## Congo

```
## [1] "Census Females"
  # A tibble: 18 x 4
##
                 1974
                         1984
                                  2007
      aggr.age
##
         <dbl>
                  <dbl>
                           <dbl>
                                   <dbl>
##
   1
              0 122503. 160880. 279158
##
              5 100522. 142980. 235631
                 79490. 125040. 209662.
##
    3
            10
##
                 63470. 107660. 197640.
            15
                         89407. 187422.
##
   5
            20
                 52055.
##
    6
                 43495.
                         71045. 168917.
##
   7
            30
                 38750.
                         55496. 142430.
##
    8
            35
                 37288.
                         44130. 114435.
##
   9
                         37502.
            40
                 35104.
                                  88631.
                 31605.
                         34621.
## 10
            45
                                  68360
##
  11
            50
                 27769.
                         31358.
                                  53193
##
  12
            55
                 22732.
                         26843.
                                  40778.
##
  13
                         21959.
            60
                 16571.
                                  31928.
## 14
            65
                 10763.
                         16189.
                                  25778.
                         10300.
## 15
            70
                  5981.
                                  19624
## 16
            75
                   790.
                           5440.
                                  12855
## 17
            80
                   689.
                           2437.
                                   7073.
## 18
            85
                    NA
                            671.
                                   4684
## [1] "Census Males"
   # A tibble: 18 x 4
##
      aggr.age
                 1974
                         1984
                                  2007
##
         <dbl>
                  <dbl>
                           <dbl>
                                   <dbl>
##
   1
              0 123393. 162414. 278342
##
    2
              5 101676. 143202. 235910.
                 79713. 123091. 205899
    3
##
            10
##
    4
                 59314. 103336. 184008.
            15
##
    5
            20
                 44571.
                         84483. 168768.
##
    6
            25
                 37019.
                         66284. 159526.
##
    7
            30
                 33944.
                         50872. 145566.
    8
                         40701. 122364.
##
            35
                 32040.
##
   9
                 29112.
                         35058. 95512
            40
## 10
            45
                 25449.
                         31134.
                                  70931.
                 22298.
                         26306.
## 11
            50
                                  51002.
## 12
            55
                 19353.
                         21239.
                                  36610
## 13
            60
                 14853.
                         16981.
                                  27375.
                         12954.
## 14
            65
                  9391.
                                  20781.
## 15
            70
                  4895.
                          8572.
                                  14673.
## 16
            75
                   720.
                           4419.
                                   8750
## 17
            80
                   517.
                           1746.
                                   4313.
                            487.
## 18
            85
                    NA
                                   2680
Thiele log-Normal Hump RW
```

## user system elapsed ## 27.79 0.35 28.15 ## [1] "relative convergence (4)"

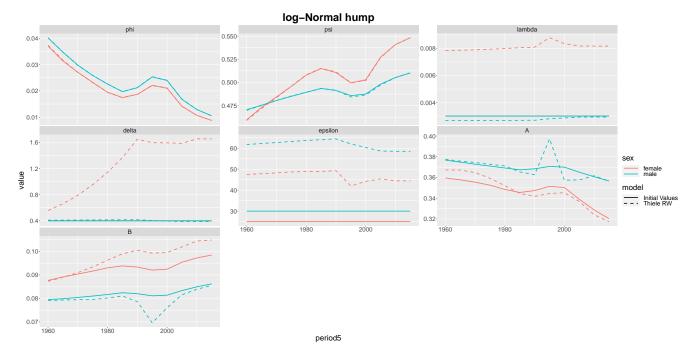


Figure 1: Estimated parameters

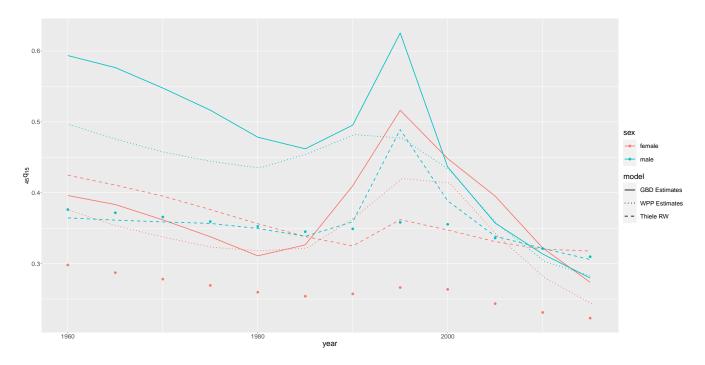


Figure 2: Estimated  $_{45}q_{15}$ 

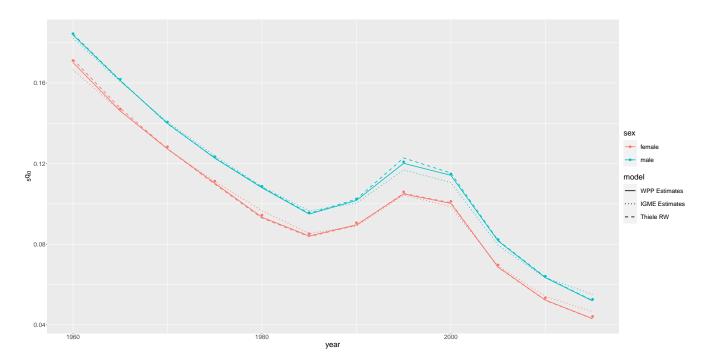


Figure 3: Estimated  $_5q_0$ 

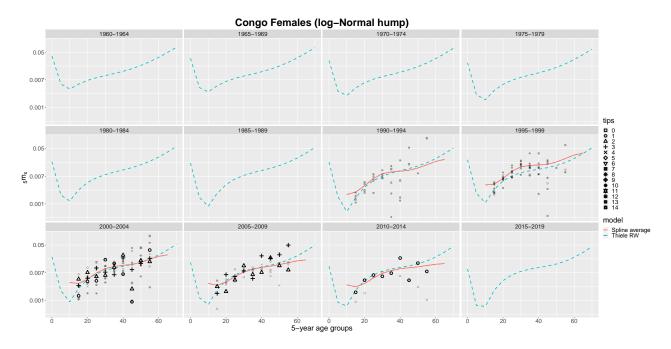


Figure 4: Mortality Schedules

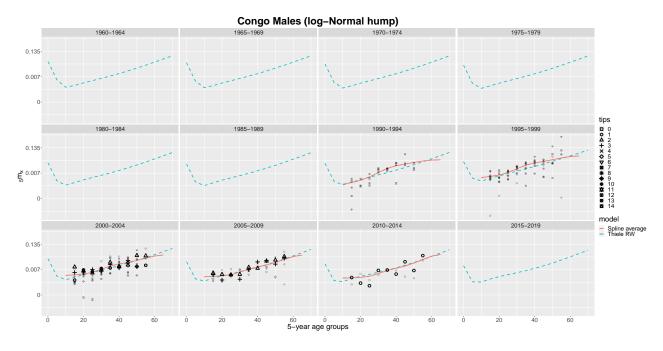


Figure 5: Mortality Schedules

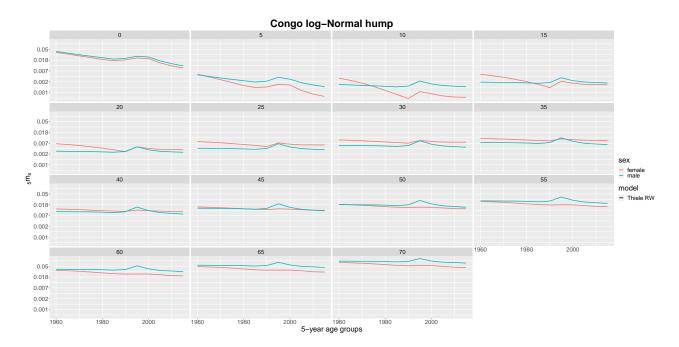


Figure 6: Mortality Schedules

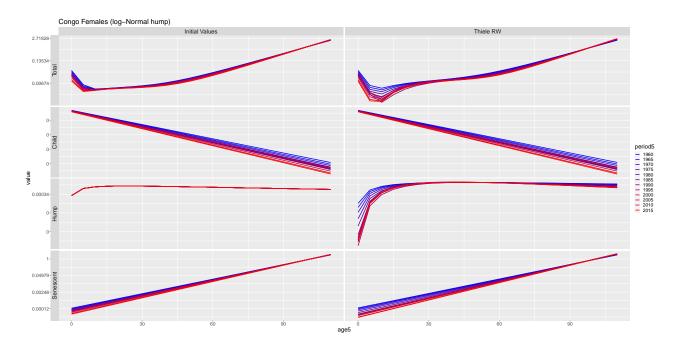


Figure 7: Thiele Decomposed

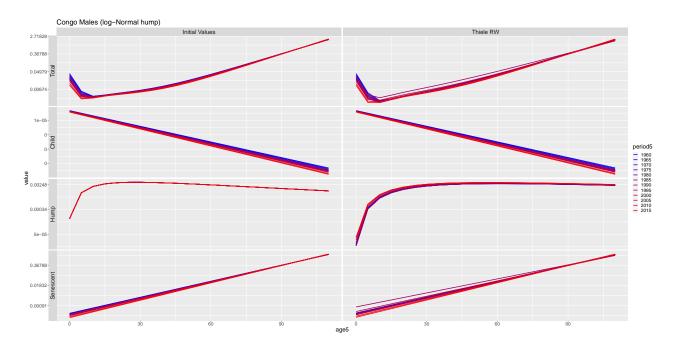


Figure 8: Thiele Decomposed

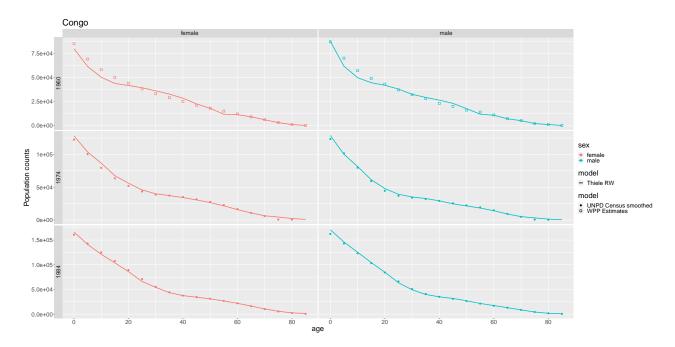


Figure 9: Population

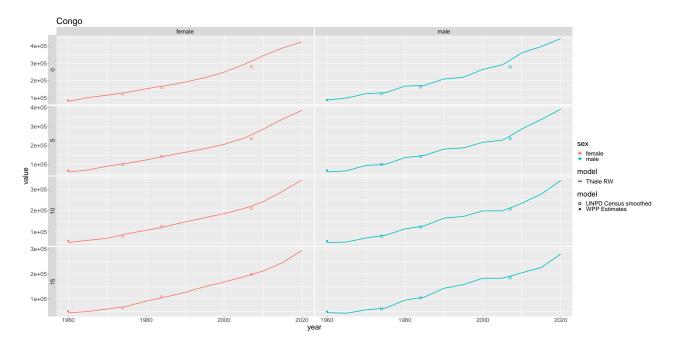


Figure 10: Population

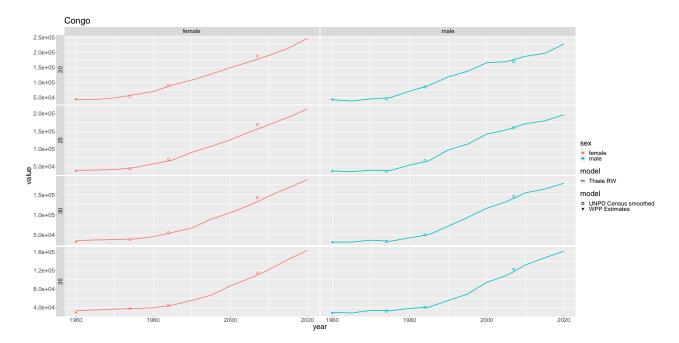


Figure 11: Population

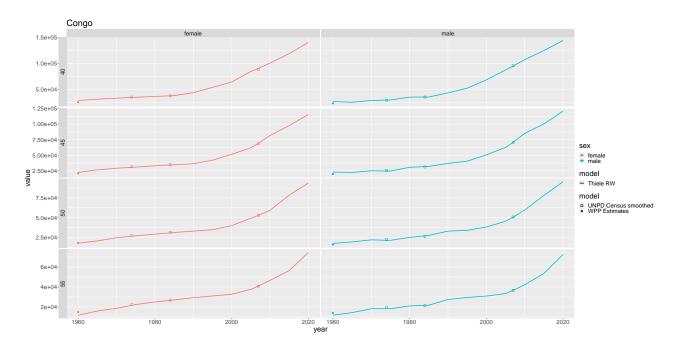


Figure 12: Population

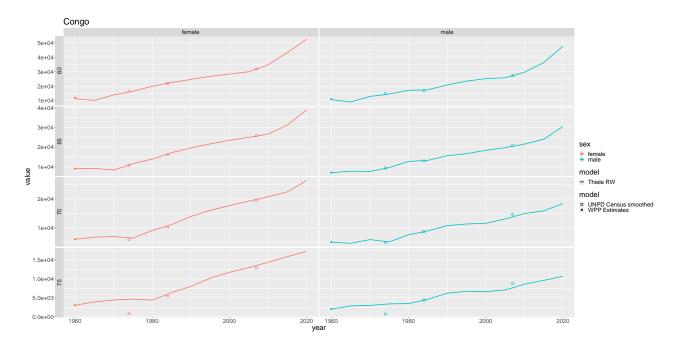


Figure 13: Population

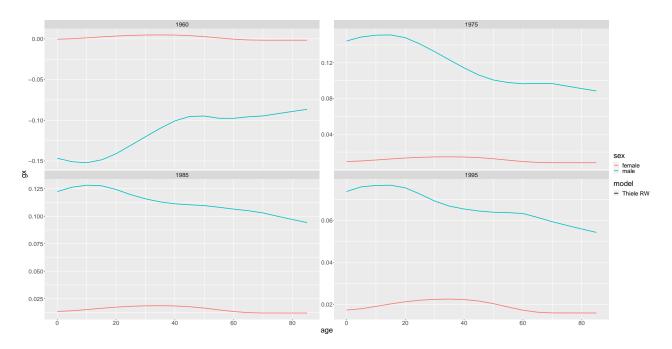


Figure 14: Migration

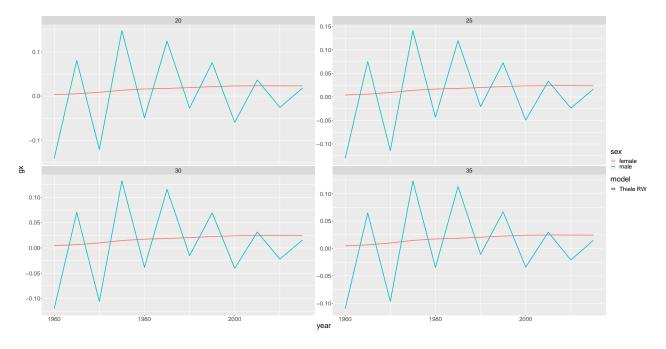


Figure 15: Migration

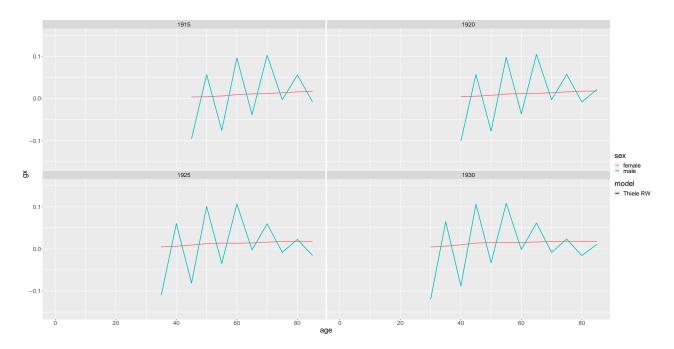


Figure 16: Migration

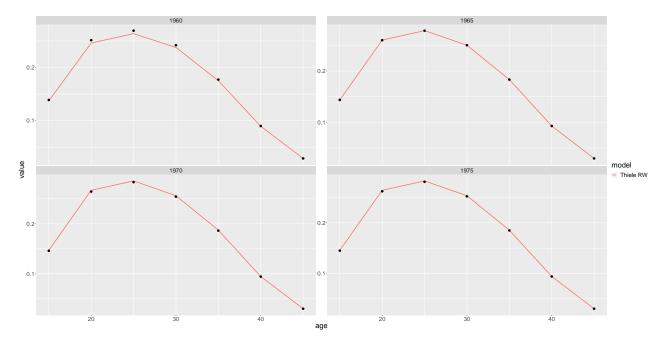


Figure 17: Fertility

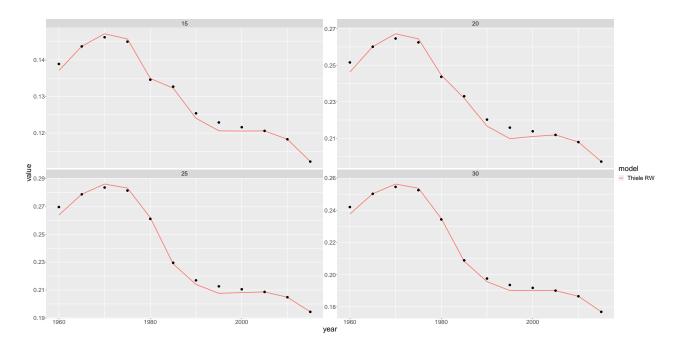


Figure 18: Fertility