Cote d'Ivoire

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

## # A tibble: 18 x 4
##    aggr.age   `1975`    `1988`    `2014`
## *     <dbl>    <dbl>     <dbl>     <dbl>
## 1         0 621138. 1046985. 1784869.
## 2         5 492509.  830083. 1520933.
## 3        10 368542.  638771. 1261144.
## 4        15 316352.  545814. 1099778.
## 5        20 304252.  507866. 1064794.
## 6        25 276639.  437045. 1012909.
## 7        30 227829.  336423.  848101.
## 8        35 177208.  250658.  634792.
## 9        40 135509.  194050.  467558.
## 10       45 101617.  155443.  368570.
## 11       50  74754.  122787.  293861.
## 12       55  53300.   93078.  217269.
## 13       60  38404.   67803.  155691.
## 14       65  26807.   46244.  112287.
## 15       70  17664.   28278.   76841.
## 16       75  10813.   16458.   48695.
## 17       80   7739.    9897.   27932.
## 18       85   9920.   11300.   31437.

## [1] "Census Males"

## # A tibble: 18 x 4
##    aggr.age   `1975`    `1988`    `2014`
## *     <dbl>    <dbl>     <dbl>     <dbl>
## 1         0 636967. 1075950. 1902603.
## 2         5 523312.  865430. 1641441.
## 3        10 394231.  656646. 1373912.
## 4        15 319030.  526637. 1141588.
## 5        20 302633.  485830. 1029647.
## 6        25 280540.  443970.  981760.
## 7        30 237963.  368939.  890094.
## 8        35 199308.  288184.  738560.
## 9        40 166025.  221936.  569072.
## 10       45 132220.  178647.  433252.
## 11       50 100558.  145443.  333872.
## 12       55  73855.  112940.  250459.
## 13       60  51653.   83029.  181380.
## 14       65  33245.   56206.  124672.
## 15       70  20052.   32992.   79906.
## 16       75  10866.   17367.   48162.
## 17       80   5920.    8892.   26252.
## 18       85   8558.    7561.   29586.
```

Thiele log-Normal Hump RW

```
##    user  system elapsed
##   29.08    0.23   29.42
```
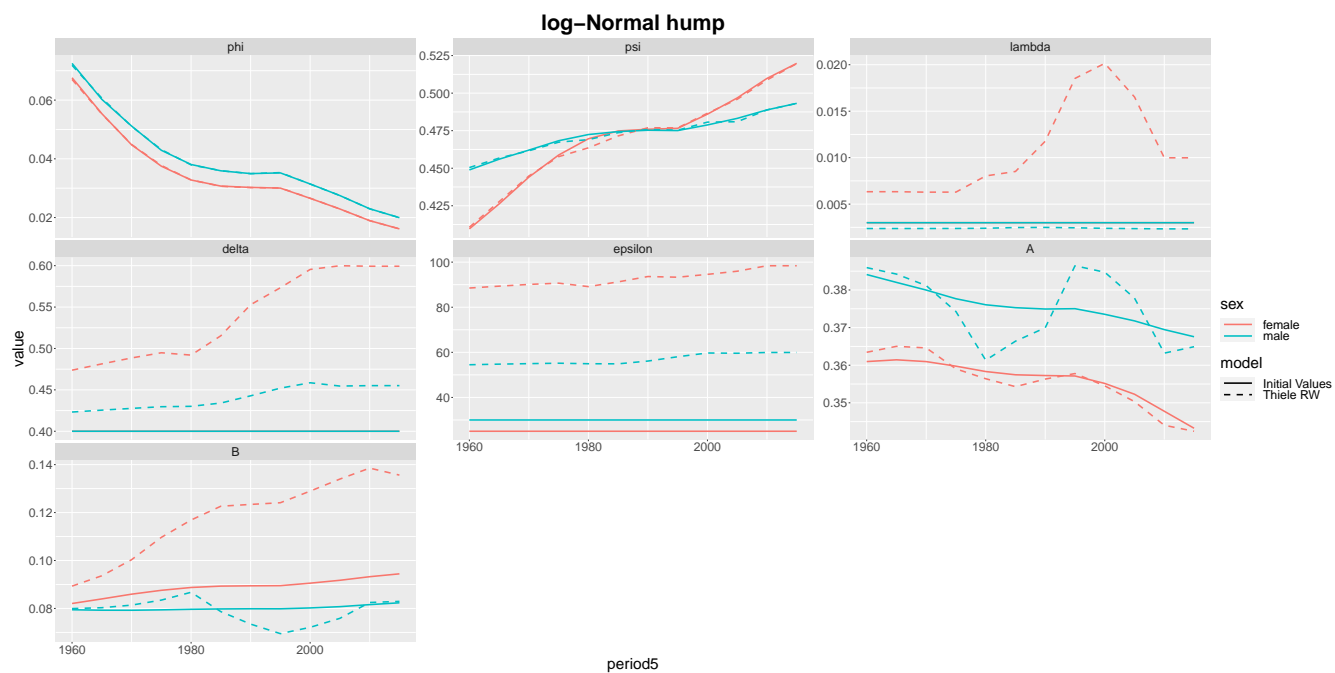
```
## [1] "relative convergence (4)"
```
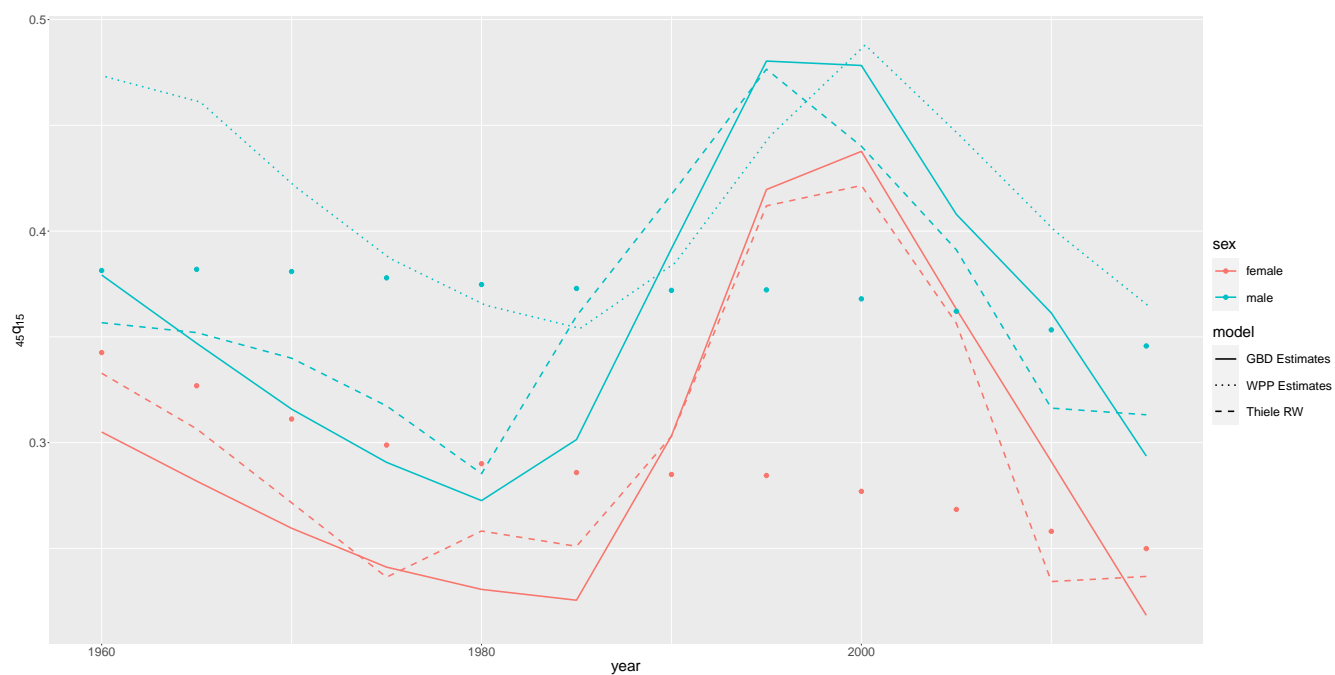
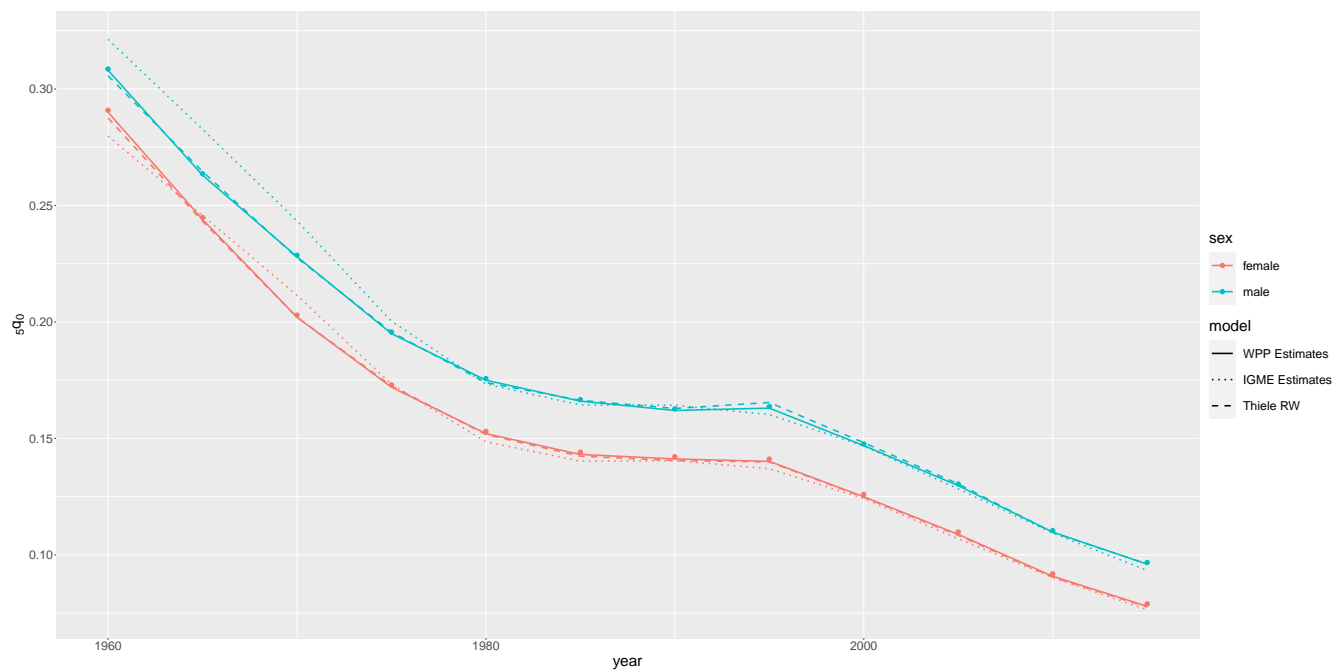Figure 1: Estimated parameters

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

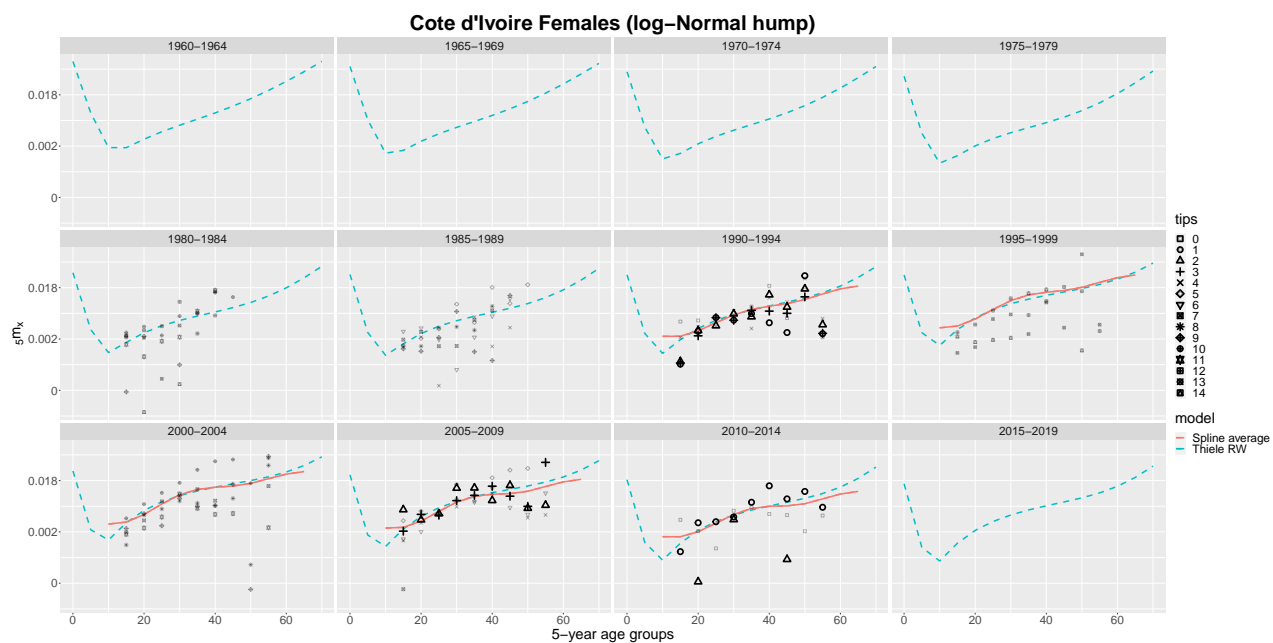Figure 3: Estimated $_{5}q_{0}$

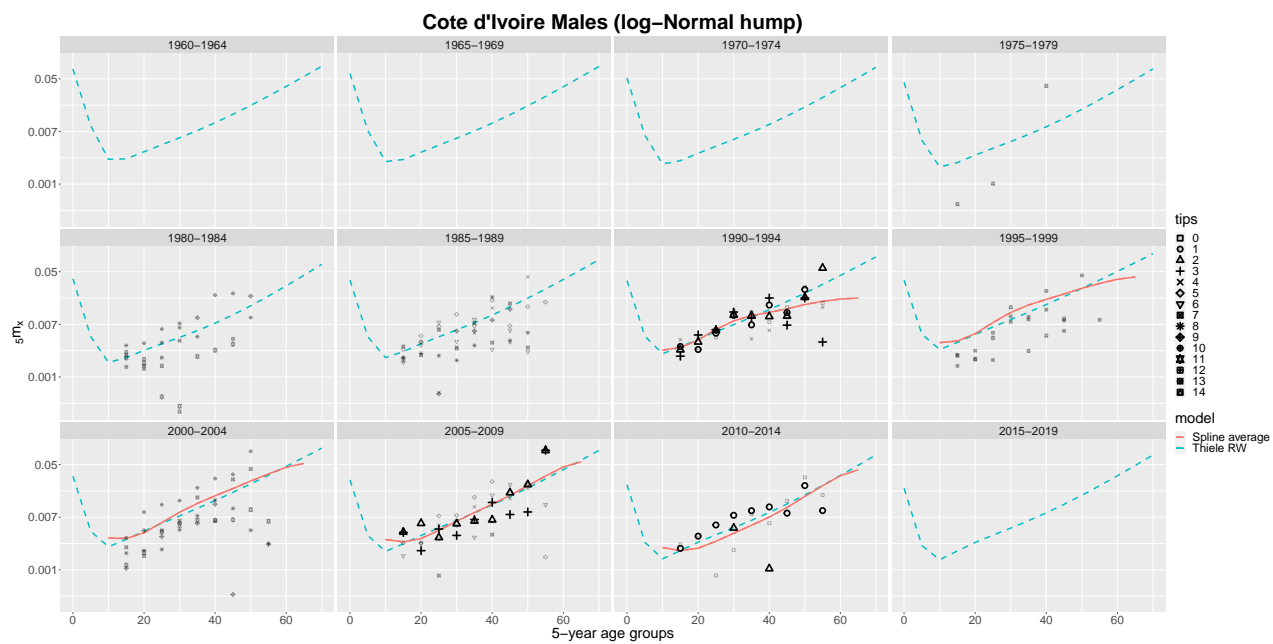Figure 4: Mortality Schedules

Figure 5: Mortality Schedules
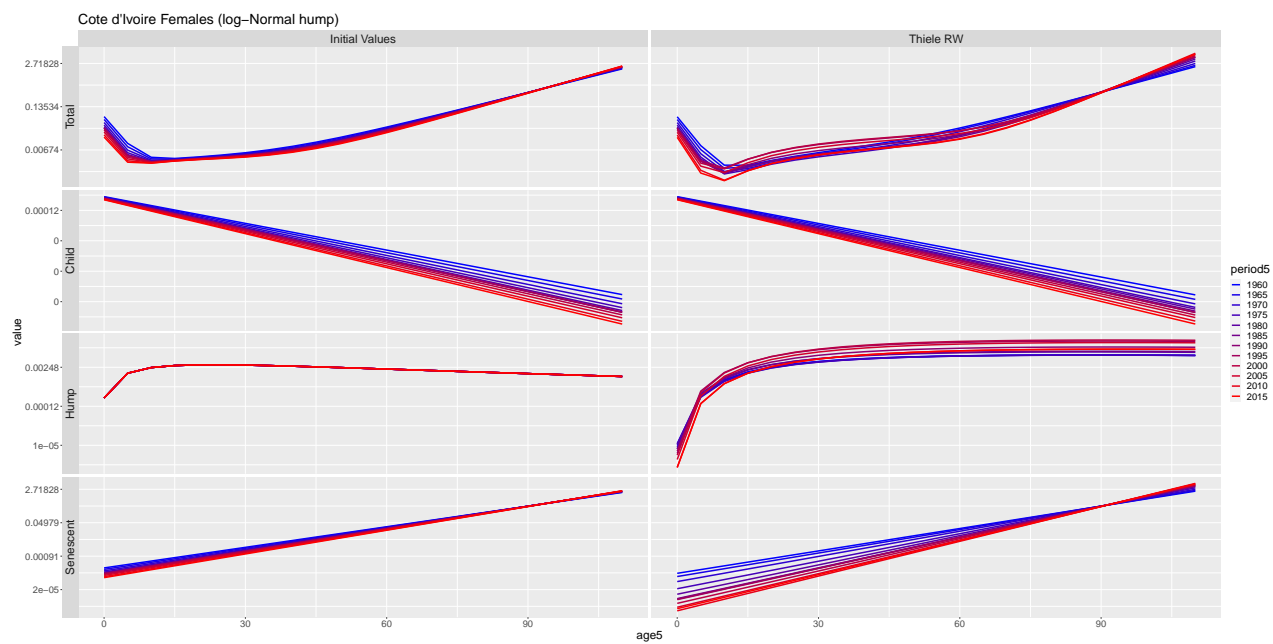
5

Figure 6: Mortality Schedules
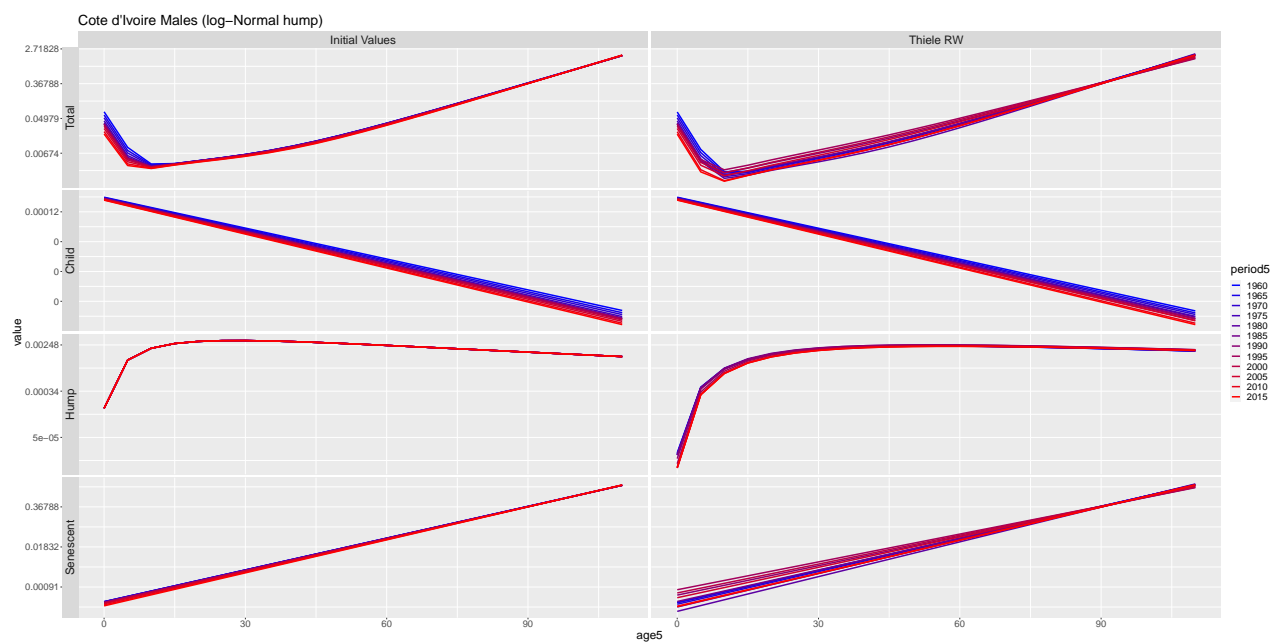

Figure 7: Thiele Decomposed
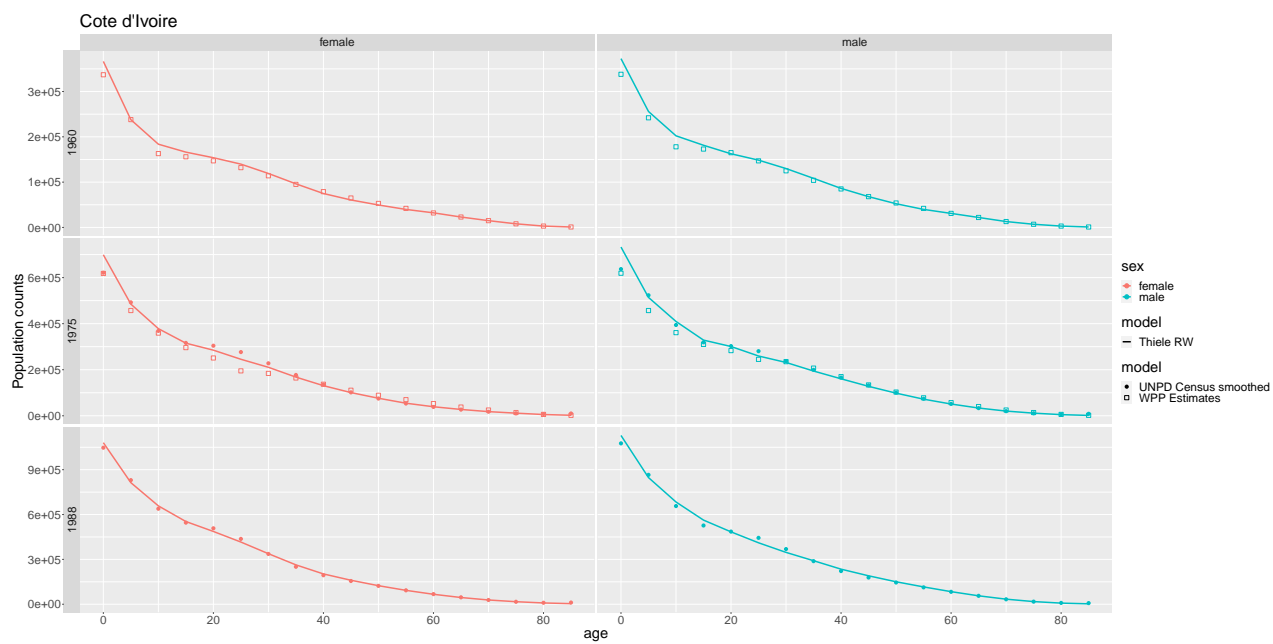
6

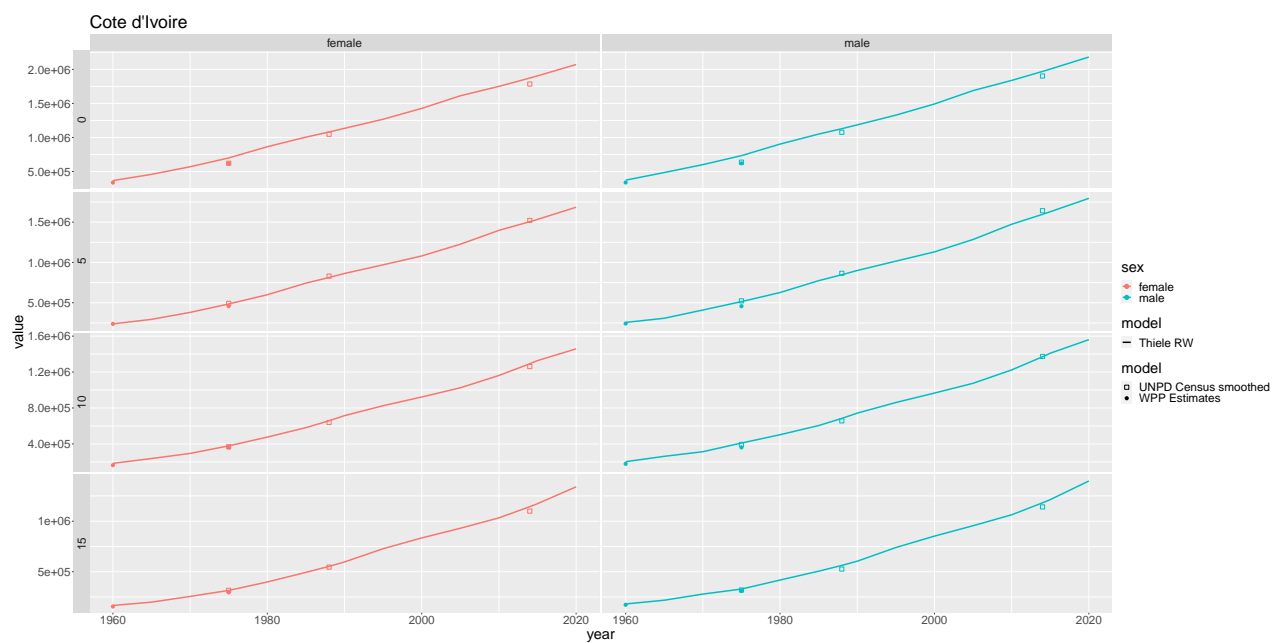Figure 8: Thiele Decomposed

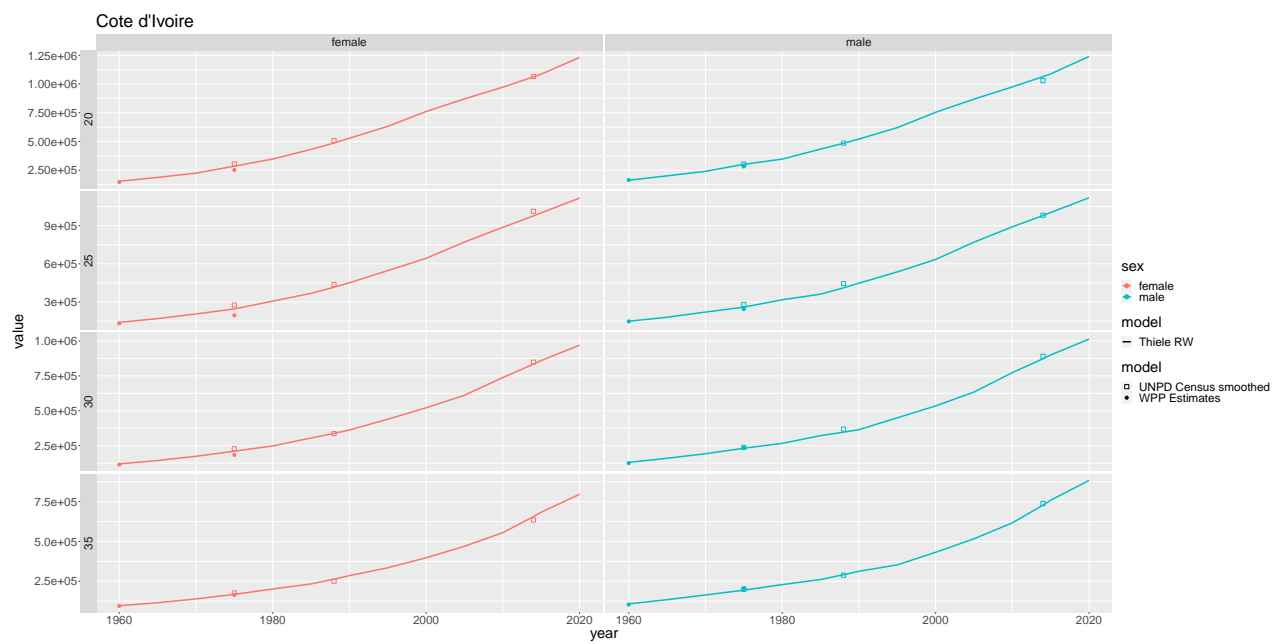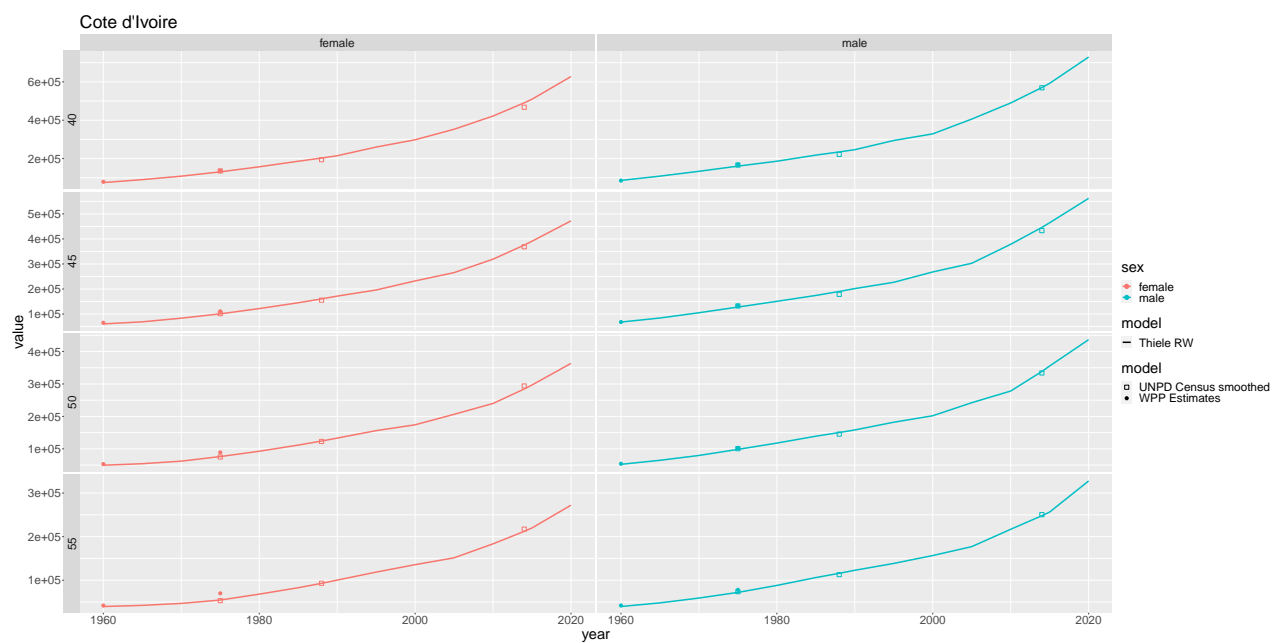Figure 9: Population

Figure 10: Population
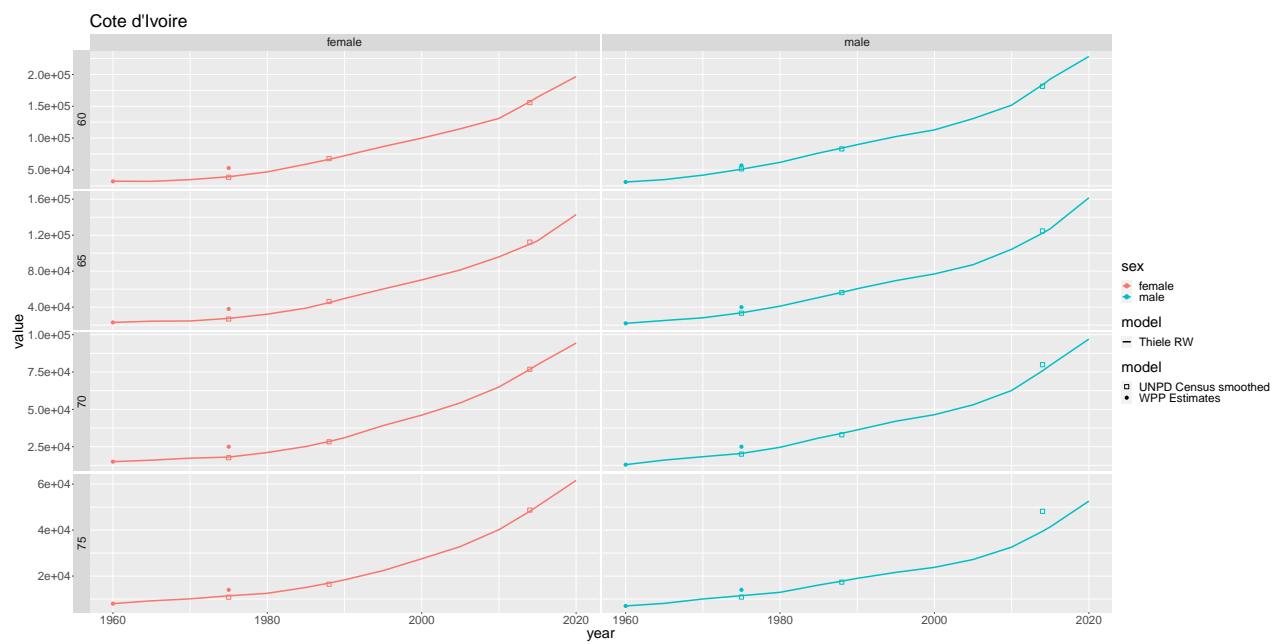

Figure 11: Population

8

Figure 12: Population
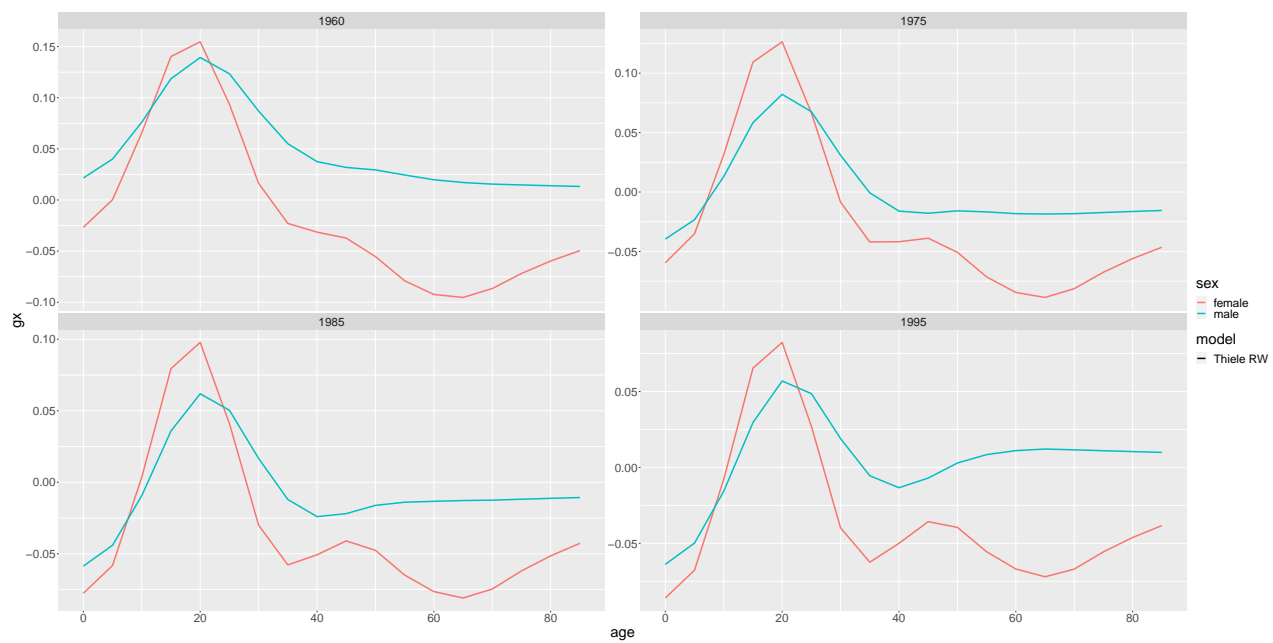

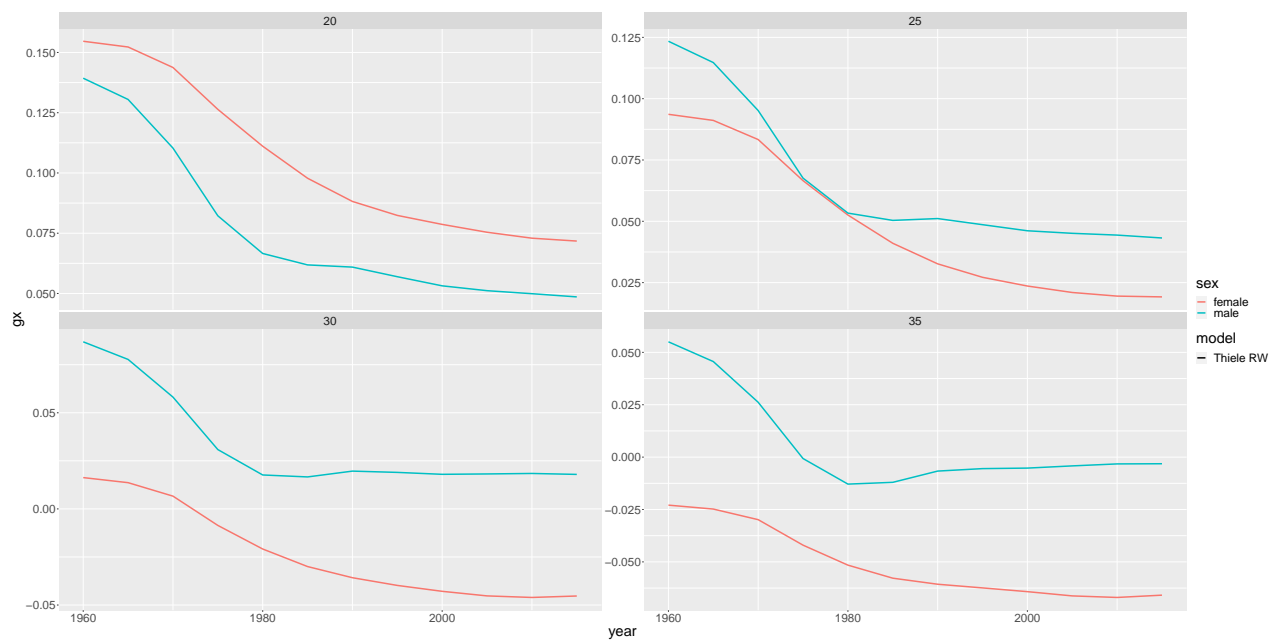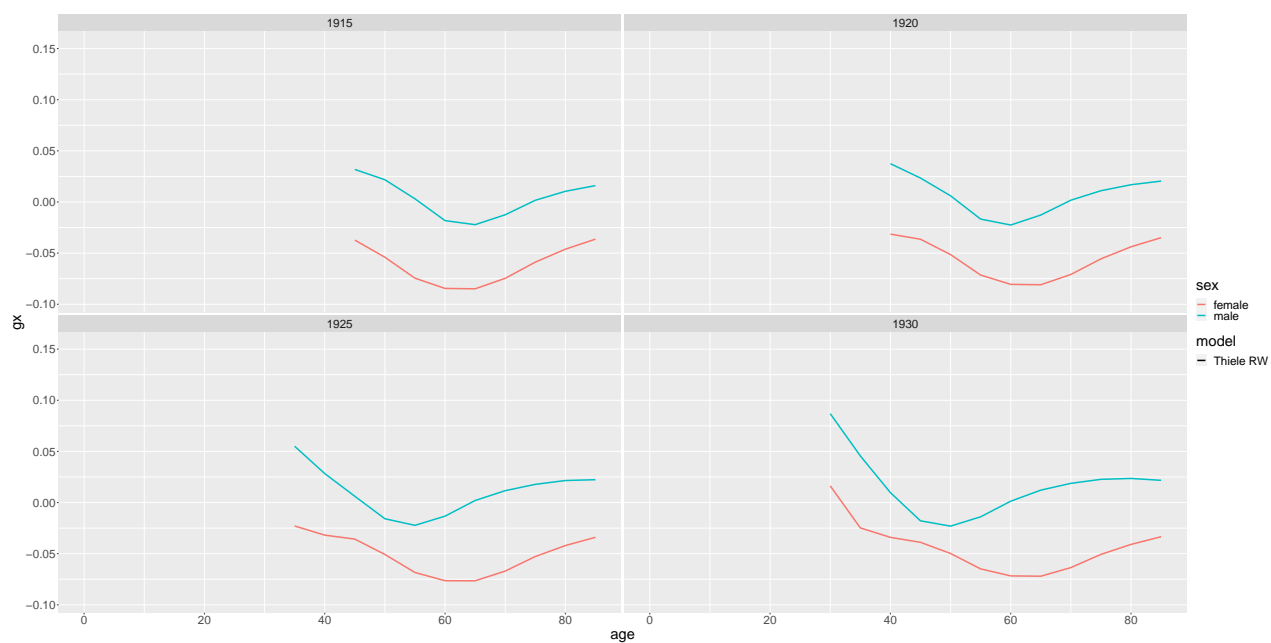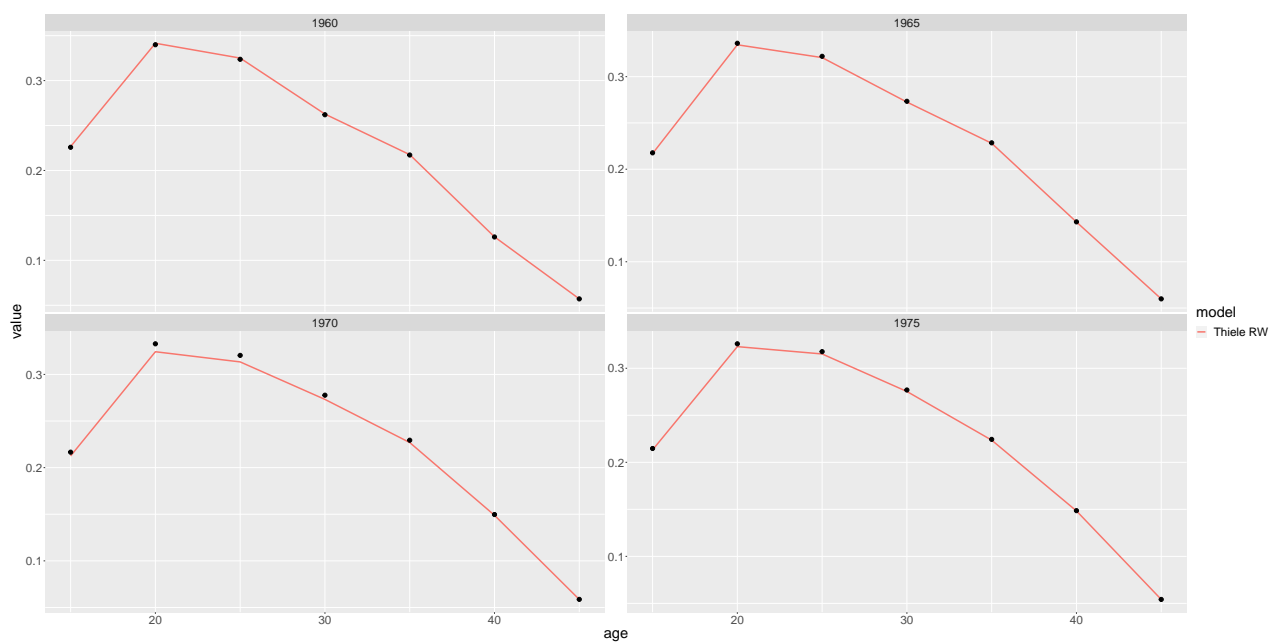Figure 13: Population

Figure 14: Migration

Figure 15: Migration
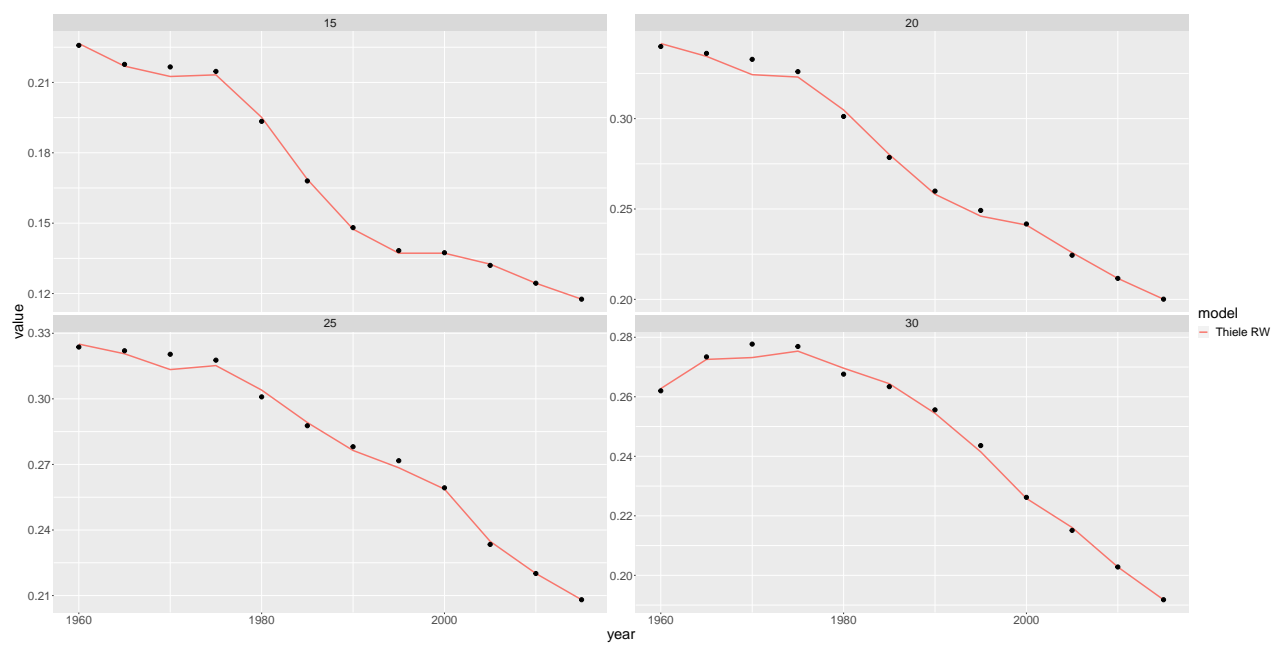
Figure 16: Migration

Figure 17: Fertility

Figure 18: Fertility