Uganda

```
## [1] "Census Females"
  # A tibble: 18 x 5
##
                 1969
                           `1991`
                                               2014
      aggr.age
                                     2002
##
         <dbl>
                  <dbl>
                            <dbl>
                                      <dbl>
                                                <dbl>
##
   1
              0 930129. 1588010. 2272297
                                            2957078
##
              5 731111. 1300185. 2007532. 2712294
             10 549558. 1094822. 1722724
##
    3
                                            2417842.
##
             15 434495.
                          945137. 1428367
                                            2069875.
##
    5
             20 390729.
                          810596. 1179626. 1717473.
##
    6
             25 361647.
                          660747.
                                   950086. 1368221.
##
   7
             30 305570.
                          496738.
                                   724970. 1059694.
##
    8
             35 242940.
                          366751.
                                   549253.
                                             829410.
##
    9
             40 193769.
                          286792.
                                   417383
                                             647323.
             45 159740.
                          241832.
##
  10
                                   315234.
                                             507612.
##
  11
             50 130663.
                          200909.
                                   246670.
                                             399629
##
  12
             55 100014.
                          157153.
                                   201330.
                                             298196.
##
  13
             60
                 78521.
                          128719.
                                    166978.
                                             227526.
##
  14
             65
                 59246.
                          101687.
                                    131660.
                                             184058.
                 40716.
                           73663.
                                     97664.
                                             142292.
##
  15
             70
## 16
             75
                 27101.
                           40110.
                                     69288.
                                             100882
## 17
             80
                 20993.
                           62896.
                                     47141
                                               67594.
             85
                 22249.
                                     51094.
                                               87729
## 18
                              NA
## [1] "Census Males"
   # A tibble: 18 x 5
##
                 1969
                           `1991`
                                     `2002`
                                               2014
      aggr.age
##
          <dbl>
                            <dbl>
                                      <dbl>
                                                <dbl>
                  <dbl>
##
   1
              0 909559. 1566538. 2272126
                                            3173950
##
              5 739528. 1297857. 2006388. 2826413.
             10 575597. 1093664. 1709150. 2419458.
    3
##
             15 436525.
                          893378. 1346887. 1935705.
##
    4
##
    5
             20 361659.
                          724412. 1029835. 1487535
##
    6
             25 337569.
                          599335.
                                   838098. 1159955.
##
    7
             30 306226.
                          470448.
                                   684944.
                                             921679
##
    8
             35 256342.
                          351489.
                                   523329.
                                             744548.
                          271554.
##
   9
             40 207287.
                                   387733
                                             603126
## 10
             45 172495.
                          229568.
                                   284792.
                                             473080.
                          194606.
## 11
             50 141999.
                                   213544
                                             354774.
##
  12
             55 111405.
                          154572.
                                   174064.
                                             253985.
##
  13
                 89880.
                          123911.
                                    152881.
                                             187860.
##
  14
                 69752.
                           97836.
                                   126586.
                                             145840.
             65
##
  15
             70
                 50089.
                           73178.
                                     93752.
                                             109232.
## 16
             75
                 34483.
                           45277.
                                     65857.
                                               76481.
## 17
             80
                 26779.
                           69483.
                                     43377
                                               48602.
                 34082.
## 18
             85
                              NA
                                     44460.
                                               58889
Thiele log-Normal Hump RW
```

system elapsed

30.20

0.62

##

##

user

29.32

[1] "relative convergence (4)"

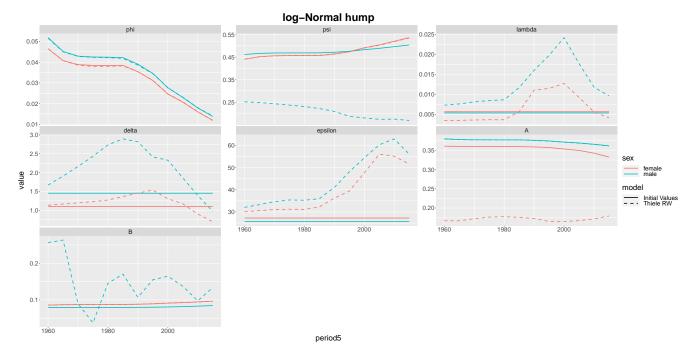


Figure 1: Estimated parameters

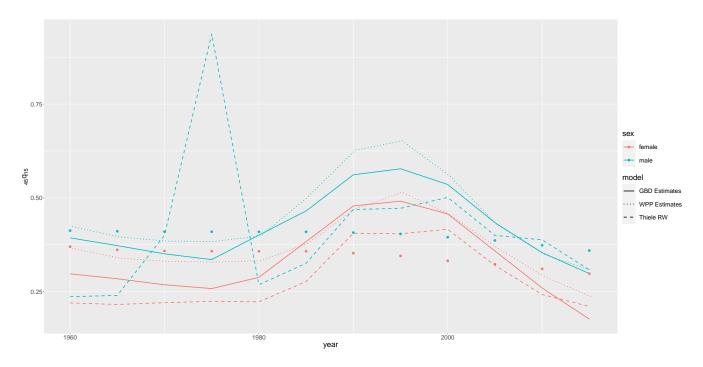


Figure 2: Estimated $_{45}q_{15}$

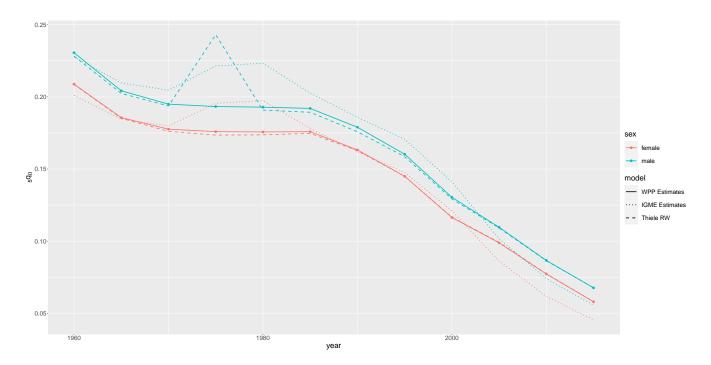


Figure 3: Estimated $_5q_0$

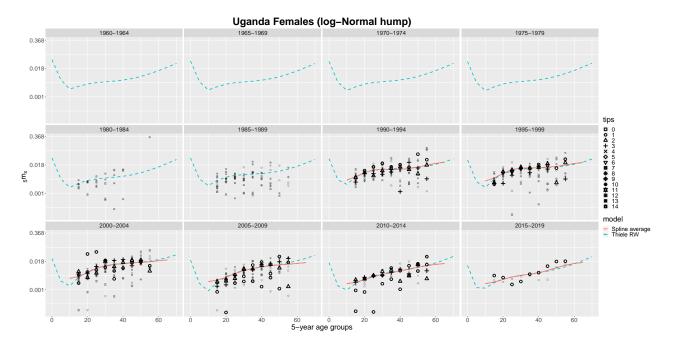


Figure 4: Mortality Schedules

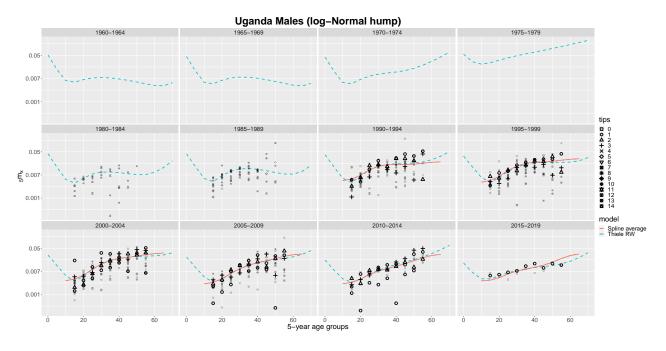


Figure 5: Mortality Schedules

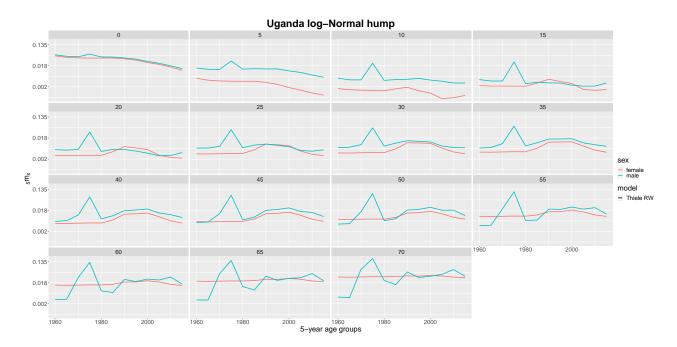


Figure 6: Mortality Schedules

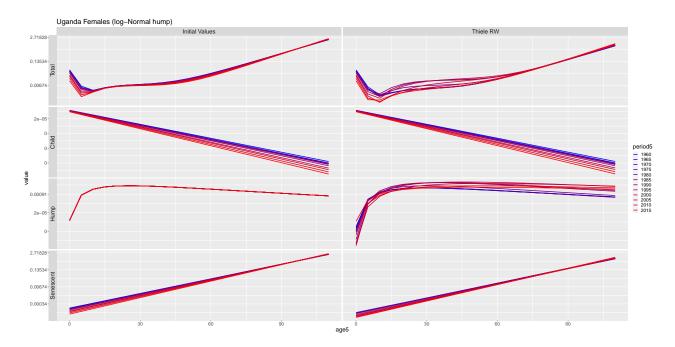


Figure 7: Thiele Decomposed

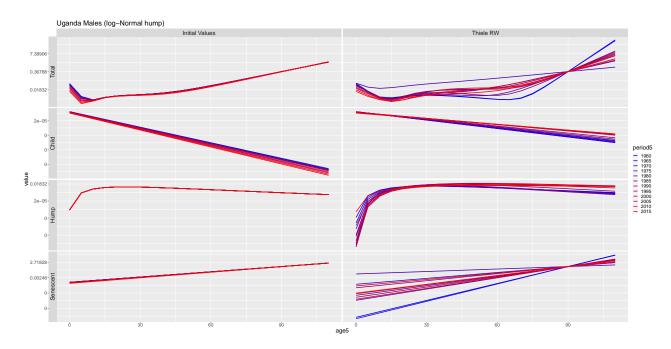


Figure 8: Thiele Decomposed

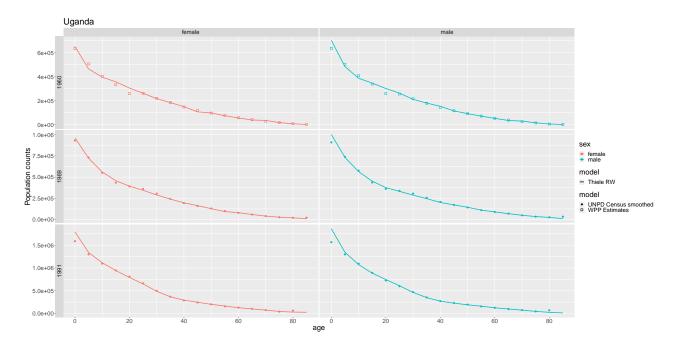


Figure 9: Population

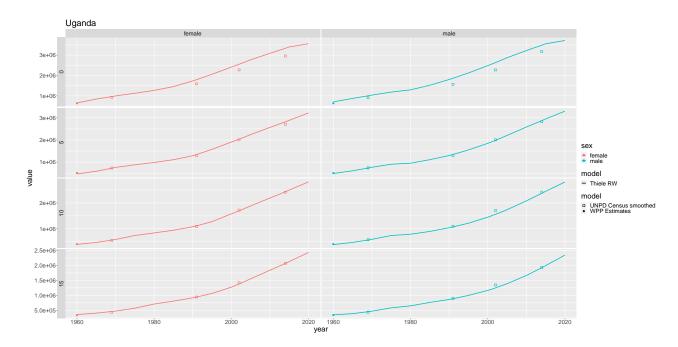


Figure 10: Population

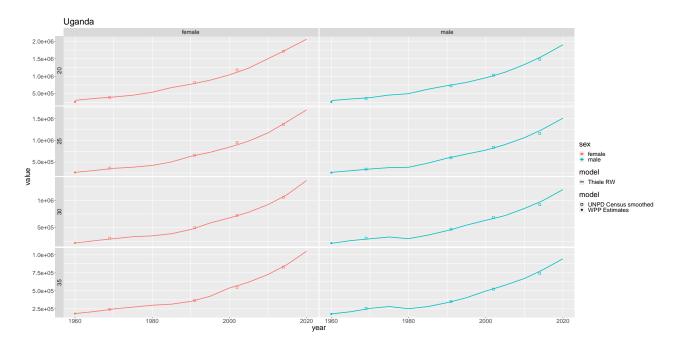


Figure 11: Population

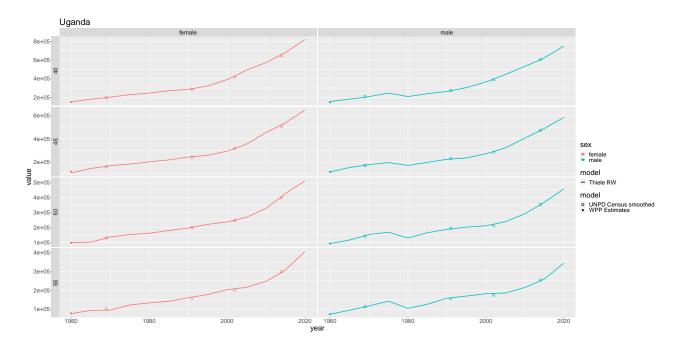


Figure 12: Population

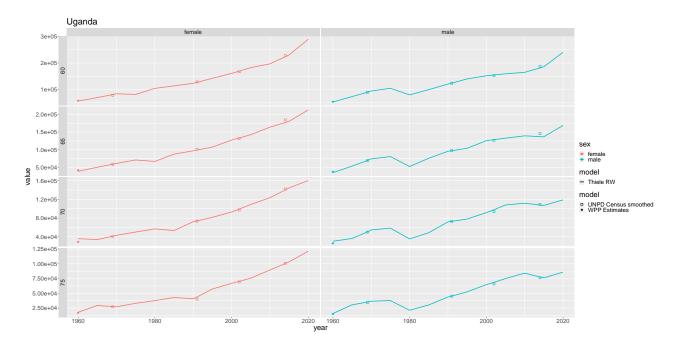


Figure 13: Population

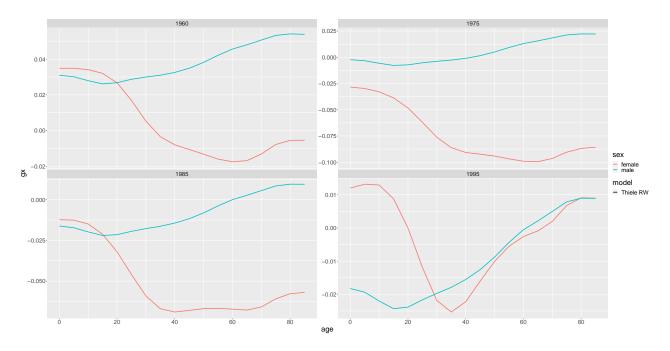


Figure 14: Migration

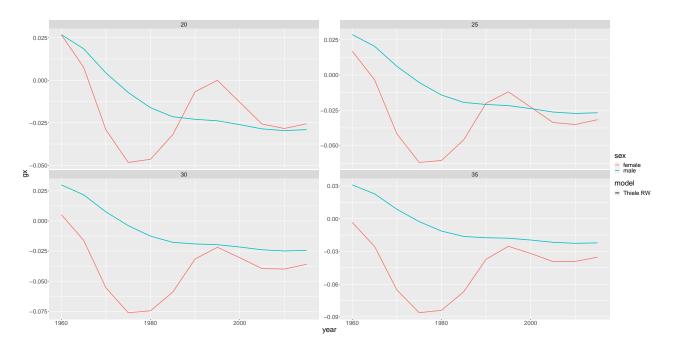


Figure 15: Migration

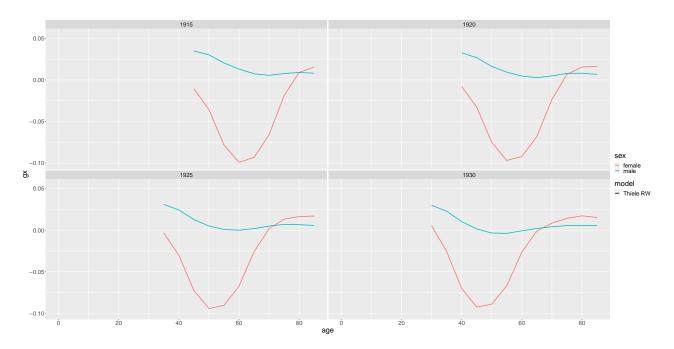


Figure 16: Migration

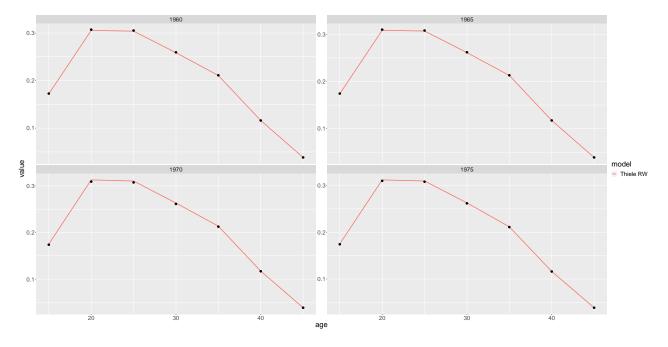


Figure 17: Fertility

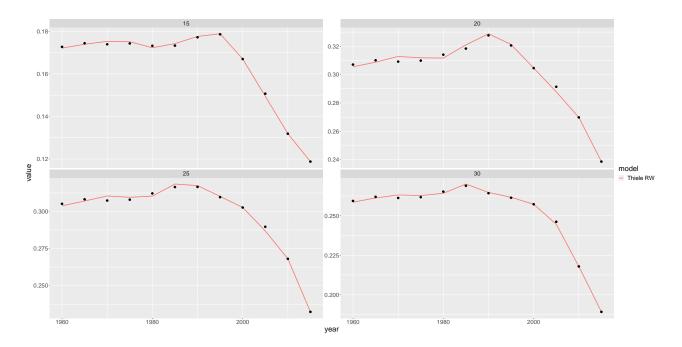


Figure 18: Fertility