

Burkina Faso

[1] "Census Females"

A tibble: 18 x 5

##	aggr.age	`1975`	`1985`	`1996`	`2006`
##	*	<dbl>	<dbl>	<dbl>	<dbl>
## 1	0	479362.	730674.	878880	1213119.
## 2	5	417499.	655082.	829526	1088934.
## 3	10	327051.	501749.	692800.	904373.
## 4	15	262454.	384257.	548244	762122.
## 5	20	237211.	330693.	446104.	662654.
## 6	25	221469.	287343.	378176.	555137.
## 7	30	189966.	240637.	322164.	448084.
## 8	35	154009.	202338.	265959.	363978.
## 9	40	126640.	172337.	215769.	299080.
## 10	45	103550.	145369.	175666.	240632.
## 11	50	83233.	120961.	144223.	190845.
## 12	55	63930.	100543.	116654.	151585.
## 13	60	48696.	83755.	94266.	120665.
## 14	65	35645.	63754.	73728.	92136.
## 15	70	25876.	44256.	54514.	67405.
## 16	75	17660.	23964.	35828.	45489.
## 17	80	10821.	41087.	20043.	27411.
## 18	85	13098.	NA	47060.	30478.

[1] "Census Males"

A tibble: 18 x 5

##	aggr.age	`1975`	`1985`	`1996`	`2006`
##	*	<dbl>	<dbl>	<dbl>	<dbl>
## 1	0	498118.	733218.	889544	1236779.
## 2	5	454940.	669057.	855549.	1126534.
## 3	10	367257.	523028.	715078.	926371.
## 4	15	275547.	382357.	528713.	716367.
## 5	20	209858.	280615.	374910.	557683.
## 6	25	175866.	213548.	290199.	449918.
## 7	30	155352.	179190.	247737	370217.
## 8	35	135026.	156844.	208632.	304022.
## 9	40	116652.	138100.	174343.	249630.
## 10	45	101729.	123349.	147644.	202625.
## 11	50	88268.	108827.	125516.	165785.
## 12	55	72765.	93619.	106586.	136170.
## 13	60	56927.	78774.	89198.	109332.
## 14	65	41731.	60247.	70396	84418.
## 15	70	30718.	40187.	51780.	61603.
## 16	75	20445.	21680.	33238.	40173.
## 17	80	10919.	27286.	17172.	22717.
## 18	85	16960.	NA	38154.	20701.

Thiele Normal Hump

##	user	system	elapsed
##	77.57	1.05	79.44

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

Thiele log-Normal Hump

```
##      user  system elapsed
```

```
##  74.81    0.64   75.91
```

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

Thiele Normal Hump (Pop 5-9 to 70-74, DHS 15-19 to 45-49)

```
##      user  system elapsed
```

```
##  71.05    0.80   72.25
```

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

Thiele log-Normal Hump (Pop 5-9 to 70-74, DHS 15-19 to 45-49)

```
##      user  system elapsed
```

```
##  71.00    0.65   72.36
```

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

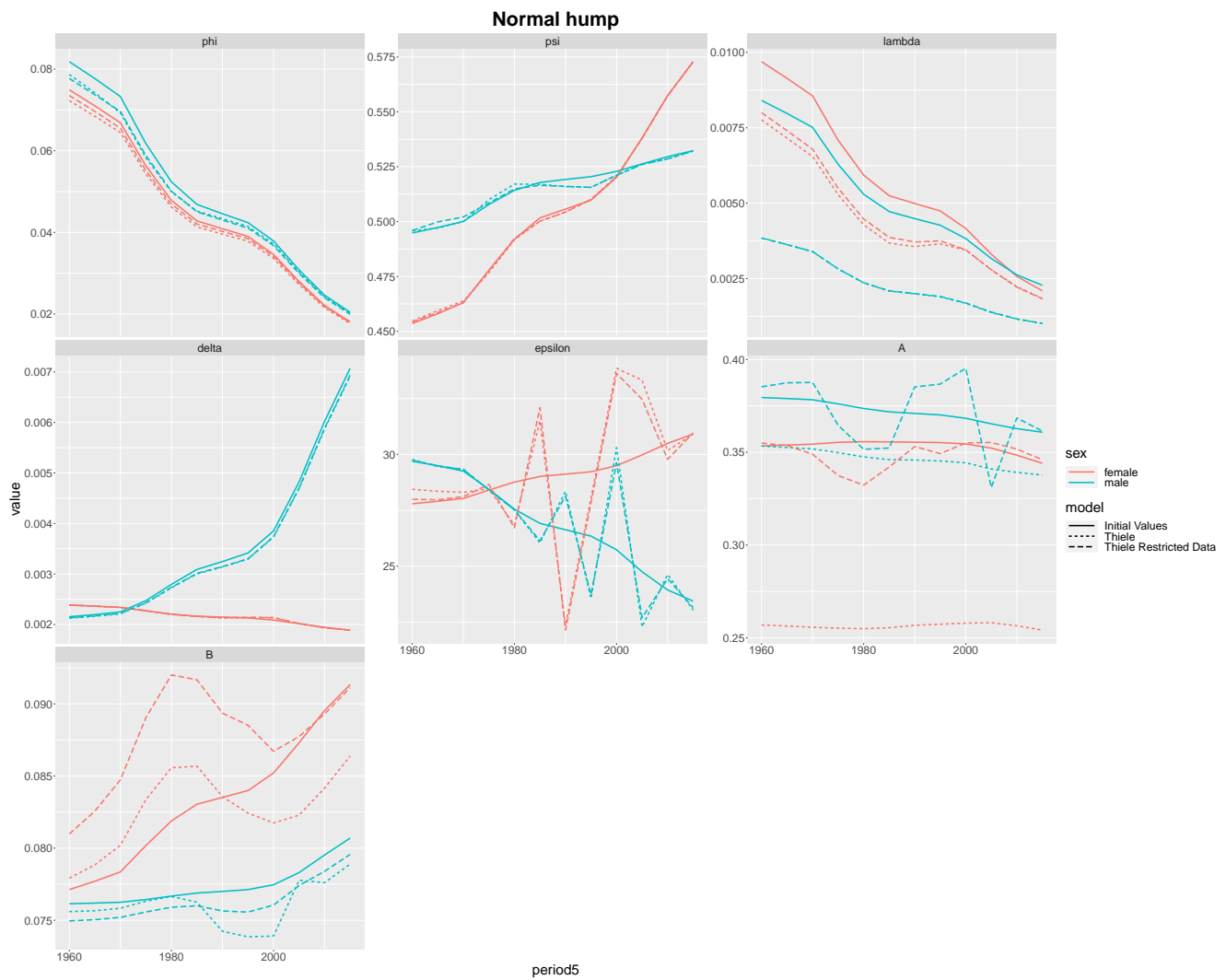


Figure 1: Estimated parameters

```
## Using Sex as id variables
## Using Sex as id variables

## Warning: Removed 4 rows containing missing values (geom_point).
## Warning: Removed 4 rows containing missing values (geom_point).
## Warning: Removed 4 rows containing missing values (geom_point).
## Warning: Removed 4 rows containing missing values (geom_point).
## Warning: Removed 4 rows containing missing values (geom_point).
```



Figure 2: Estimated parameters



Figure 3: Estimated $_{45}q_{15}$

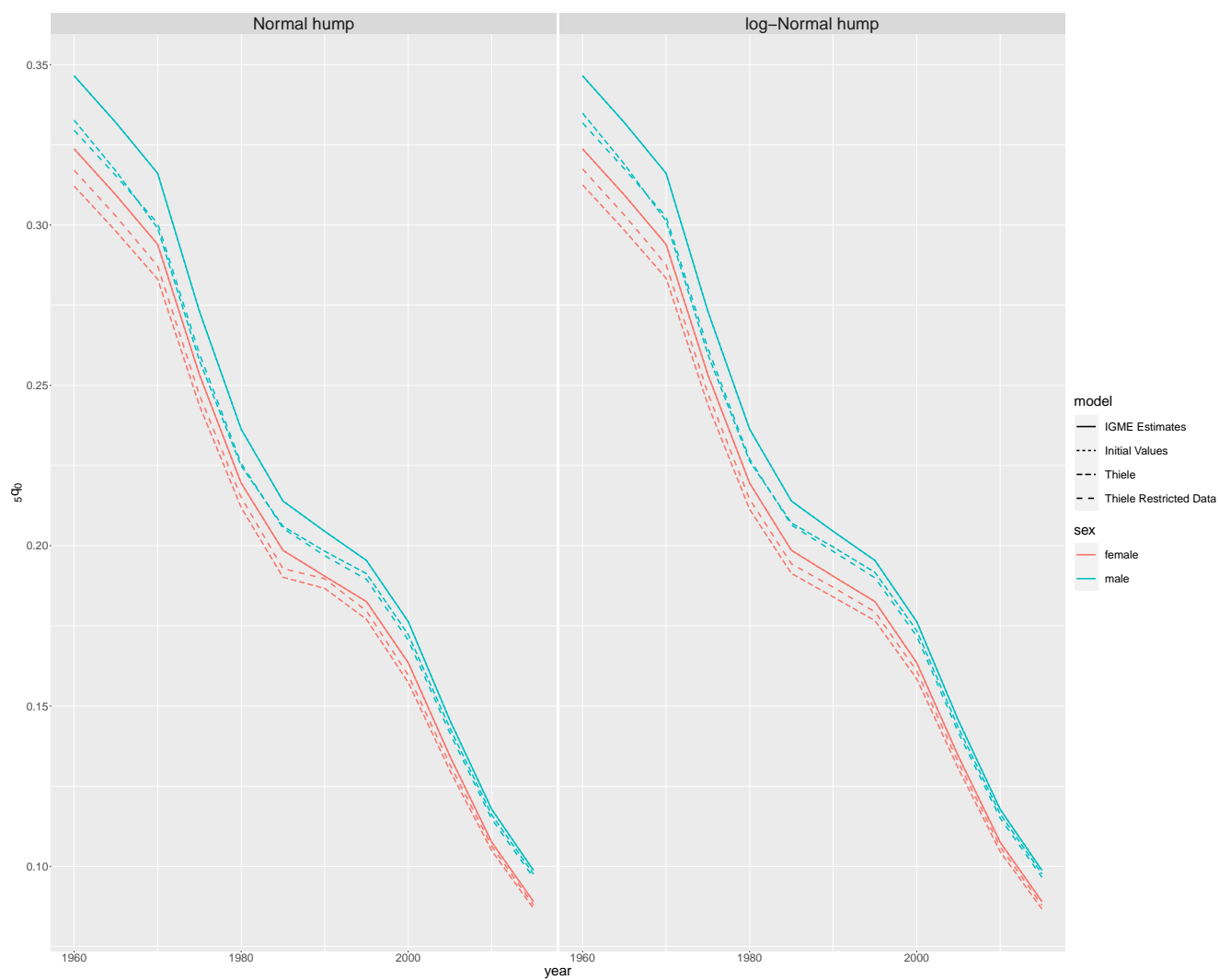


Figure 4: Estimated ${}_5q_0$

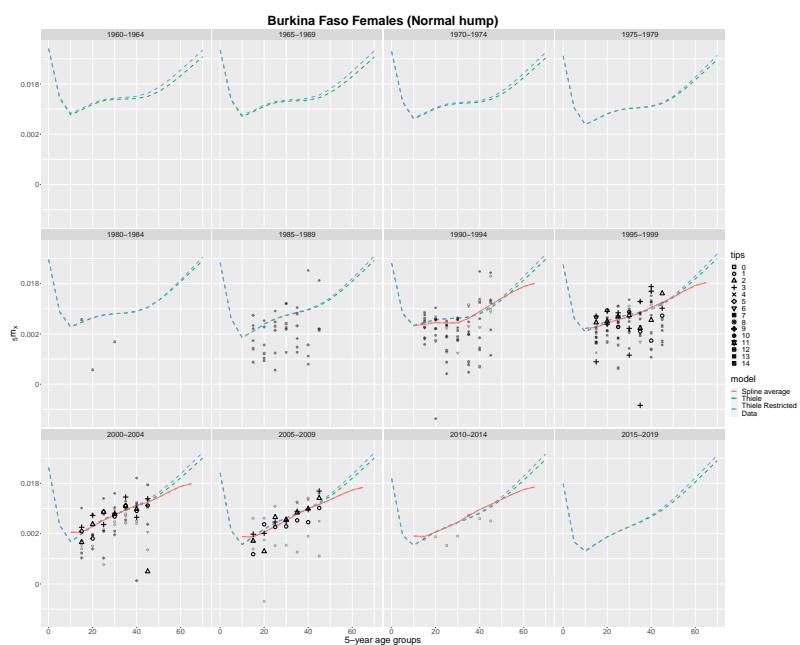


Figure 5: Mortality Schedules

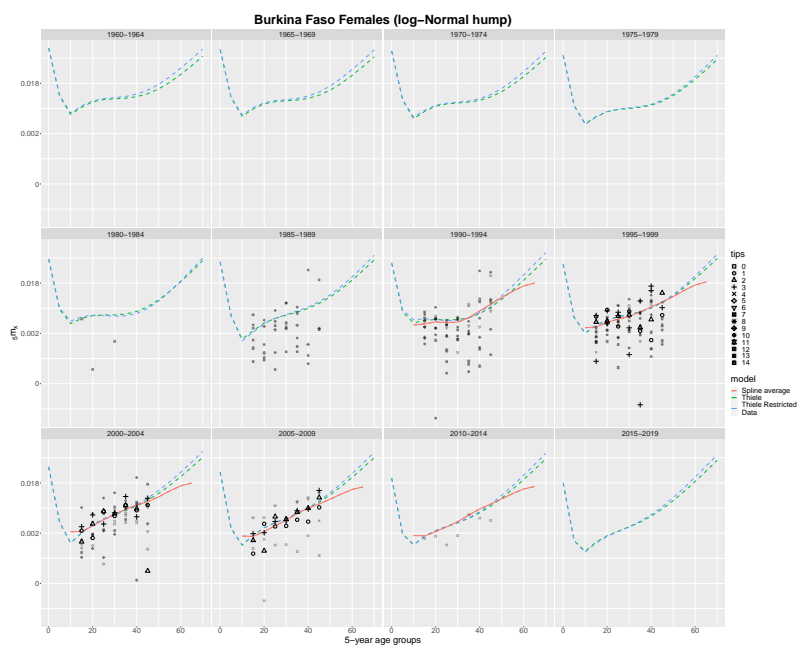


Figure 6: Mortality Schedules

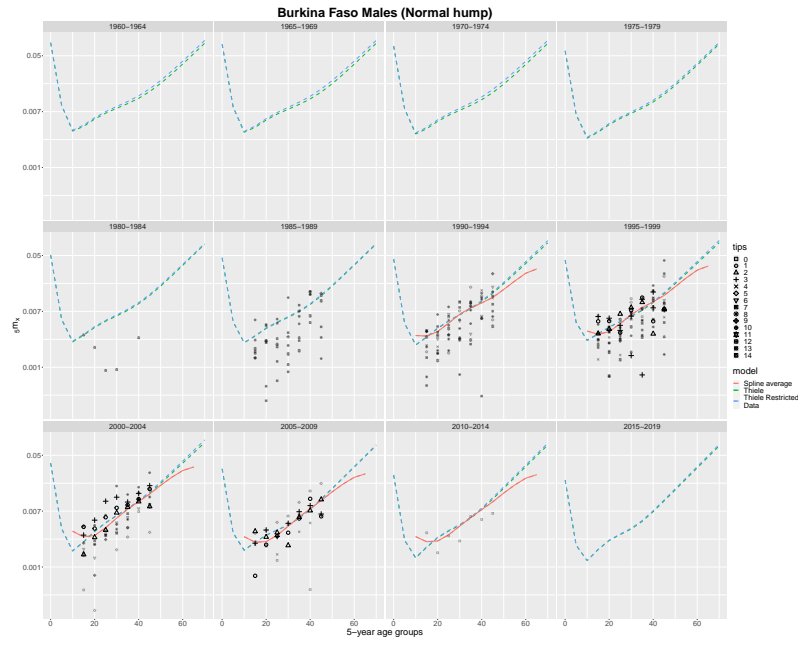


Figure 7: Mortality Schedules

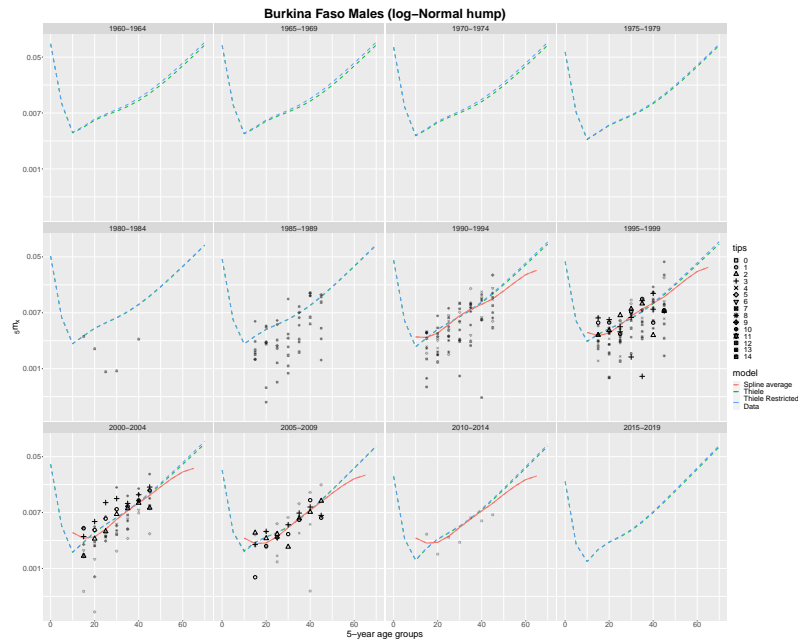


Figure 8: Mortality Schedules

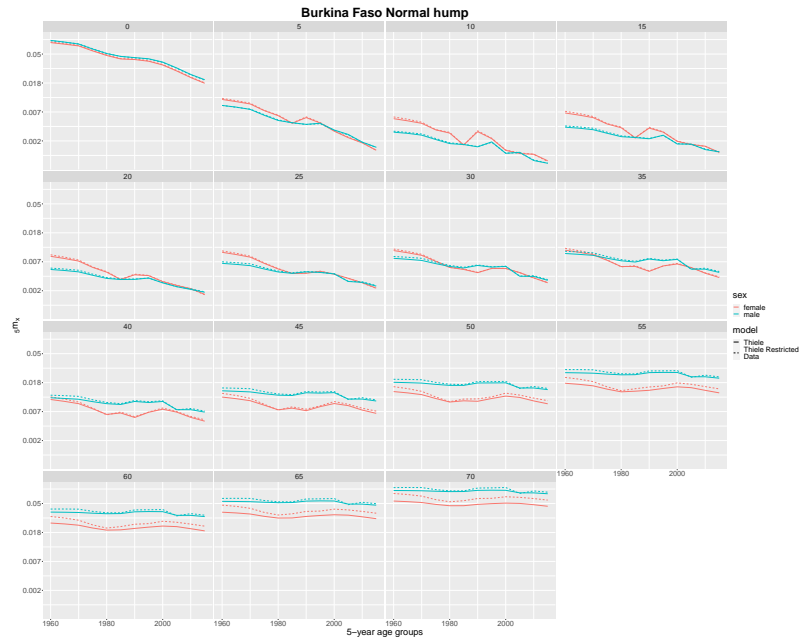


Figure 9: Mortality Schedules

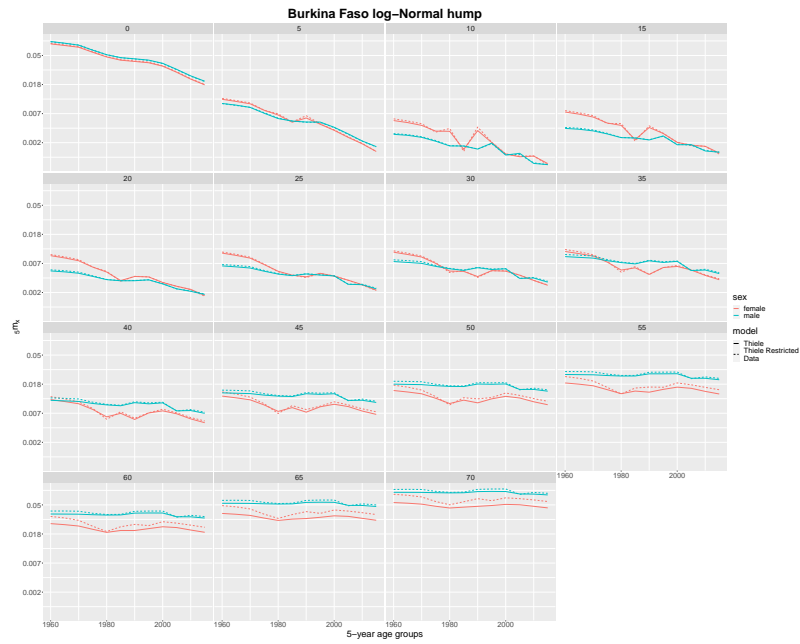


Figure 10: Mortality Schedules

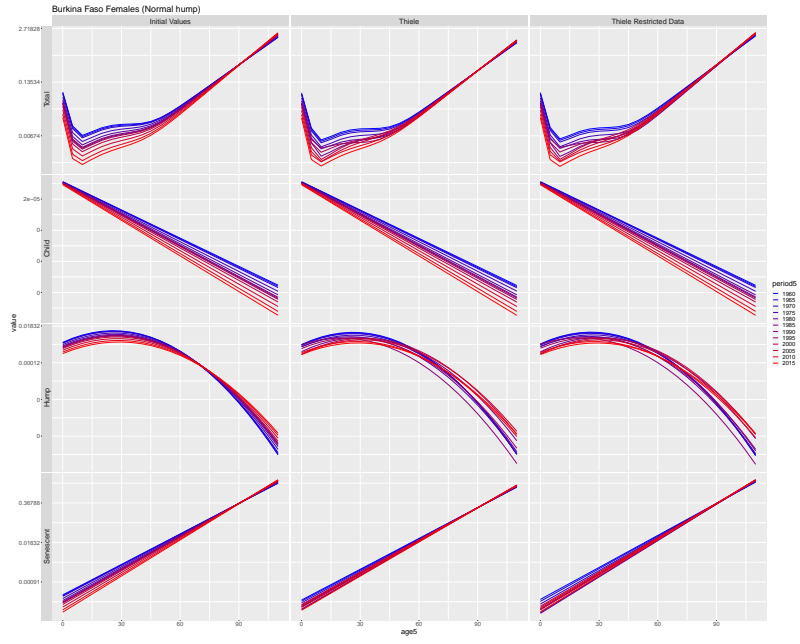


Figure 11: Thiele Decomposed

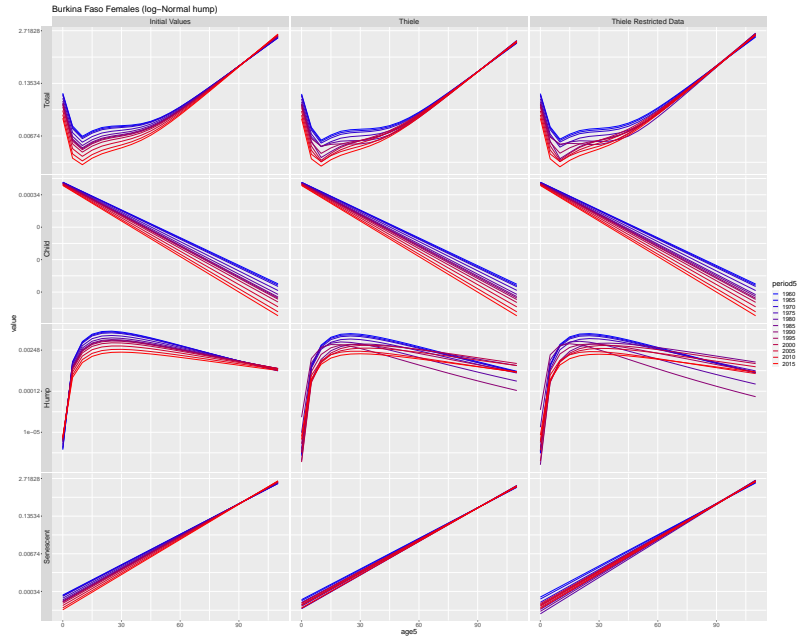


Figure 12: Thiele Decomposed

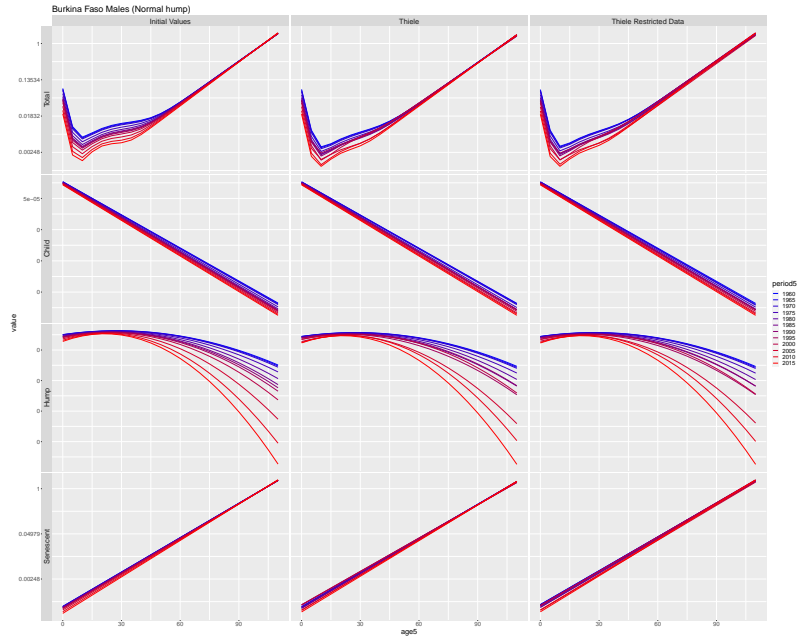


Figure 13: Thiele Decomposed

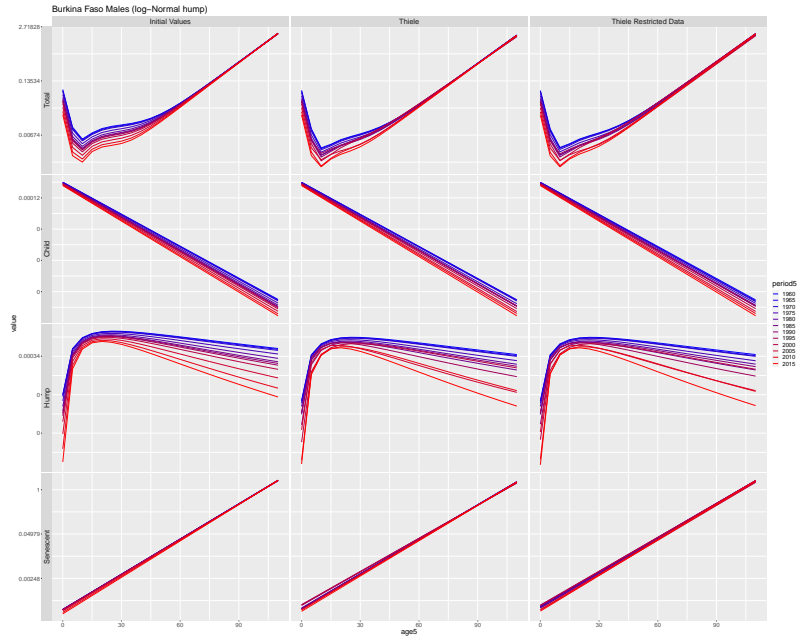


Figure 14: Thiele Decomposed

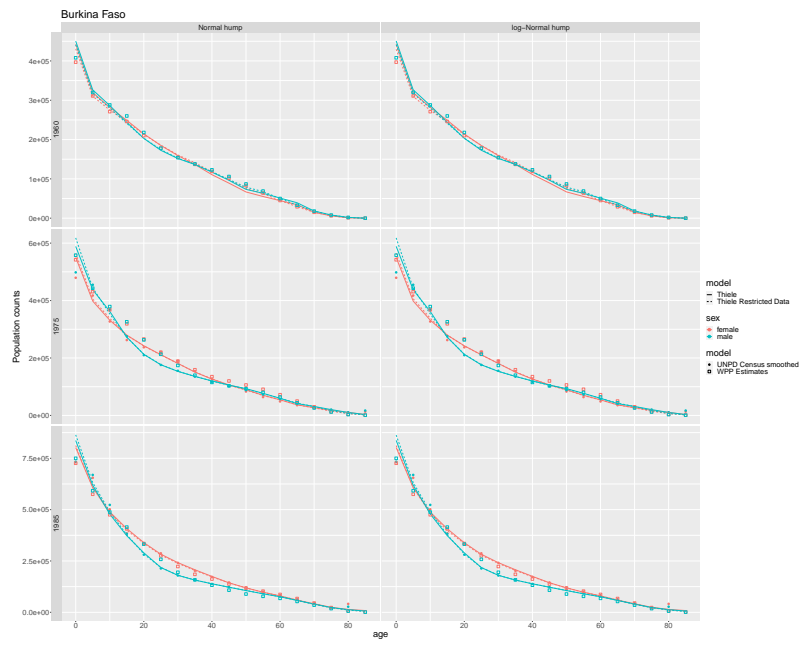


Figure 15: Population

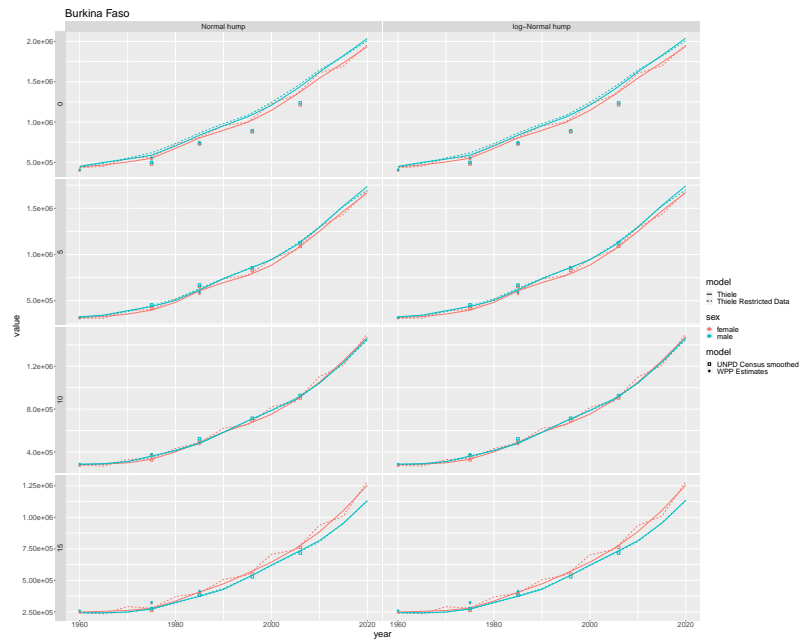


Figure 16: Population

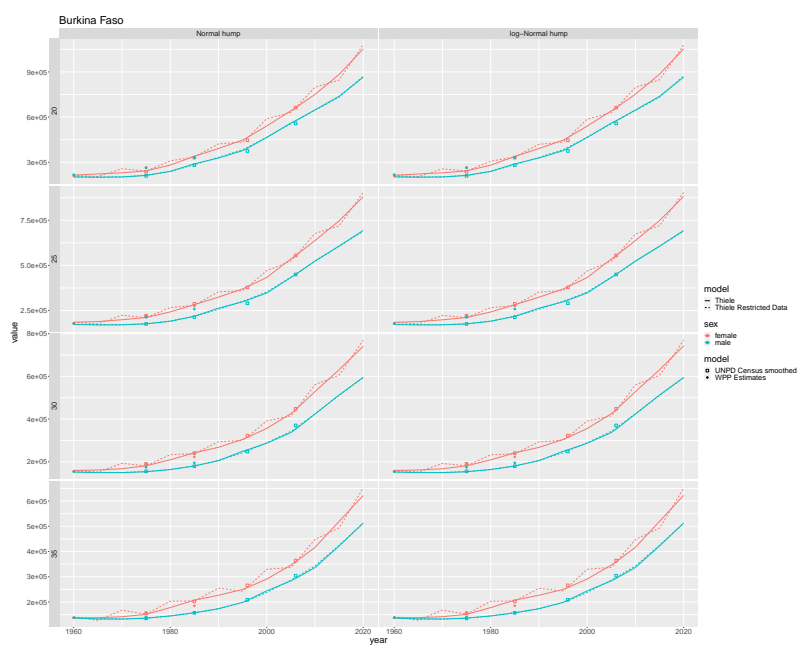


Figure 17: Population

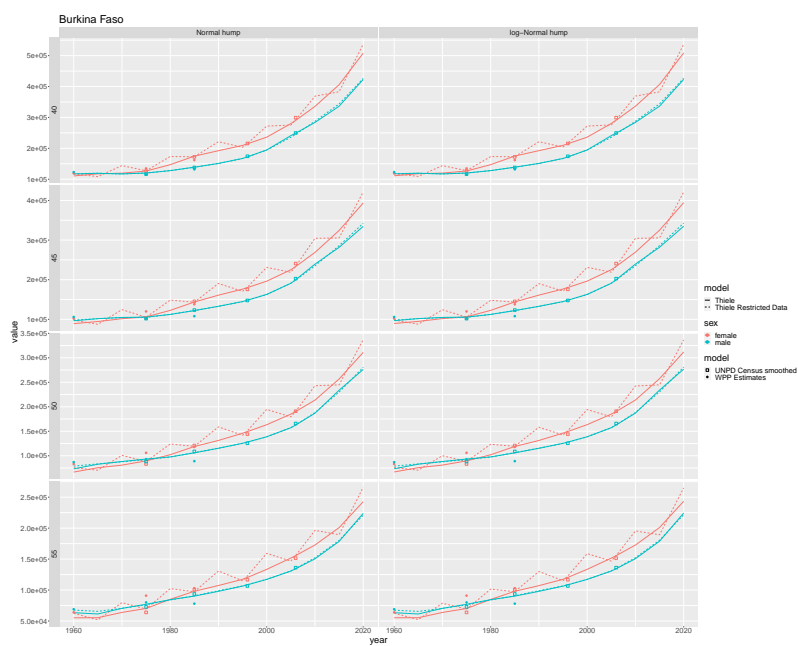


Figure 18: Population

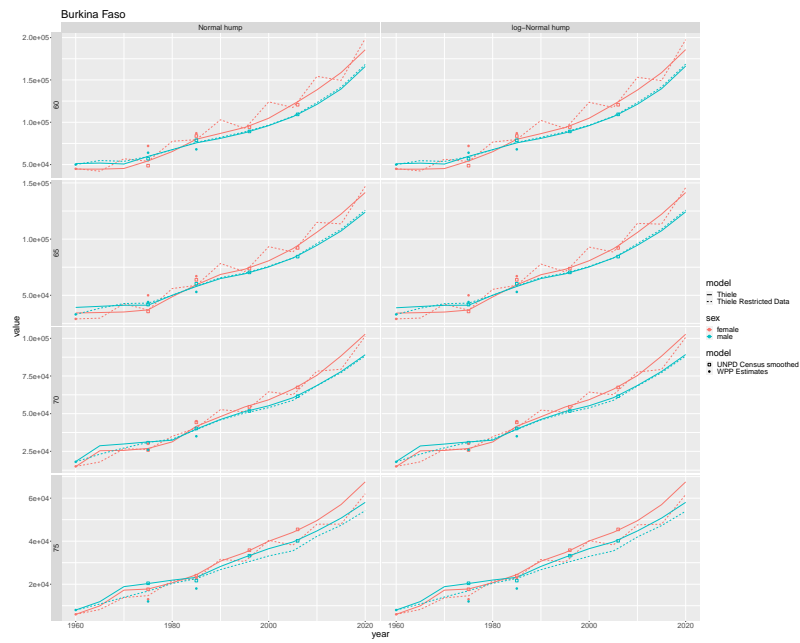


Figure 19: Population

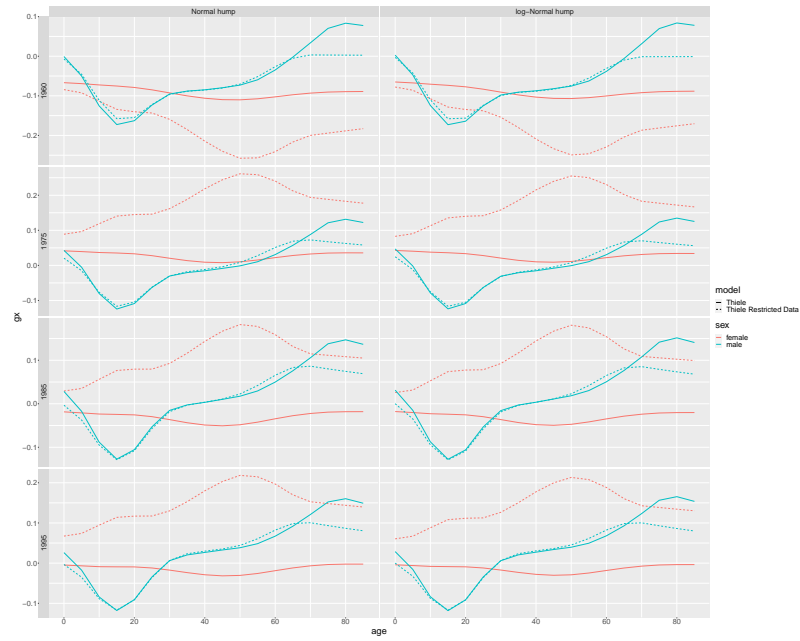


Figure 20: Migration

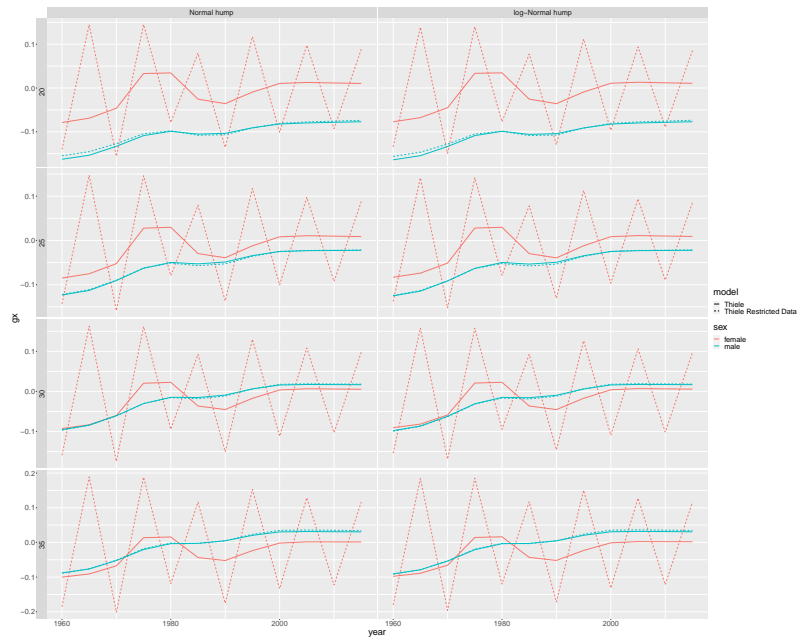


Figure 21: Migration

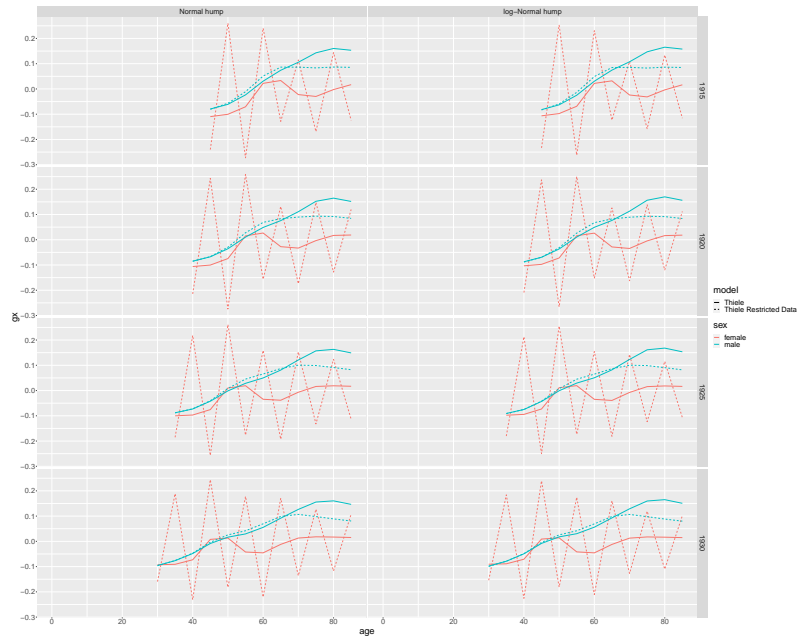


Figure 22: Migration

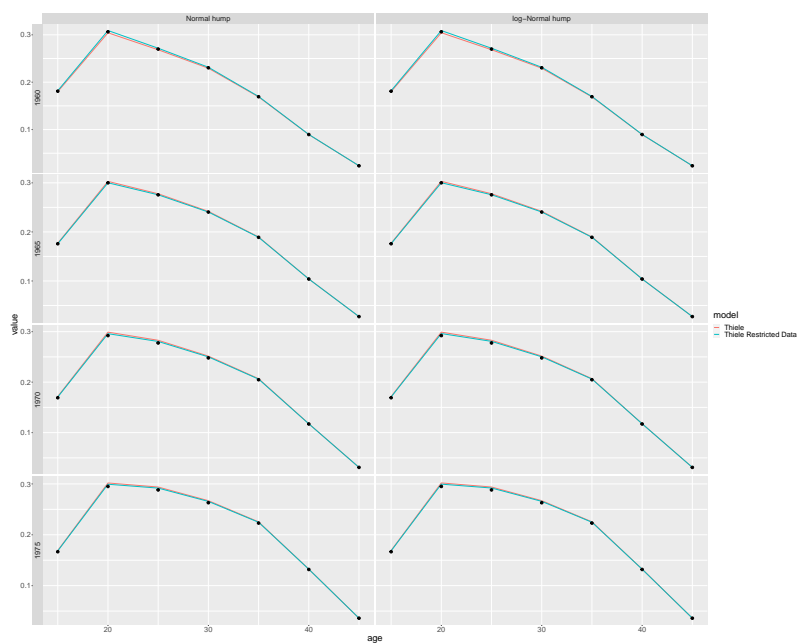


Figure 23: Fertility

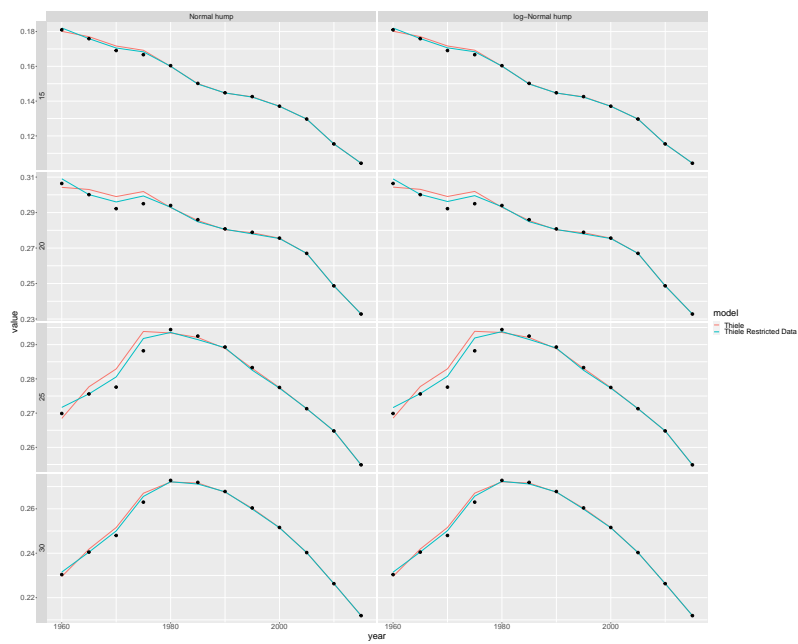


Figure 24: Fertility