

# Kenya

## [1] "Census Females"

## # A tibble: 87 x 7

	age	`1962`	`1969`	`1989`	`1999`	`2009`	`2019`
	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
## 1	0	114962.	180506	401598.	543989.	605394.	549078.
## 2	1	124197.	208046.	365428.	433581.	566581.	575921.
## 3	2	141646.	212504.	376228.	440024.	584414.	597634.
## 4	3	141163.	208169.	374954.	426463.	584282.	605051.
## 5	4	137277.	201220.	364729.	419005.	575004.	606889.
## 6	5	132355.	193236.	359361.	418545.	569714.	612009.
## 7	6	130667.	187473.	354091.	413466.	563841.	619214.
## 8	7	125741.	178494.	346939.	412820.	554806.	621888.
## 9	8	118982.	169718.	336668.	409831.	544641.	623979.
## 10	9	110984.	160306.	326204.	402988.	531156.	622215.

## # ... with 77 more rows

## [1] "Census Males"

## # A tibble: 87 x 7

	age	`1962`	`1969`	`1989`	`1999`	`2009`	`2019`
	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
## 1	0	110490.	181280	407366.	559955.	617213.	548946.
## 2	1	119896.	209856.	370701.	444554.	579266.	580058.
## 3	2	137308.	214870.	380545.	449449.	596090.	601059.
## 4	3	136838.	211596.	380154.	436388.	598339.	610883.
## 5	4	134196.	204799.	369275.	428343.	588474.	612374.
## 6	5	130987.	197270.	363605.	427563.	583454.	618083.
## 7	6	130752.	192218.	357921.	420960.	577380.	625102.
## 8	7	127766.	184027.	350596.	419629.	568521.	628228.
## 9	8	123091.	176185.	340569.	417318.	559797.	632393.
## 10	9	117015.	167407.	329977.	410545.	547094.	631604.

## # ... 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
##	6.9513942	5.4232086	7.0282283	5.4232086
##	log_tau2_gx_m	log_lambda_gx_age_f	log_lambda_gx_age_m	log_lambda_gx_age_m
##	1.9878058	6.3986943	7.8728849	1.9878058
##	log_lambda_gx_agemtime_m	log_lambda_tp	log_lambda_tp_0_inflated_sd	log_lambda_tp_0_inflated_sd
##	6.9077756	1.9345998	-0.5024656	1.9345998
##	log_marginal_prec_psi_f	log_marginal_prec_A_f	log_marginal_prec_B_f	log_marginal_prec_B_f
##	4.2971025	6.7755725	6.5371975	6.7755725
##	log_marginal_prec_B_m	log_lambda_phi_f	log_lambda_psi_f	log_lambda_psi_f
##	3.2412659	4.3187125	4.3098547	4.3187125
##	log_lambda_A_f	log_lambda_B_f	log_lambda_phi_m	log_lambda_phi_m
##	4.3057923	4.3088054	4.3019010	4.3088054
##	log_lambda_epsilon_m	log_lambda_A_m	log_lambda_B_m	log_lambda_B_m
##	4.6411082	4.3086127	4.3983706	4.3086127

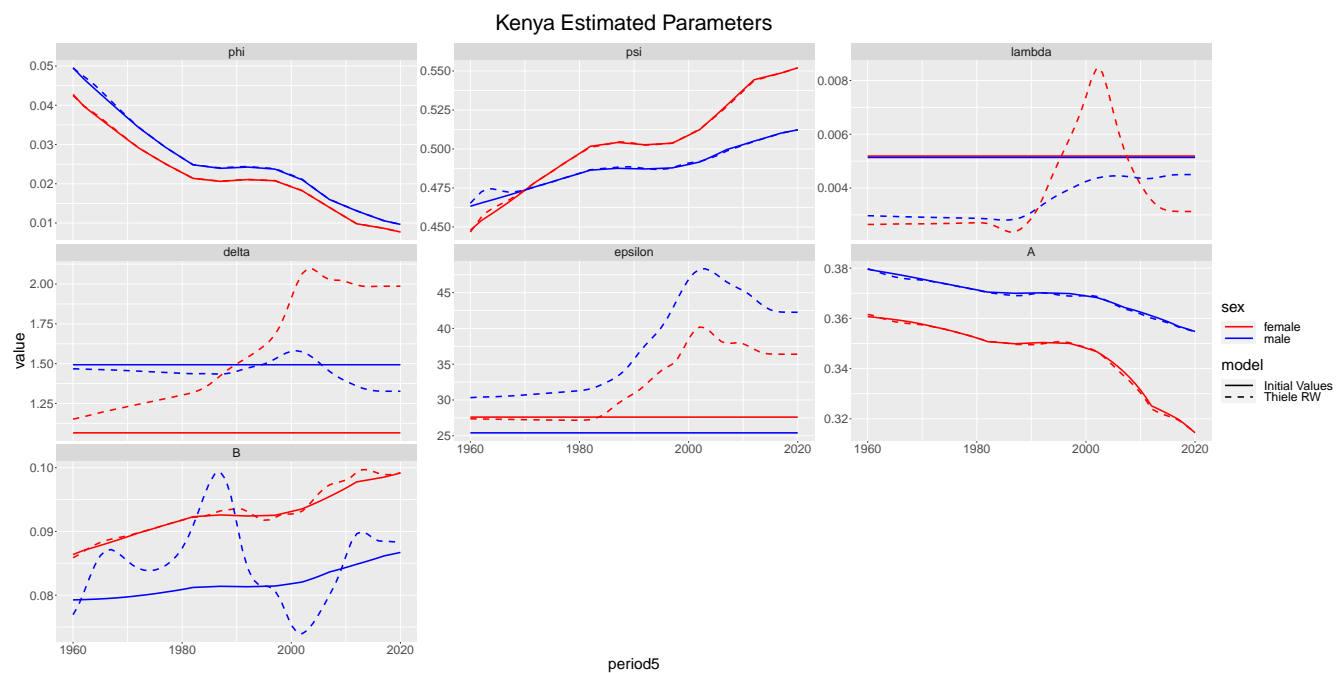


Figure 1: Estimated parameters

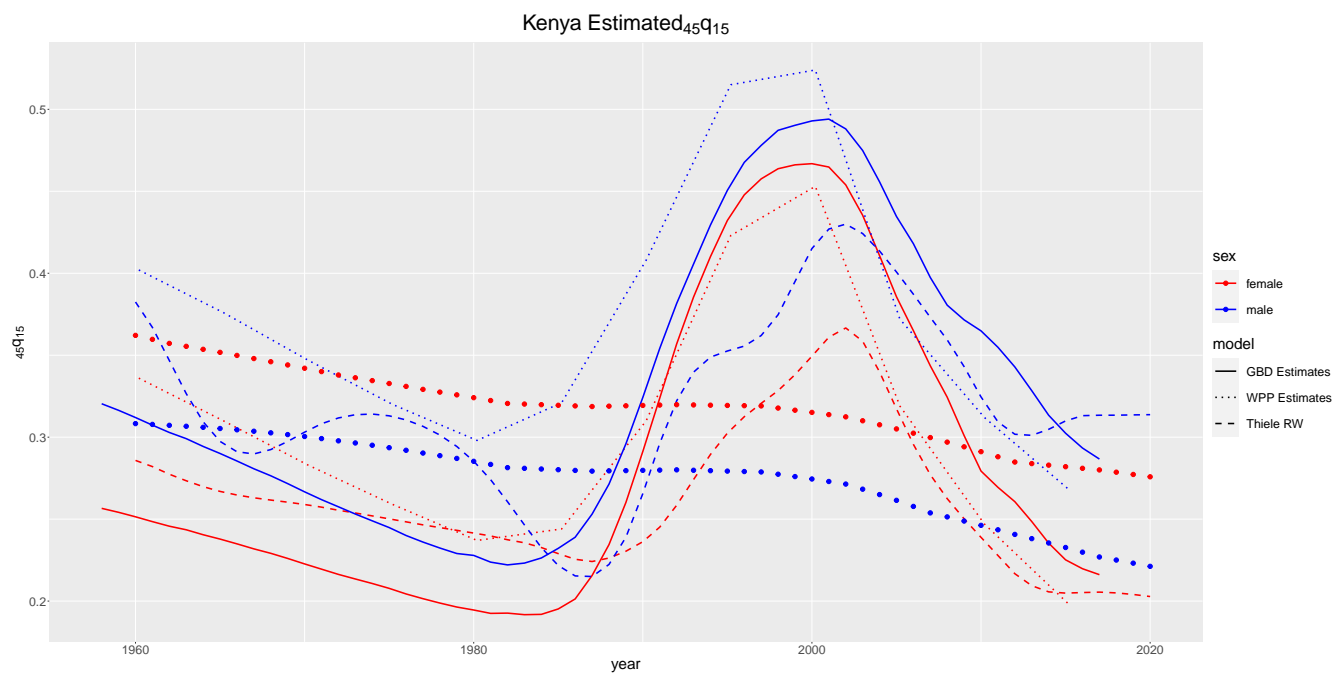


Figure 2: Estimated  $_{45}q_{15}$

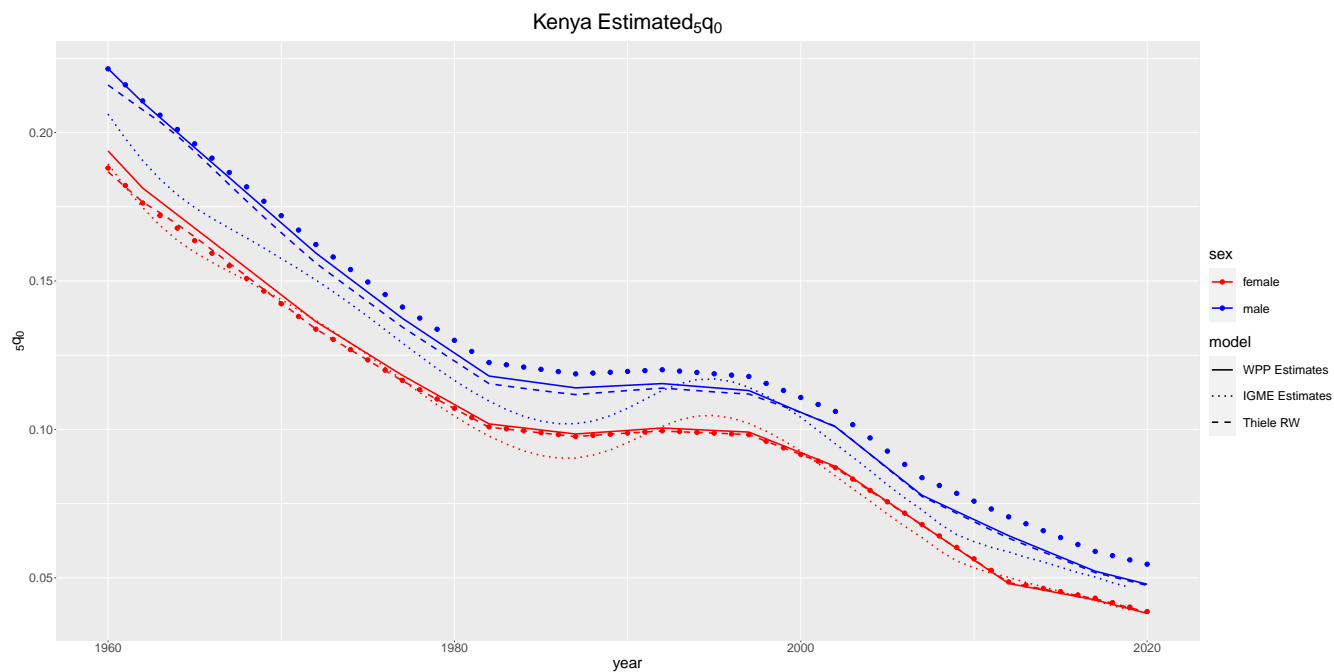


Figure 3: Estimated  ${}_5q_0$

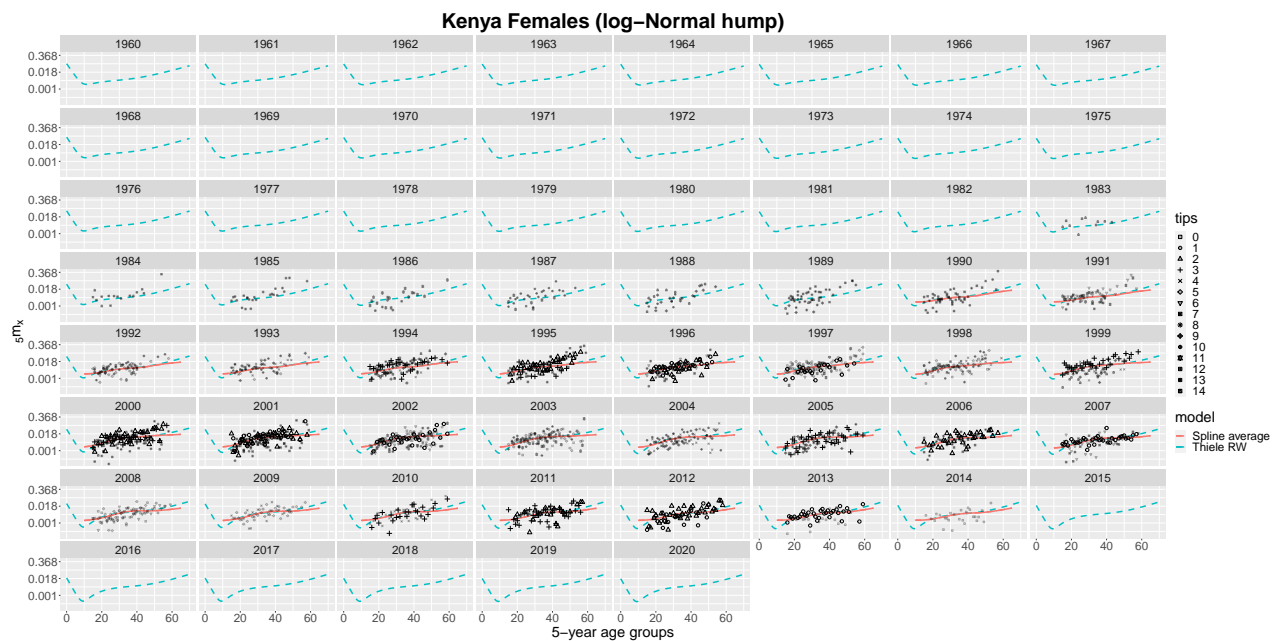


Figure 4: Mortality Schedules

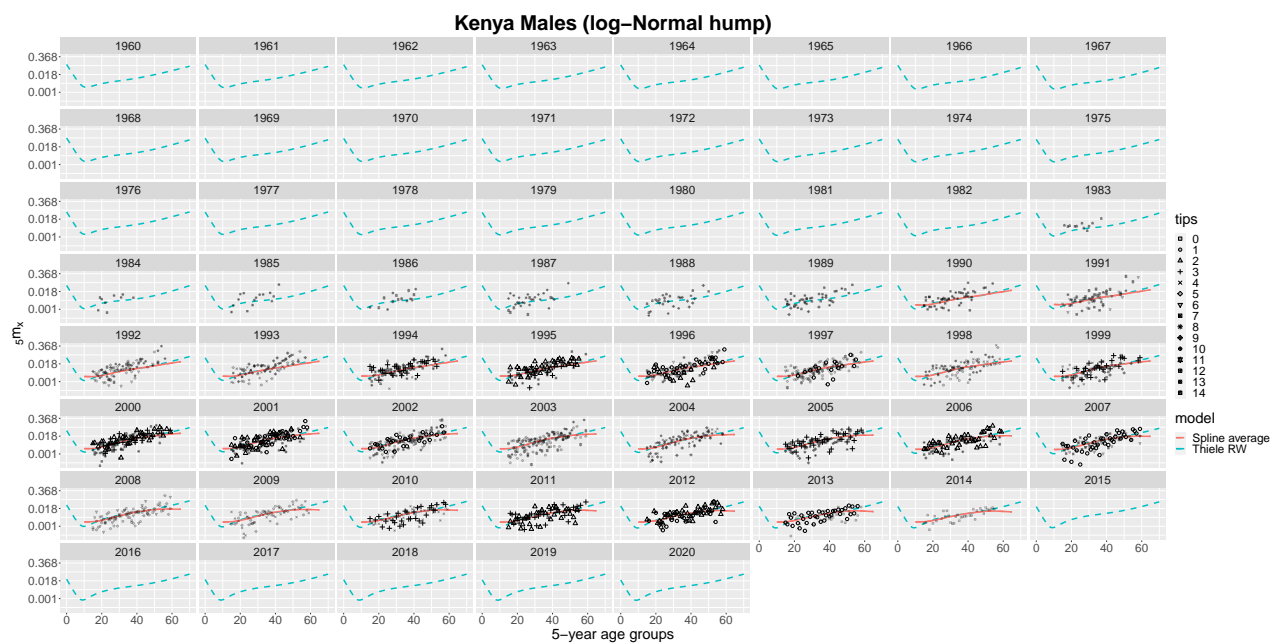


Figure 5: Mortality Schedules

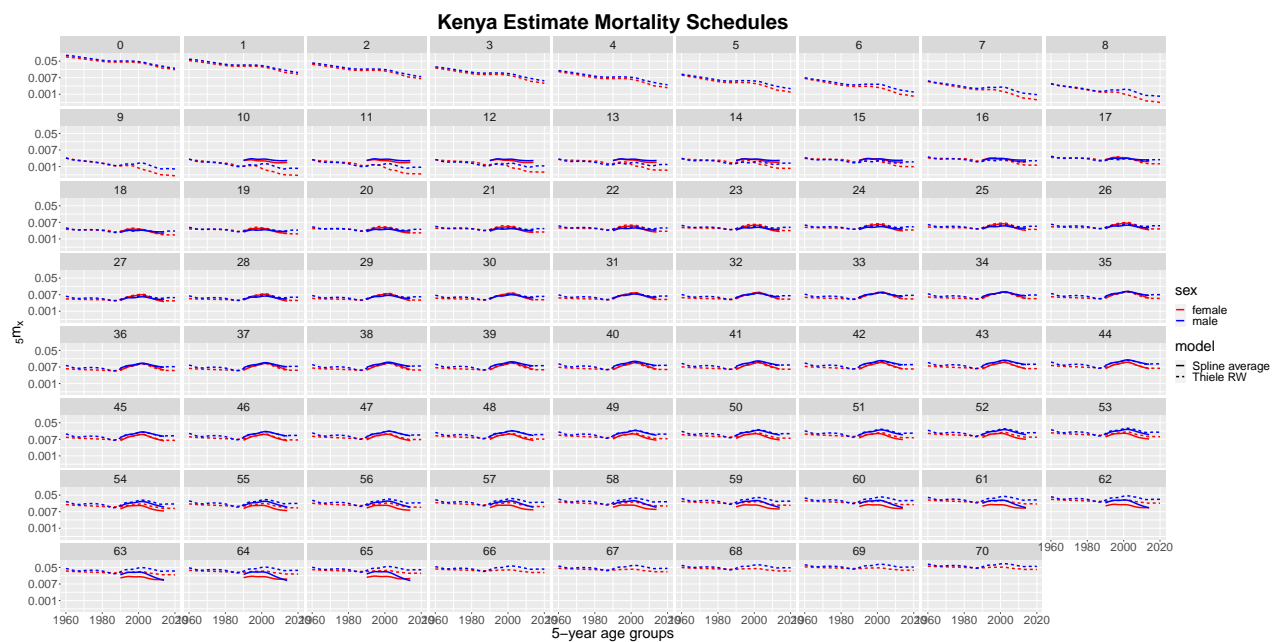


Figure 6: Mortality Schedules

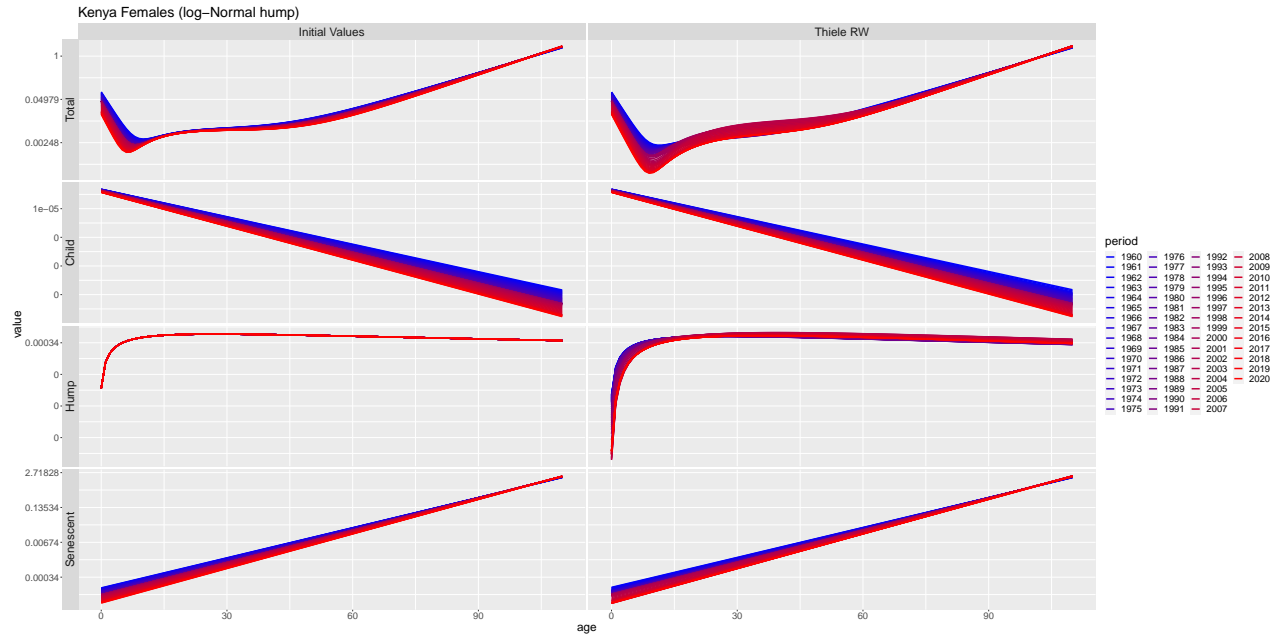


Figure 7: Thiele Decomposed

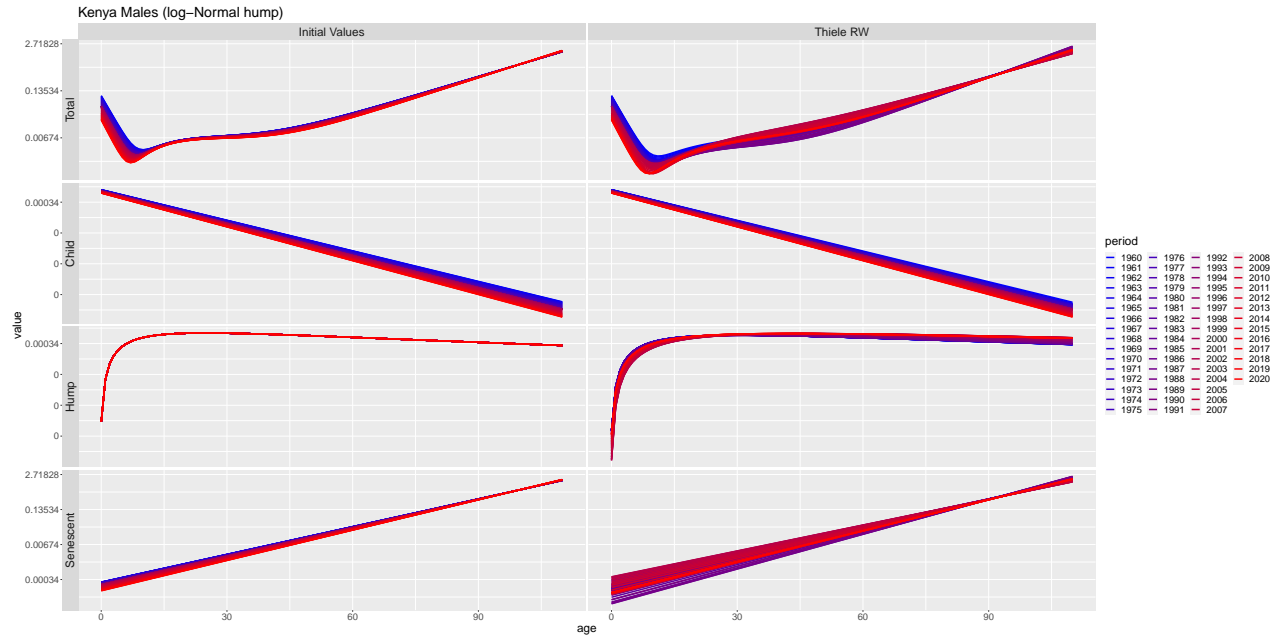


Figure 8: Thiele Decomposed

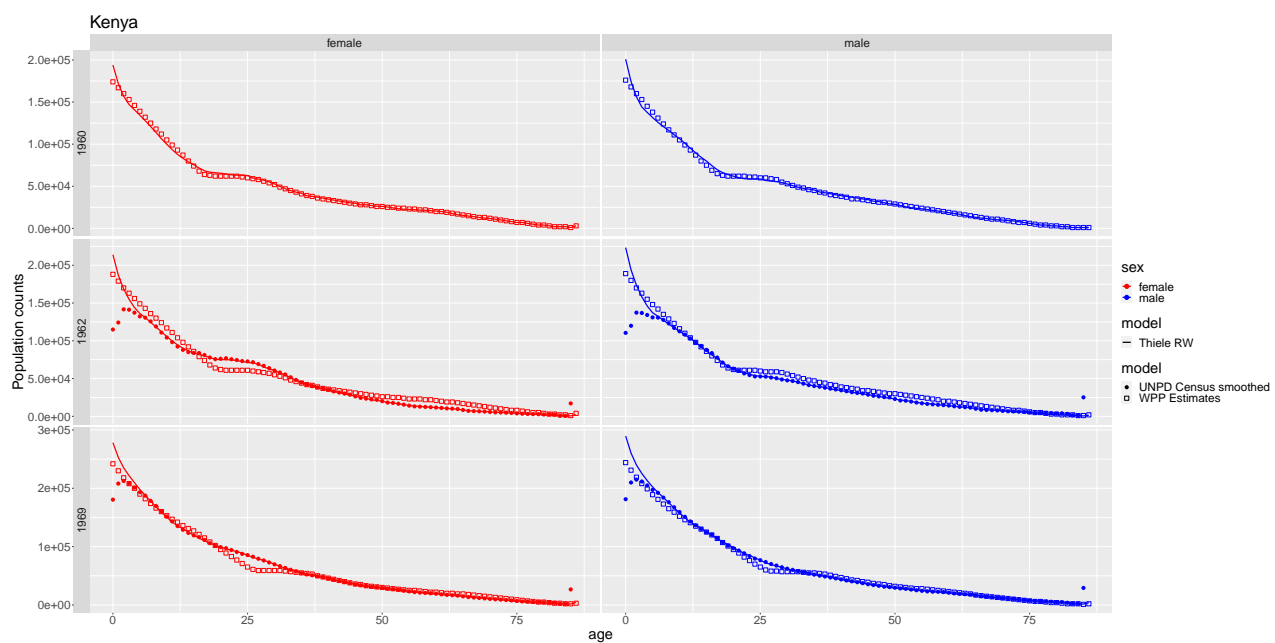


Figure 9: Population



Figure 10: Population



Figure 11: Population

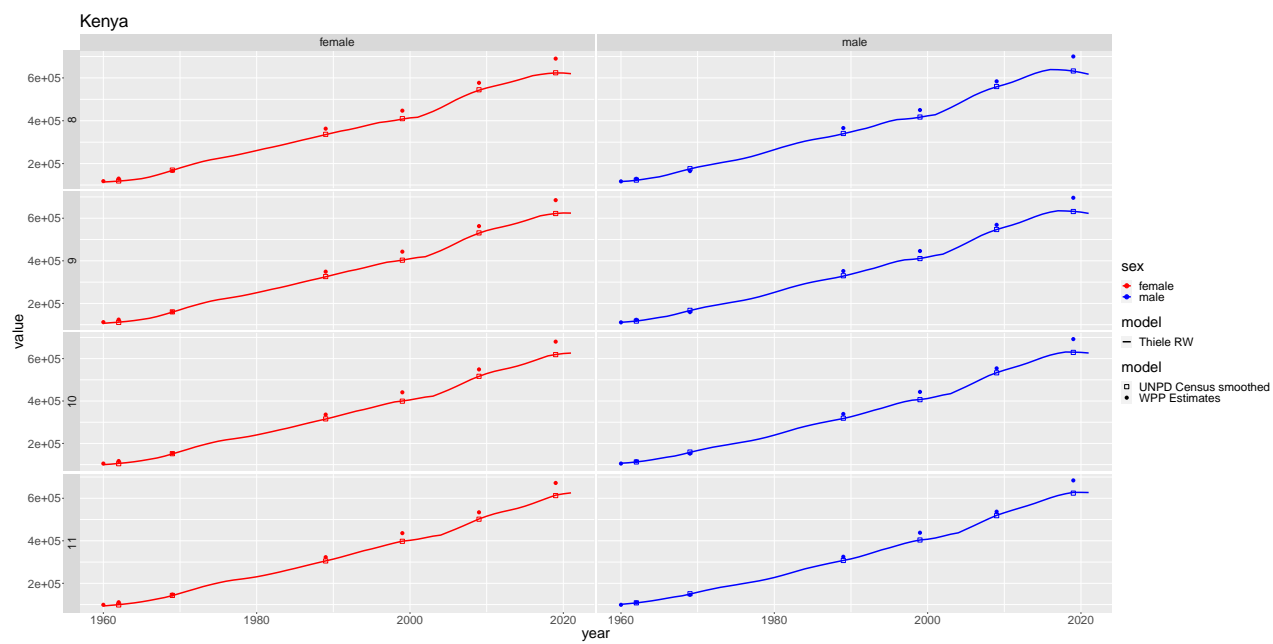


Figure 12: Population



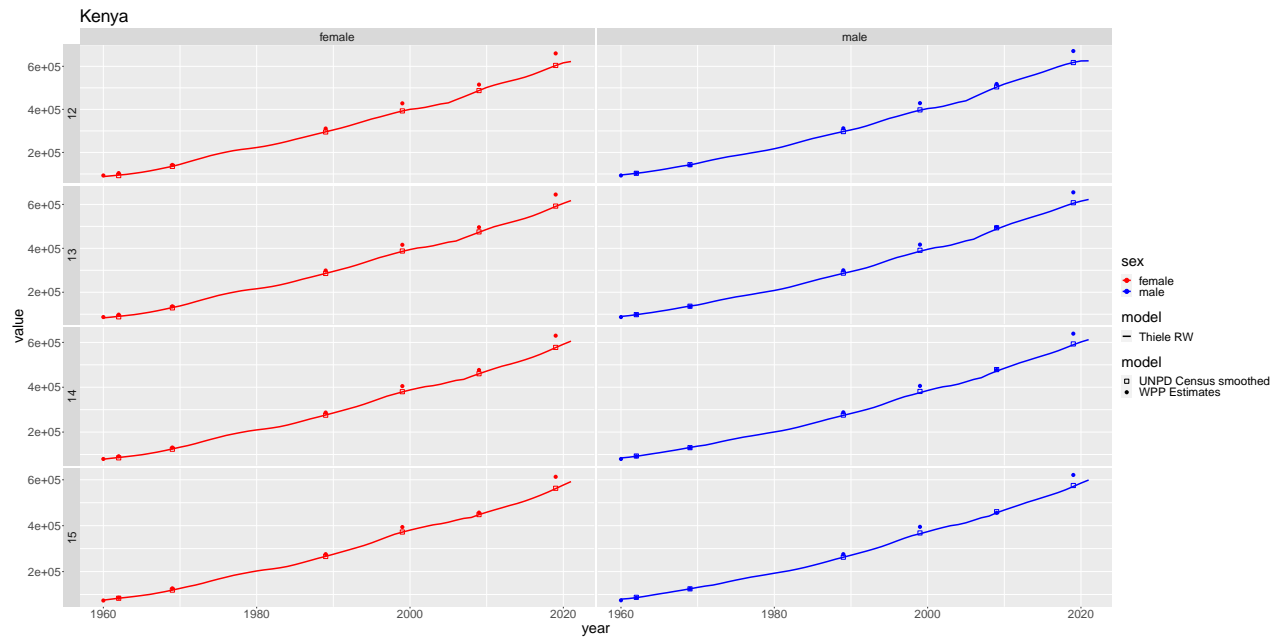


Figure 13: Population

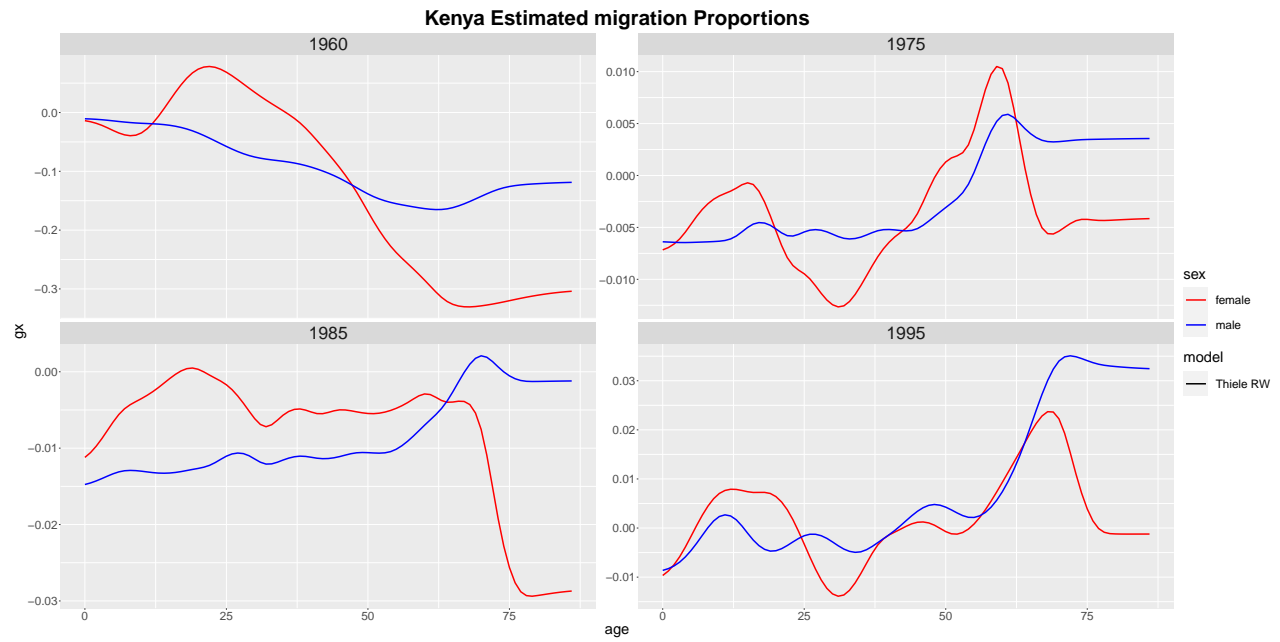


Figure 14: Migration

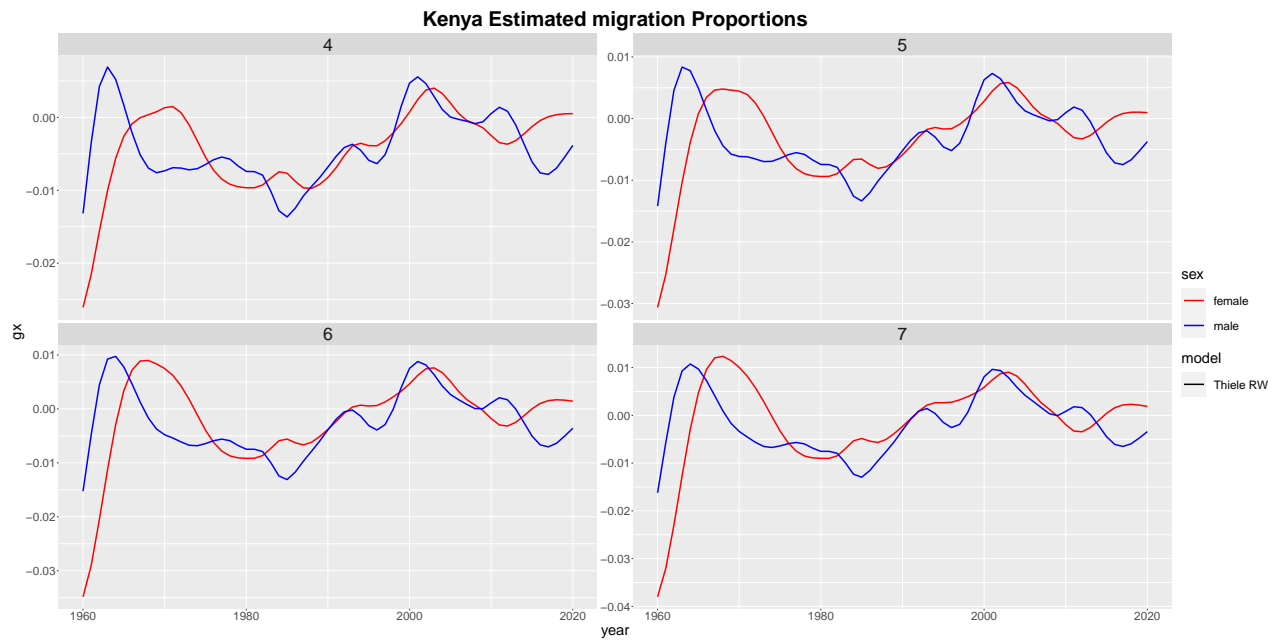


Figure 15: Migration

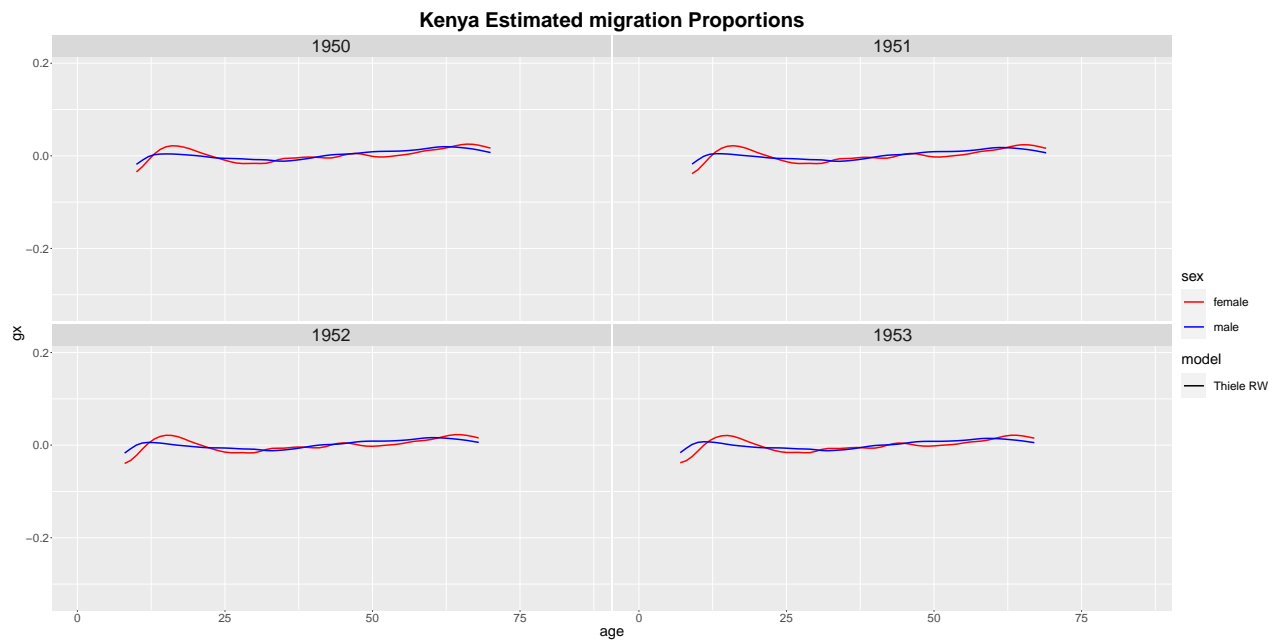


Figure 16: Migration

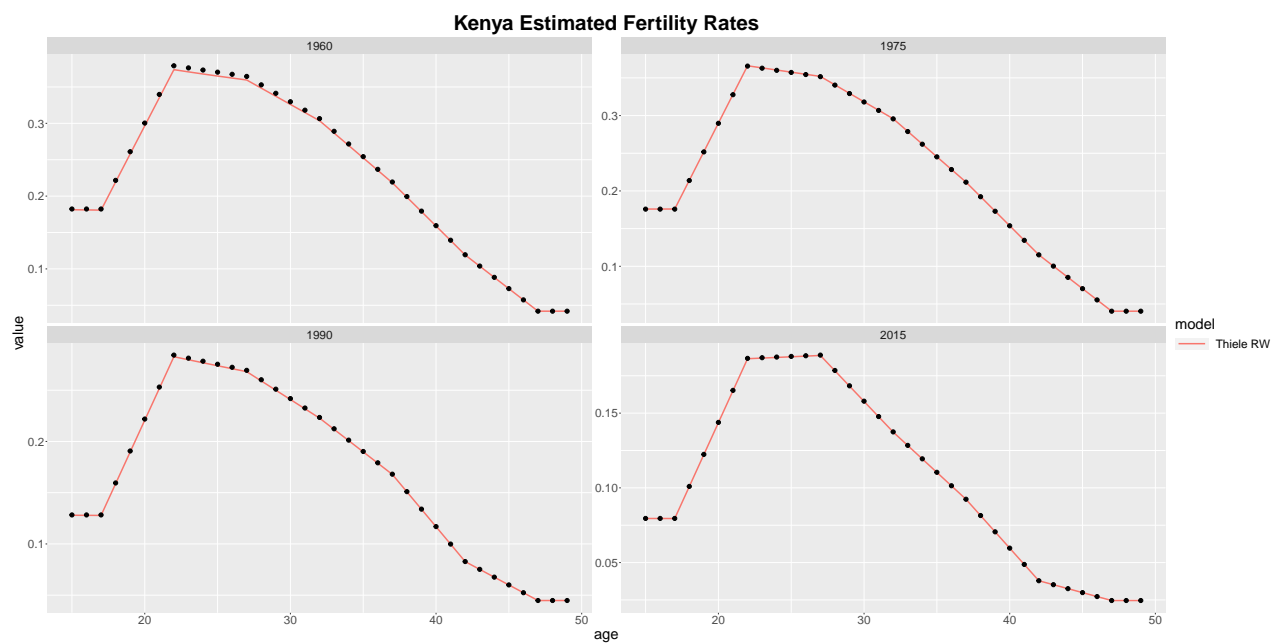


Figure 17: Fertility

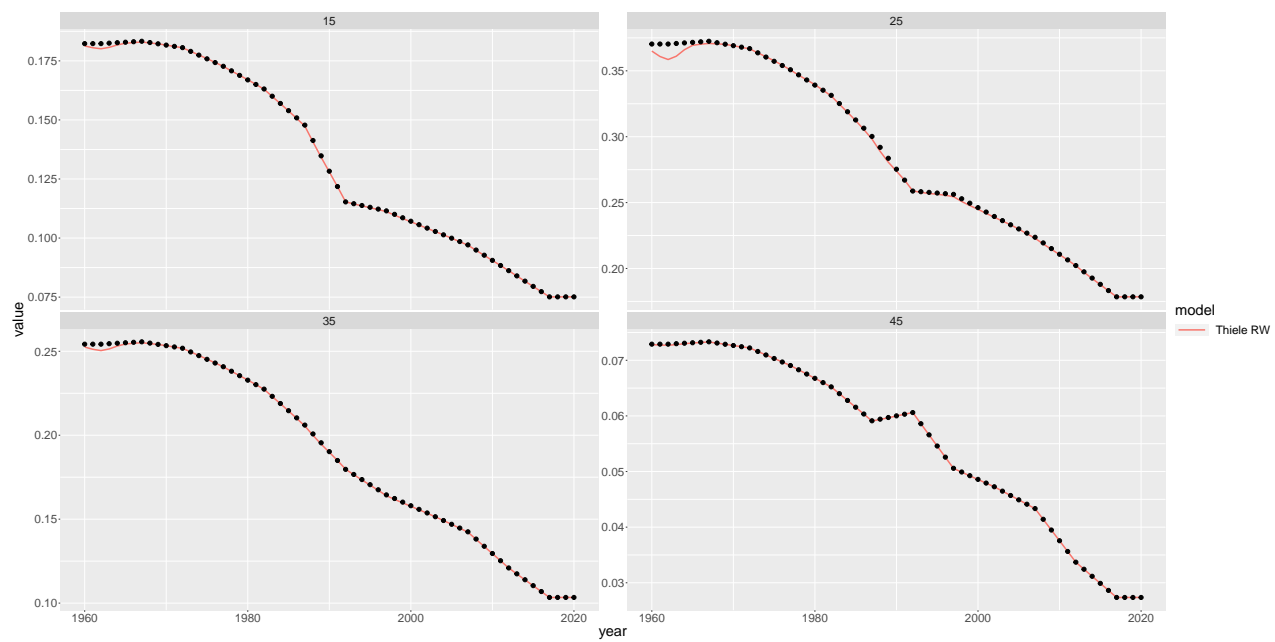


Figure 18: Fertility

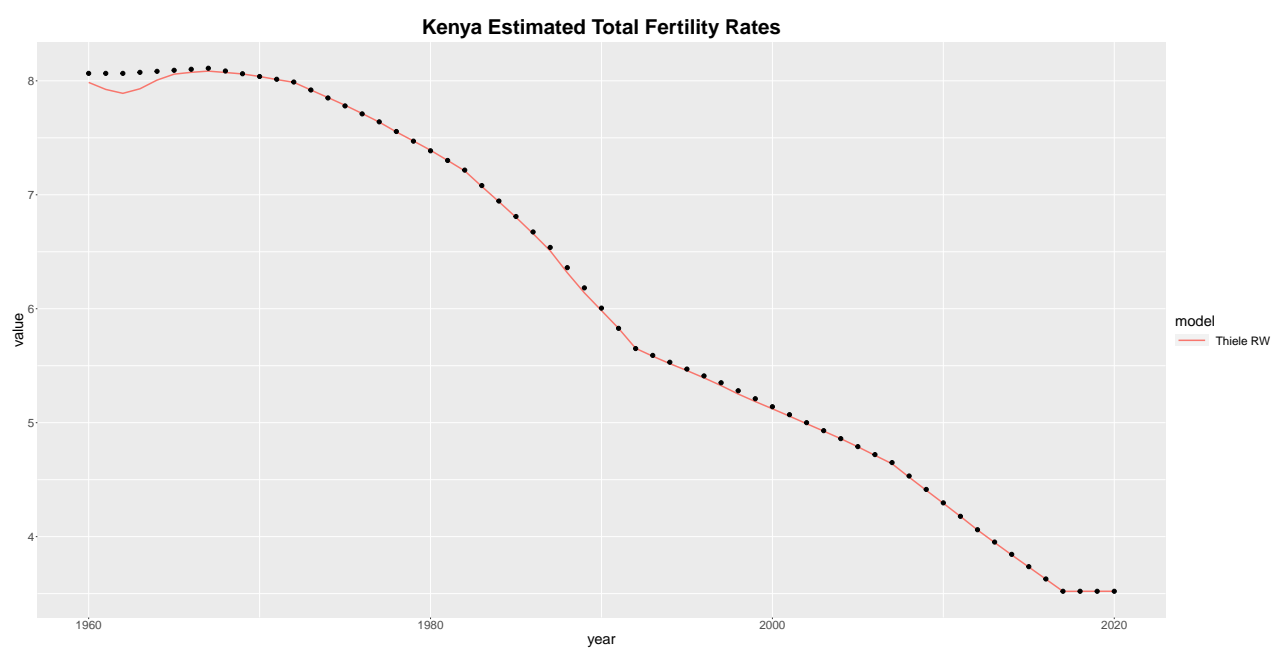


Figure 19: Total Fertility