Gambia

```
## [1] "Census Females"
## # A tibble: 18 x 4
##
      aggr.age `1973` `1983` `1993`
##
         <dbl> <dbl> <dbl> <dbl>
##
   1
             0 41563 58907. 84738.
##
                32722 51790. 78245.
                28776 40376. 66020.
##
   3
            10
##
            15
                26267 33801. 55768.
##
   5
            20
                22723 32666. 49818.
##
   6
                19208 30671. 44550.
##
   7
            30
                16072 24542. 35807.
##
    8
            35
                13316 17901. 26473.
##
   9
                10972 13703. 19807.
            40
                 9005 10504. 14542.
## 10
            45
                       7968. 10650.
## 11
            50
                 7169
## 12
            55
                 5534
                        6007.
                              8081.
## 13
                        4853.
            60
                 4004
                               6742.
## 14
            65
                 2756
                       3772.
                               5340.
                 1671
                       2740.
## 15
            70
                               3912.
## 16
            75
                  894
                       2128.
                               2900.
## 17
            80
                  338 2199.
                               2065.
## 18
            85
                  123 1982. 3121.
## [1] "Census Males"
  # A tibble: 18 x 4
      aggr.age `1973` `1983` `1993`
##
##
         <dbl>
                <dbl> <dbl> <dbl>
##
   1
             0 41216 59160. 86350.
##
   2
             5
                31932 52458. 79005.
                28118 40522. 65591.
##
   3
            10
                25827 31264. 53832.
##
    4
            15
##
   5
            20
                24121 28238. 46618.
                21434 26239. 40040.
##
   6
            25
##
   7
            30
                18192 21919. 32335.
                15095 17687. 25870.
##
   8
            35
##
   9
                12287 14759. 21359.
            40
                 9638 12170. 17496.
## 10
            45
                 7526 9702. 13833.
## 11
            50
## 12
            55
                 5669
                       7613. 10744.
## 13
            60
                 4036
                        6255. 8615.
                        4804.
## 14
            65
                 2719
                               6432.
## 15
            70
                 1440
                        3414.
                               4508.
## 16
            75
                  779
                        2471.
                               3126.
## 17
            80
                  274
                        2228.
                               2038.
                       2025.
## 18
            85
                   83
                               2814.
Thiele log-Normal Hump RW
```

user system elapsed ## 11.86 0.15 12.04 ## [1] "relative convergence (4)"

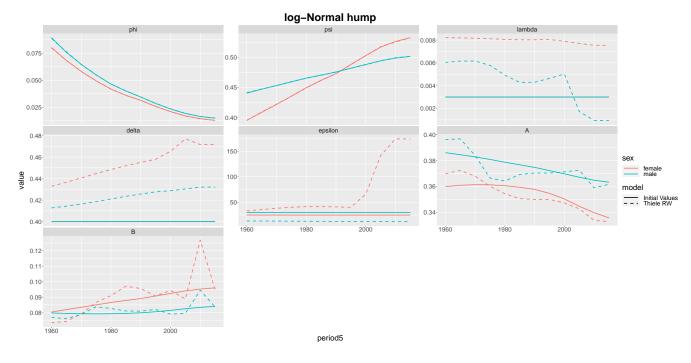


Figure 1: Estimated parameters

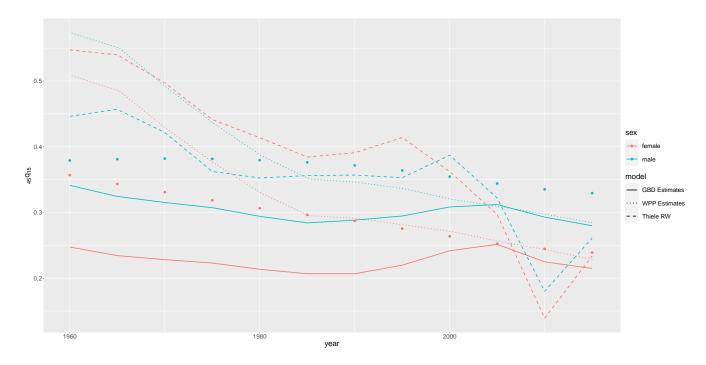


Figure 2: Estimated $_{45}q_{15}$

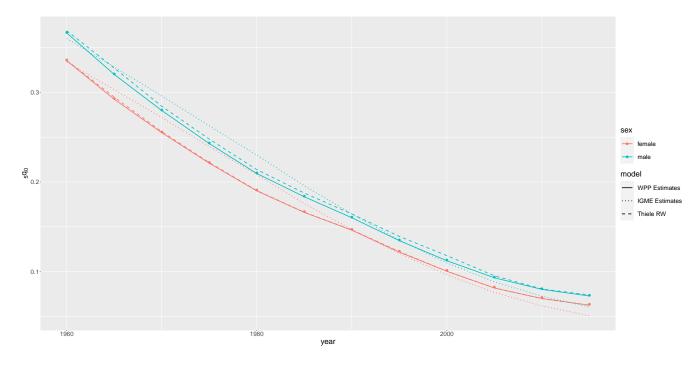


Figure 3: Estimated $_5q_0$

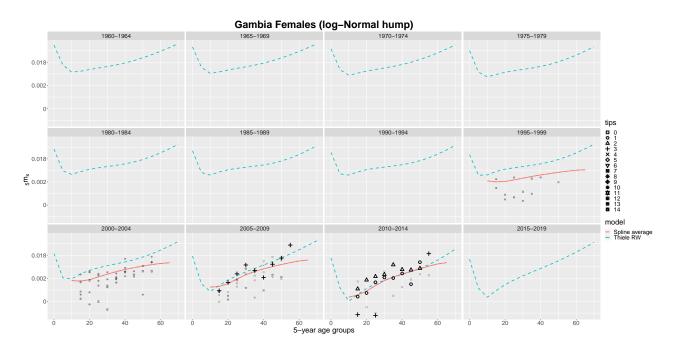


Figure 4: Mortality Schedules

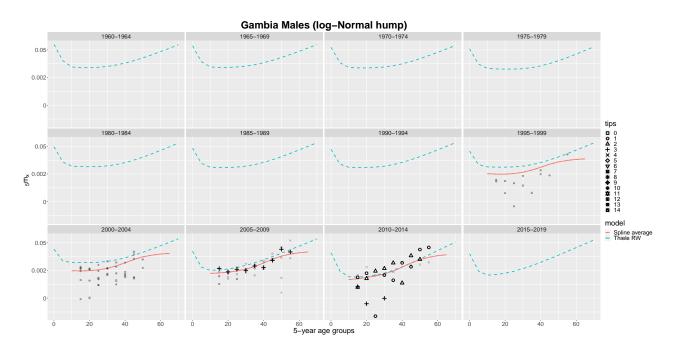


Figure 5: Mortality Schedules

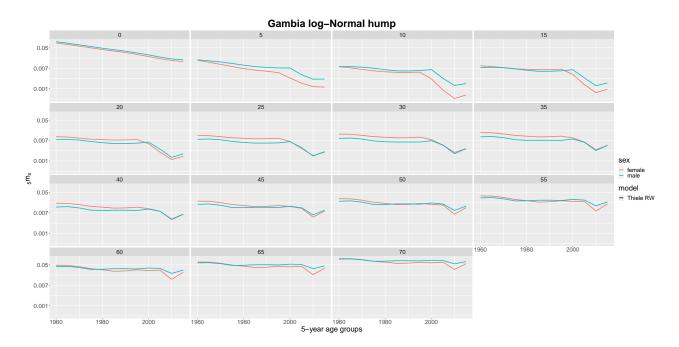


Figure 6: Mortality Schedules

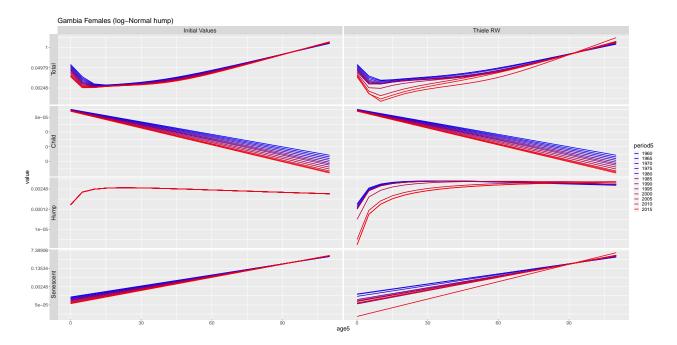


Figure 7: Thiele Decomposed

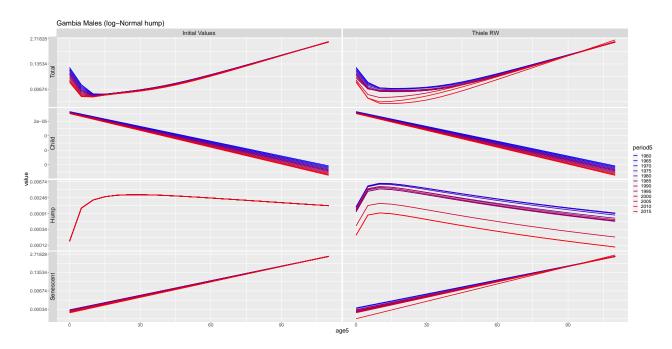


Figure 8: Thiele Decomposed

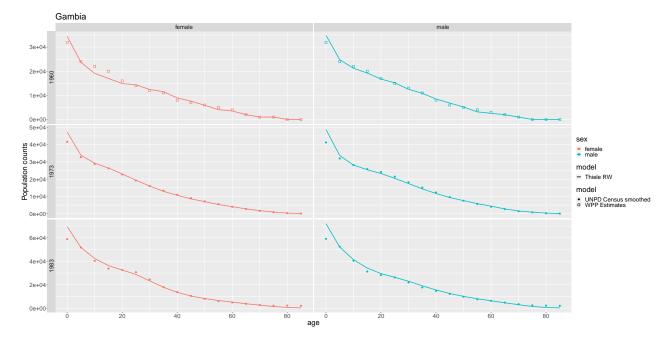


Figure 9: Population

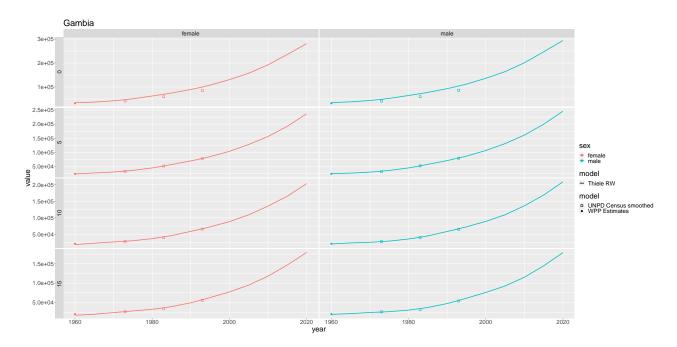


Figure 10: Population

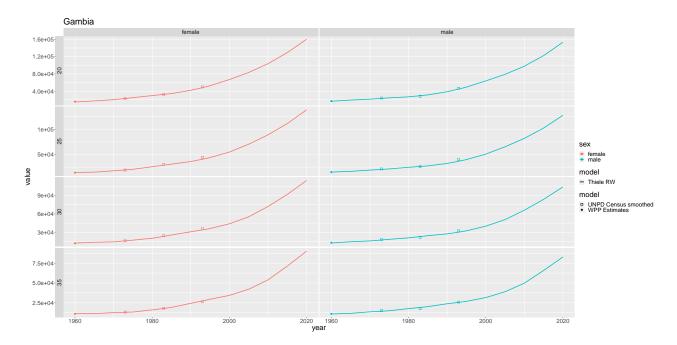


Figure 11: Population

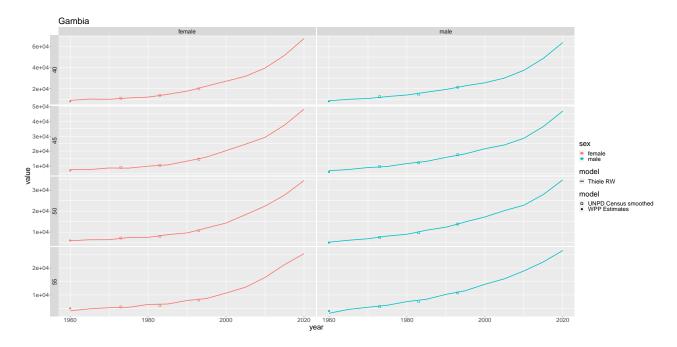


Figure 12: Population

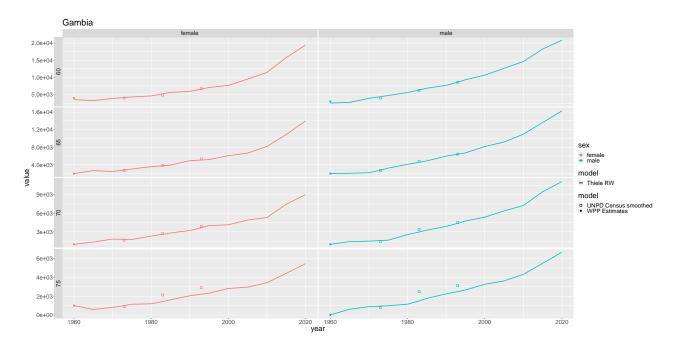


Figure 13: Population

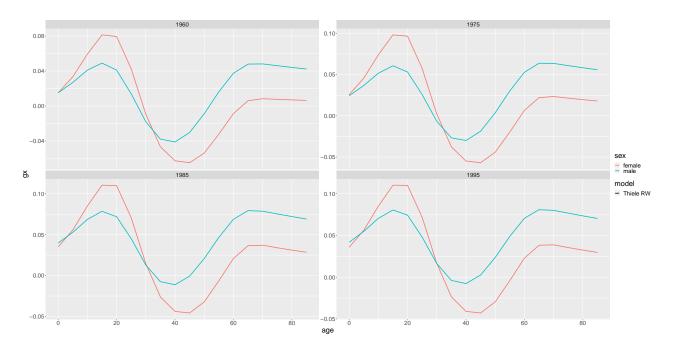


Figure 14: Migration

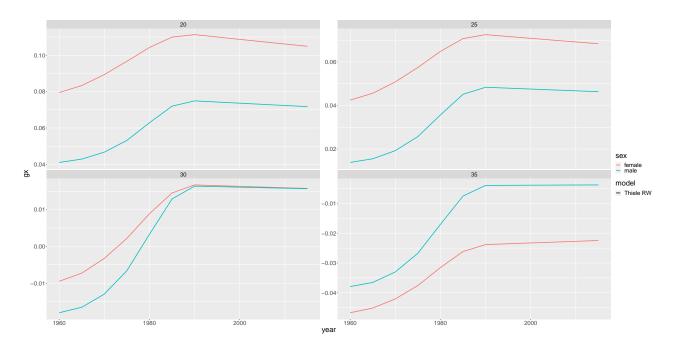


Figure 15: Migration

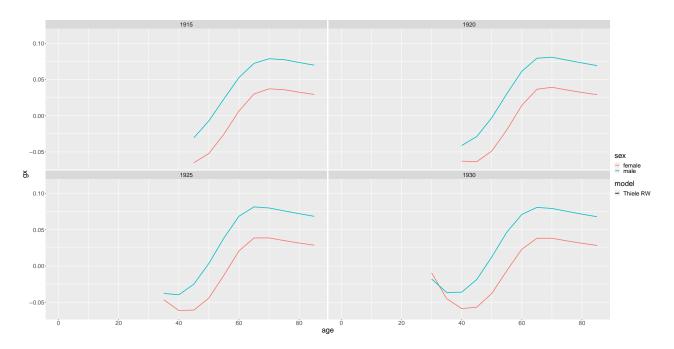


Figure 16: Migration

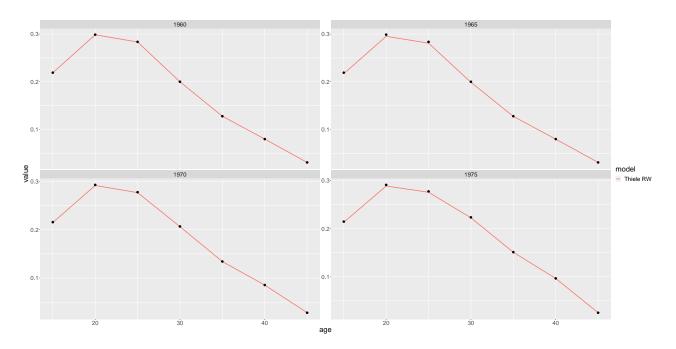


Figure 17: Fertility

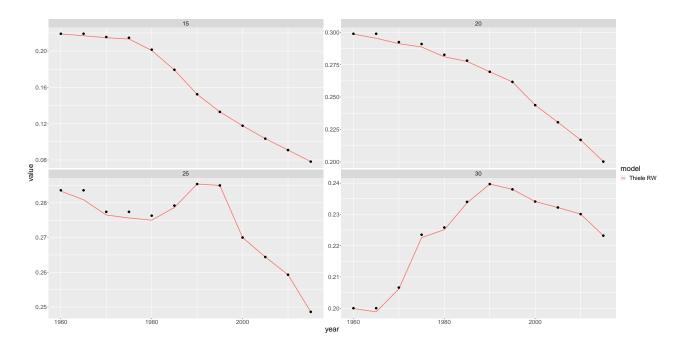


Figure 18: Fertility