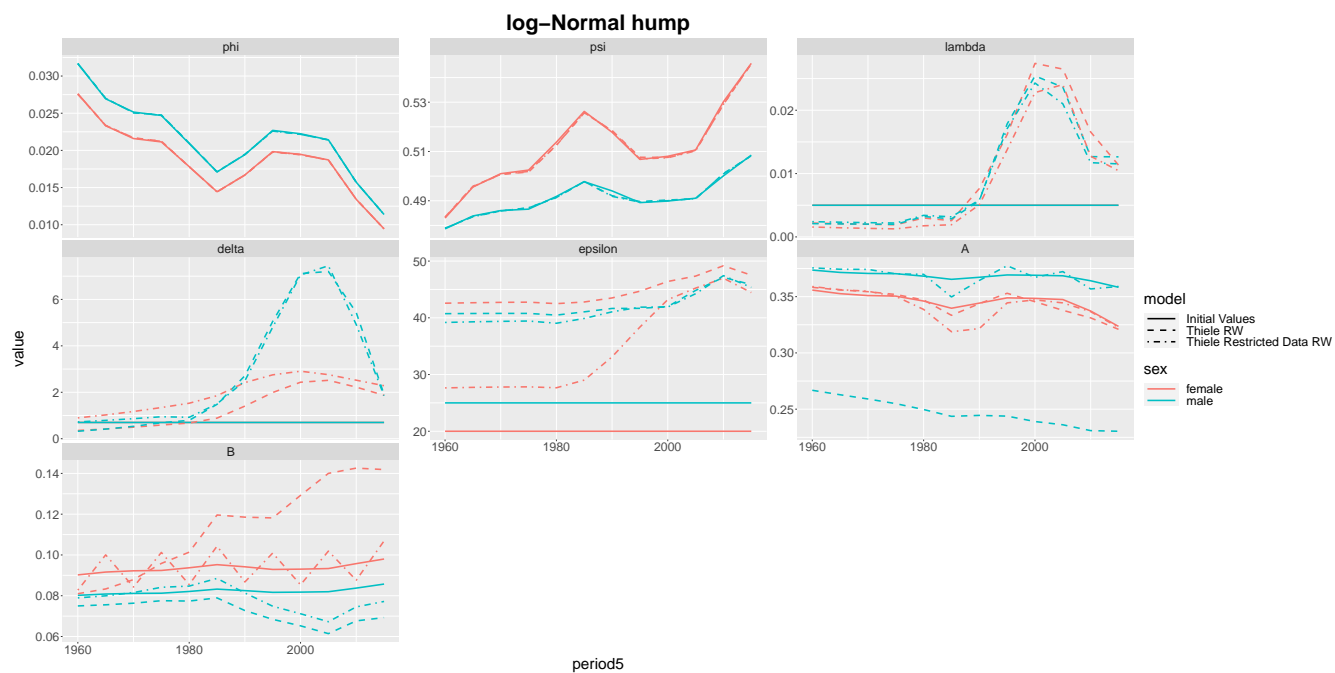


Figure 1: Estimated parameters

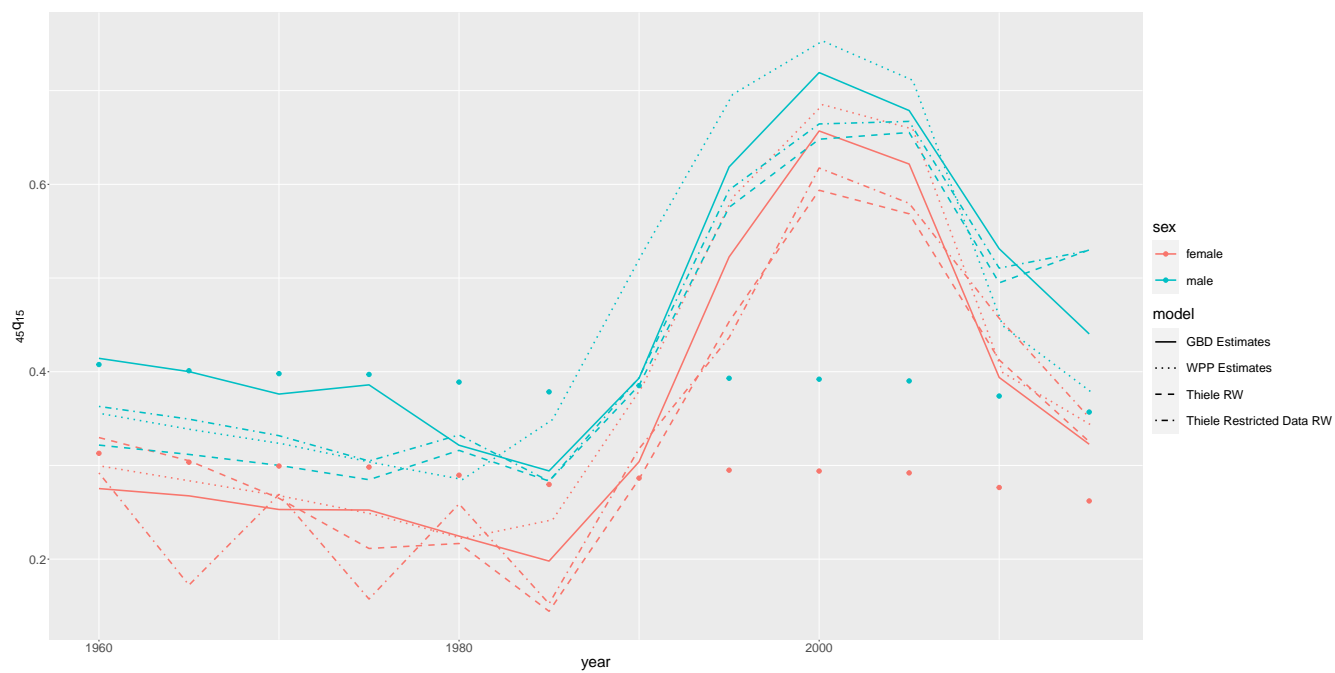


Figure 2: Estimated  $45q_{15}$

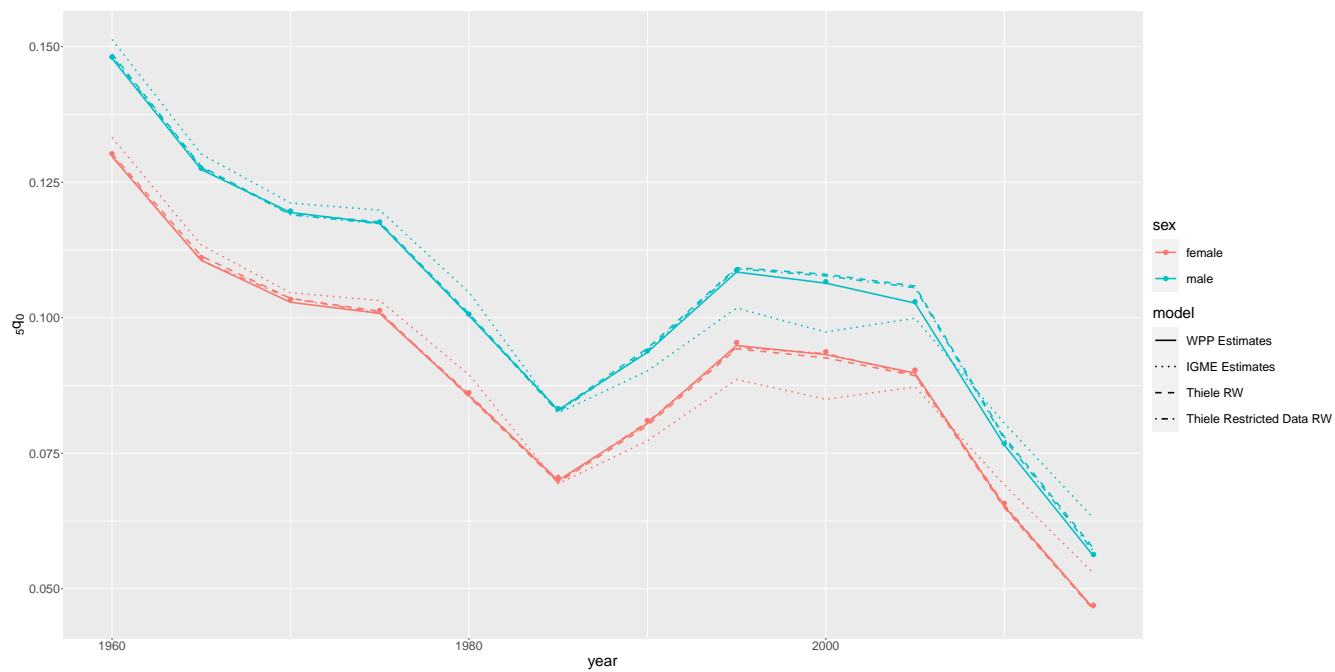


Figure 3: Estimated  $5q_0$

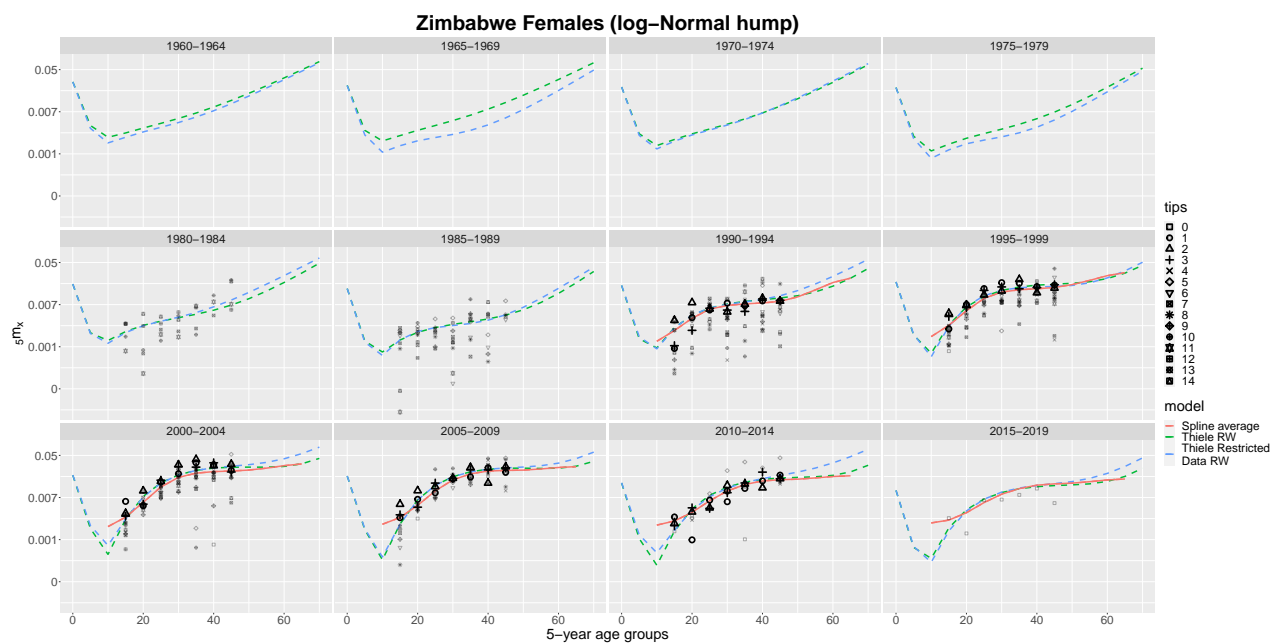


Figure 4: Mortality Schedules

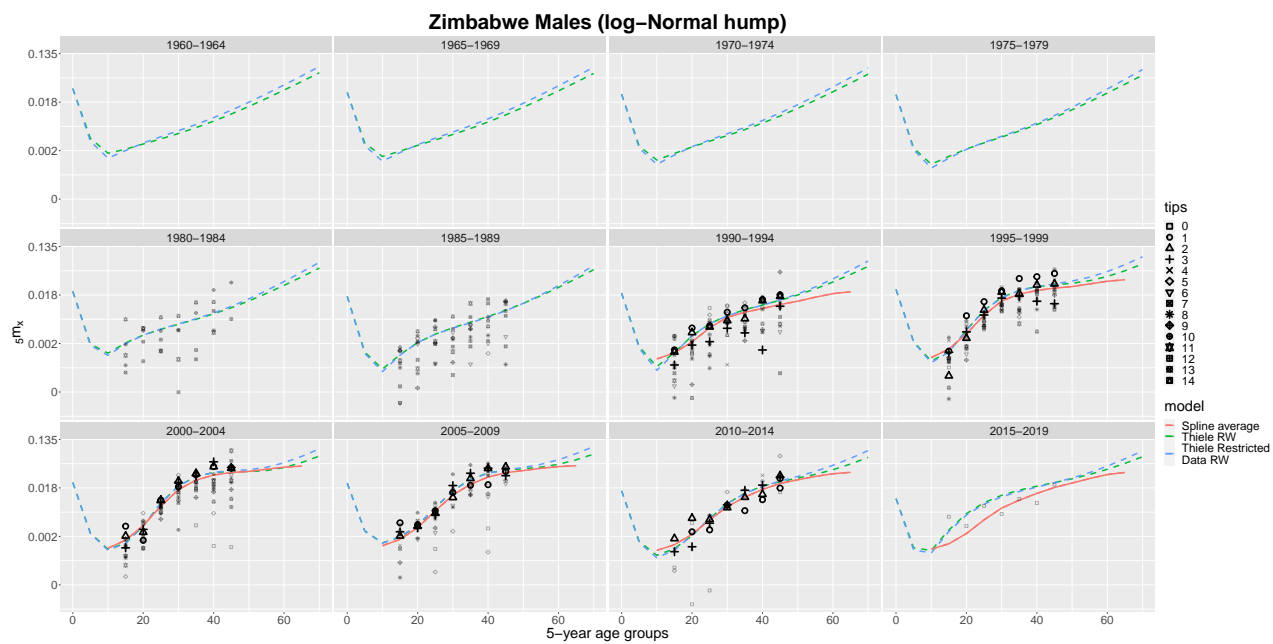


Figure 5: Mortality Schedules

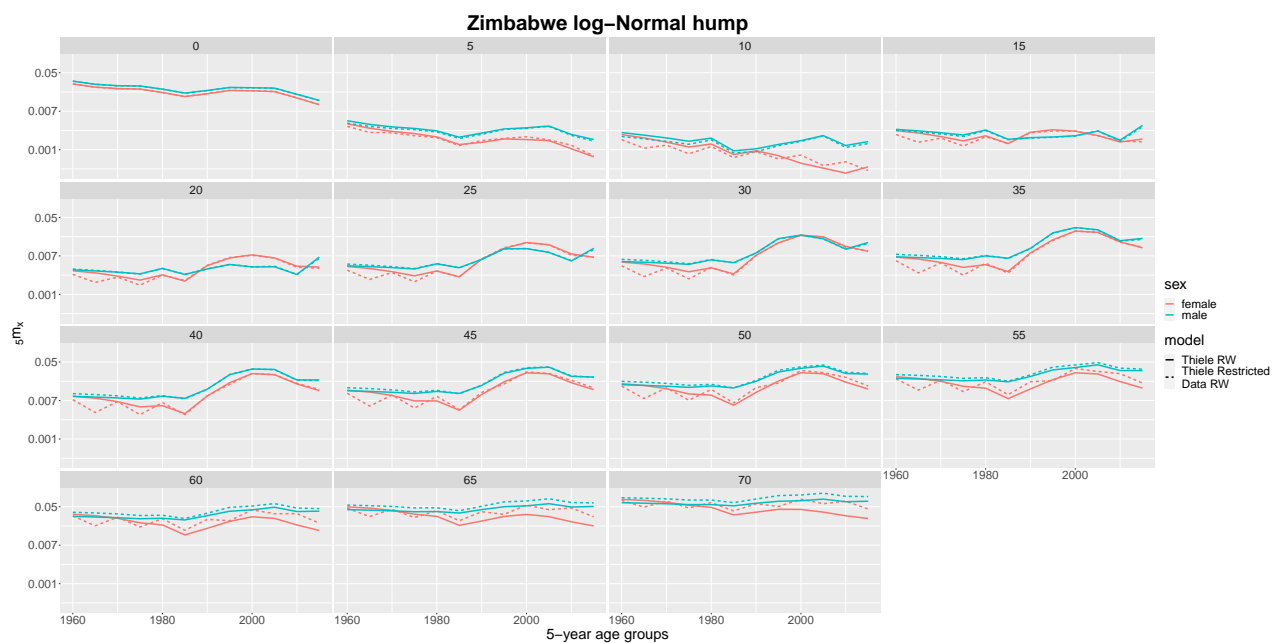


Figure 6: Mortality Schedules

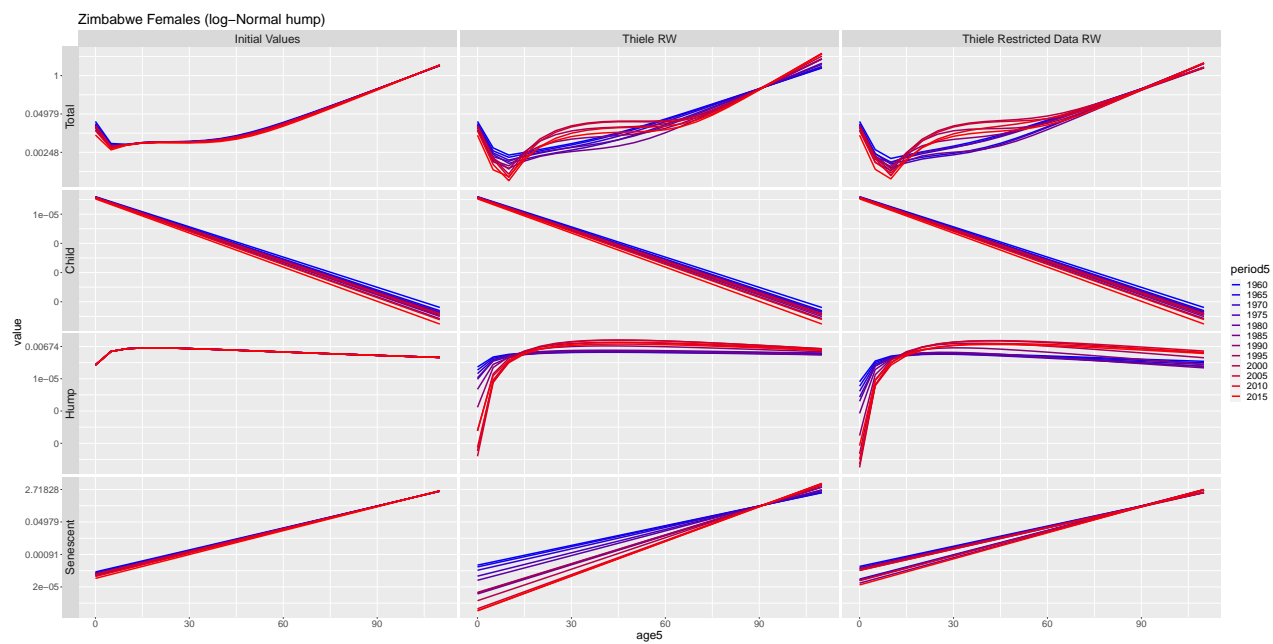


Figure 7: Thiele Decomposed

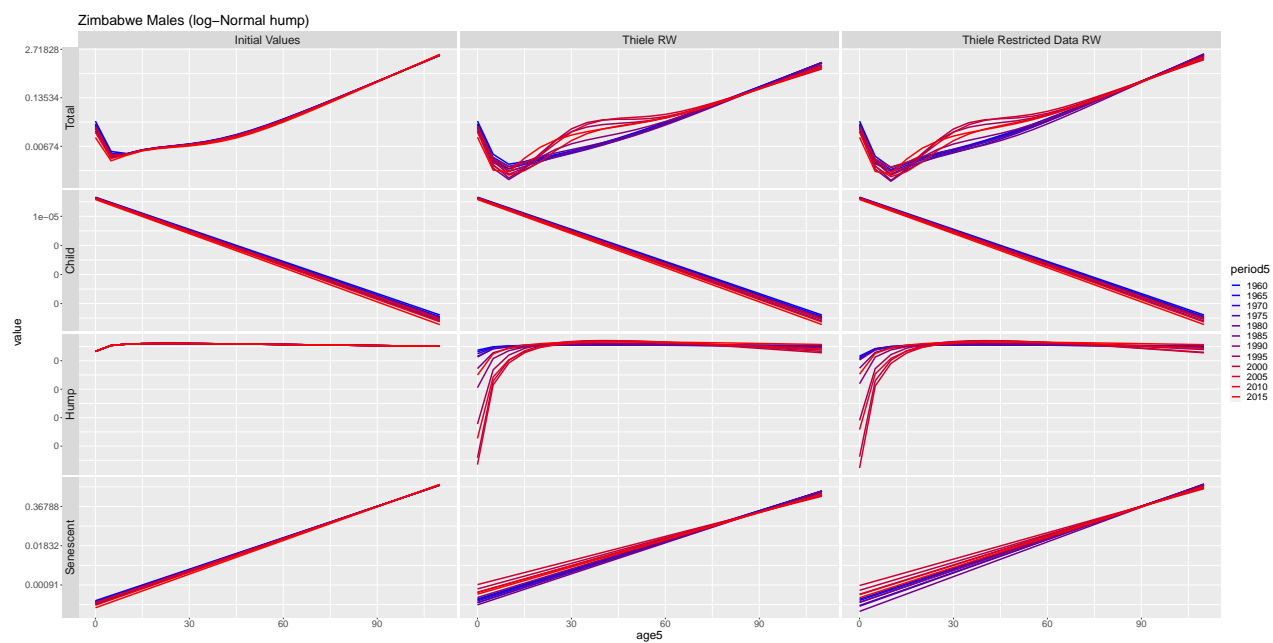


Figure 8: Thiele Decomposed

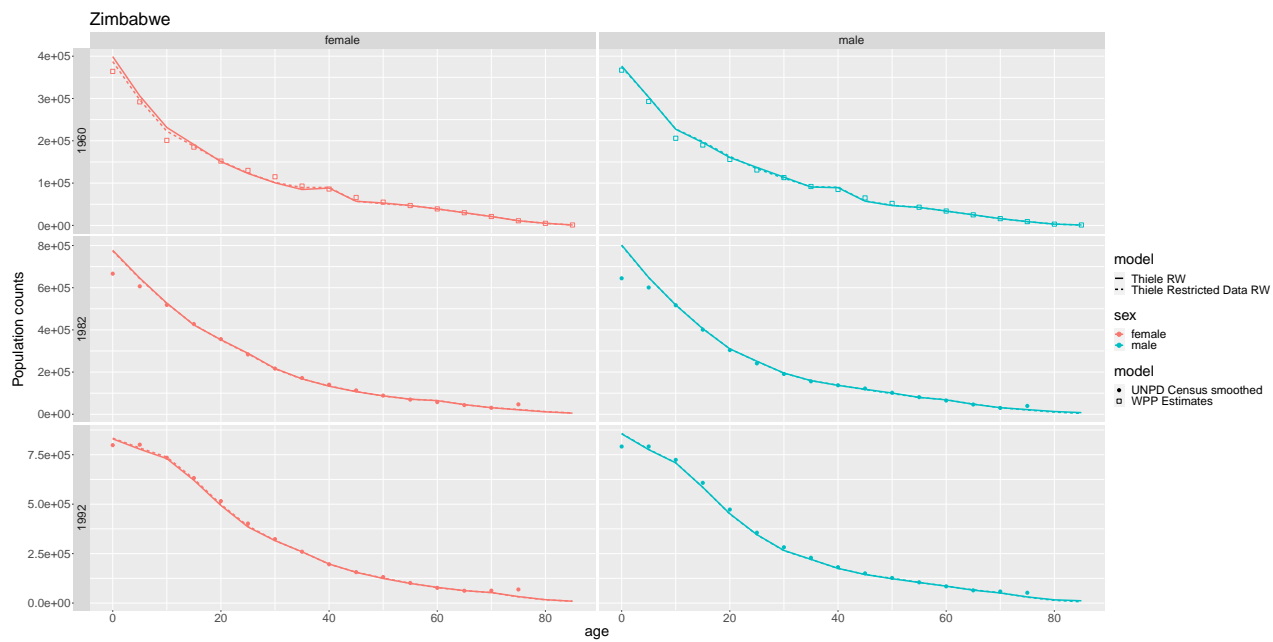


Figure 9: Population

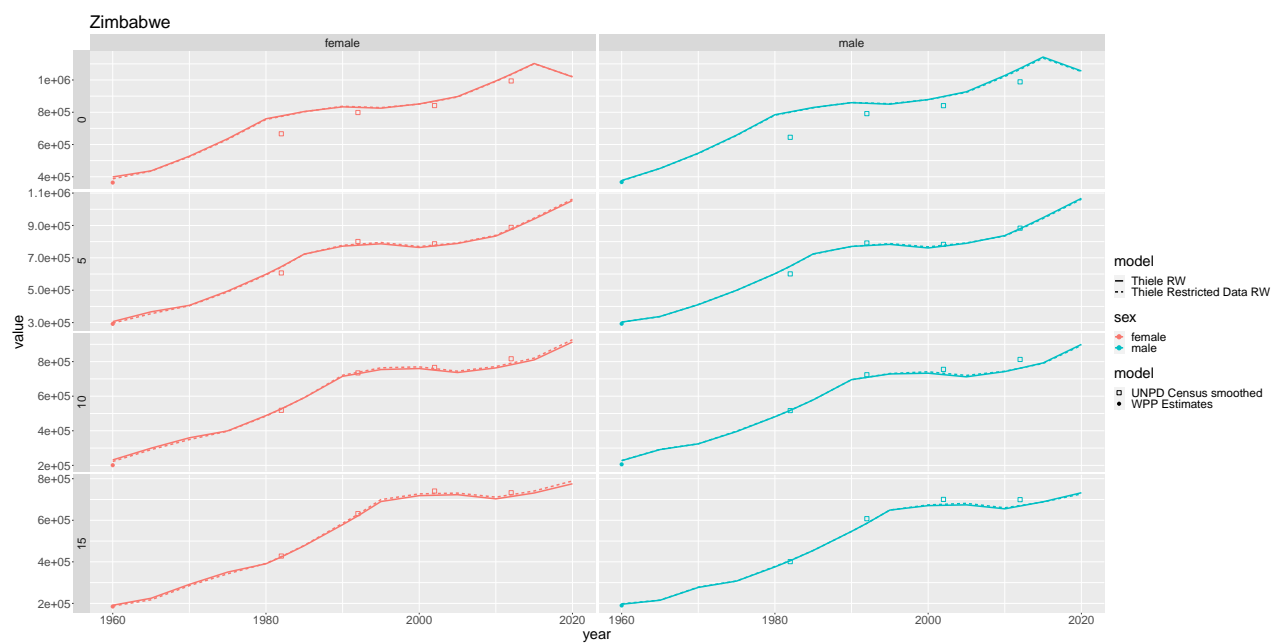


Figure 10: Population

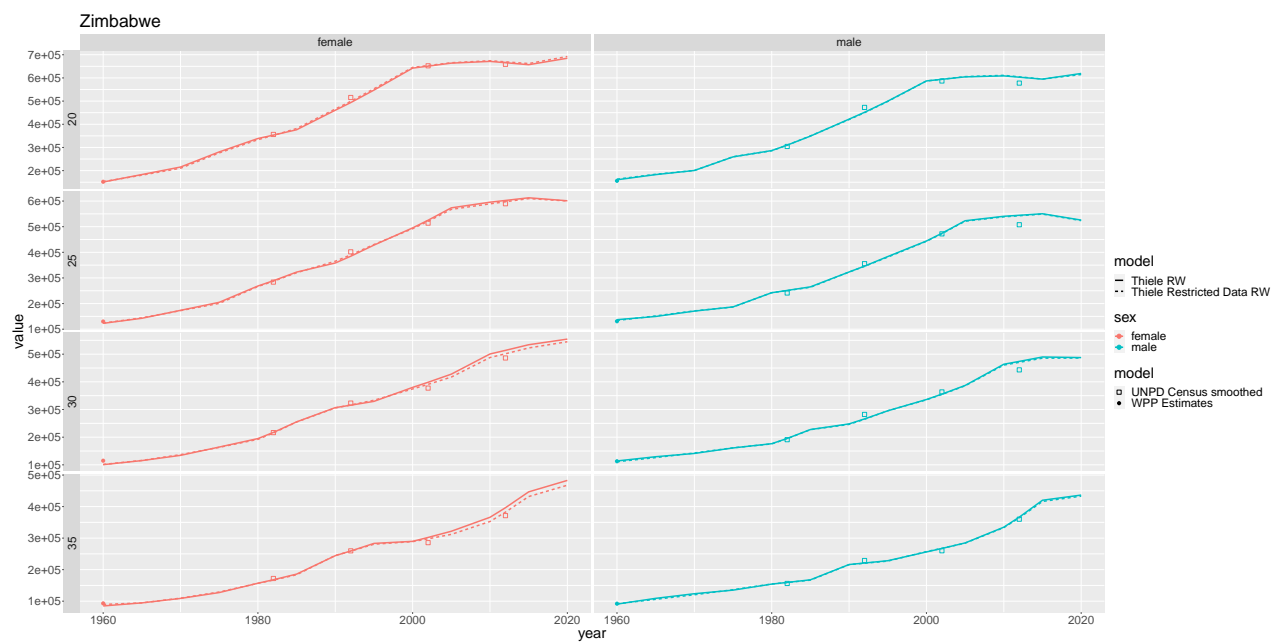


Figure 11: Population



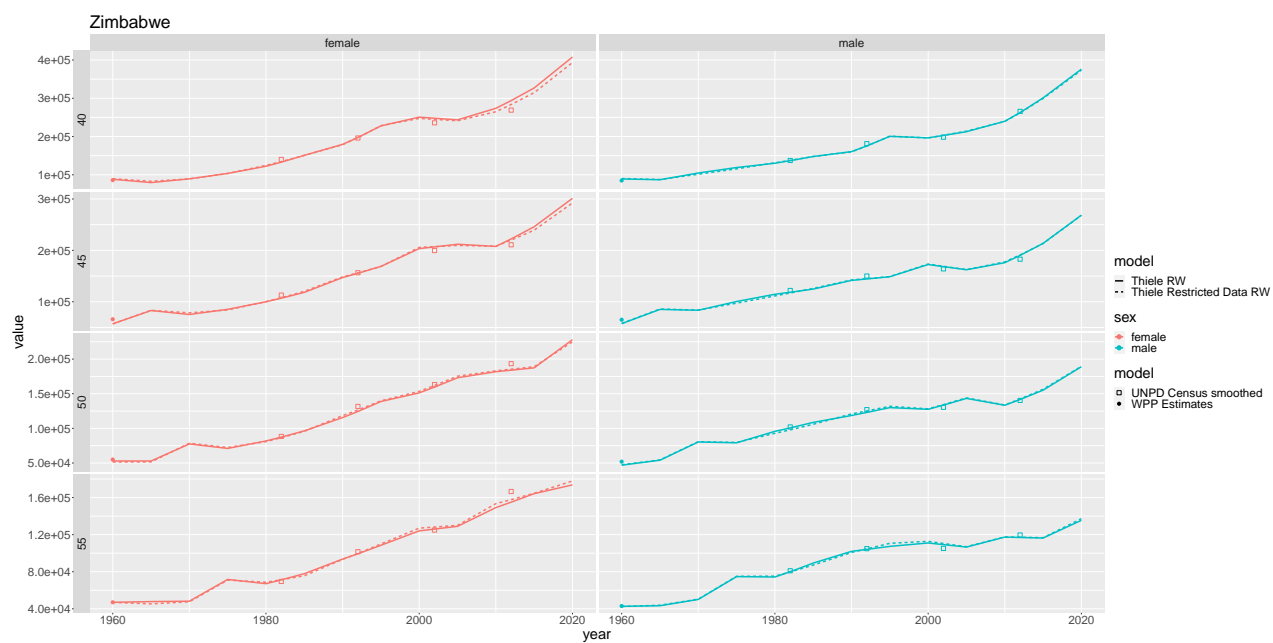


Figure 12: Population

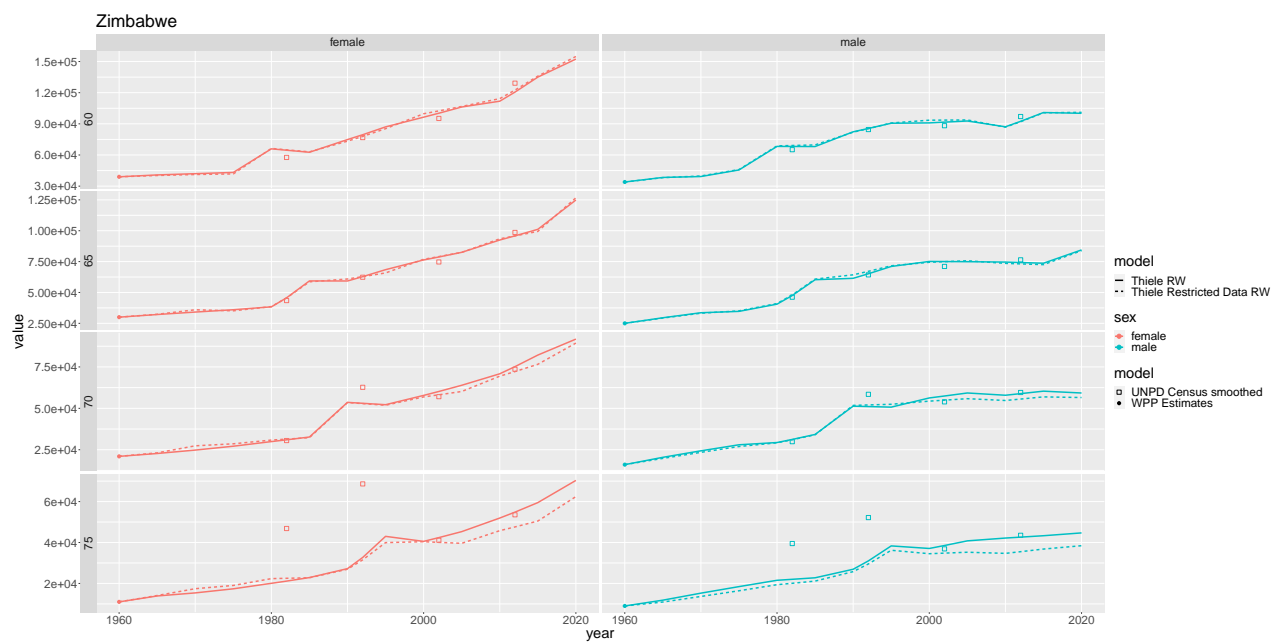


Figure 13: Population

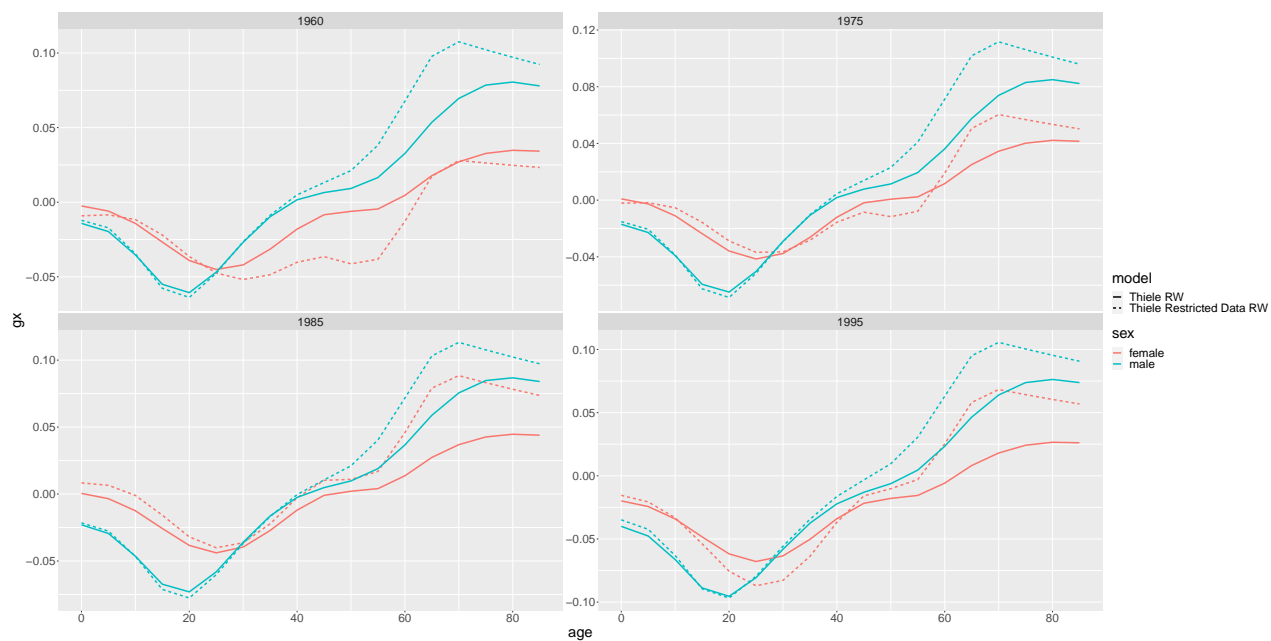


Figure 14: Migration



Figure 15: Migration

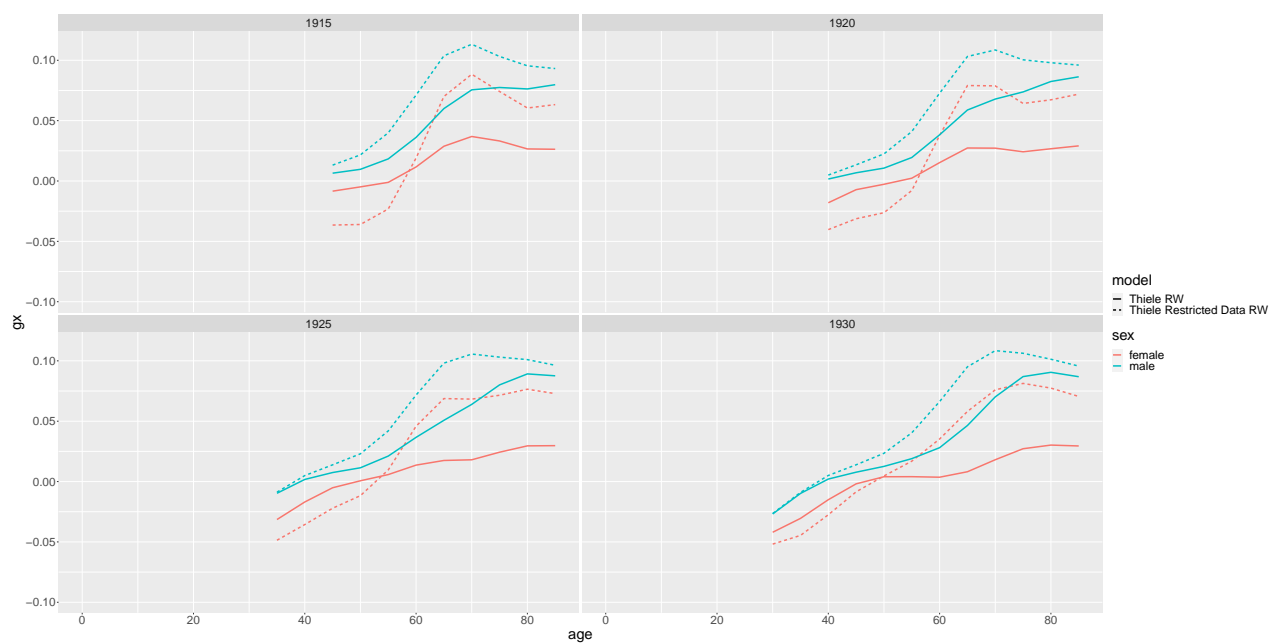


Figure 16: Migration

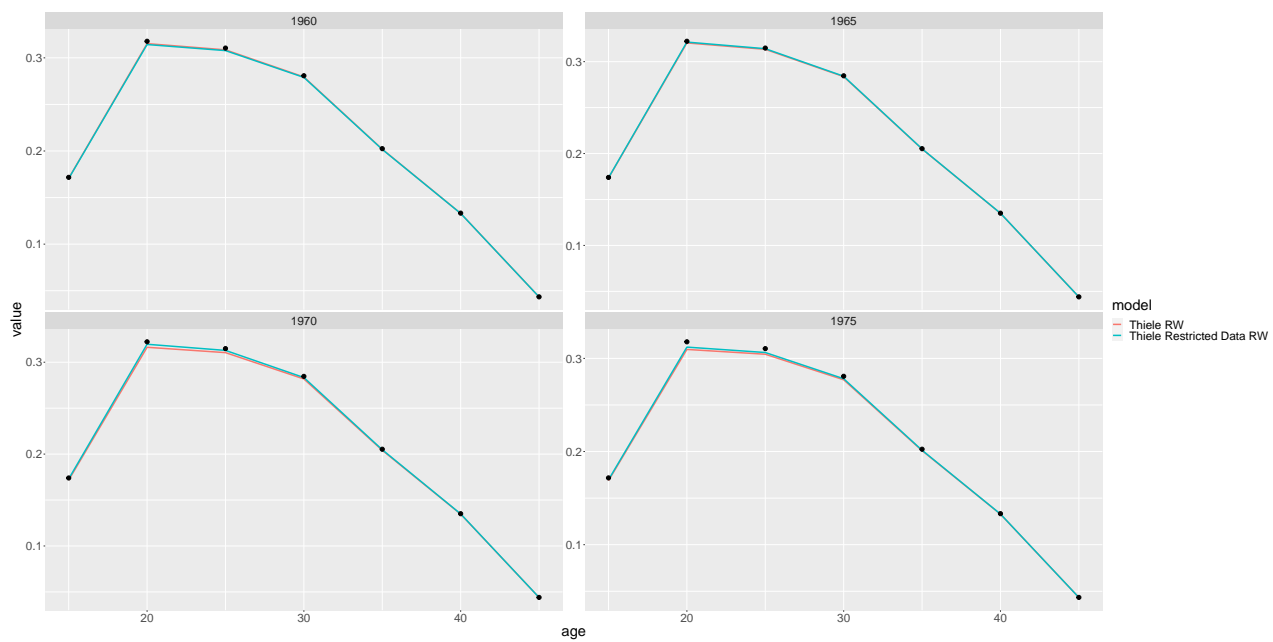


Figure 17: Fertility

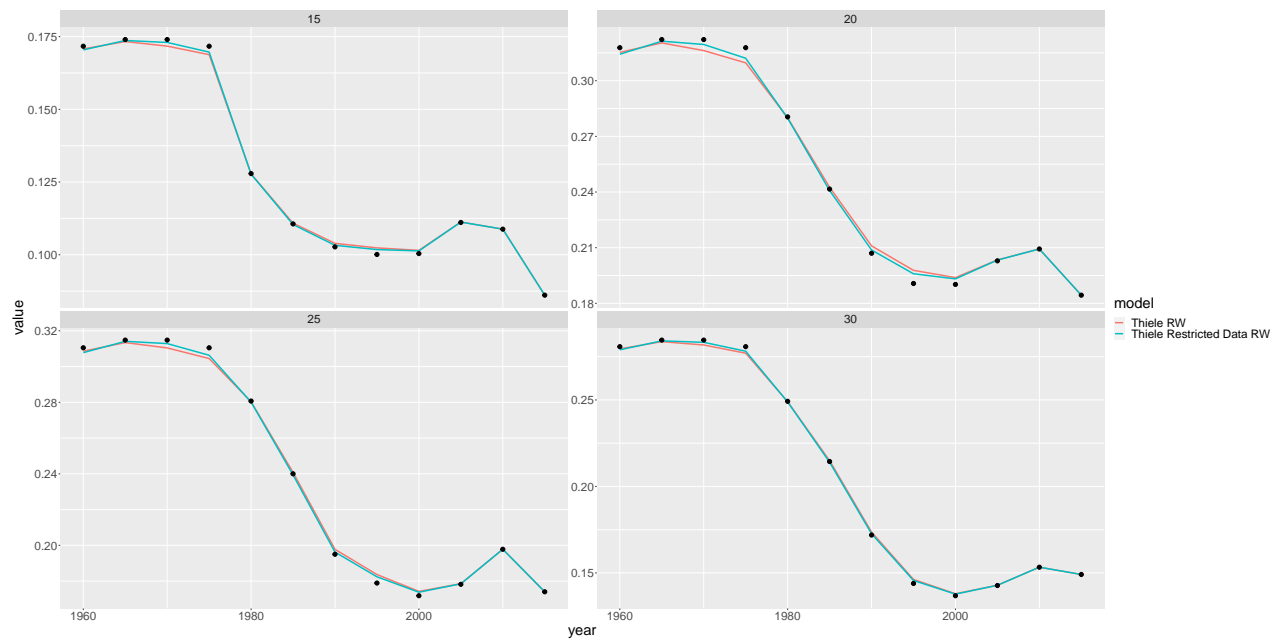


Figure 18: Fertility