Togo

```
## [1] "Census Females"
  # A tibble: 18 x 4
##
##
                 `1970`
                         `1981`
                                  `2010`
      aggr.age
##
         <dbl>
                  <dbl>
                           <dbl>
                                   <dbl>
##
   1
             0 205745. 270991. 445753.
##
             5 162212. 223881. 436083.
            10 104920. 164223. 370046.
##
   3
##
                 75497. 130977. 309693.
            15
##
   5
            20
                 79994. 122493. 290666.
##
    6
                 83454. 111348. 270917.
##
   7
            30
                 72531.
                         90044. 229765.
##
    8
            35
                 57568.
                         68593. 187312.
##
   9
                         53165. 151703.
            40
                 43942.
                 33669.
                         41694. 120178.
## 10
            45
## 11
            50
                 25240.
                         30908.
                                  92157.
##
  12
            55
                 18557.
                         22256.
                                  69045.
##
  13
            60
                 15285.
                         18221.
                                  54414.
## 14
            65
                 12514.
                         14719.
                                  43884.
                         10947.
                                  33878.
## 15
            70
                  9034.
## 16
            75
                  5962.
                          6866.
                                  20370.
## 17
            80
                  4091.
                         18818.
                                  45734.
## 18
            85
                  8760.
                             NA
                                     NA
## [1] "Census Males"
  # A tibble: 18 x 4
##
      aggr.age
                 `1970`
                         `1981`
                                  `2010`
##
         <dbl>
                  <dbl>
                           <dbl>
                                   <dbl>
             0 203979. 273552. 457477.
##
   1
##
    2
             5 172896. 240827. 453946.
            10 117907. 184640. 395001.
    3
##
##
                 74089. 132551. 318112.
    4
            15
##
    5
            20
                 56943.
                         96868. 258958.
                         76324. 220972.
##
    6
            25
                 51808.
                 48665.
##
    7
            30
                         62959. 195558.
    8
                         51668. 168457.
##
            35
                 44229.
##
   9
                 37863.
                         44478. 139836.
            40
## 10
            45
                 31765.
                         38728. 112004.
                         30174.
## 11
            50
                 25110.
                                  83440.
## 12
            55
                 18801.
                         22170.
                                  59442.
## 13
            60
                 14915.
                         18389.
                                  42713.
## 14
                 11797.
                         15110.
                                  30553.
            65
## 15
            70
                  8474.
                         11486.
                                  22097.
## 16
            75
                  5712.
                          7179.
                                  13278.
## 17
            80
                  4154.
                         20772.
                                  28018.
                 10688.
## 18
            85
                             NA
                                     NA
Thiele log-Normal Hump RW
##
            system elapsed
      user
```

16.66 0.31 17.06 ## [1] "relative convergence (4)"

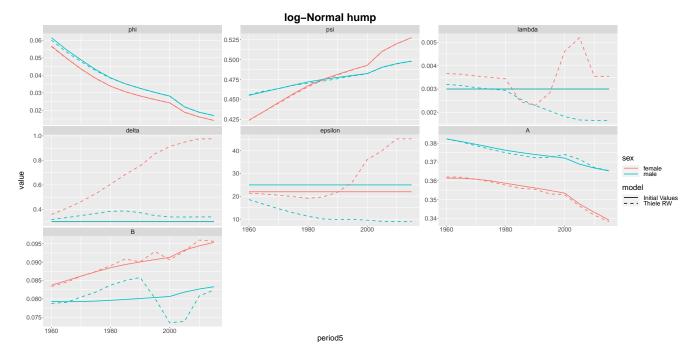


Figure 1: Estimated parameters

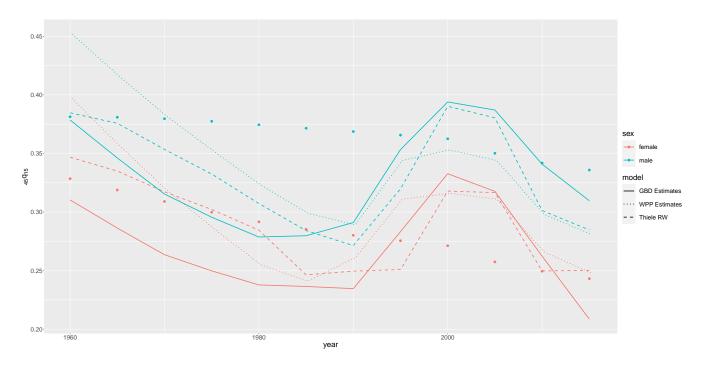


Figure 2: Estimated $_{45}q_{15}$

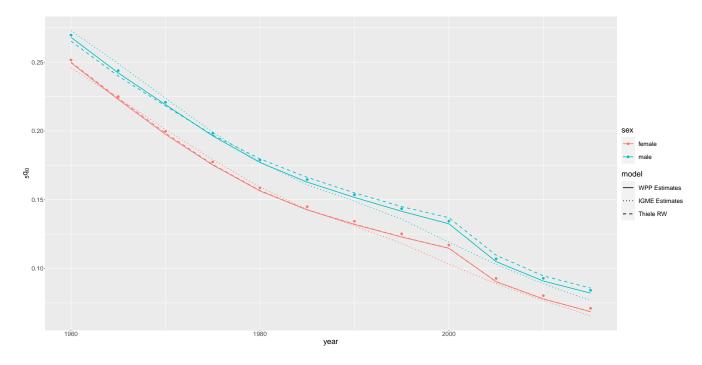


Figure 3: Estimated $_5q_0$

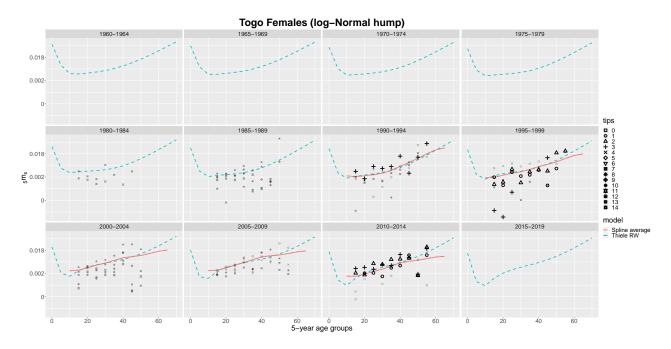


Figure 4: Mortality Schedules

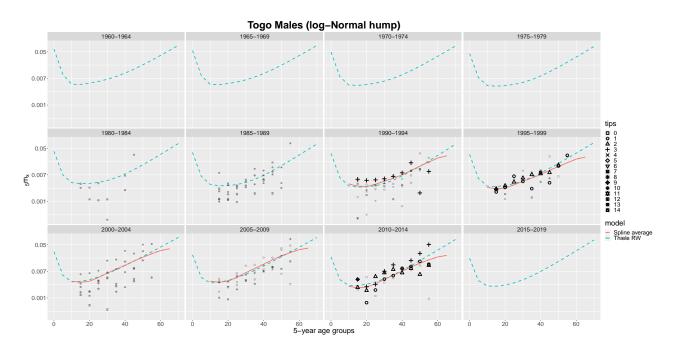


Figure 5: Mortality Schedules

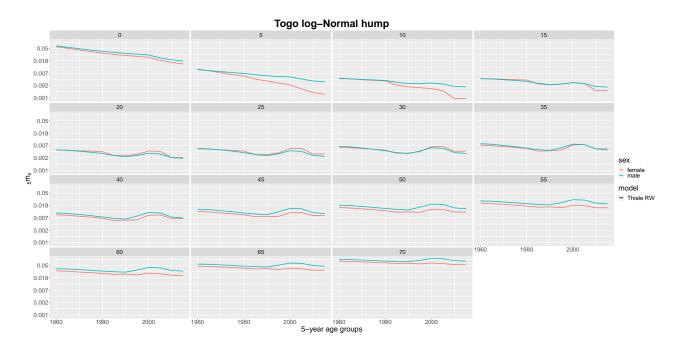


Figure 6: Mortality Schedules

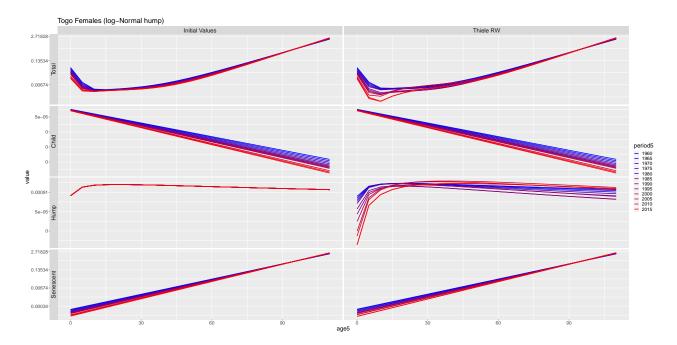


Figure 7: Thiele Decomposed

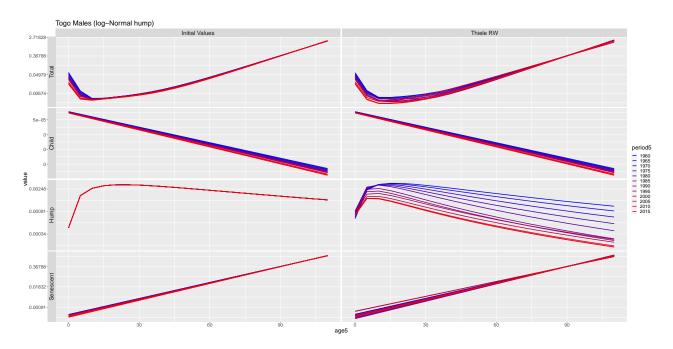


Figure 8: Thiele Decomposed

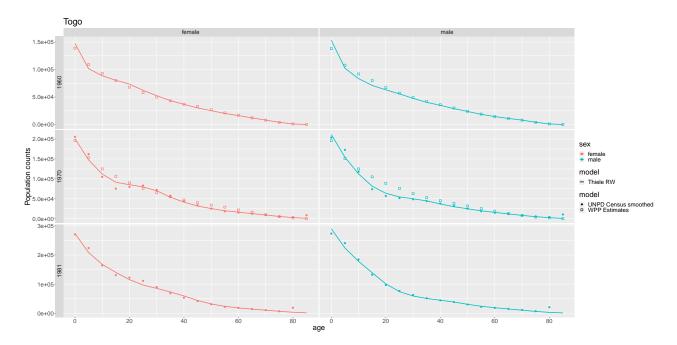


Figure 9: Population

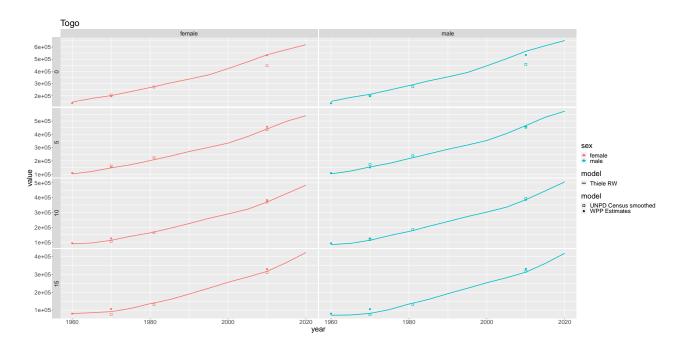


Figure 10: Population

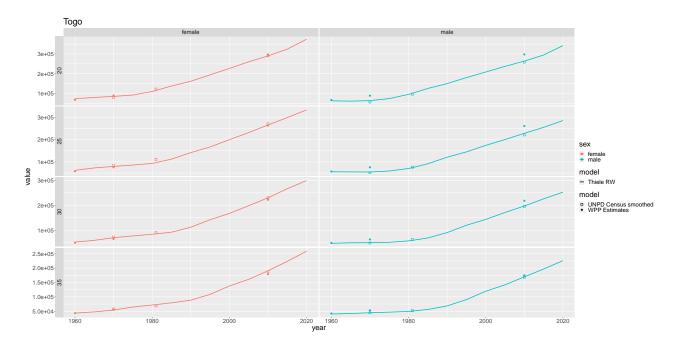


Figure 11: Population

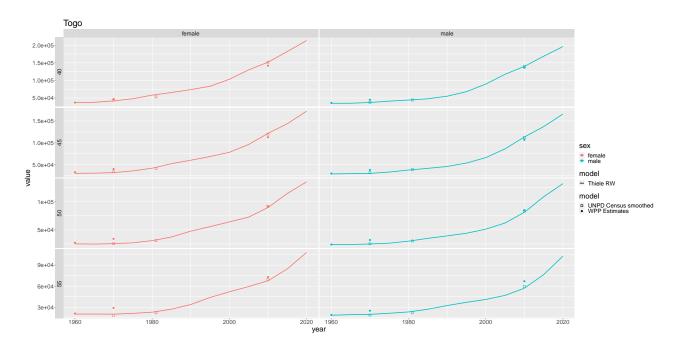


Figure 12: Population

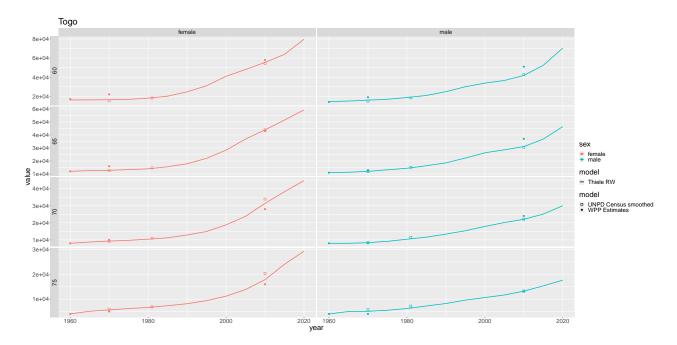


Figure 13: Population

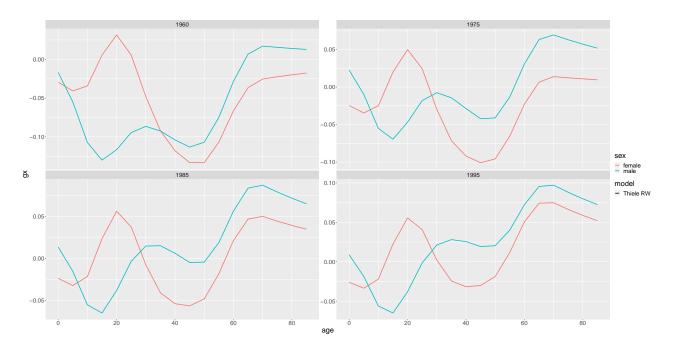


Figure 14: Migration

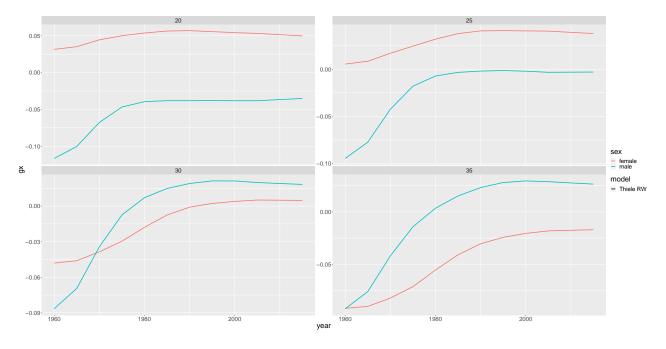


Figure 15: Migration

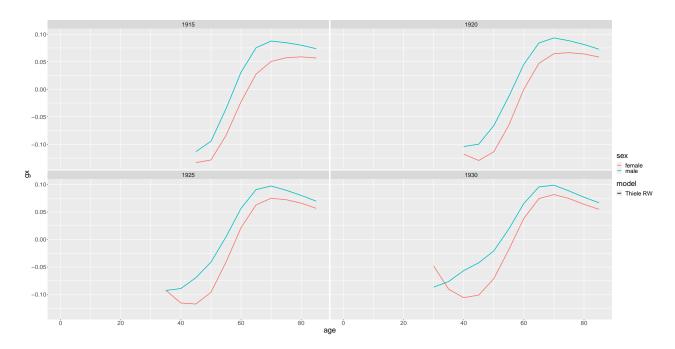


Figure 16: Migration

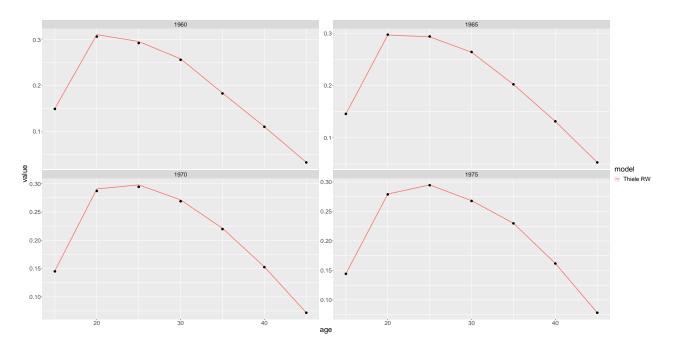


Figure 17: Fertility

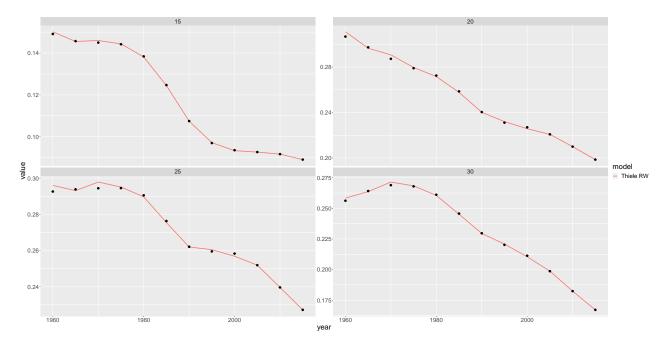


Figure 18: Fertility