

# Angola

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

## # A tibble: 86 x 2
##   age `2014`
##   <dbl>   <dbl>
## 1     0 438929
## 2     1 529096.
## 3     2 512564
## 4     3 503159.
## 5     4 482890.
## 6     5 467691.
## 7     6 444757.
## 8     7 420007.
## 9     8 395598
## 10    9 371973.
## # ... with 76 more rows

## [1] "Census Females 5-year"

## # A tibble: 18 x 1
##   age
##   <dbl>
## 1     0
## 2     5
## 3    10
## 4    15
## 5    20
## 6    25
## 7    30
## 8    35
## 9    40
## 10   45
## 11   50
## 12   55
## 13   60
## 14   65
## 15   70
## 16   75
## 17   80
## 18   85

## [1] "Census Males"

## # A tibble: 86 x 2
##   age `2014`
##   <dbl>   <dbl>
## 1     0 435201
## 2     1 523750.
## 3     2 506322.
## 4     3 496824.
## 5     4 476364.
## 6     5 461347.
```

```
## 7      6 438334.
## 8      7 412996.
## 9      8 388362.
## 10     9 364539.
## # ... with 76 more rows

## [1] "Census Males 5-year"

## # A tibble: 18 x 1
##   age
##   <dbl>
## 1     0
## 2     5
## 3    10
## 4    15
## 5    20
## 6    25
## 7    30
## 8    35
## 9    40
## 10   45
## 11   50
## 12   55
## 13   60
## 14   65
## 15   70
## 16   75
## 17   80
## 18   85
```

### *Thiele log-Normal Hump Spline*

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

##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_lambda_fx	log
##	3.957804e+00	5.349724e+00	3.723489e+00	5.264862e+00	4.224987e+00	1.
##	log_lambda_tp	tp_slope	tp_params_5	tp_params_10	log_lambda_phi	log
##	3.077213e+00	5.246125e-04	1.559883e-01	4.422028e-01	1.261324e+01	1.
##	log_lambda_lambda	log_lambda_delta	log_lambda_epsilon			
##	5.183537e+00	8.535720e+00	8.024979e+00			

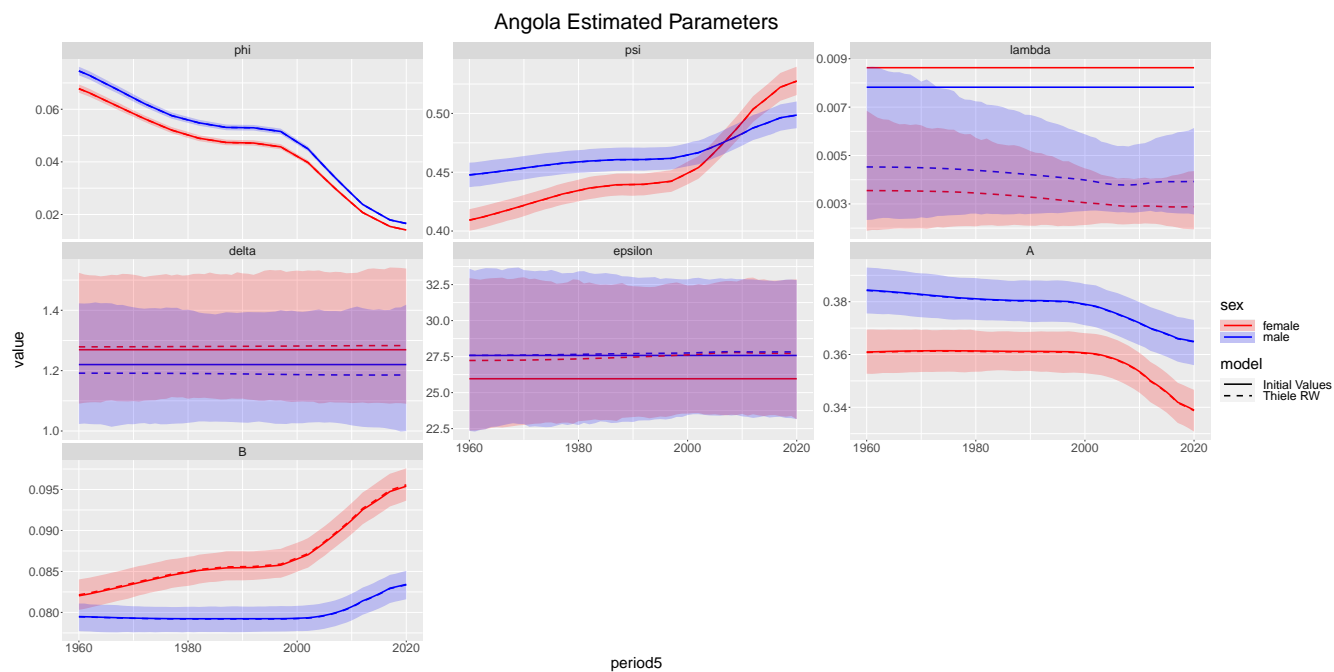


Figure 1: Estimated parameters

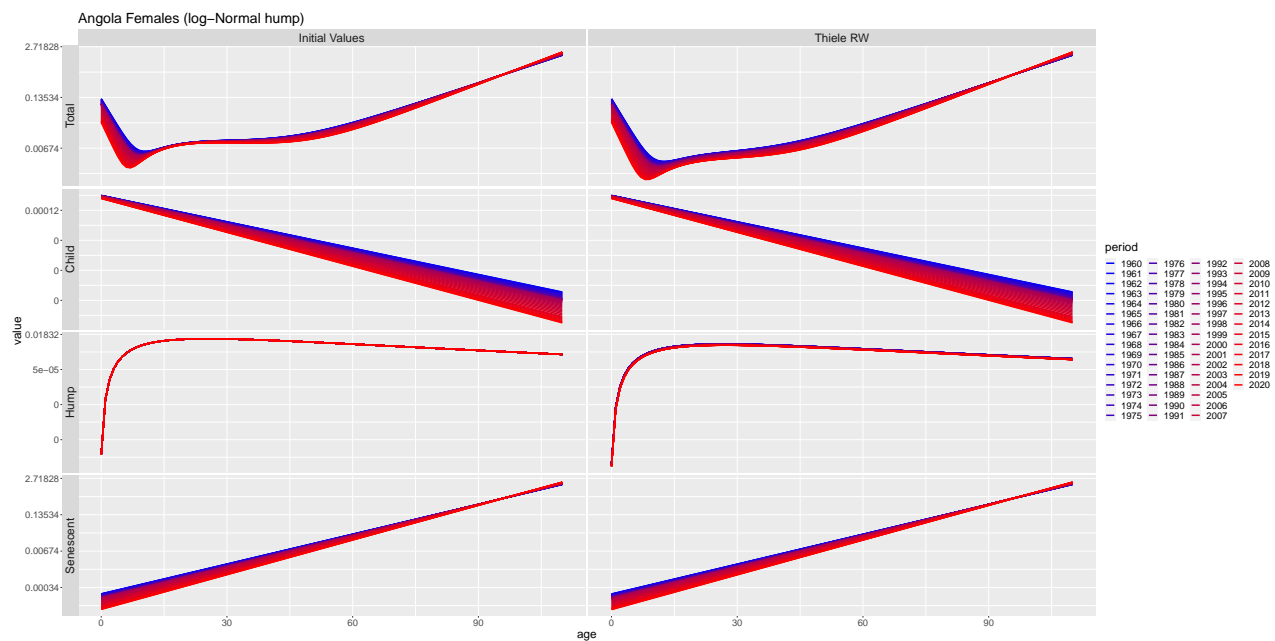


Figure 2: Thiele Decomposed

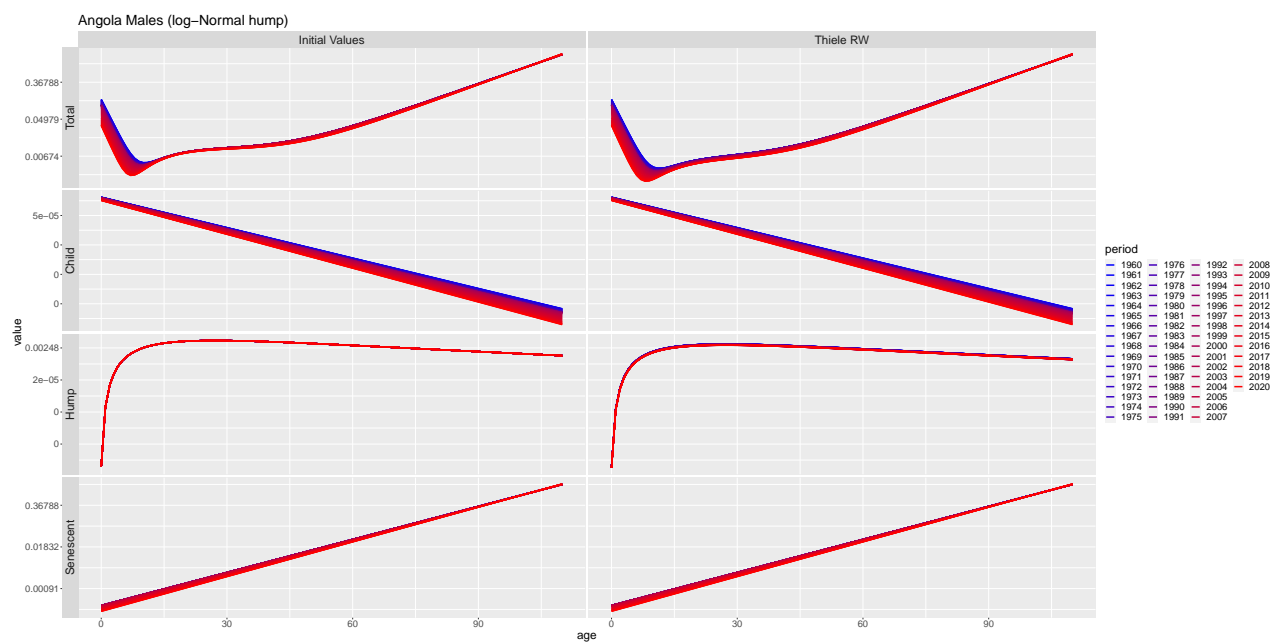


Figure 3: Thiele Decomposed

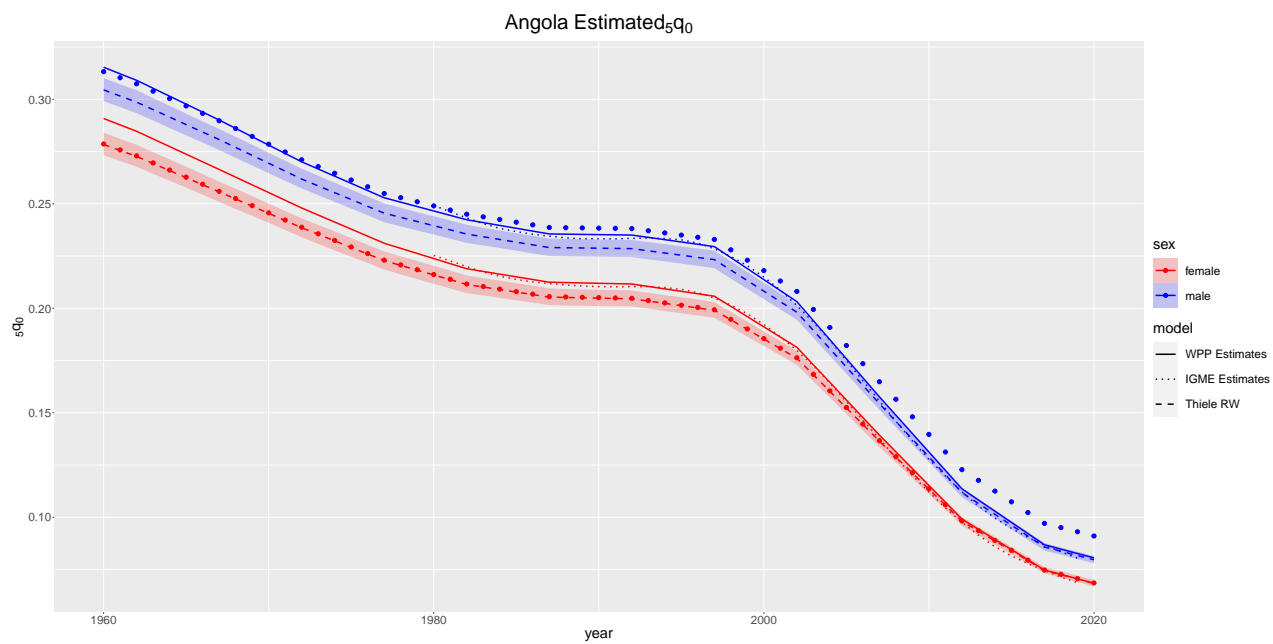


Figure 4: Estimated  ${}_5q_0$

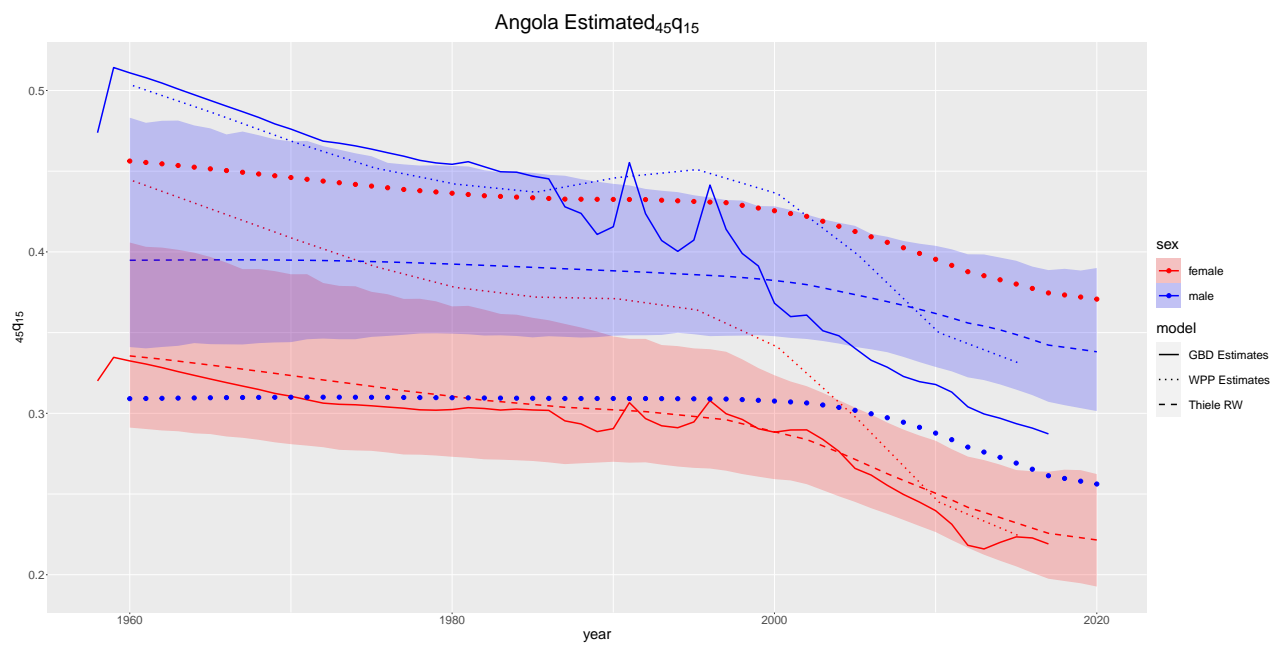


Figure 5: Estimated  $_{45}q_{15}$

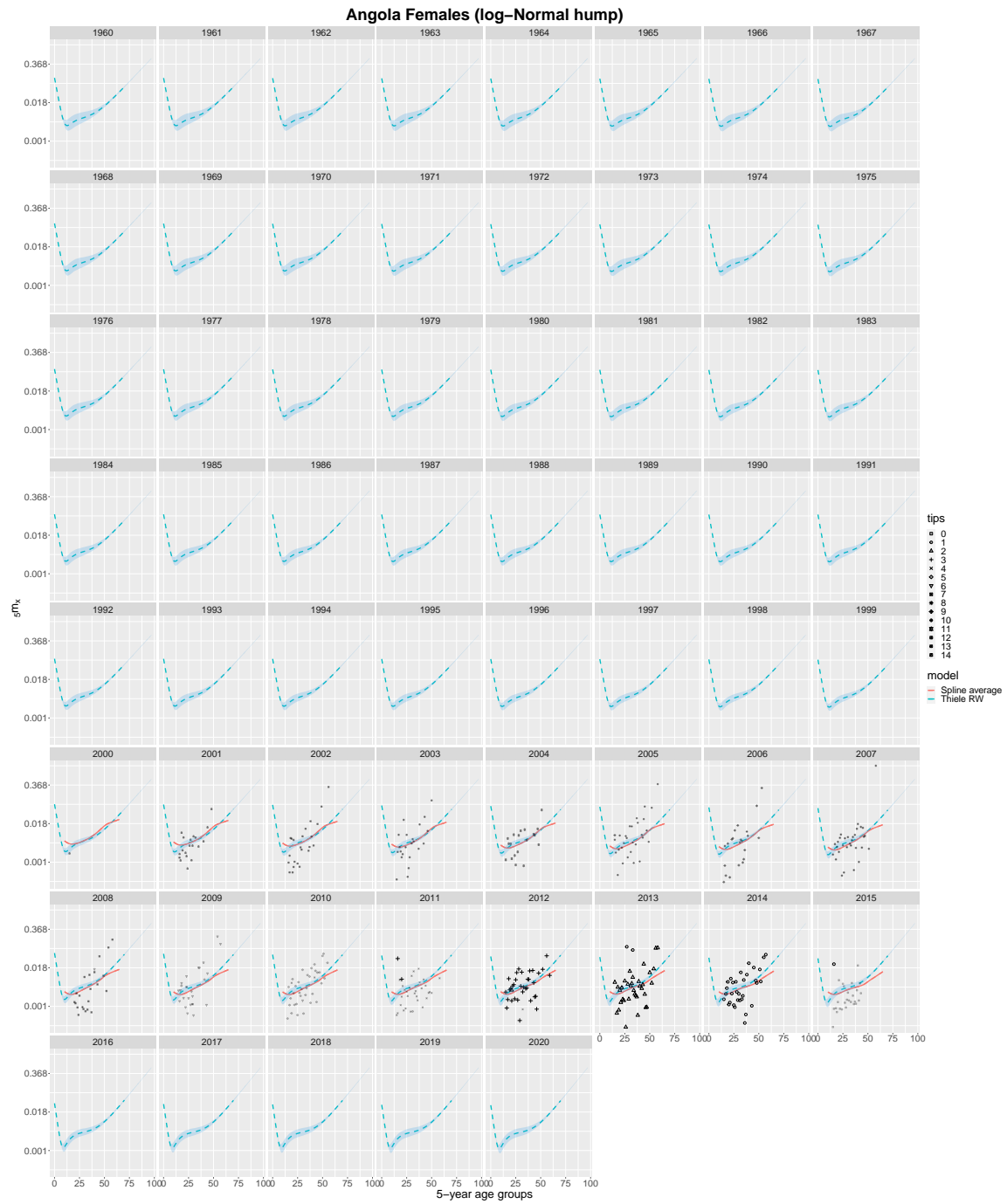


Figure 6: Mortality Schedules

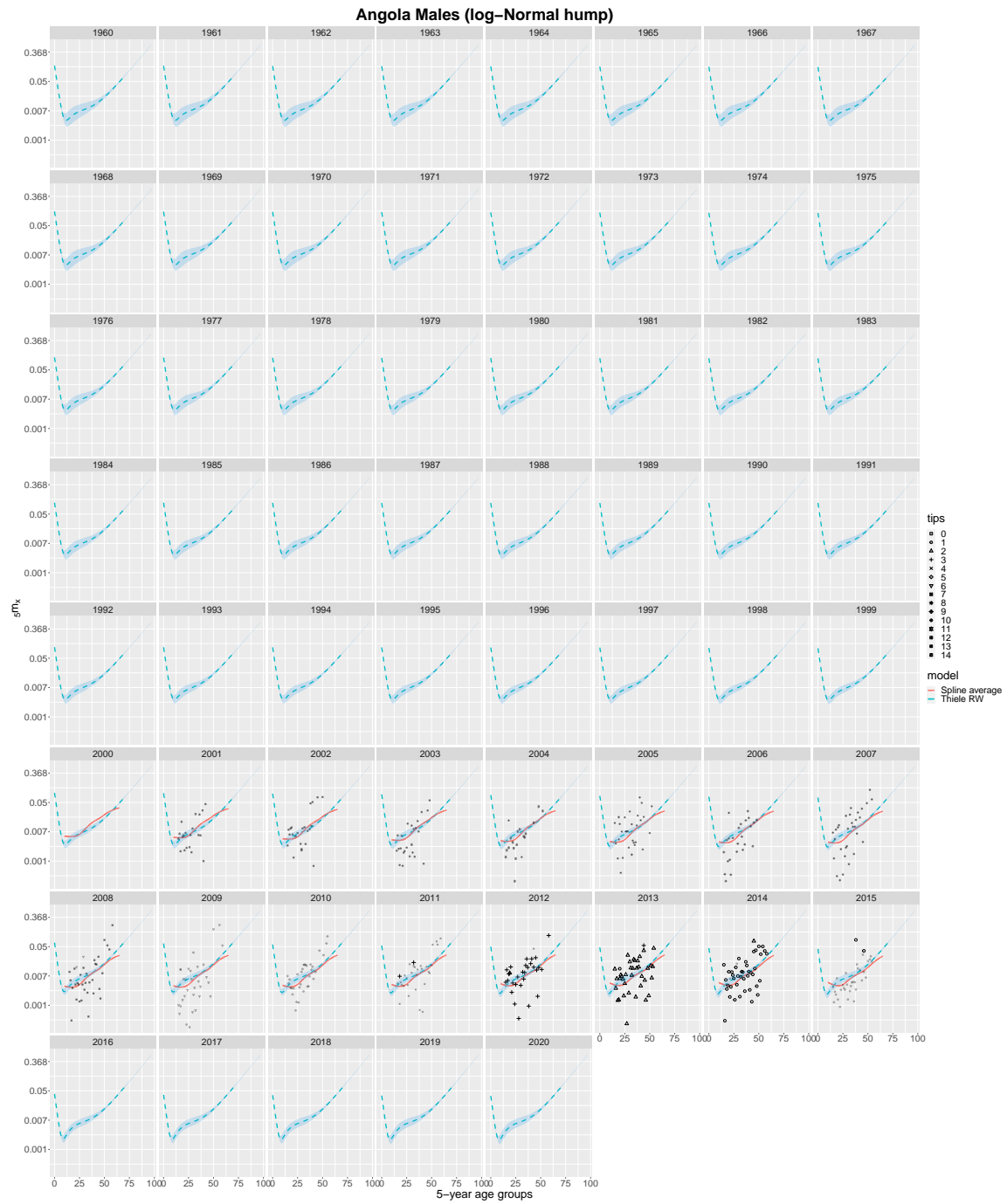


Figure 7: Mortality Schedules

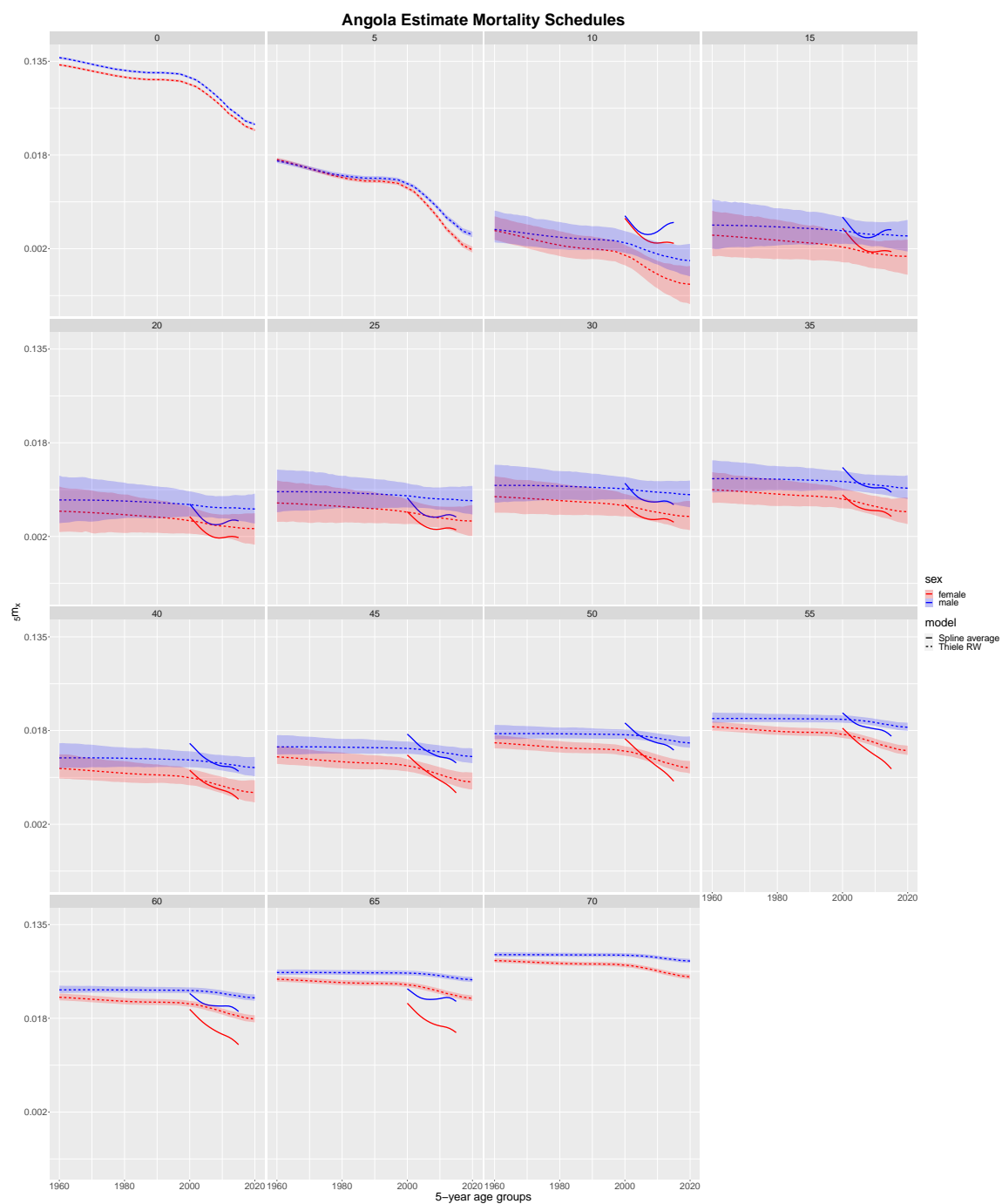


Figure 8: Mortality Schedules



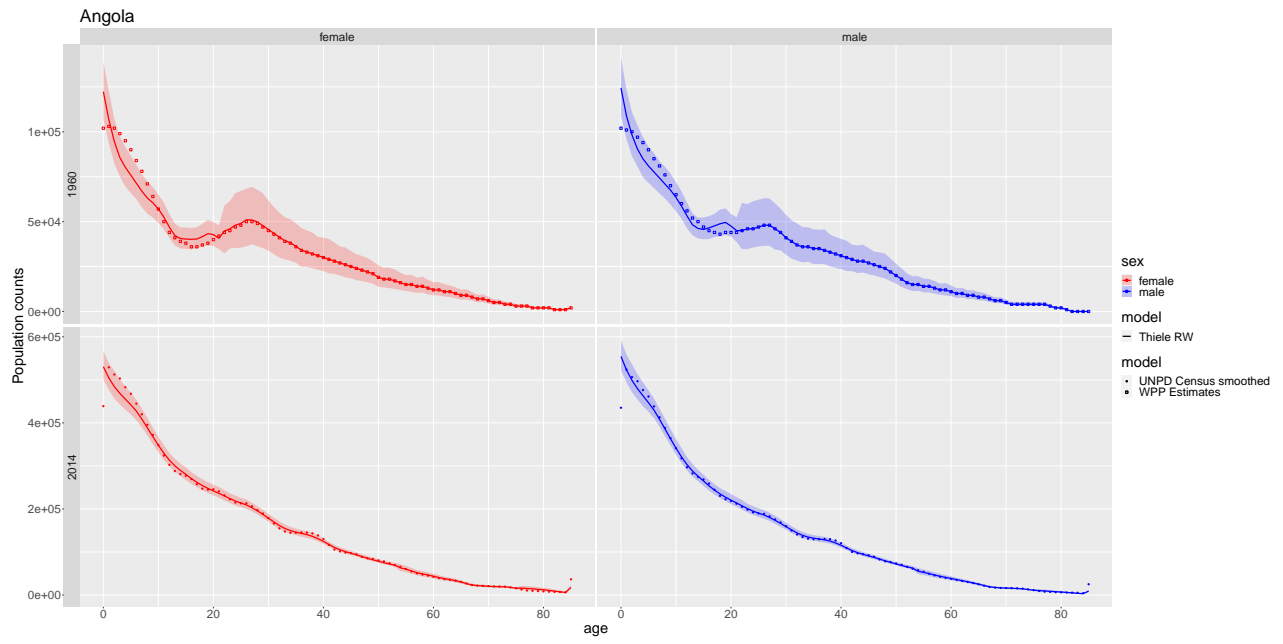


Figure 9: Population

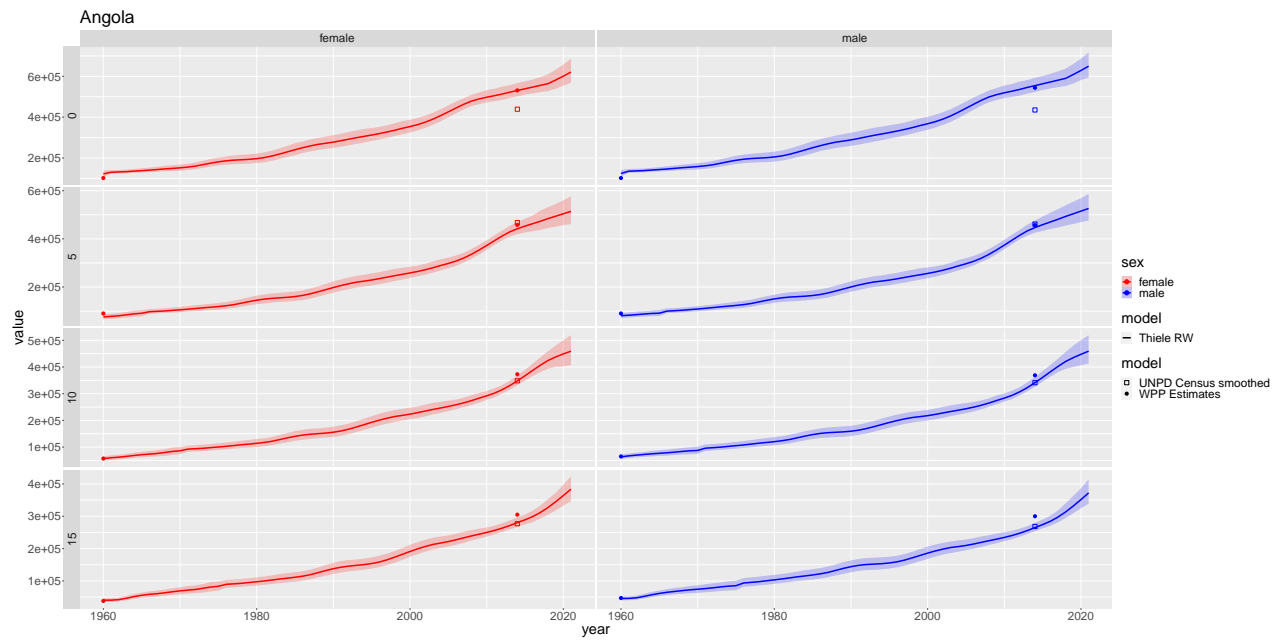


Figure 10: Population

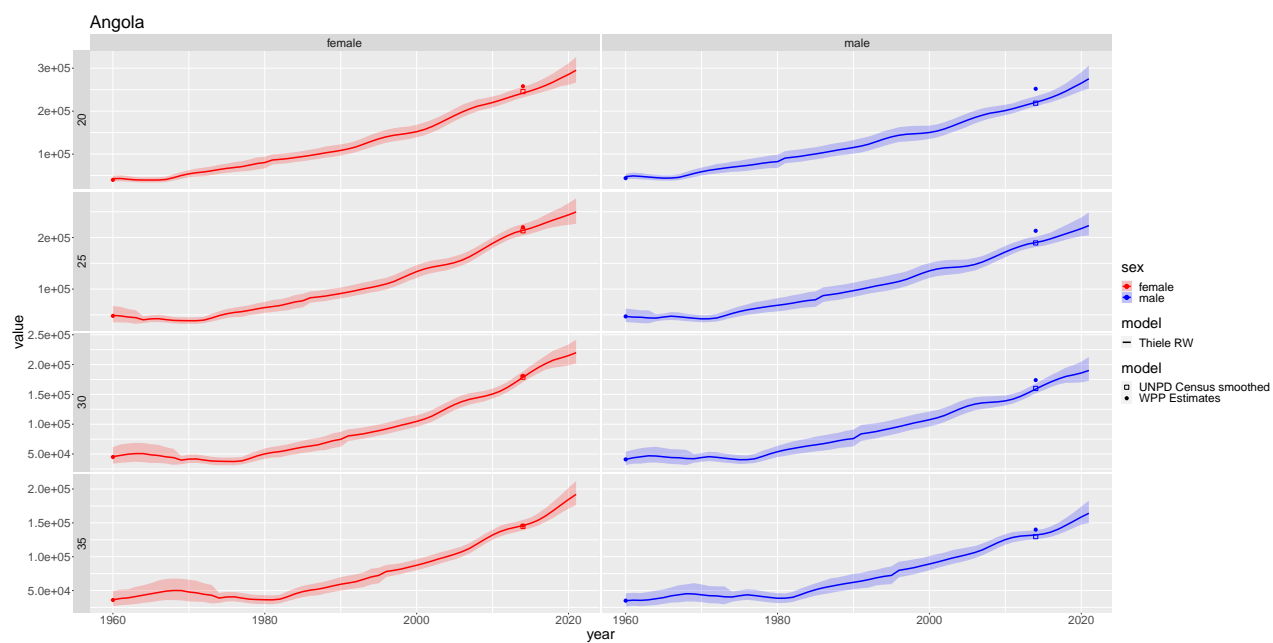


Figure 11: Population

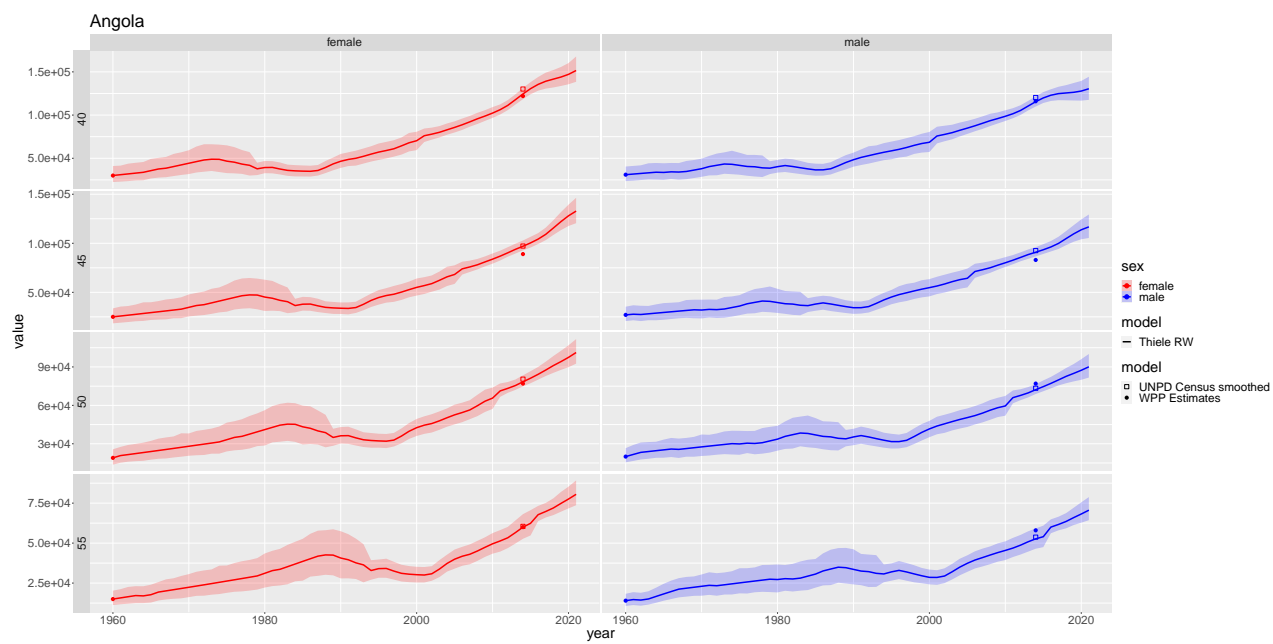


Figure 12: Population

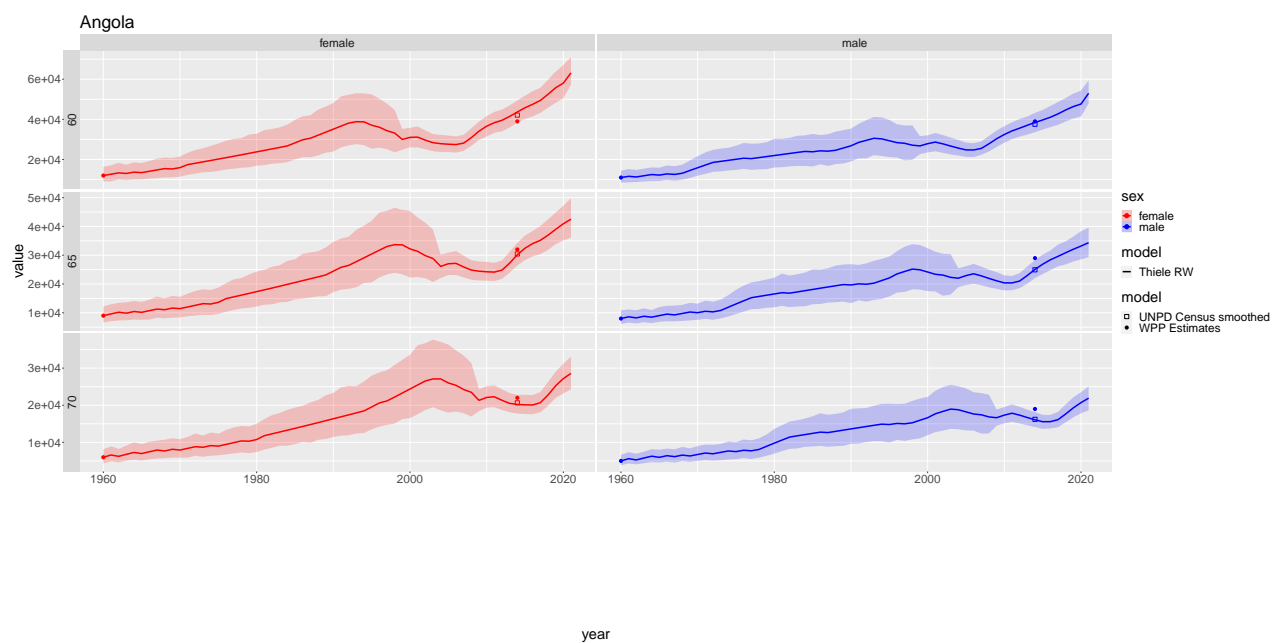


Figure 13: Population

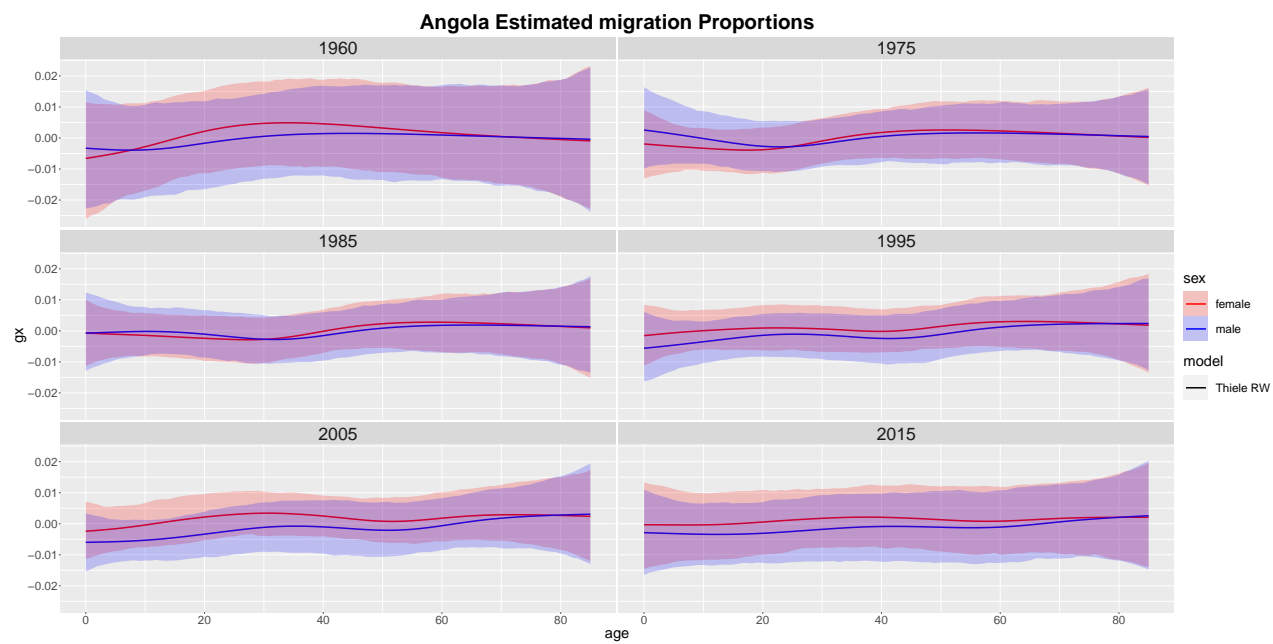


Figure 14: Migration

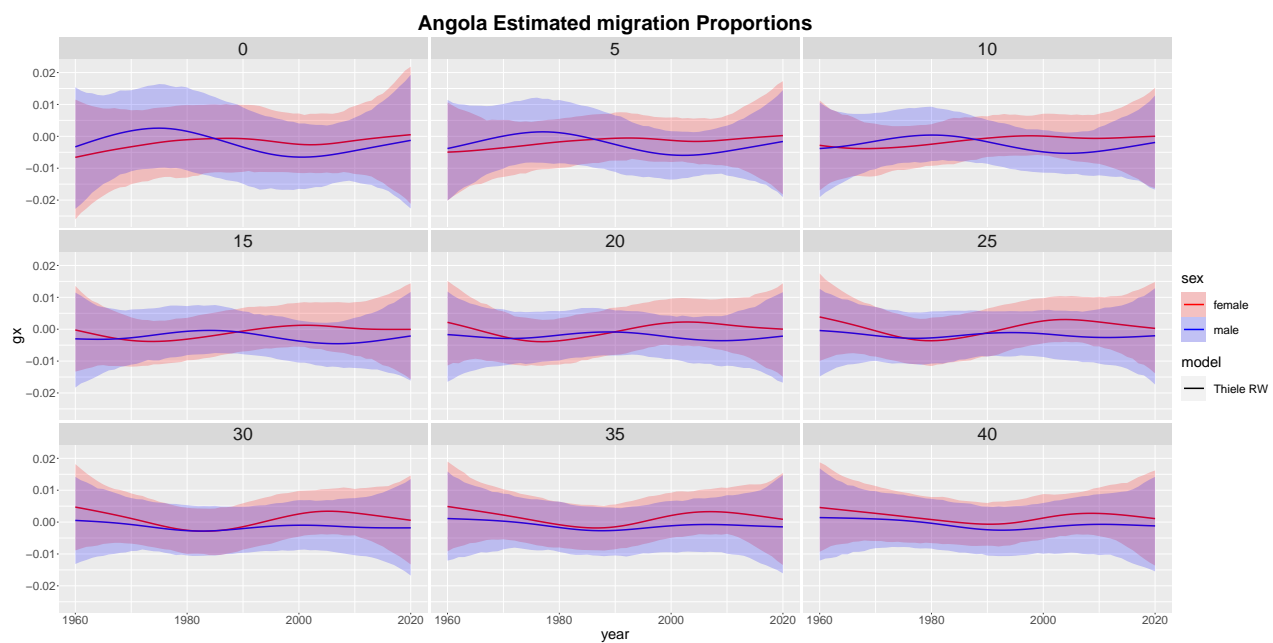


Figure 15: Migration

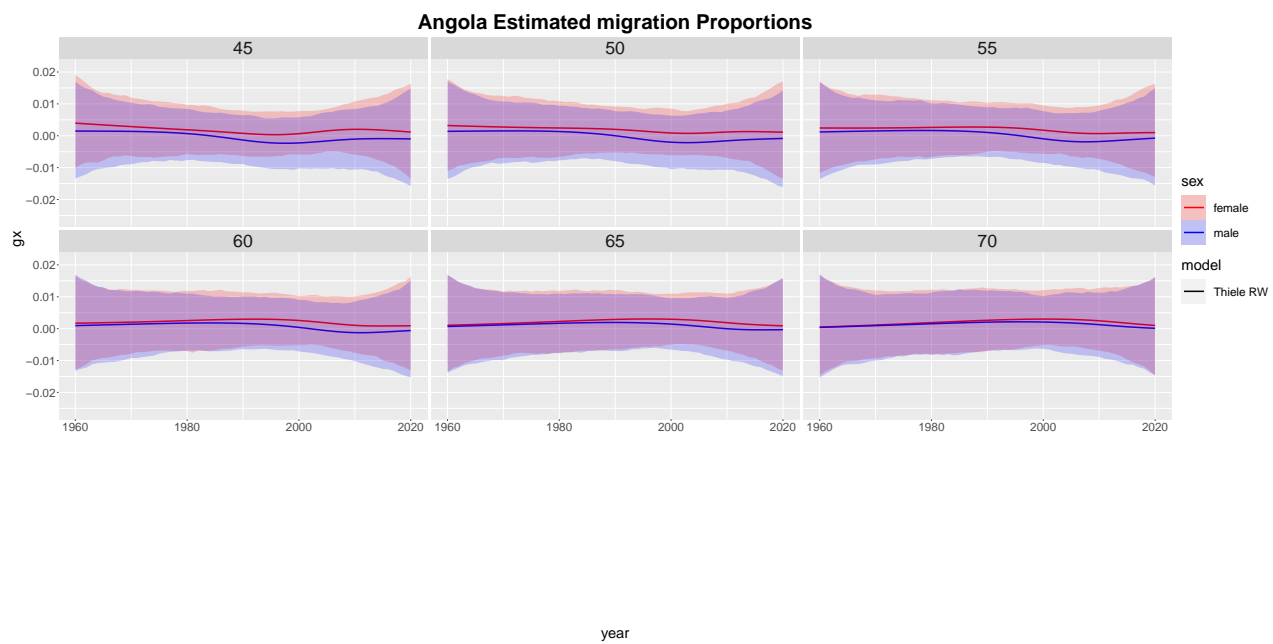


Figure 16: Migration

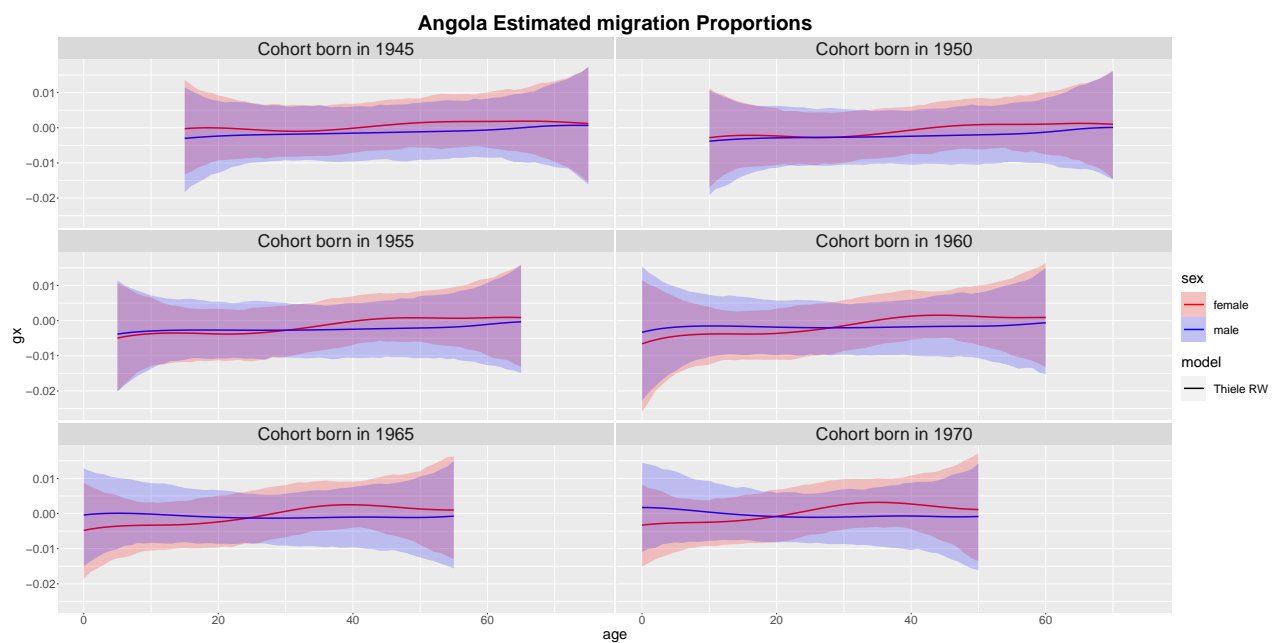


Figure 17: Migration

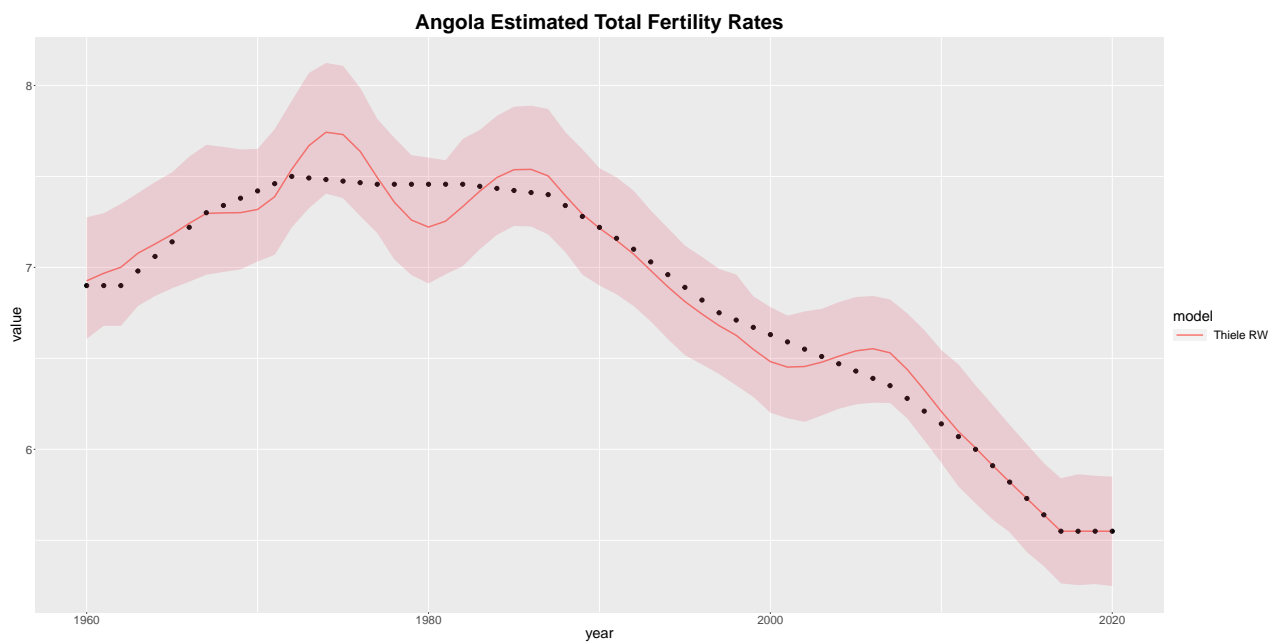


Figure 18: Total Fertility

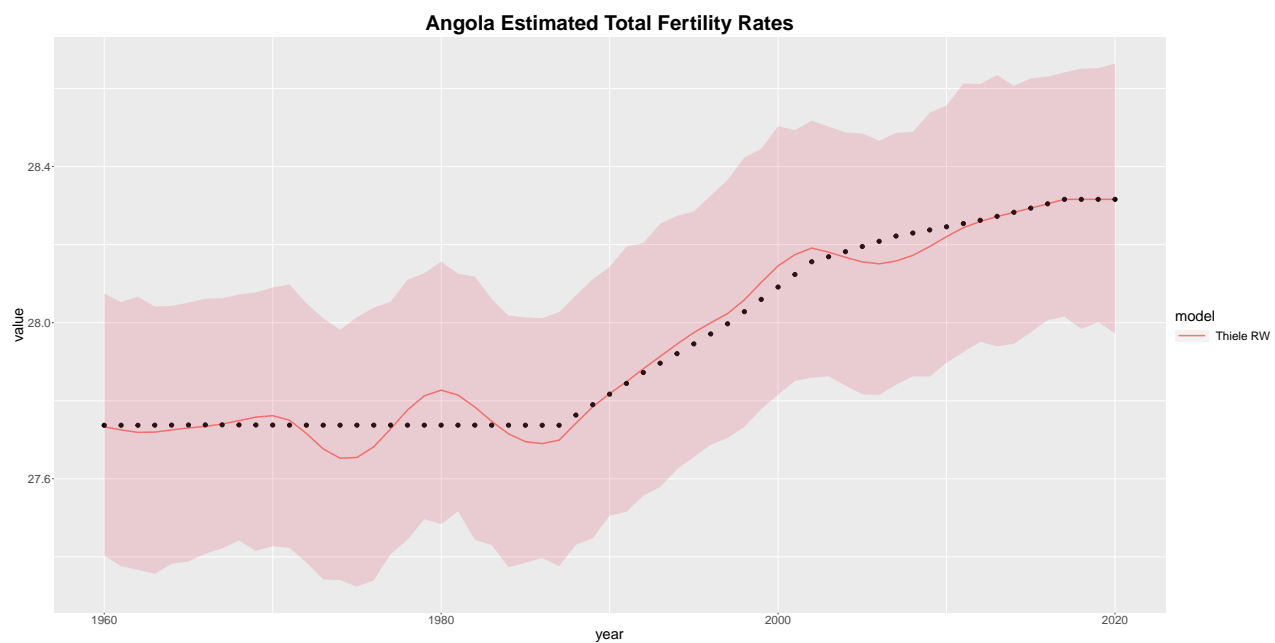


Figure 19: Mean age at births

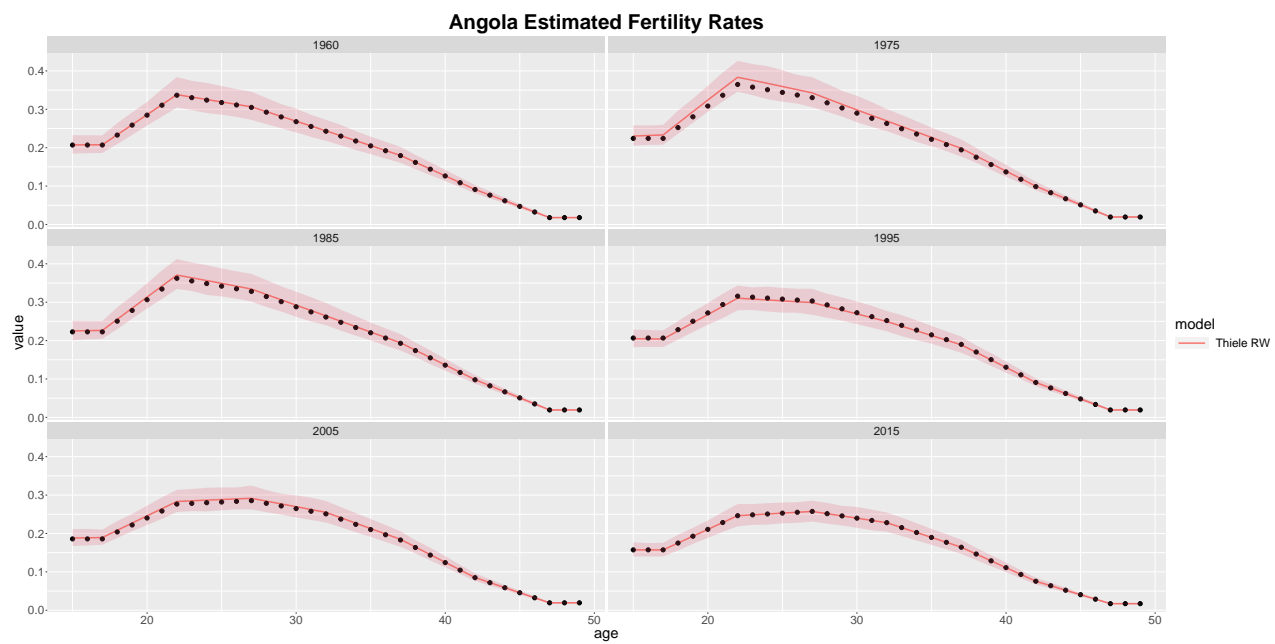


Figure 20: Fertility

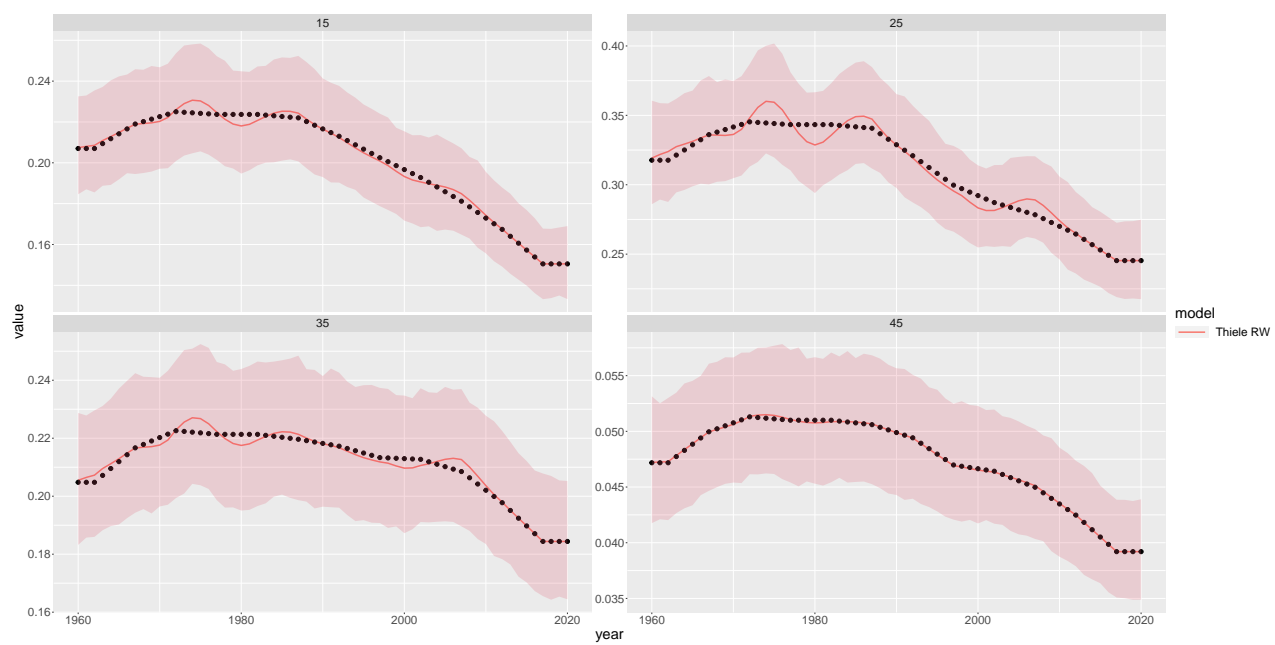


Figure 21: Fertility