

# Burkina Faso

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

## # A tibble: 87 x 4
##   age `1985` `1996` `2006`
##   <dbl> <dbl> <dbl> <dbl>
## 1 0 168022. 172870 232734.
## 2 1 123865. 158974. 223944.
## 3 2 142053. 174410. 242692.
## 4 3 146137. 179321. 242280.
## 5 4 146472. 179999. 241620.
## 6 5 142058. 176036. 234739.
## 7 6 138903. 174501. 231391.
## 8 7 135512. 170871. 224614.
## 9 8 128769. 165383. 214903.
## 10 9 121117. 158882. 204727.
## # ... with 77 more rows
```

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

## # A tibble: 87 x 4
##   age `1985` `1996` `2006`
##   <dbl> <dbl> <dbl> <dbl>
## 1 0 167871. 173583 236268.
## 2 1 125161. 161235 229350.
## 3 2 143298. 177204. 248241.
## 4 3 146815. 181996. 247670.
## 5 4 147623. 183609. 247476.
## 6 5 143846. 180348. 241283.
## 7 6 141411. 179723. 238862.
## 8 7 138594. 176772. 232746.
## 9 8 132278. 171637. 223407.
## 10 9 125060. 165350. 213548.
## # ... with 77 more rows
```

## Thiele log-Normal Hump Spline

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

##	log_tau2_logpop_f	log_tau2_logpop_f	log_tau2_logpop_m	log_tau2_logpop_m
##	6.4569927	5.0459838	6.5037274	5.0459838
##	log_tau2_gx_m	log_lambda_gx_age_f	log_lambda_gx_age_m	log_lambda_gx_age_m
##	3.1162783	7.6169417	6.3153462	8.1162783
##	log_lambda_gx_agemtime_m	log_lambda_tp	log_lambda_tp_0_inflated_sd	log_lambda_tp_0_inflated_sd
##	6.9077536	1.7253467	-0.6244466	0.7253467
##	log_marginal_prec_psi_f	log_marginal_prec_A_f	log_marginal_prec_B_f	log_marginal_prec_B_f
##	4.3397035	6.8078015	7.0611257	4.3397035
##	log_marginal_prec_B_m	log_lambda_phi_f	log_lambda_psi_f	log_lambda_psi_f
##	6.3289090	4.4449752	4.3699887	4.4449752
##	log_lambda_A_f	log_lambda_B_f	log_lambda_phi_m	log_lambda_phi_m
##	4.3067494	4.3220245	4.4885299	4.3067494
##	log_lambda_epsilon_m	log_lambda_A_m	log_lambda_B_m	log_lambda_B_m
##	4.3467565	4.3049180	4.2751712	4.3049180

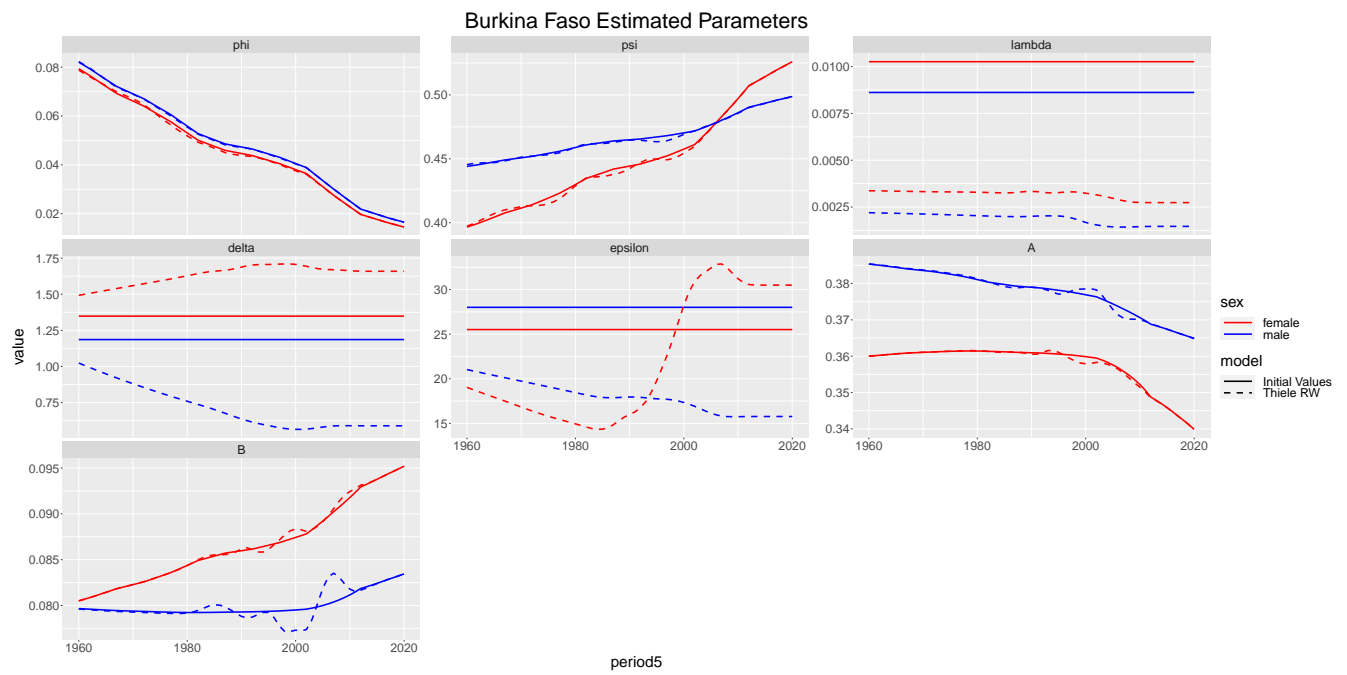


Figure 1: Estimated parameters

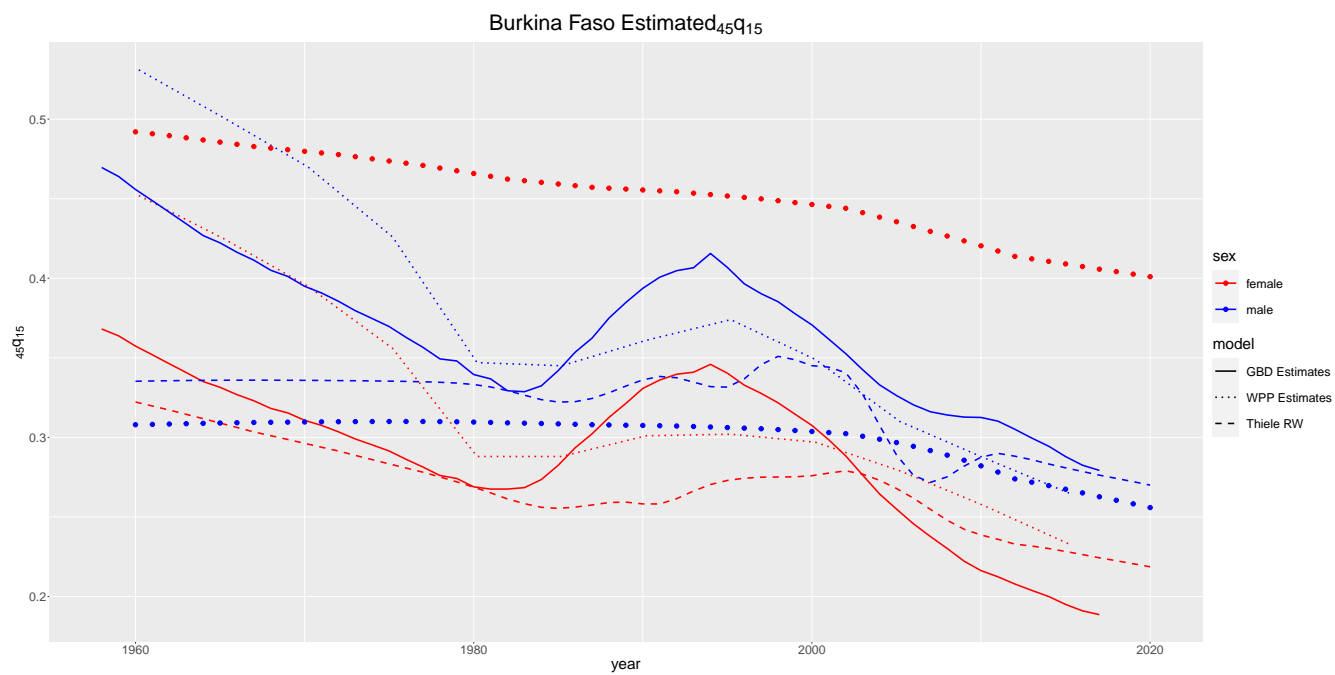


Figure 2: Estimated  ${}_{45}q_{15}$

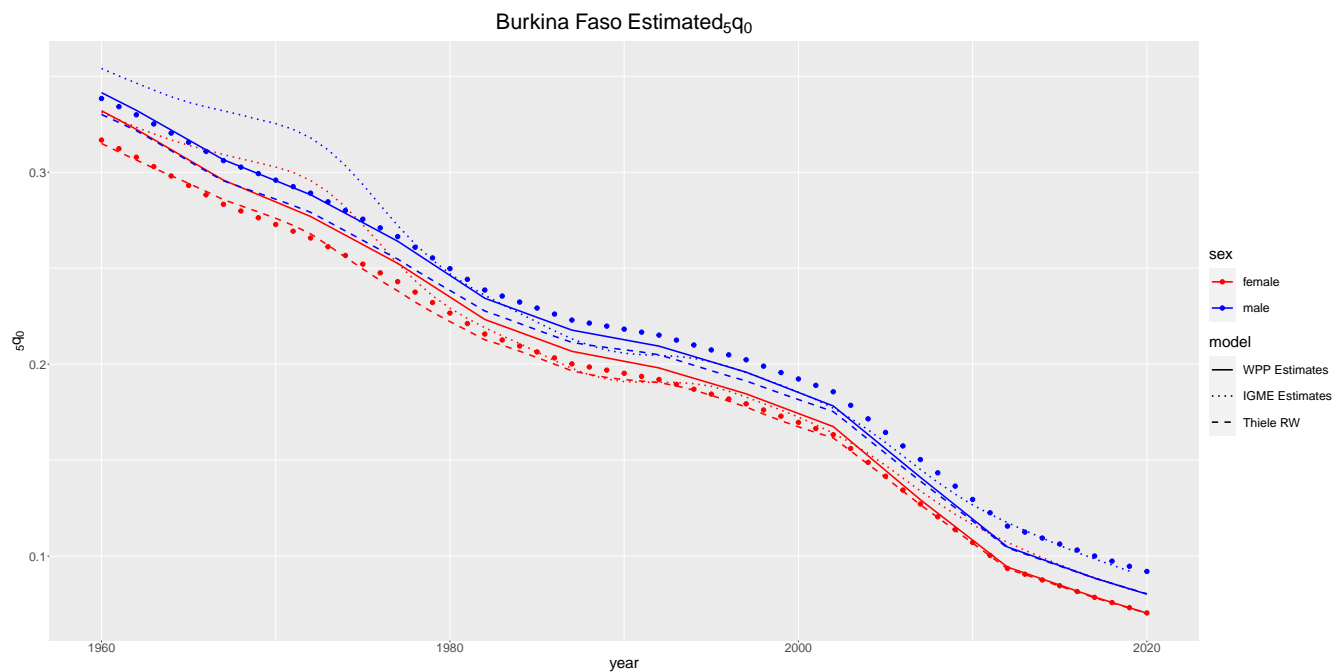


Figure 3: Estimated  ${}_5q_0$

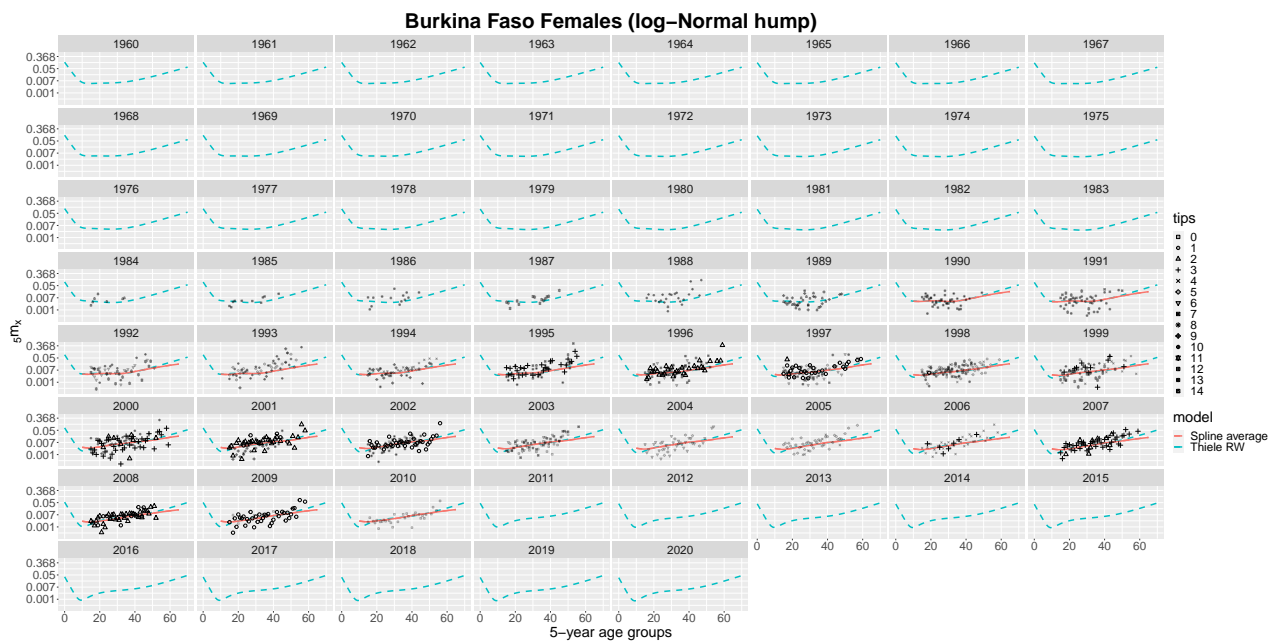


Figure 4: Mortality Schedules

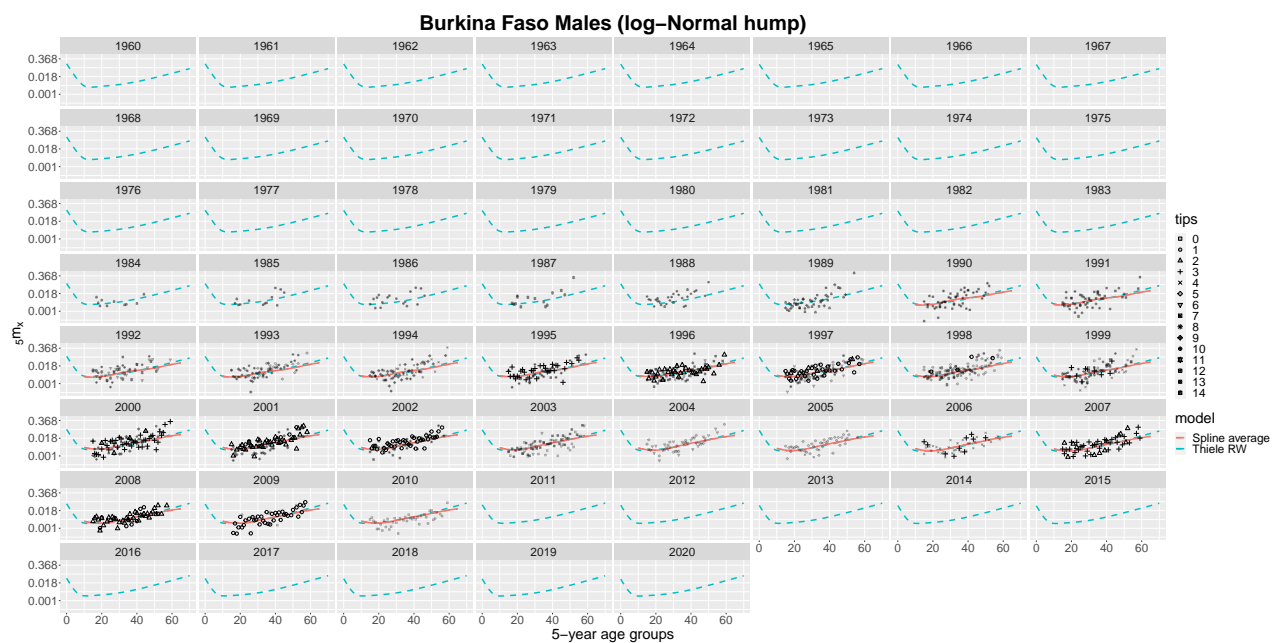


Figure 5: Mortality Schedules

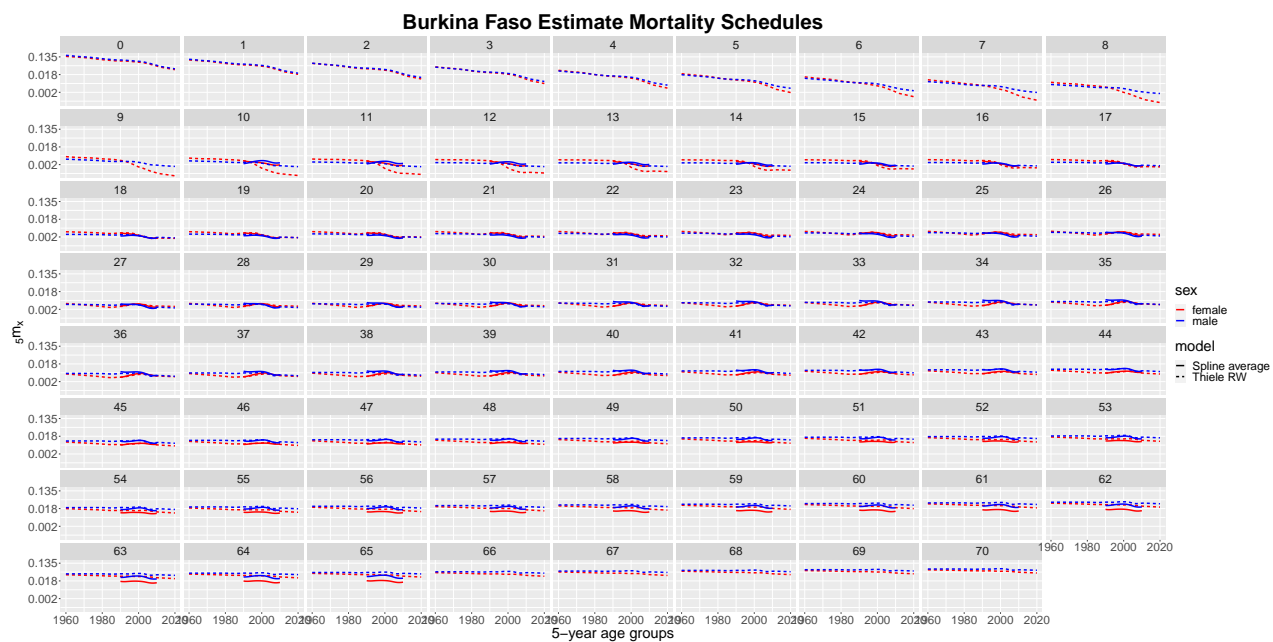


Figure 6: Mortality Schedules

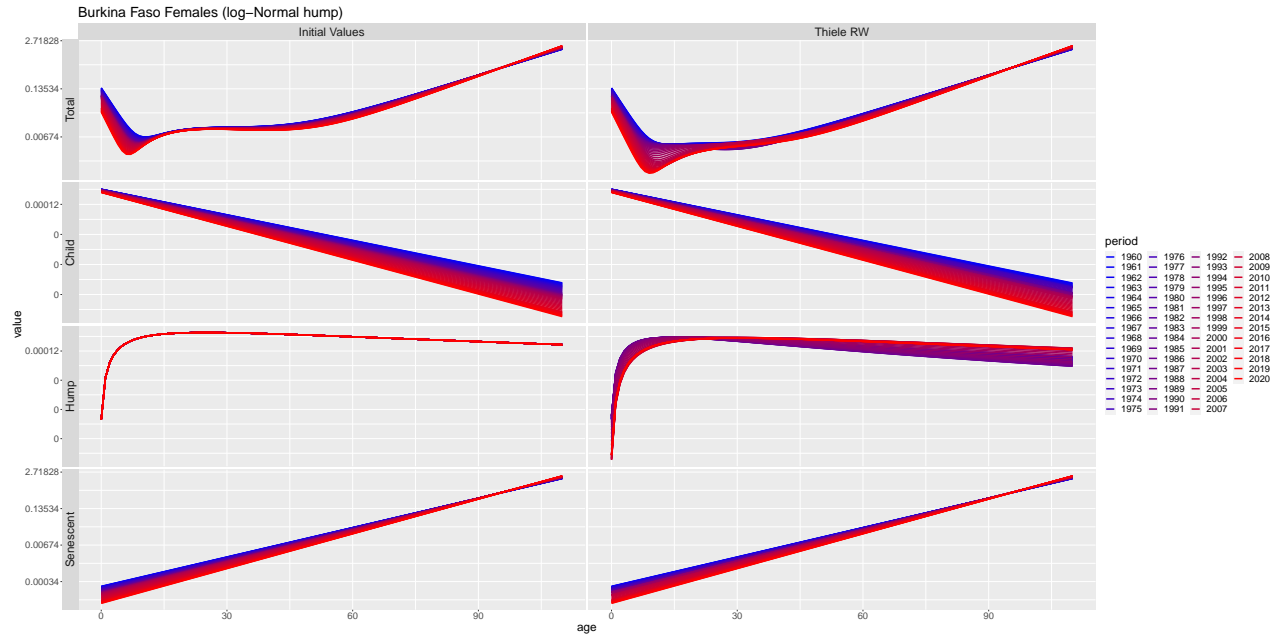


Figure 7: Thiele Decomposed

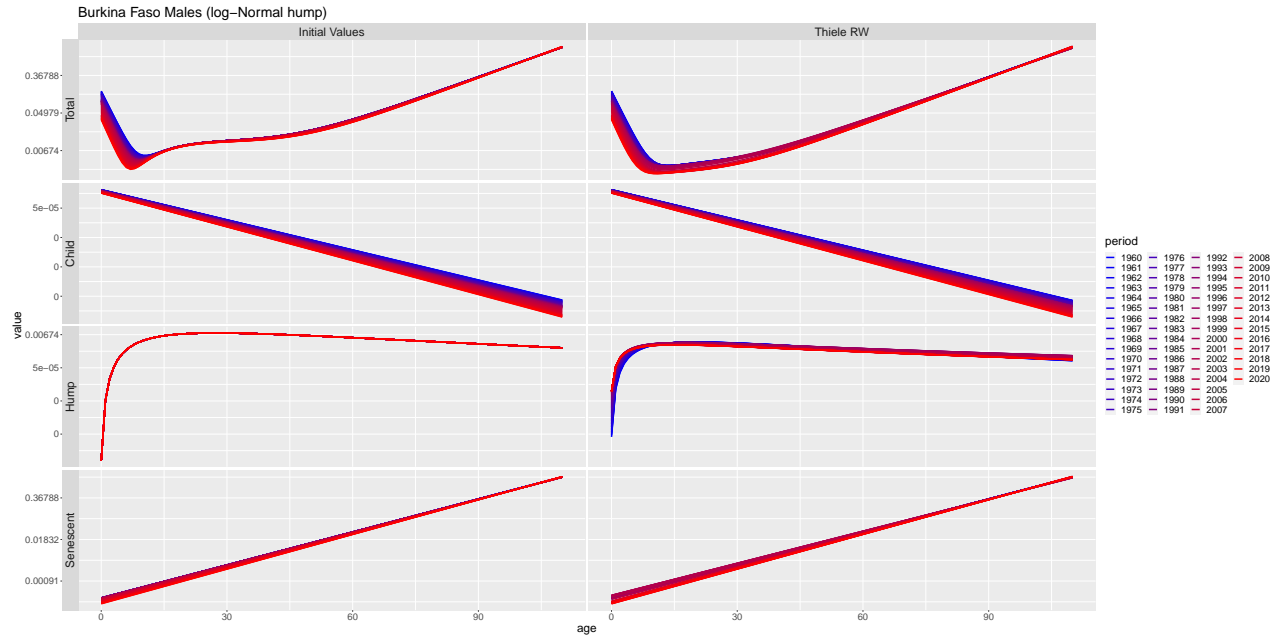


Figure 8: Thiele Decomposed

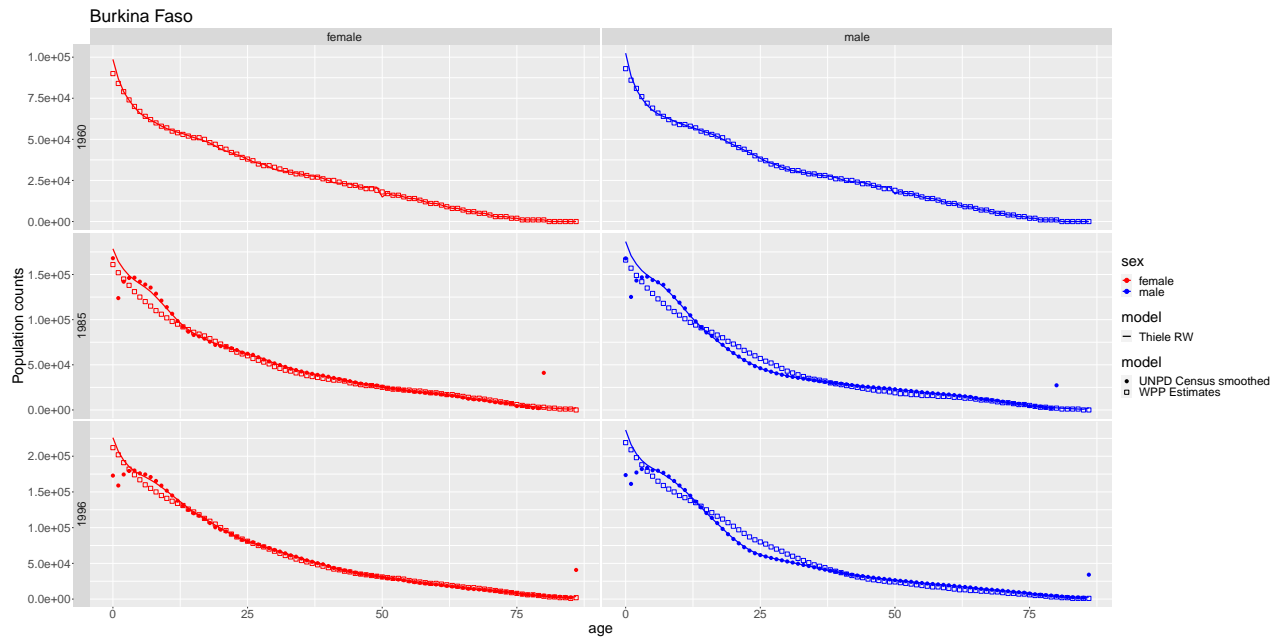


Figure 9: Population

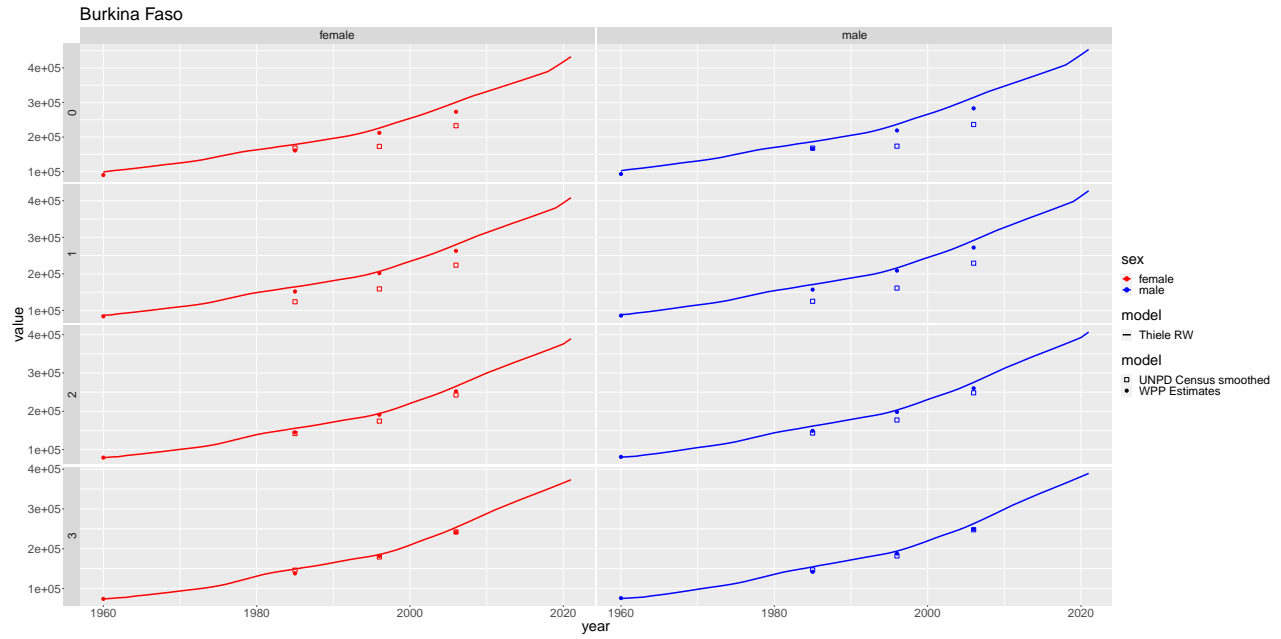


Figure 10: Population

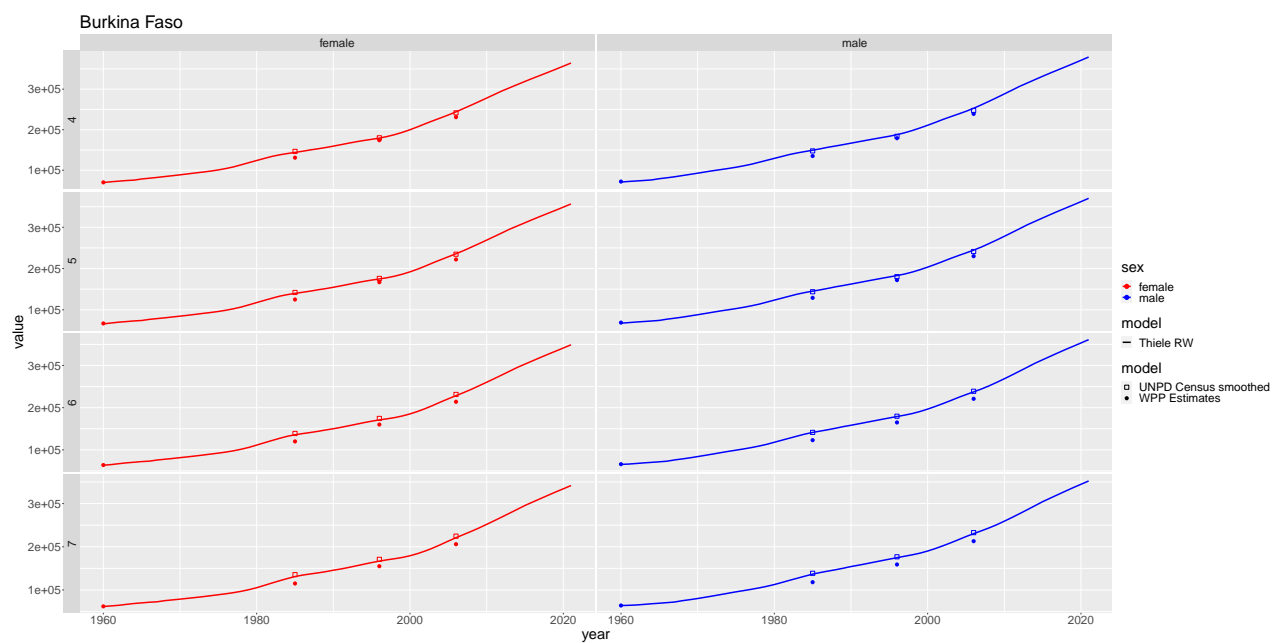


Figure 11: Population

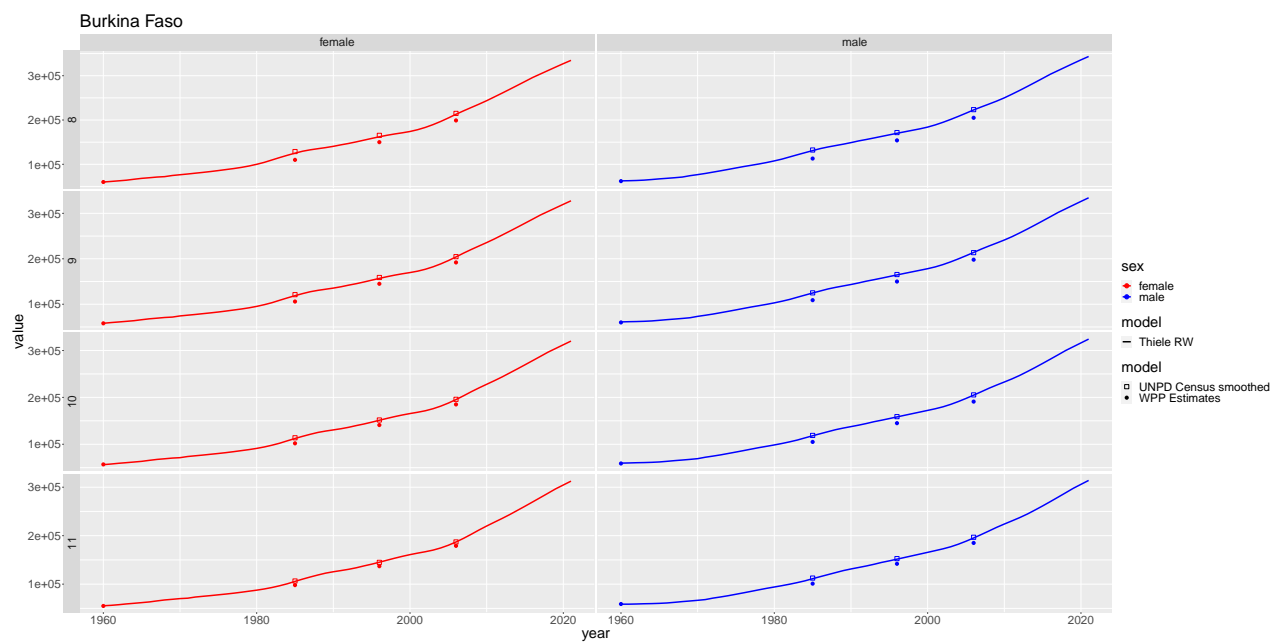


Figure 12: Population



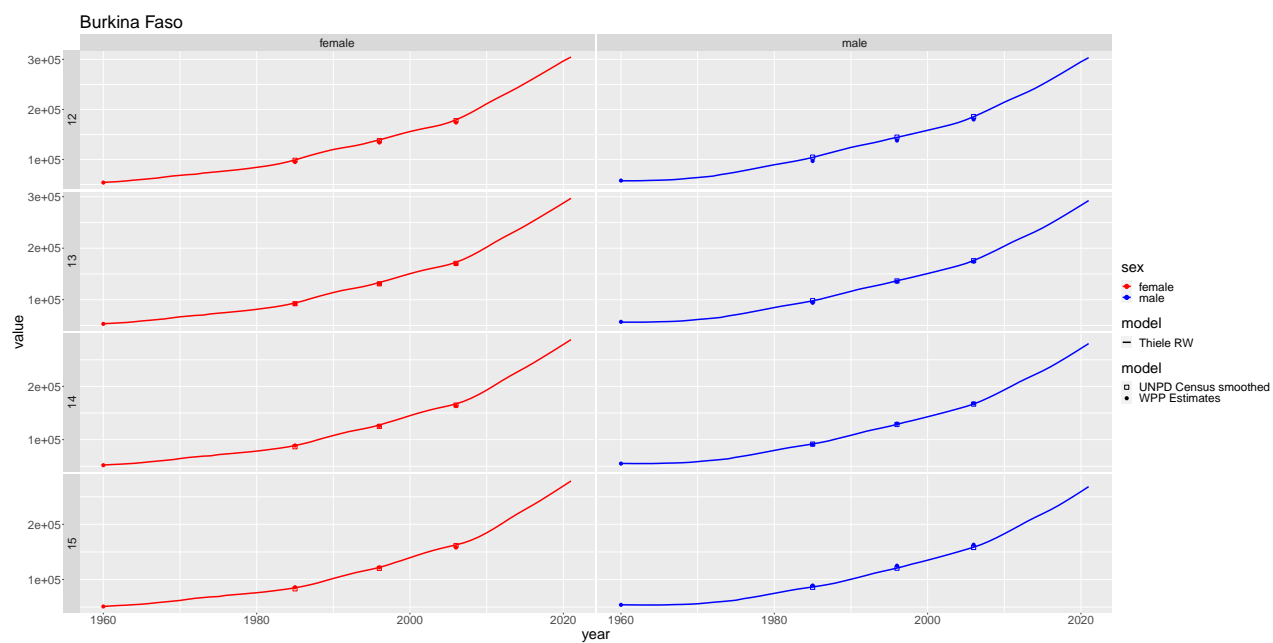


Figure 13: Population

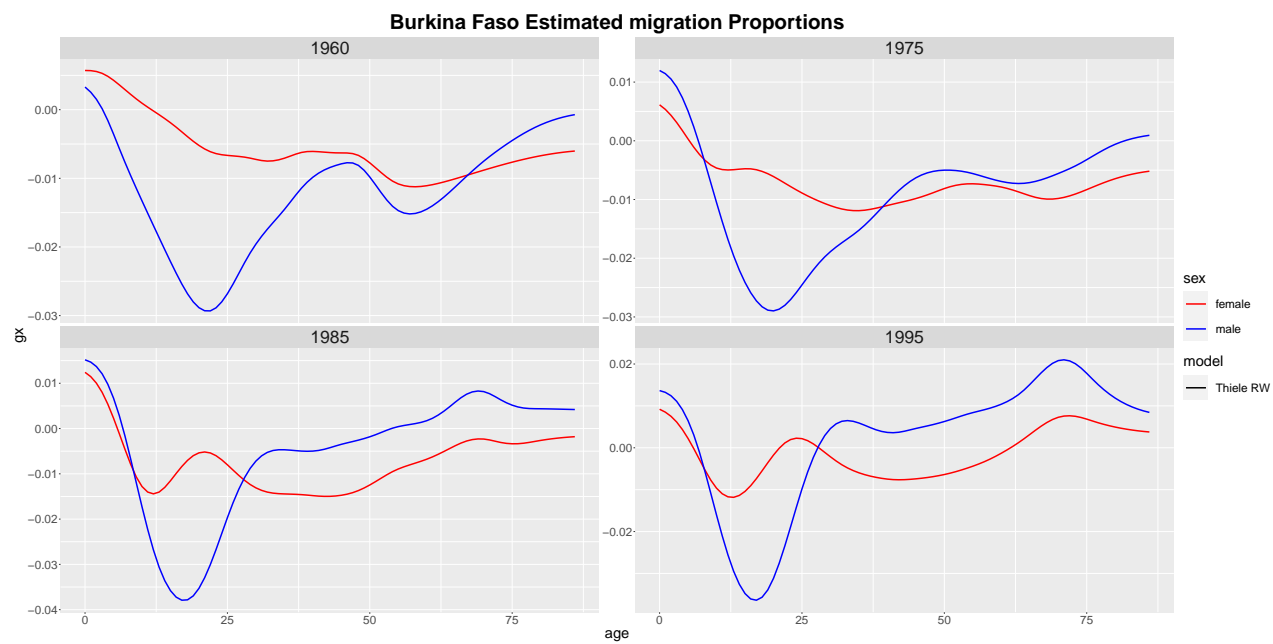


Figure 14: Migration

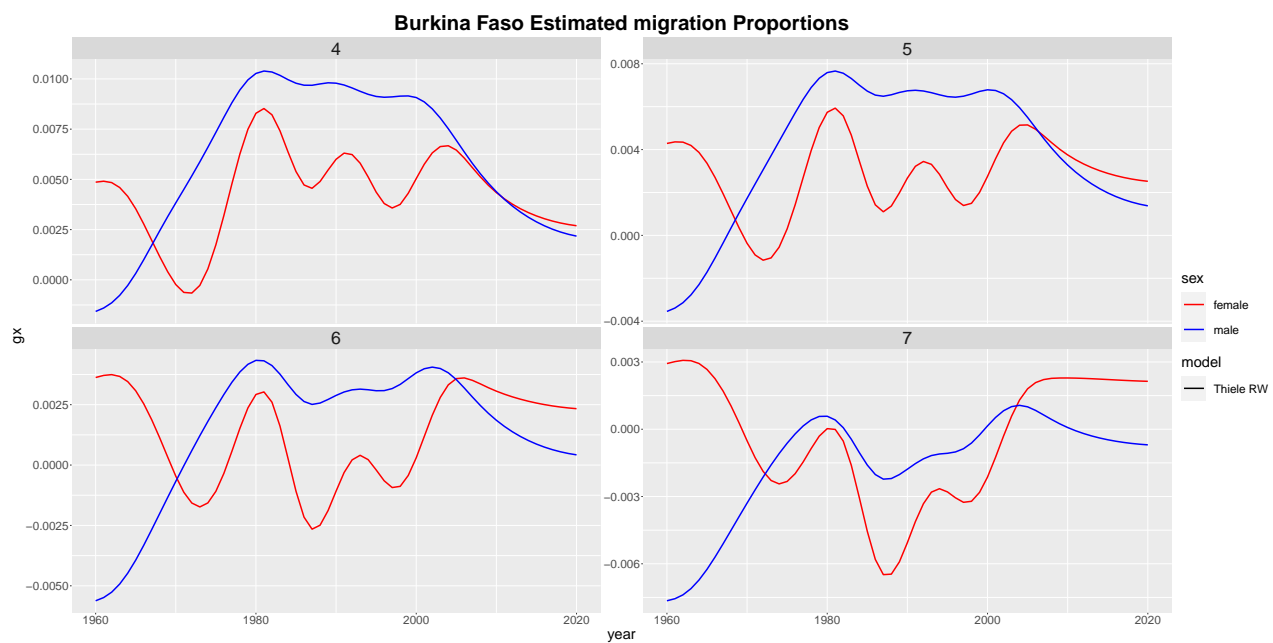


Figure 15: Migration

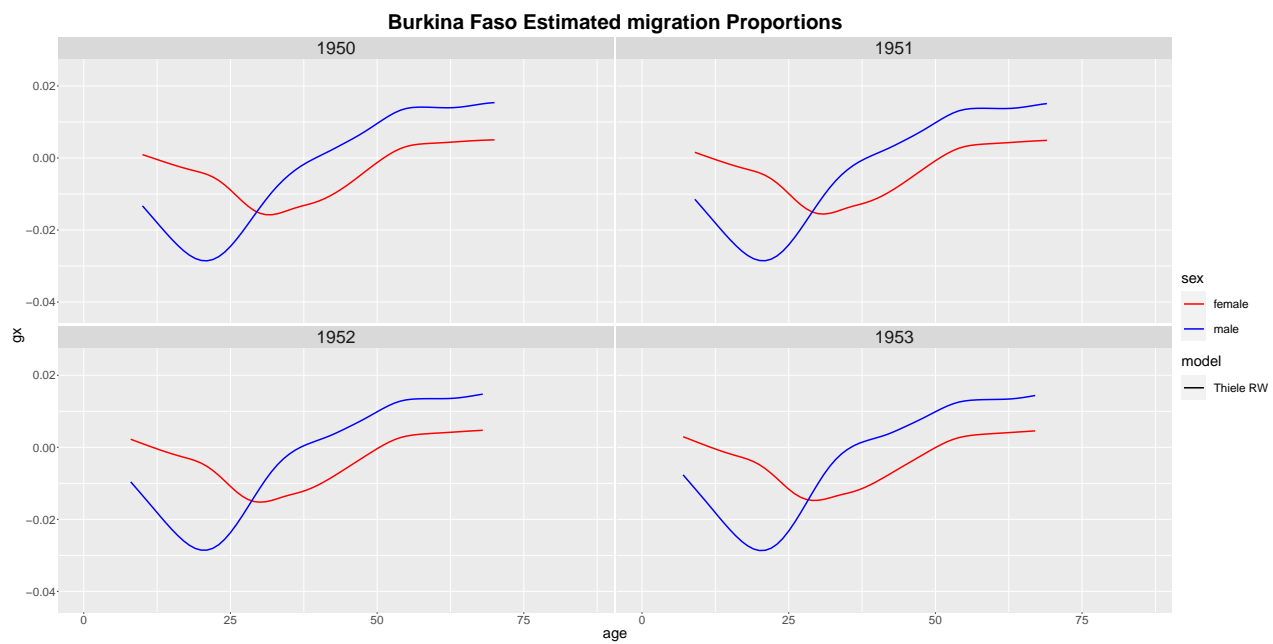


Figure 16: Migration

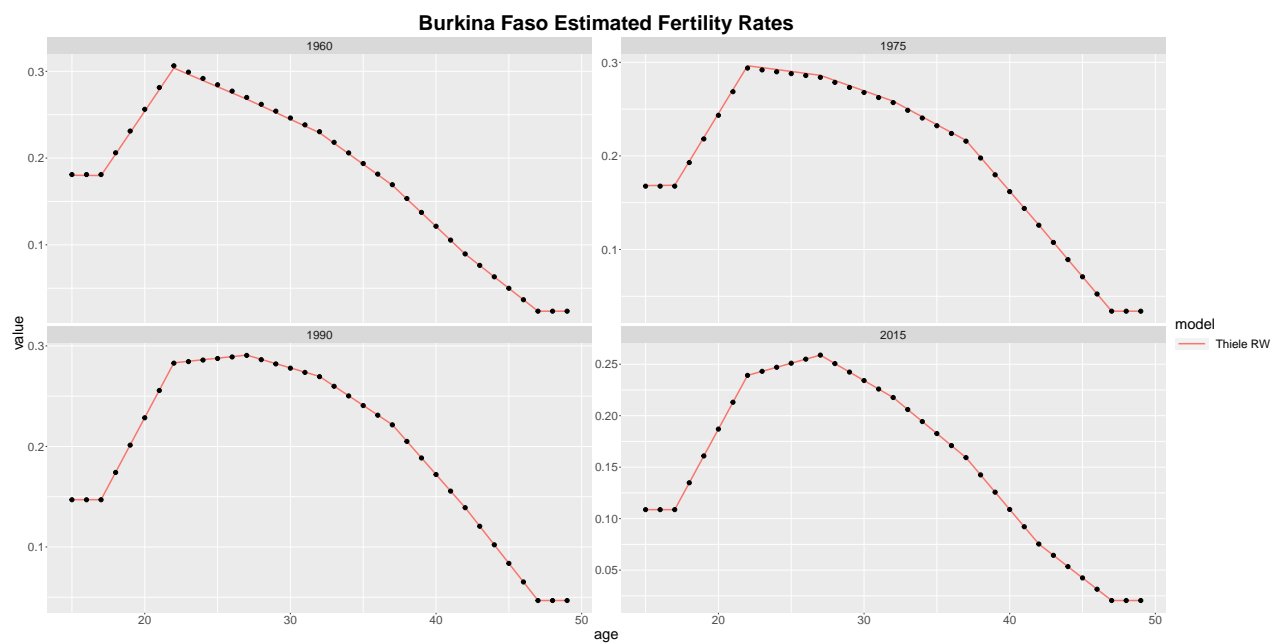


Figure 17: Fertility

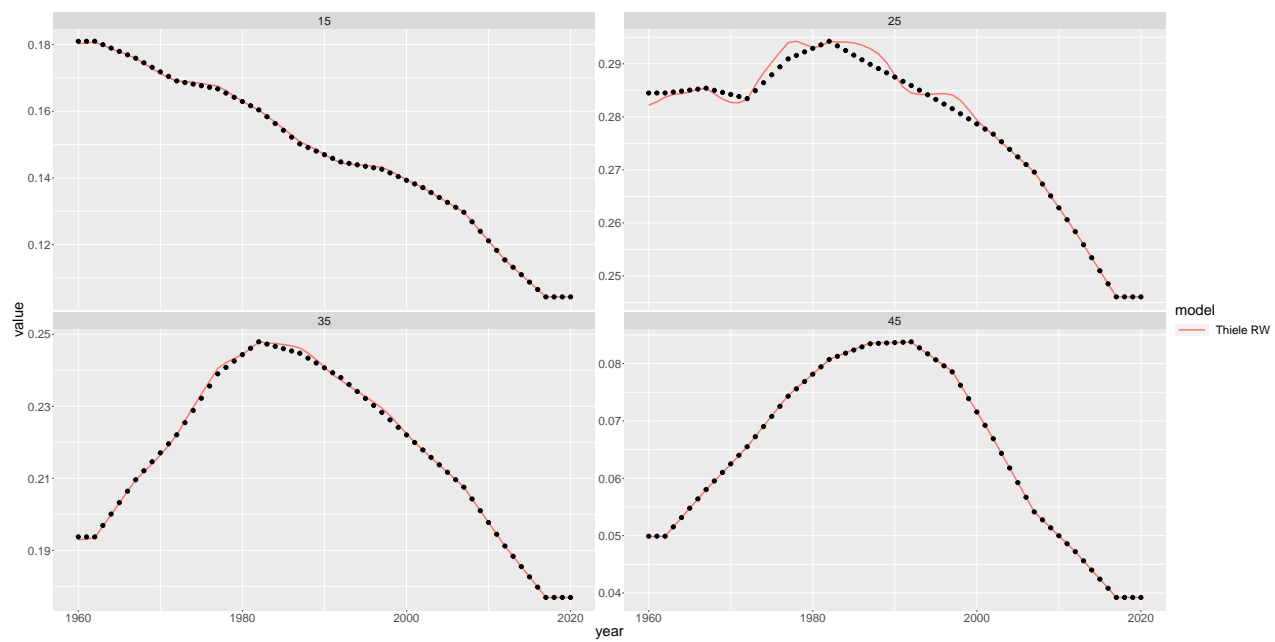


Figure 18: Fertility

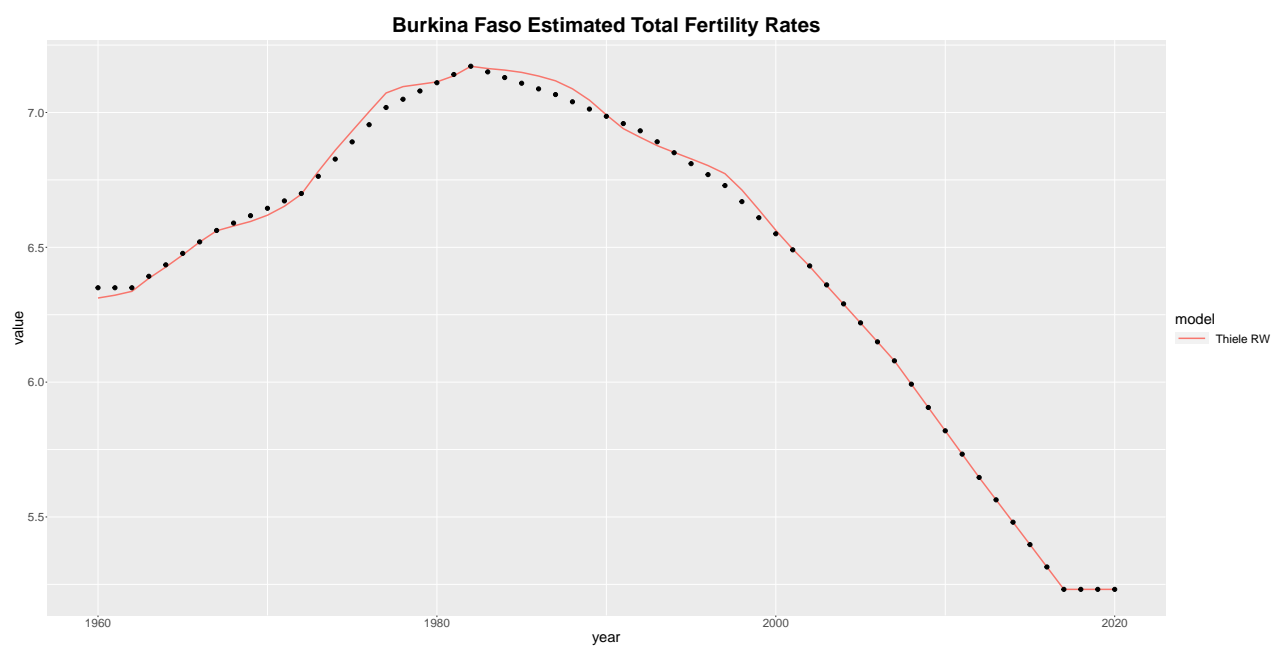


Figure 19: Total Fertility