Benin

```
## [1] "Census Females"
## # A tibble: 18 x 4
      aggr.age `1979`
##
                        `1992`
                                 `2002`
##
         <dbl>
                 <dbl>
                          <dbl>
                                  <dbl>
##
   1
             0 351457. 451209. 581721.
##
             5 268180. 399795. 528394.
            10 178950. 297938. 424443.
##
   3
##
            15 142937. 230898. 345842.
            20 150307. 217909. 319031.
##
   5
##
   6
            25 141563. 203308. 287531.
##
   7
            30 111638. 168389. 232635.
##
    8
                85508. 130473. 181653.
            35
##
   9
                67925.
                         98650. 140434.
            40
                         75216. 106912.
## 10
            45
                55549.
## 11
            50
                44515.
                         58443.
                                 80354.
##
  12
            55
                35211.
                         46576.
                                 61064.
  13
                         40848.
##
            60
                30311.
                                 52252.
## 14
            65
                24816.
                         33119.
                                 43100.
                         24260.
                                 32546.
## 15
            70
                18851.
## 16
            75
                12313.
                         17574.
                                 24279.
## 17
            80
                28474.
                         12703.
                                 17811.
## 18
            85
                         20123.
                                 29599.
                   NA
## [1] "Census Males"
   # A tibble: 18 x 4
##
      aggr.age
                `1979`
                         1992
                                 `2002`
##
         <dbl>
                 <dbl>
                          <dbl>
             0 351689. 457215. 593589.
##
   1
##
   2
             5 288221. 425746. 552851.
            10 196031. 322971. 447134.
##
    3
            15 126149. 224359. 331492.
##
    4
##
   5
            20 101019. 175298. 259297.
##
    6
                92613. 152515. 223049.
                81036. 132135. 192641.
##
   7
            30
                67610. 108568. 158344.
##
   8
            35
##
   9
                56596. 85645. 125995.
            40
## 10
            45
                48757.
                         66981. 99224.
                         52336.
## 11
            50
                41032.
                                 75992.
## 12
            55
                33835.
                         41489.
                                 56863.
## 13
            60
                29670.
                         35493.
                                 45486.
## 14
            65
                25324.
                         29766.
                                 35834.
## 15
            70
                20368.
                         23877.
                                 27073.
## 16
            75
                13851.
                         17867.
                                 20036.
## 17
            80
                31178.
                         12656.
                                 14361.
                         21785.
## 18
            85
                    NA
                                 25804.
Thiele log-Normal Hump RW
##
           system elapsed
      user
```

##

15.78

0.32

16.06

[1] "relative convergence (4)"

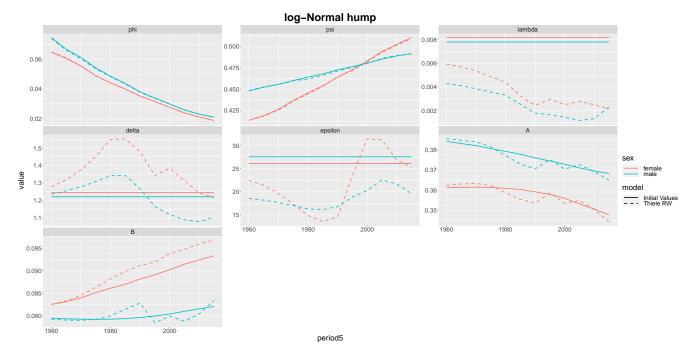


Figure 1: Estimated parameters

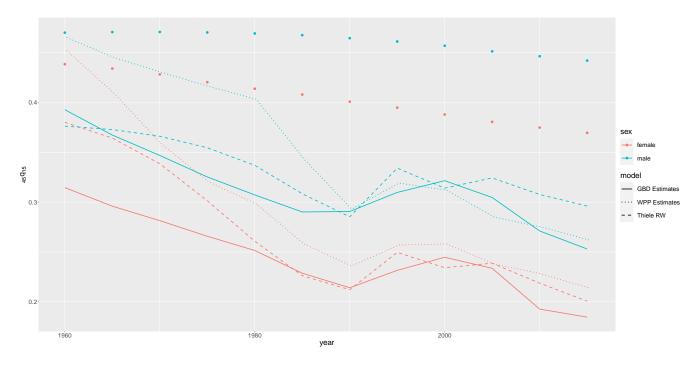


Figure 2: Estimated $_{45}q_{15}$

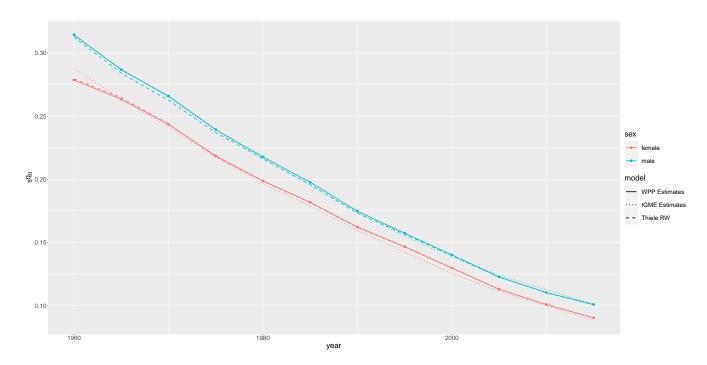


Figure 3: Estimated $_5q_0$

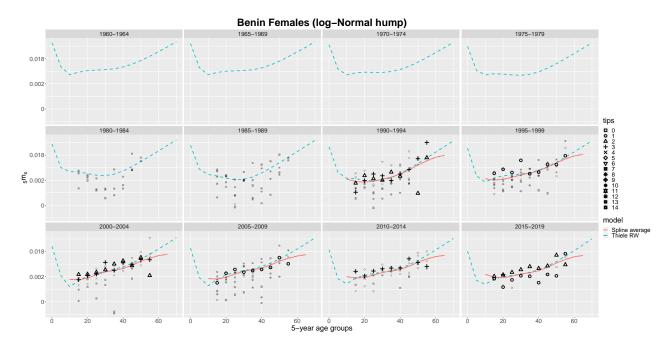


Figure 4: Mortality Schedules

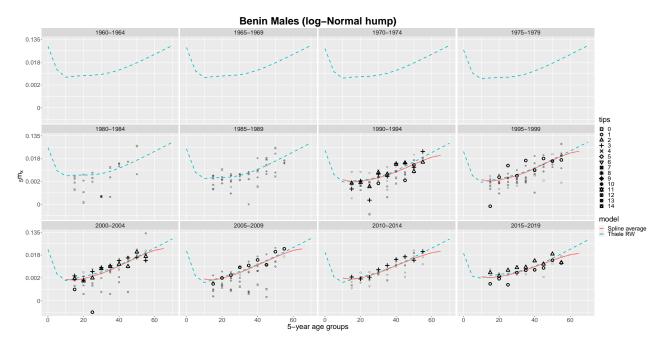


Figure 5: Mortality Schedules

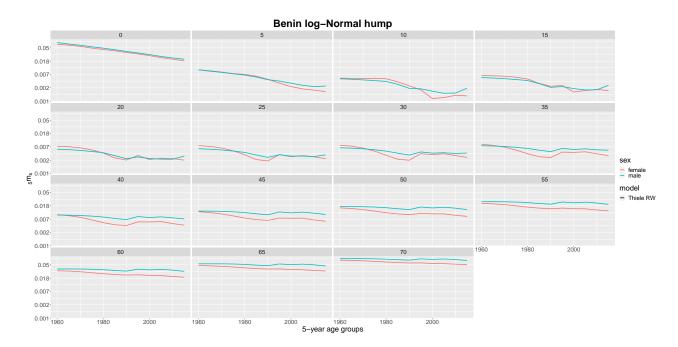


Figure 6: Mortality Schedules

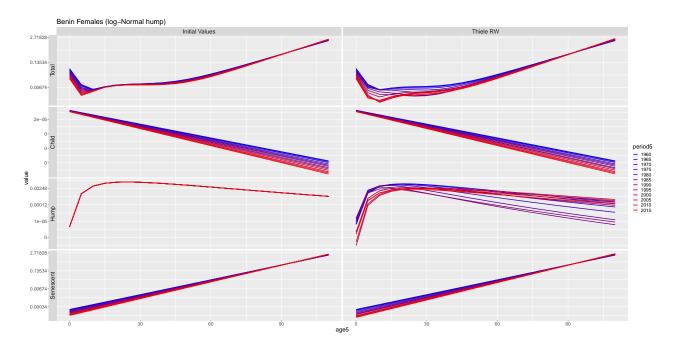


Figure 7: Thiele Decomposed

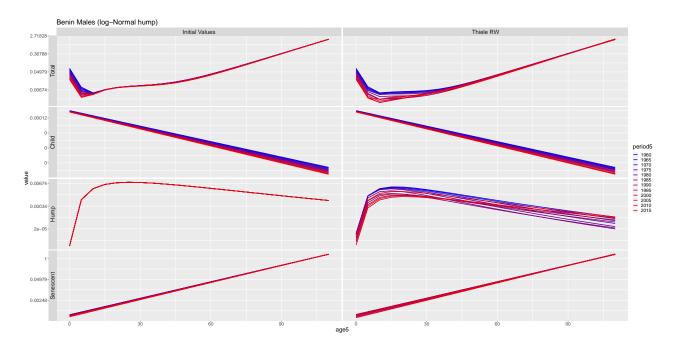


Figure 8: Thiele Decomposed

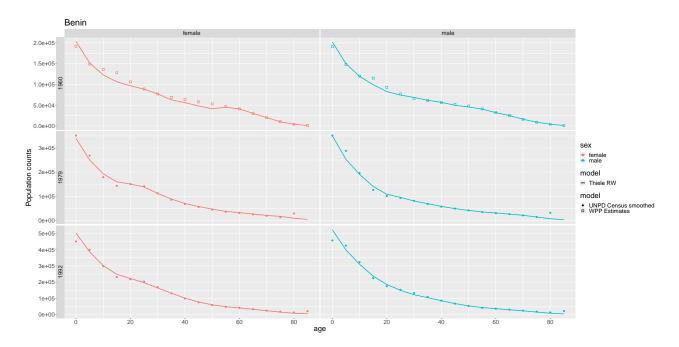


Figure 9: Population

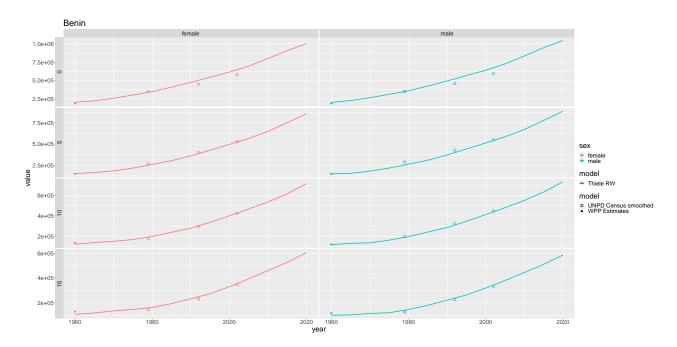


Figure 10: Population

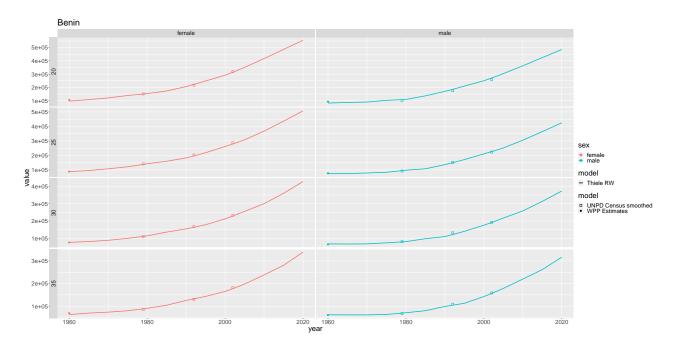


Figure 11: Population

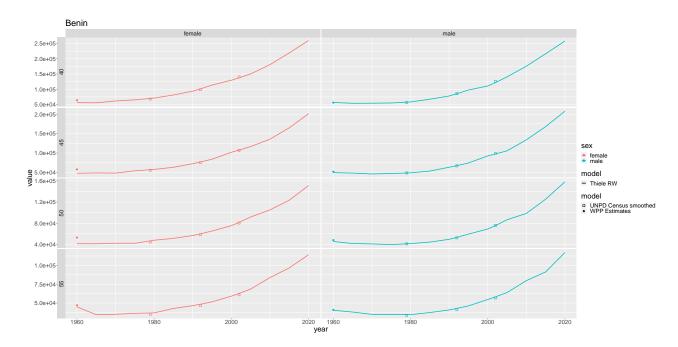


Figure 12: Population

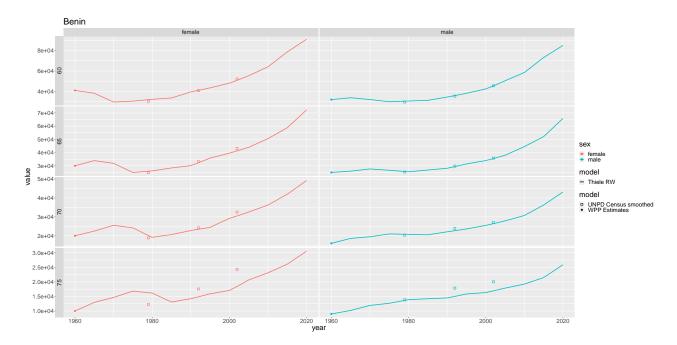


Figure 13: Population

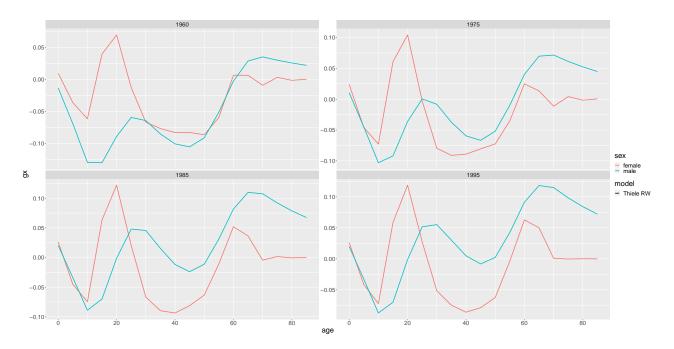


Figure 14: Migration

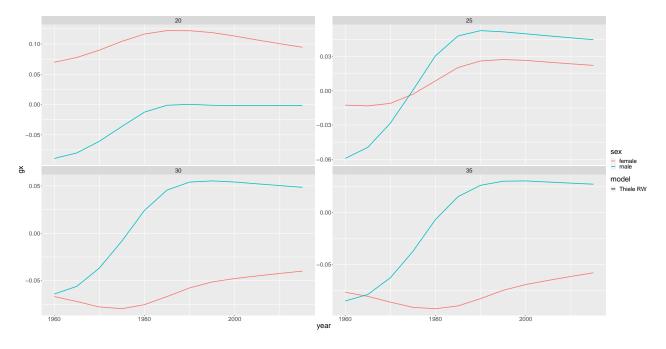


Figure 15: Migration

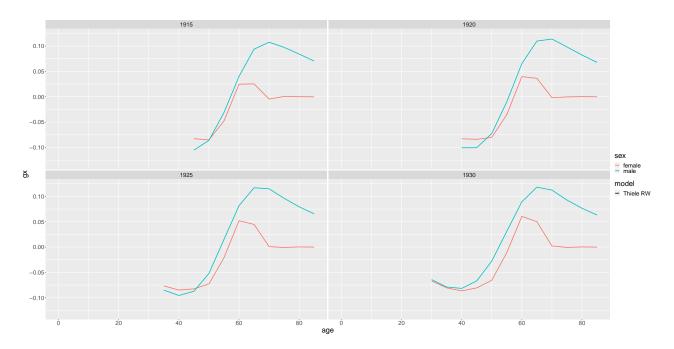


Figure 16: Migration

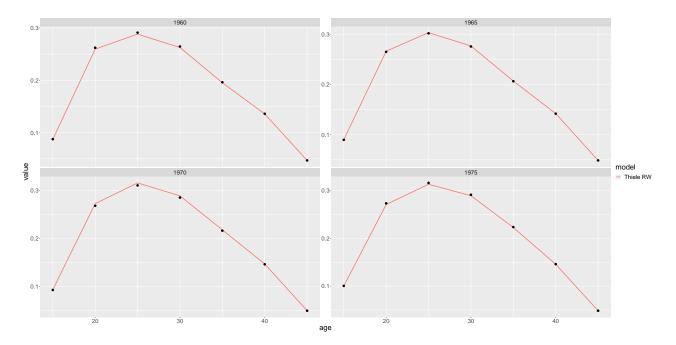


Figure 17: Fertility

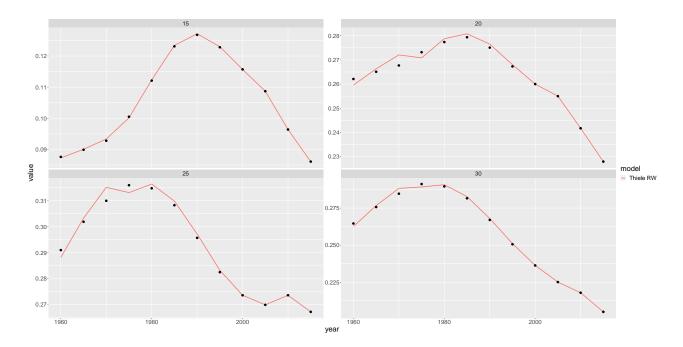


Figure 18: Fertility