Sierra Leone

```
## [1] "Census Females"
## # A tibble: 18 x 3
##
      aggr.age `1963`
                         1974
##
         <dbl>
                  <dbl>
                          <dbl>
##
   1
             0 190018 223665.
##
             5 135060 189314.
   3
            10 116405. 142745.
##
##
            15 104452. 121475.
##
            20 104845. 119120.
   5
##
   6
            25 101898. 114809.
##
   7
            30
                88015. 101087.
##
    8
            35
                70258.
                        81896.
##
   9
                52918.
            40
                         64715.
## 10
                39610.
                         50686.
            45
## 11
            50
                30574.
                         39039.
##
  12
            55
                17602
                         30868.
##
  13
            60
                25818
                         27100.
                51340
## 14
            65
                         21764.
## 15
            70
                         15843.
                    NA
## 16
            75
                    NA
                         12014.
## 17
            80
                    NA
                         10006.
## 18
            85
                    NA
                         13352.
## [1] "Census Males"
  # A tibble: 18 x 3
##
      aggr.age
                1963
                         1974
##
         <dbl>
                  <dbl>
                          <dbl>
##
   1
             0 187317 217093.
##
   2
             5 145589 193154.
            10 108972. 147748.
   3
##
##
    4
                88493. 112157.
            15
##
   5
            20
                82709. 101119.
                82128.
##
    6
            25
                         99176.
##
   7
            30
                79258.
                         91232.
##
   8
                72234.
                         79540.
            35
##
   9
                61518.
                         68321.
            40
                50220.
## 10
            45
                         57722.
                40077.
                         46440.
## 11
            50
## 12
            55
                24158
                         36722.
## 13
            60
                30136
                         31022.
                59169
## 14
            65
                         24342.
## 15
            70
                    NA
                         17900.
## 16
            75
                    NA
                         13296.
## 17
            80
                    NA
                          9892.
## 18
            85
                    NA
                         13611.
Thiele log-Normal Hump RW
##
      user
           system elapsed
              0.03
##
      5.31
                       5.39
```

[1] "relative convergence (4)"

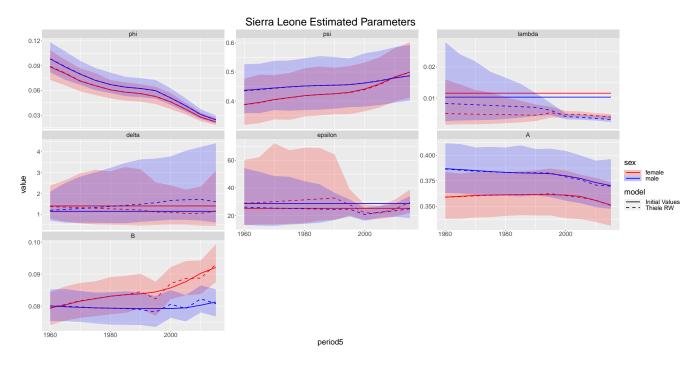


Figure 1: Estimated parameters

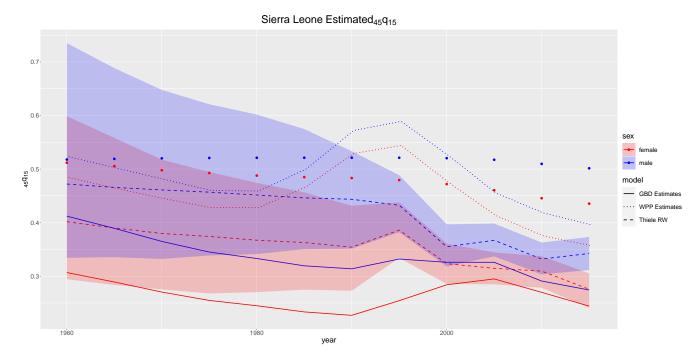


Figure 2: Estimated $_{45}q_{15}$

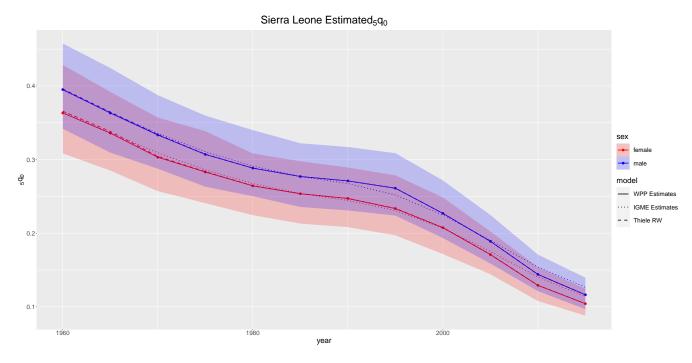


Figure 3: Estimated $_5q_0$

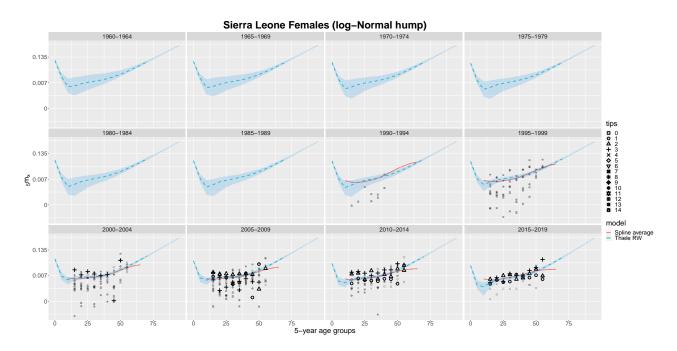


Figure 4: Mortality Schedules



Figure 5: Mortality Schedules



Figure 6: Mortality Schedules

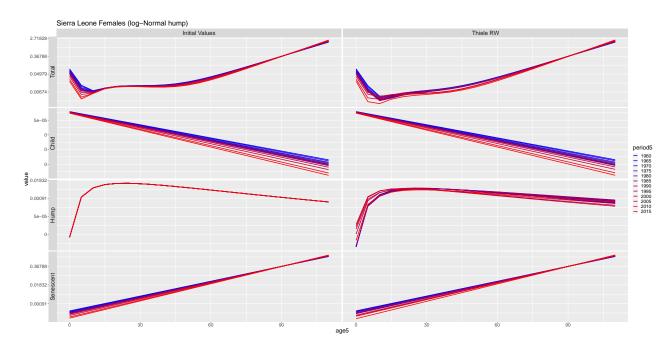


Figure 7: Thiele Decomposed

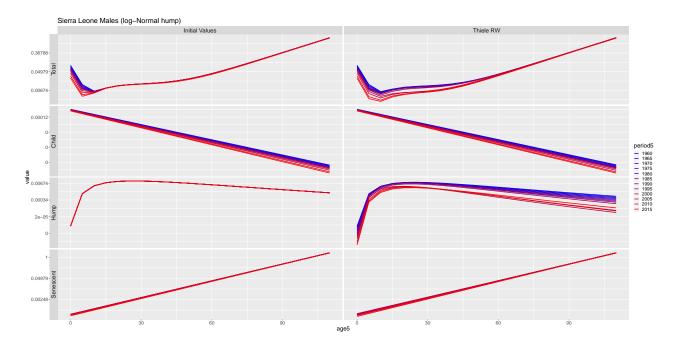


Figure 8: Thiele Decomposed

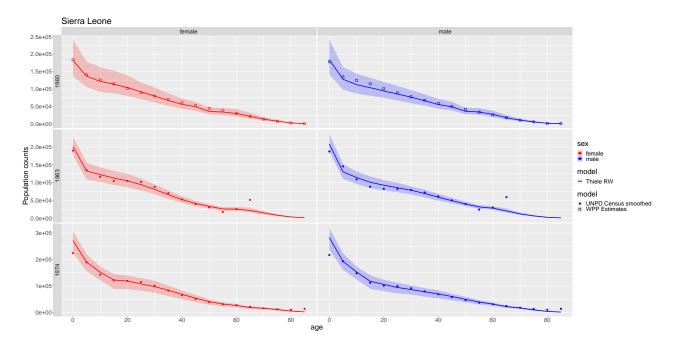


Figure 9: Population

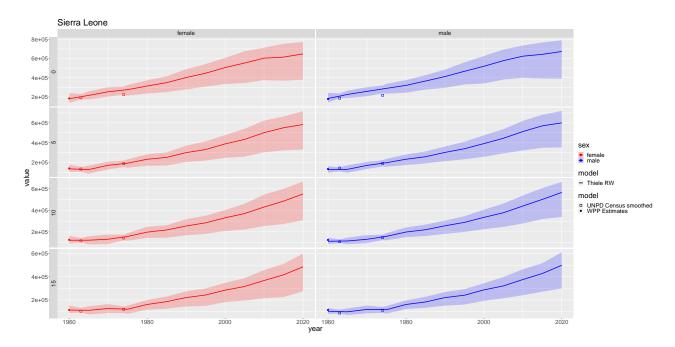


Figure 10: Population

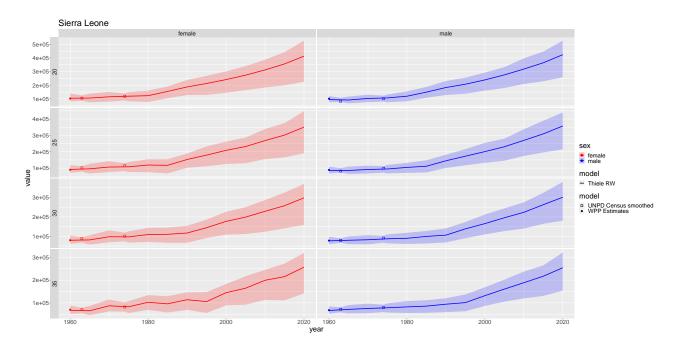


Figure 11: Population

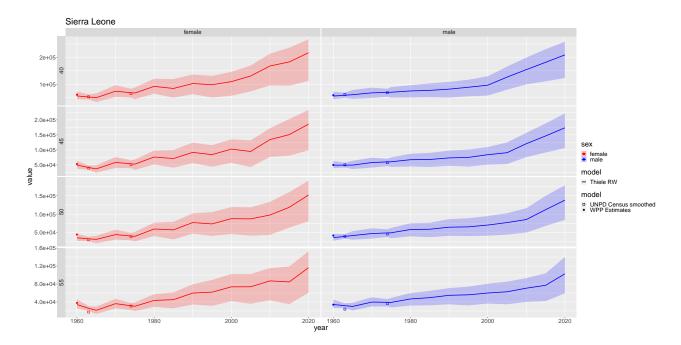


Figure 12: Population

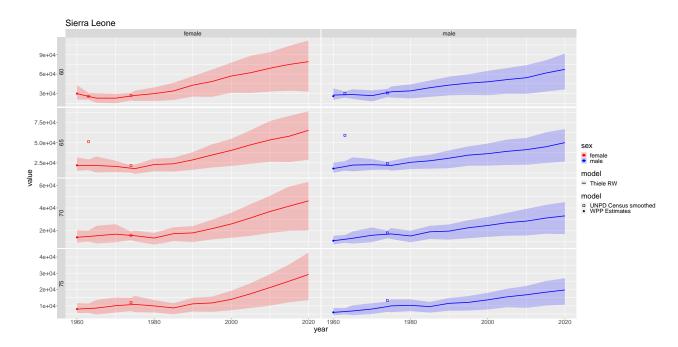


Figure 13: Population

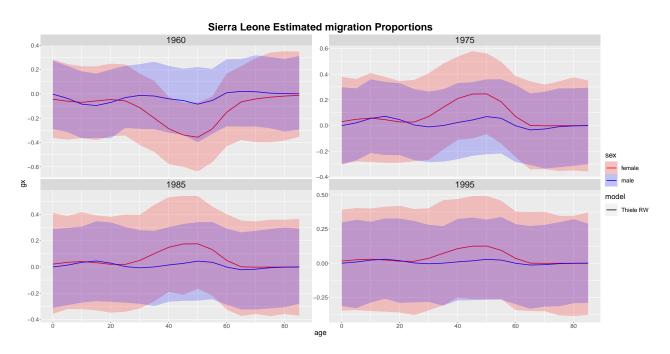


Figure 14: Migration

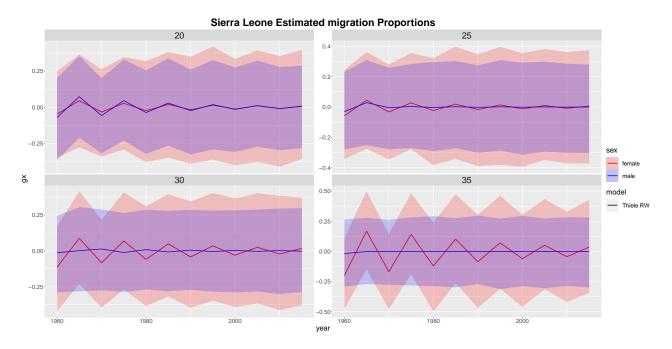


Figure 15: Migration

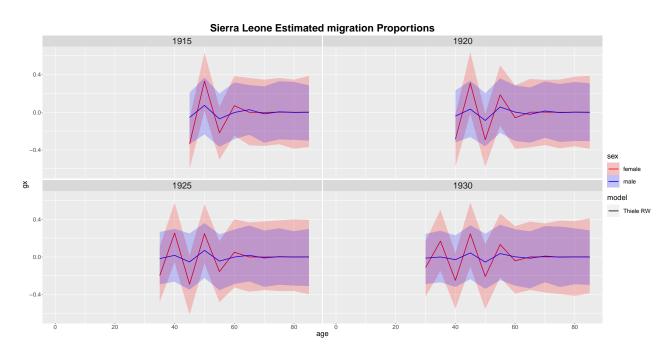


Figure 16: Migration

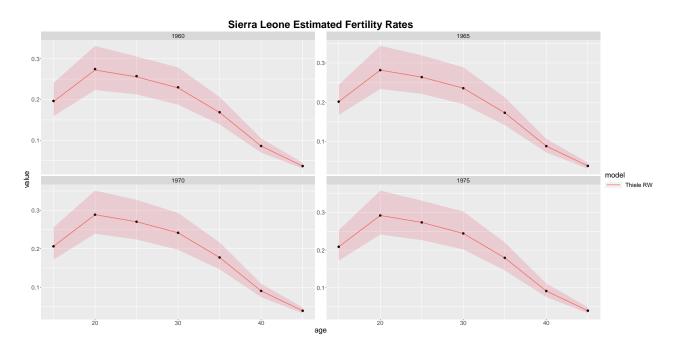


Figure 17: Fertility

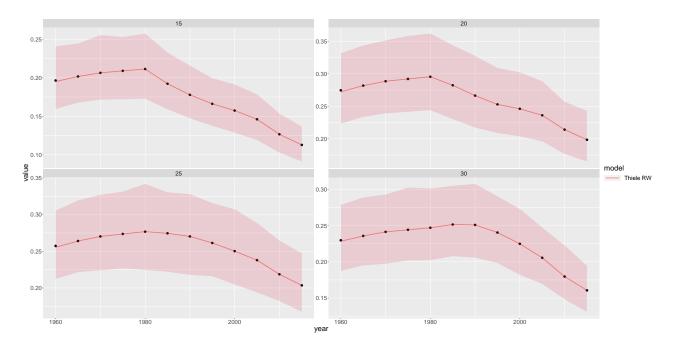


Figure 18: Fertility