Burkina Faso

```
## [1] "Census Females"
## # A tibble: 86 x 4
        age `1985` `1996` `2006`
##
                     <dbl>
##
      <dbl>
              <dbl>
                              <dbl>
##
   1
          0 168022. 172870 232734.
##
   2
          1 123865. 158974. 223944.
          2 142053. 174410. 242692.
##
   3
##
          3 146137. 184285. 249931.
##
   5
         4 150883. 189495. 251448.
##
          5 154008. 188243. 246943.
##
   7
          6 148134. 185588. 240547.
##
          7 142061. 176756. 231681.
          8 131616. 171109. 223428.
## 9
          9 121004. 159422. 206324.
## 10
## # ... with 76 more rows
## [1] "Census Females 5-year"
## # A tibble: 18 x 2
        age `1975`
##
##
      <dbl>
              <dbl>
##
   1
          0 479362.
##
   2
          5 417499.
##
   3
         10 327051.
##
   4
         15 262454.
##
   5
         20 237211.
##
   6
         25 221469.
##
   7
         30 189966.
##
   8
         35 154009.
##
   9
         40 126640.
         45 103550.
## 10
## 11
         50 83233.
## 12
         55 63930.
## 13
         60 48696.
## 14
         65 35645.
## 15
         70 25876.
## 16
         75 17660.
## 17
         80 10821.
## 18
         85 13098.
## [1] "Census Males"
## # A tibble: 86 x 4
        age `1985` `1996`
##
                             `2006`
##
      <dbl>
              <dbl>
                      <dbl>
                               <dbl>
##
          0 167871. 173583 236268.
          1 125161. 161235
##
                            229350.
##
          2 143298. 177204. 248241.
          3 146815. 186865. 255136.
##
##
   5
          4 151703. 192377. 256830.
```

5 155111. 191497. 252191.

6

```
## 7
          6 149342. 190015 246710.
## 8
         7 144212. 182532 239014.
## 9
         8 135460. 177876. 231703.
        9 125896. 167372. 216278.
## 10
## # ... with 76 more rows
## [1] "Census Males 5-year"
## # A tibble: 18 x 2
##
        age `1975`
##
      <dbl>
              <dbl>
##
   1
          0 498118.
   2
         5 454940.
##
##
   3
        10 367257.
##
   4
        15 275547.
##
   5
        20 209858.
##
   6
        25 175866.
## 7
        30 155352.
##
   8
        35 135026.
## 9
         40 116652.
## 10
        45 101729.
## 11
         50 88268.
## 12
         55 72765.
         60 56927.
## 13
## 14
         65 41731.
## 15
         70 30718.
## 16
         75 20445.
## 17
         80 10919.
## 18
         85 16960.
```

$Thiele\ log\text{-}Normal\ Hump\ Spline$

[1] "relative convergence (4)"

			· ·	
log_tau2_1	log_tau2_logpop_m	log_tau2_logpop_f	log_tau2_logpop_f	##
4	5.8580661	4.3042981	5.1335792	##
log_lambda_g;	log_lambda_gx_age_m	log_lambda_gx_age_f	log_tau2_gx_m	##
6	6.1815755	8.0828588	3.0564743	##
log_disp	log_lambda_tp_0_inflated_sd -0.5741970	log_lambda_tp	log_lambda_gx_agetime_m	##
0		1.7232015	6.9077258	##
log_marginal_pro6	<pre>log_marginal_prec_B_f 7.0498105</pre>	<pre>log_marginal_prec_A_f 6.8100152</pre>	log_marginal_prec_psi_f 6.8066369	## ##
log_lambda_:	log_lambda_psi_f	log_lambda_phi_f	<pre>log_marginal_prec_B_m 6.3653162</pre>	##
4	4.3071807	4.3080423		##
log_lamb	log_lambda_phi_m	log_lambda_B_f	log_lambda_A_f	##
4	4.3118552	4.3250763	4.3061809	##
logit_lambda_sloj	log_lambda_B_m	log_lambda_A_m	log_lambda_epsilon_m	##
-1	4.2732264	4.3046941	4.3311045	##
	<pre>logit_epsilon_slope_rho_m -0.5367179</pre>	logit_delta_slope_rho_m 2.8222691	logit_lambda_slope_rho_m 0.7615573	## ##

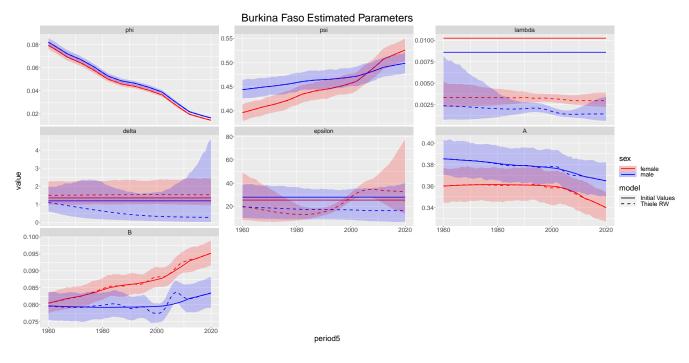


Figure 1: Estimated parameters

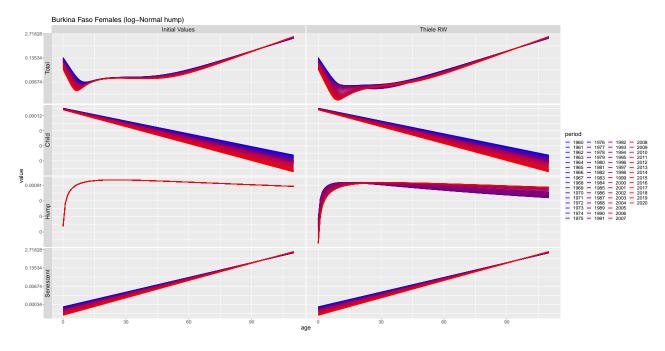


Figure 2: Thiele Decomposed

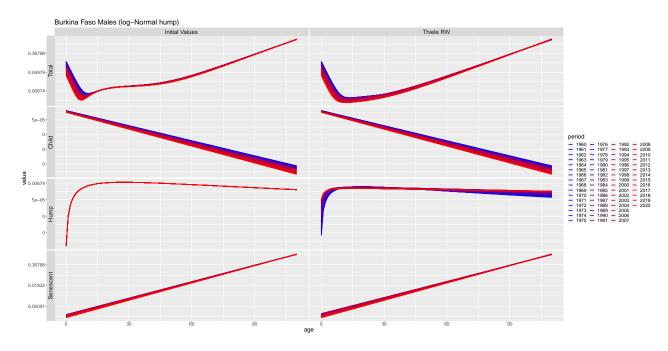


Figure 3: Thiele Decomposed

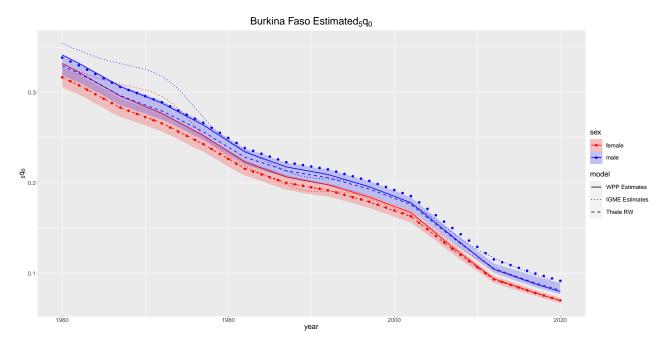


Figure 4: Estimated $_5q_0$

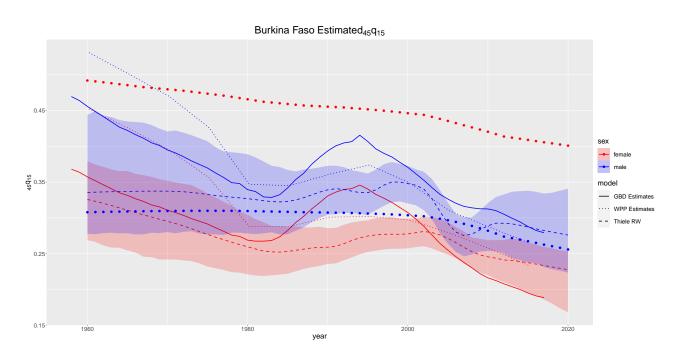


Figure 5: Estimated $_{45}q_{15}$

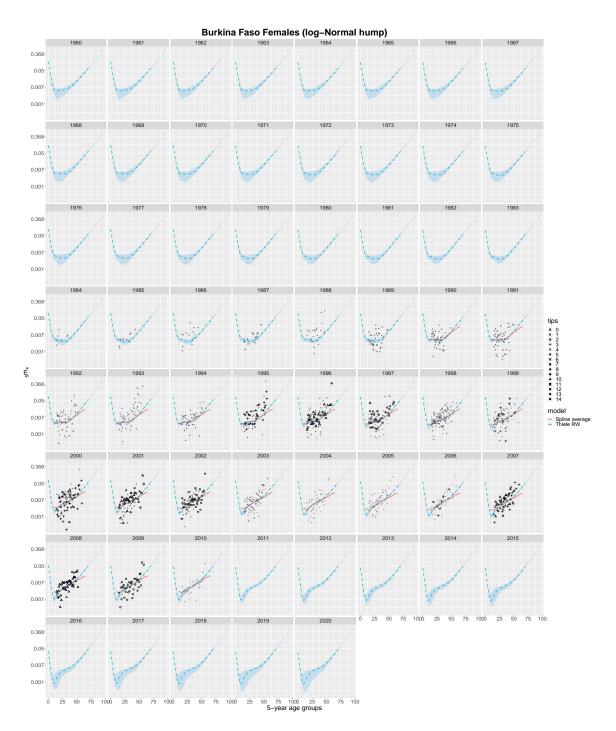


Figure 6: Mortality Schedules

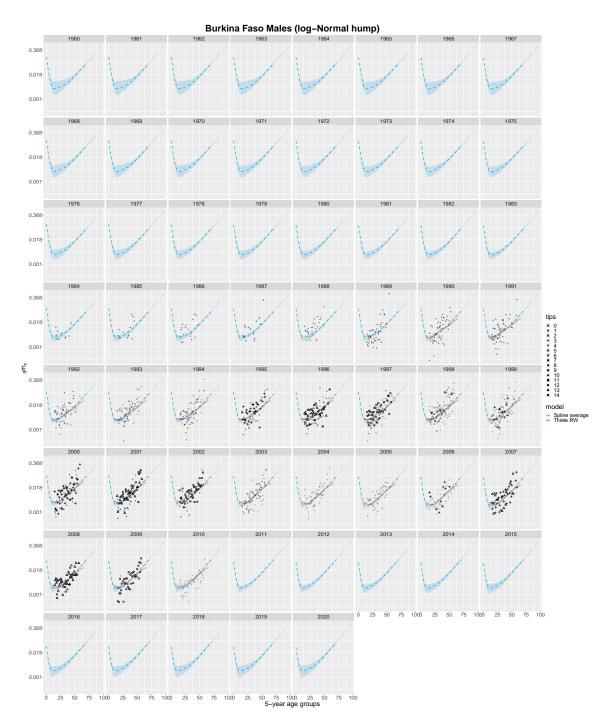


Figure 7: Mortality Schedules

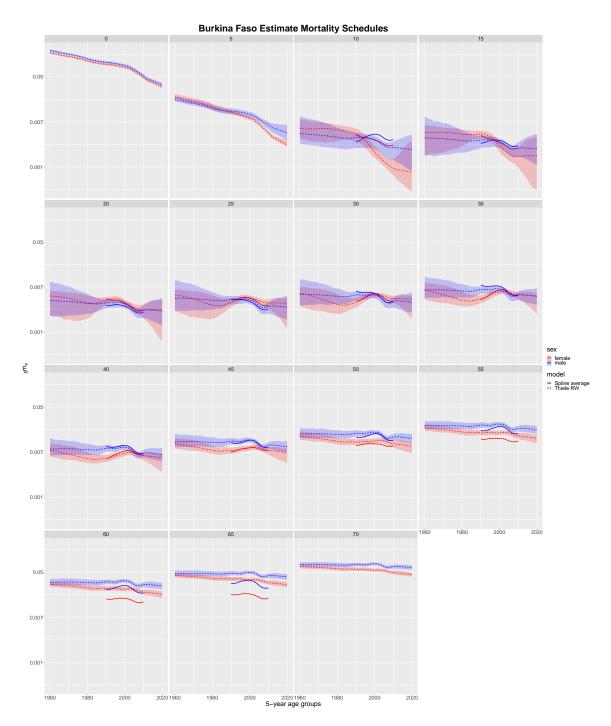


Figure 8: Mortality Schedules

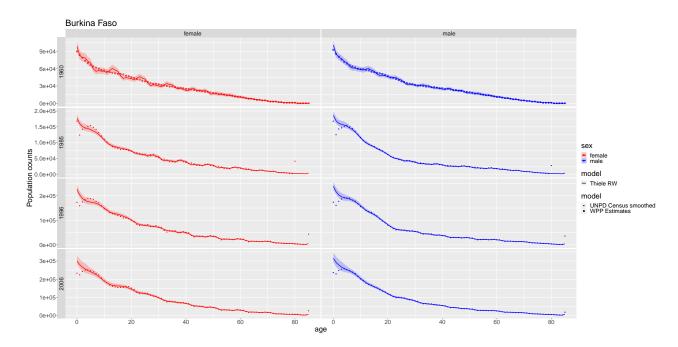


Figure 9: Population

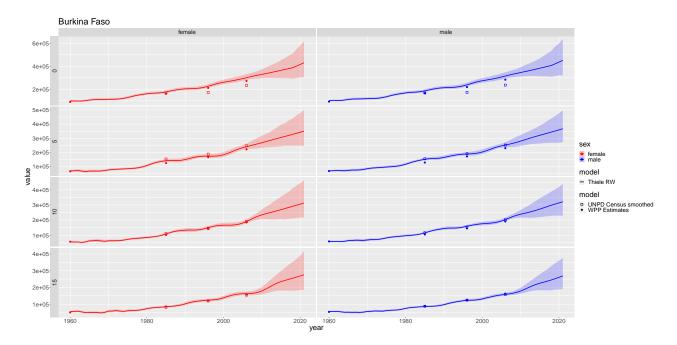


Figure 10: Population

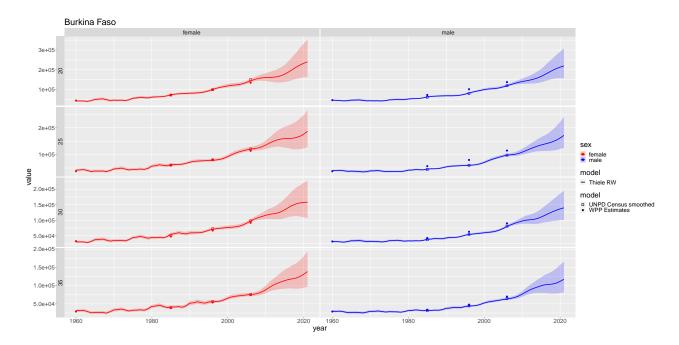


Figure 11: Population

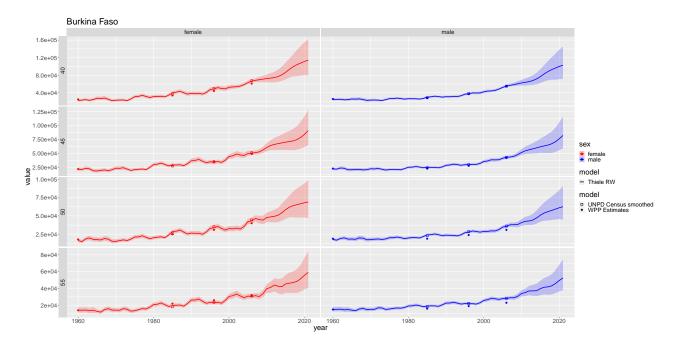
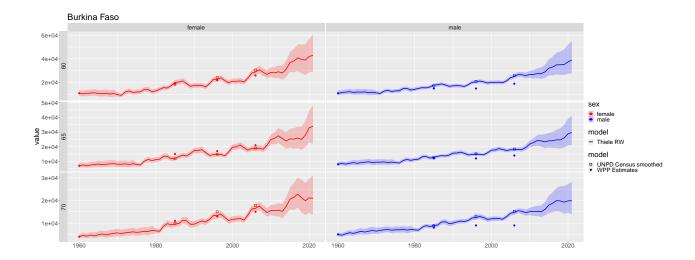


Figure 12: Population



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Figure 13: Population

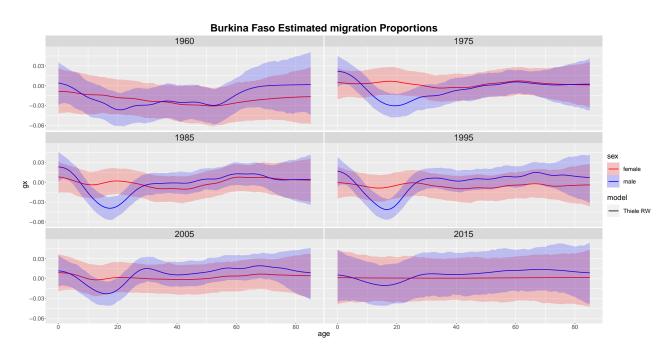


Figure 14: Migration

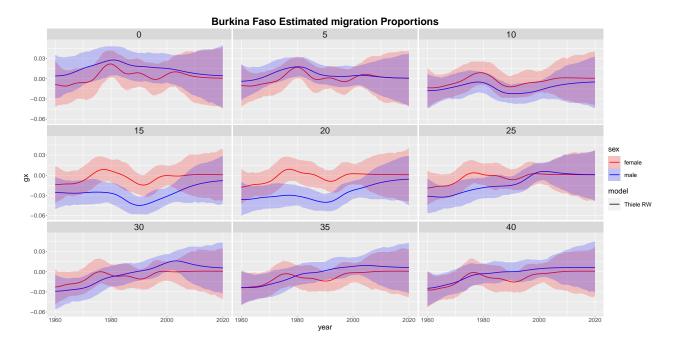


Figure 15: Migration

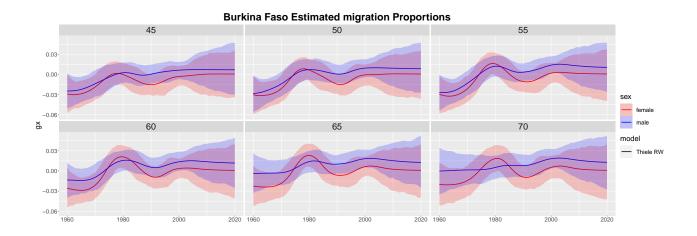


Figure 16: Migration

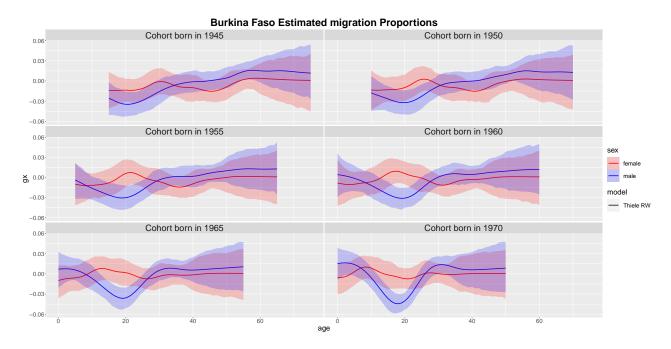


Figure 17: Migration

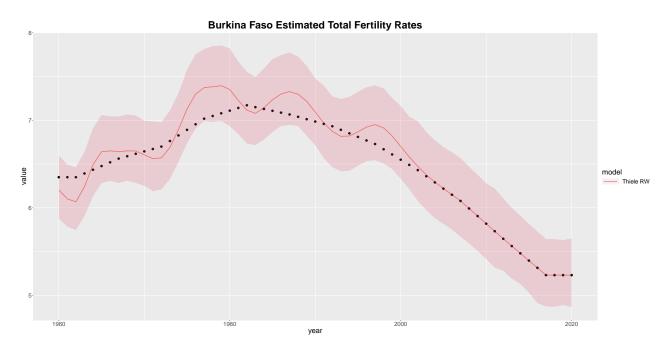


Figure 18: Total Fertility

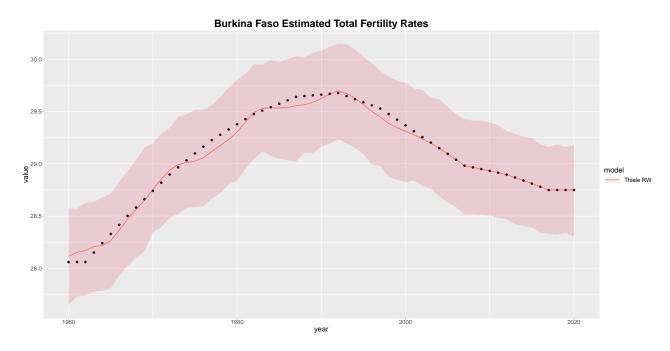


Figure 19: Mean age at births

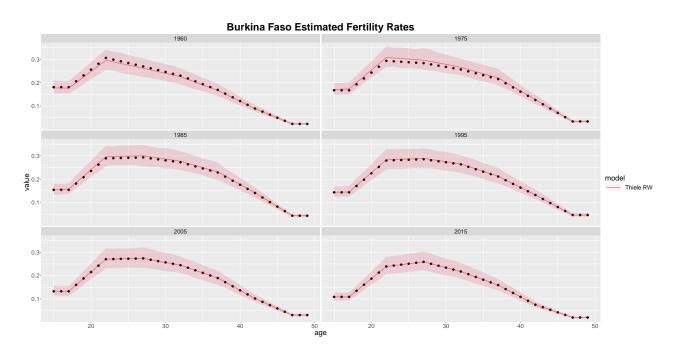


Figure 20: Fertility

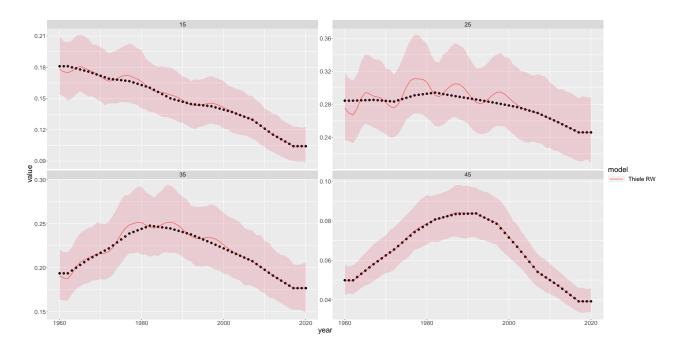


Figure 21: Fertility