

# Bayesian demographic account for New Zealand

Bayesian Demography Ltd

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## 1 Data



Figure 1: Census data

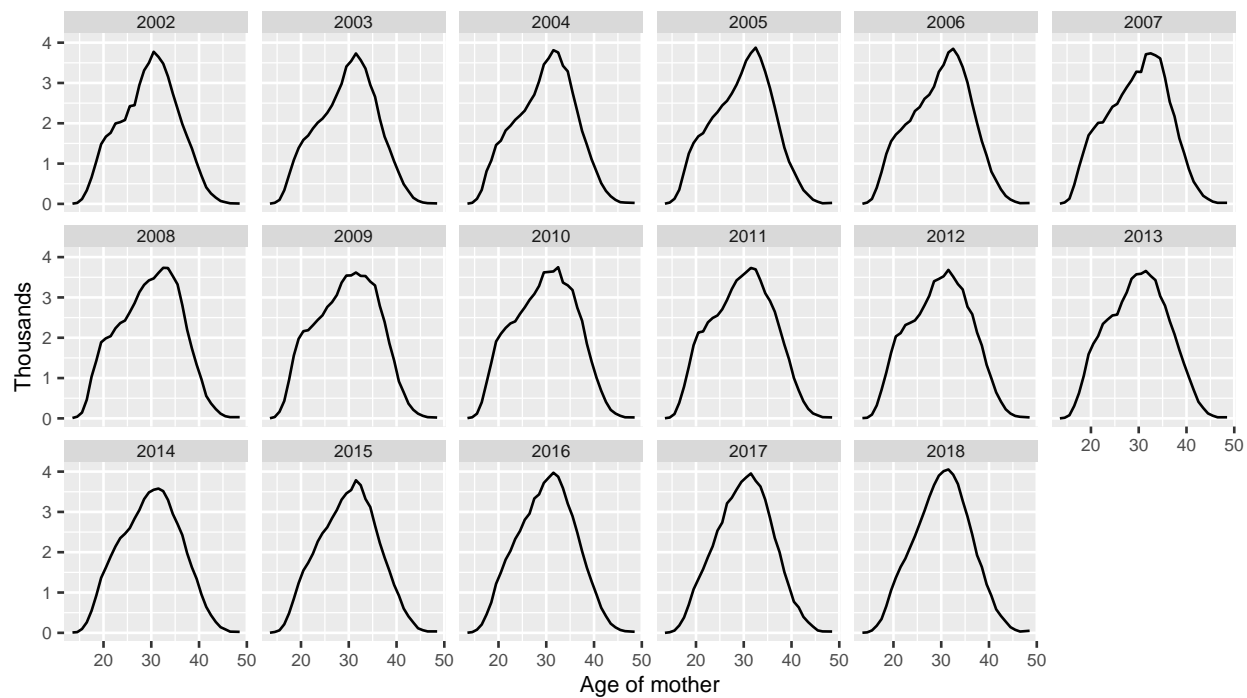


Figure 2: Registered births by age

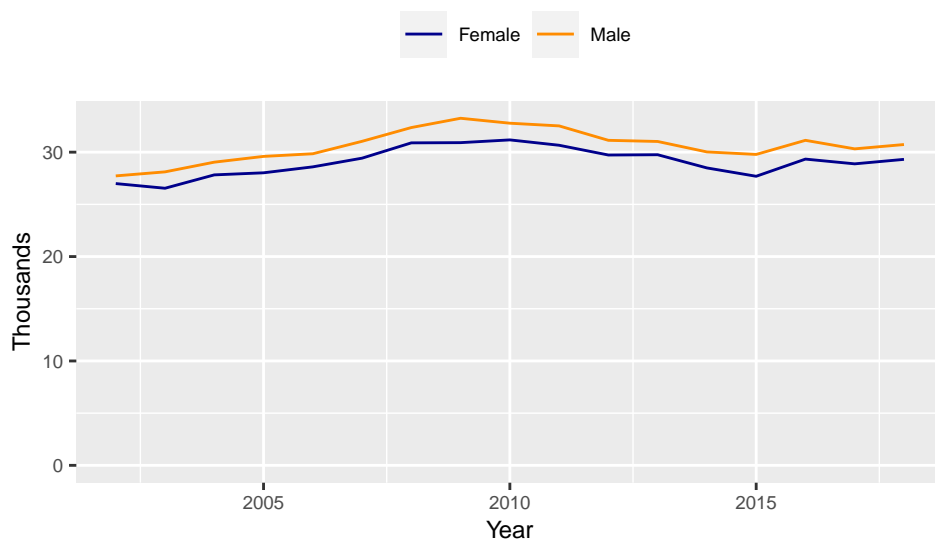


Figure 3: Registered births by sex

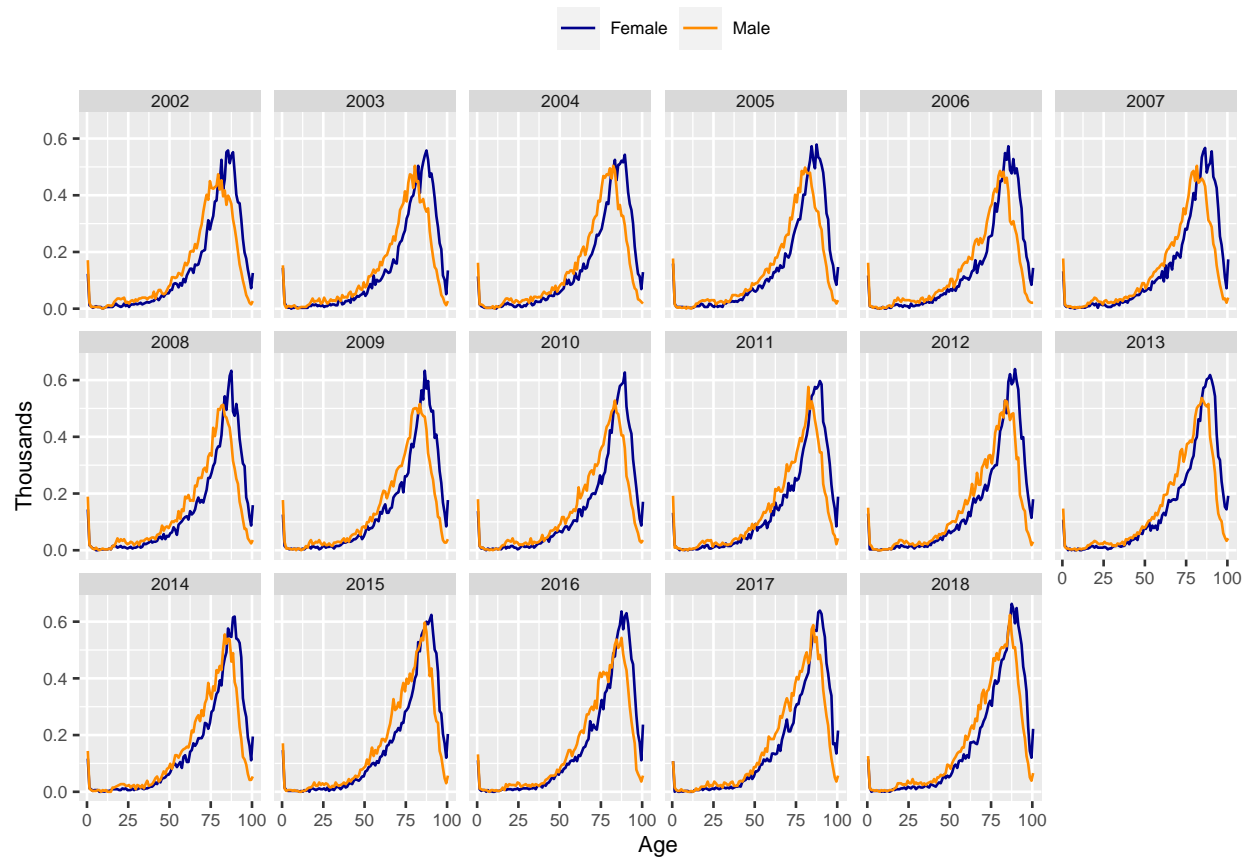


Figure 4: Registered deaths

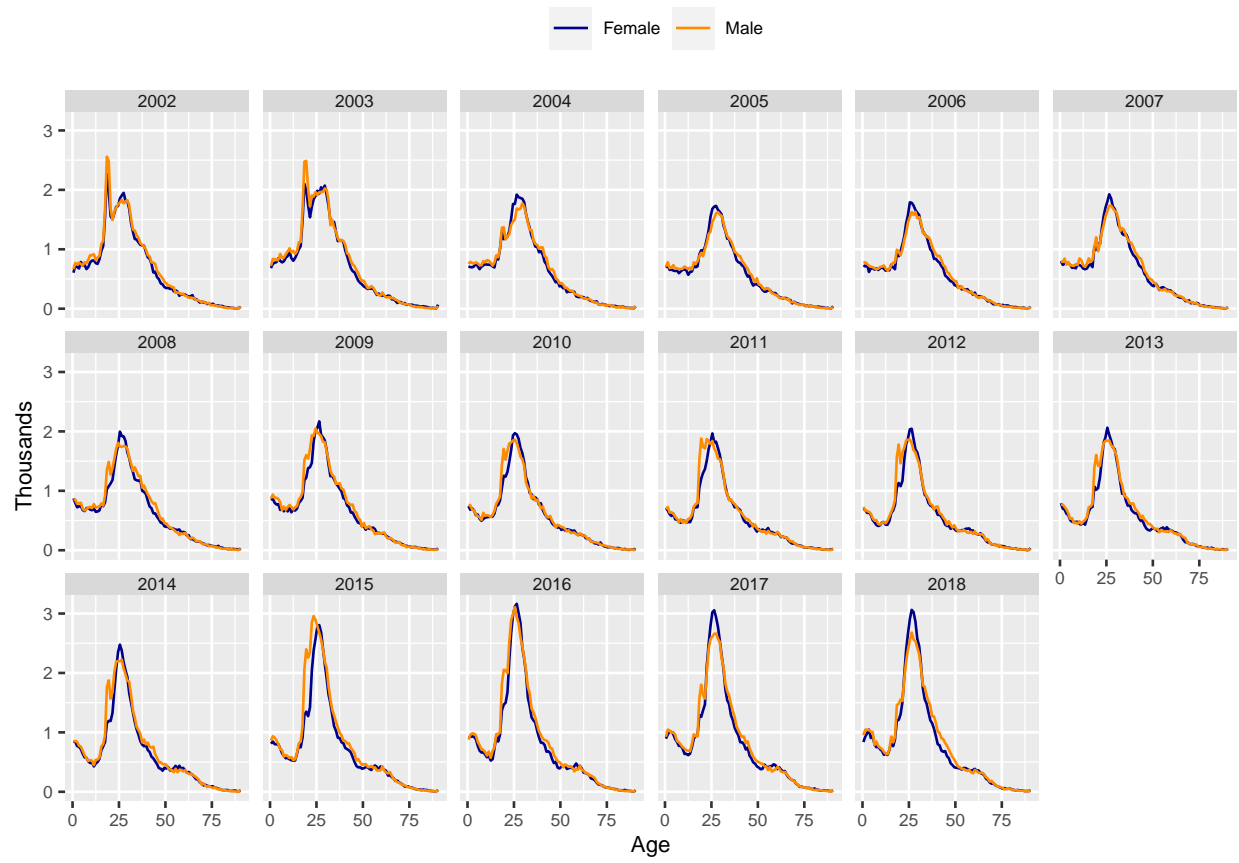


Figure 5: International arrivals

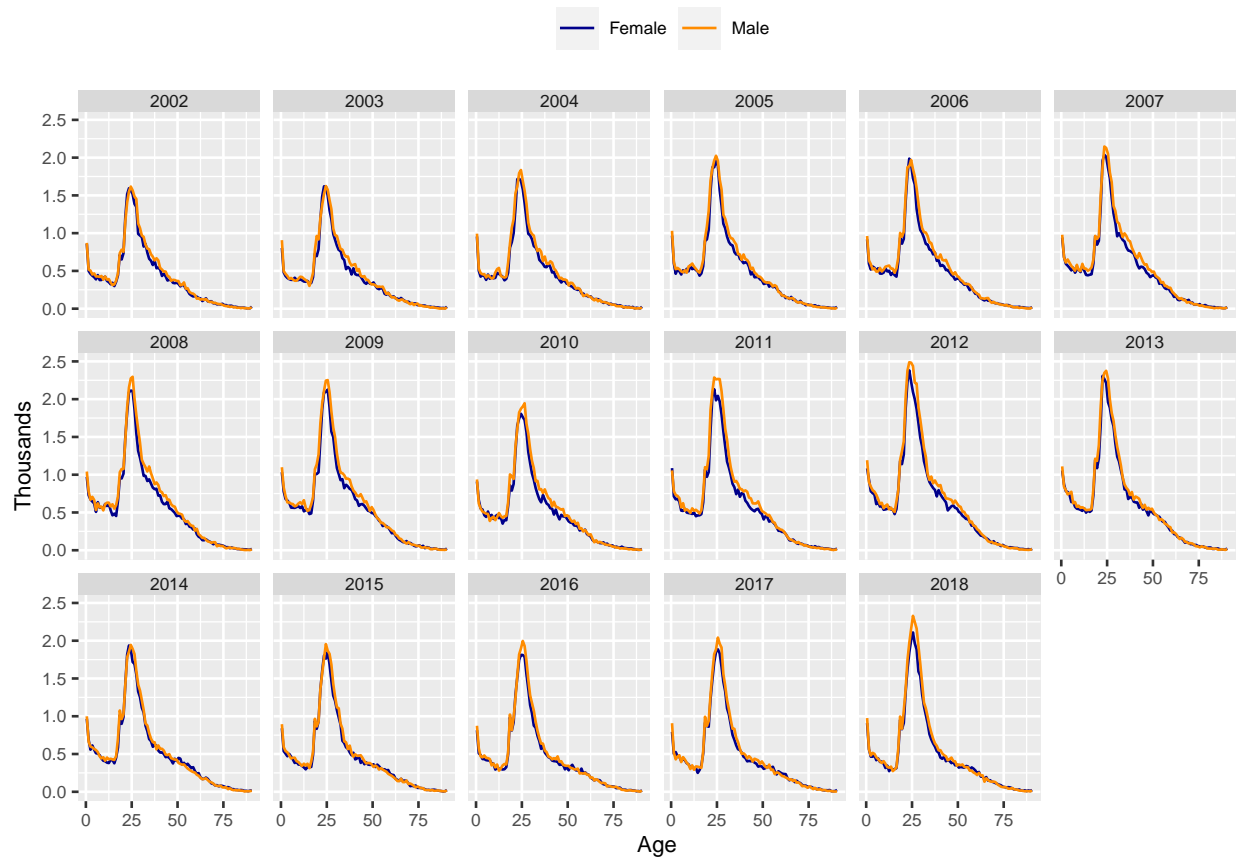


Figure 6: International departures

## 2 Estimates

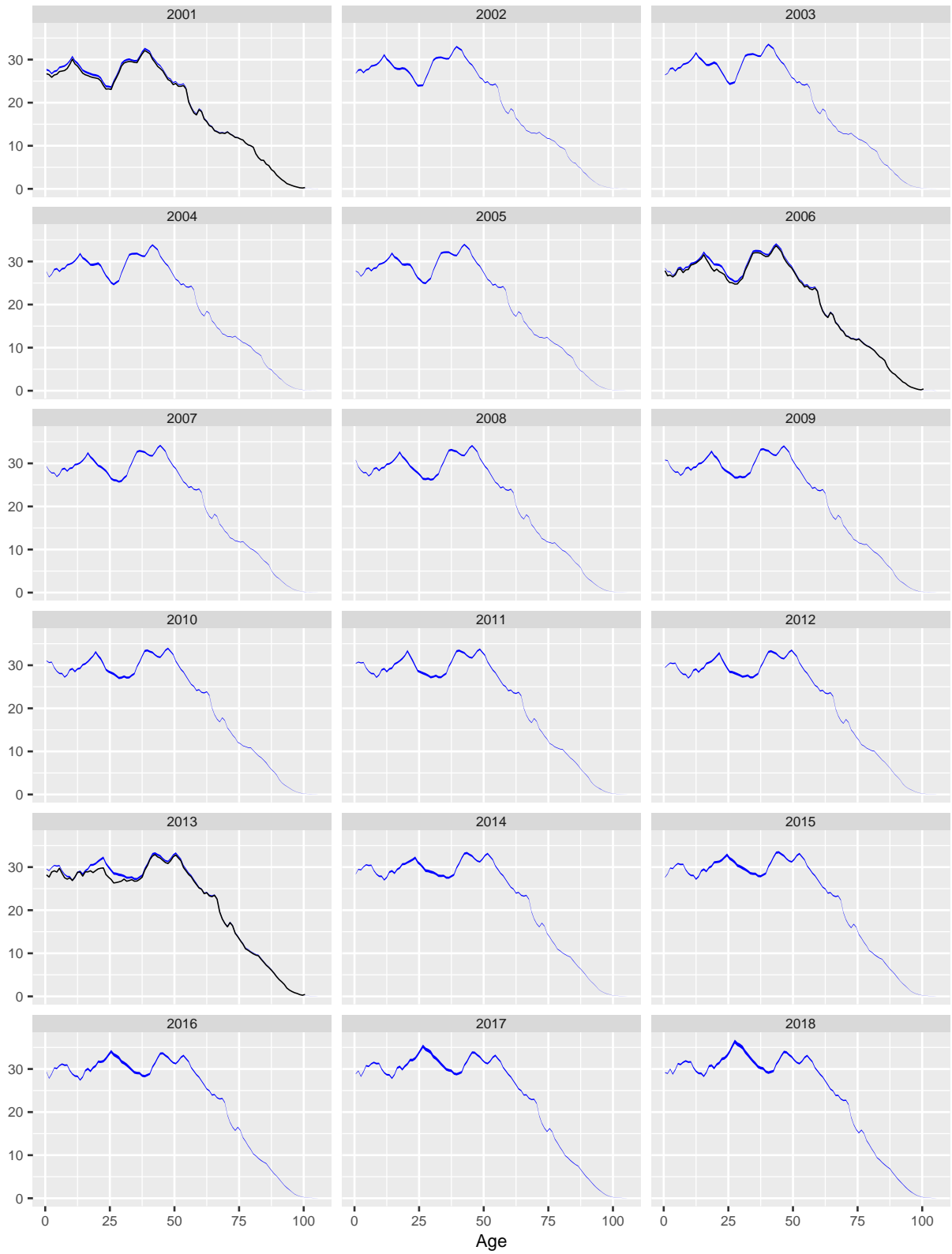


Figure 7: Population - female. Blue bands denote 95% credible intervals. Black lines denote unadjusted census counts.

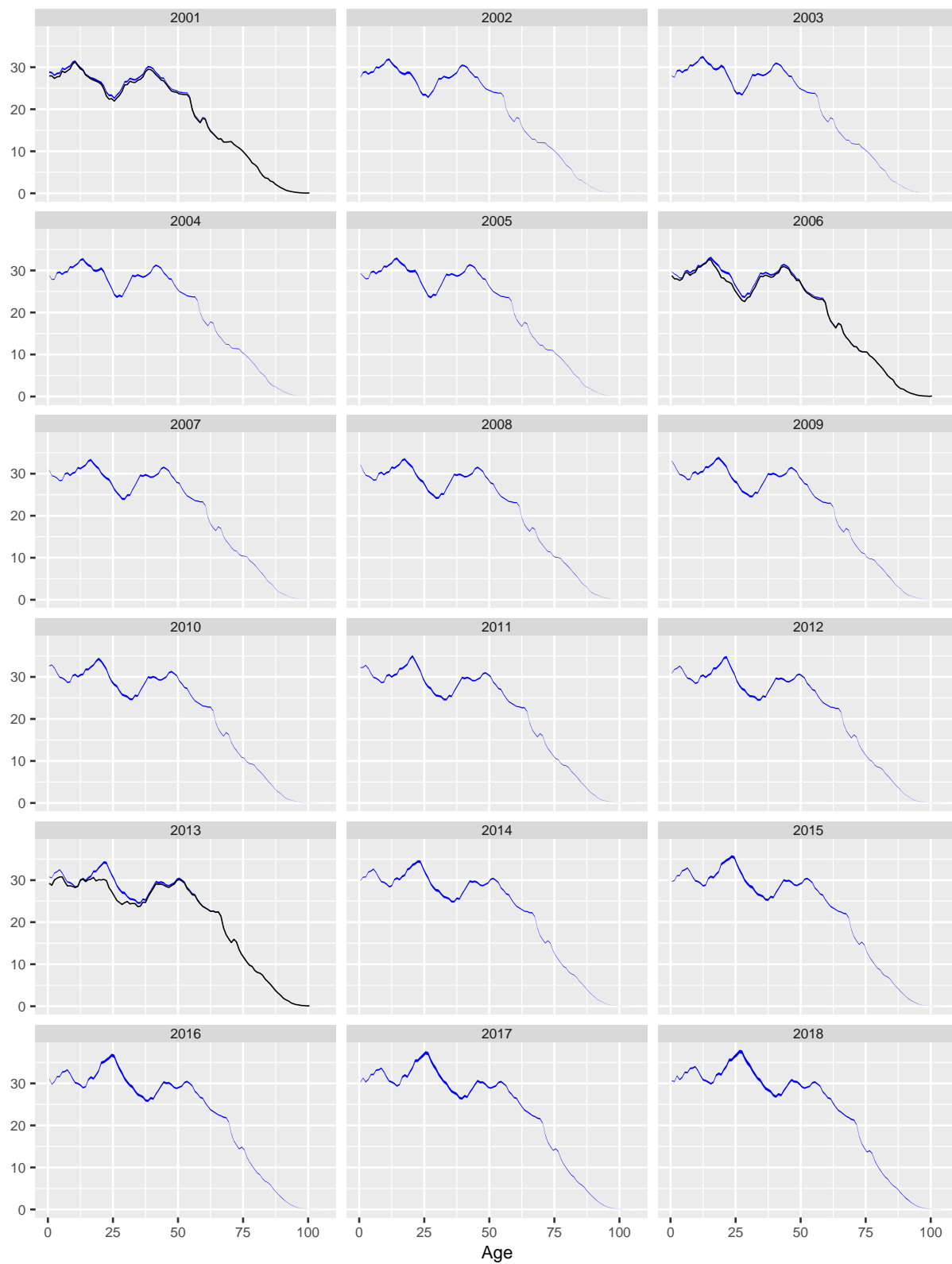


Figure 8: Population - male. Blue bands denote 95% credible intervals. Black lines denote unadjusted census counts.



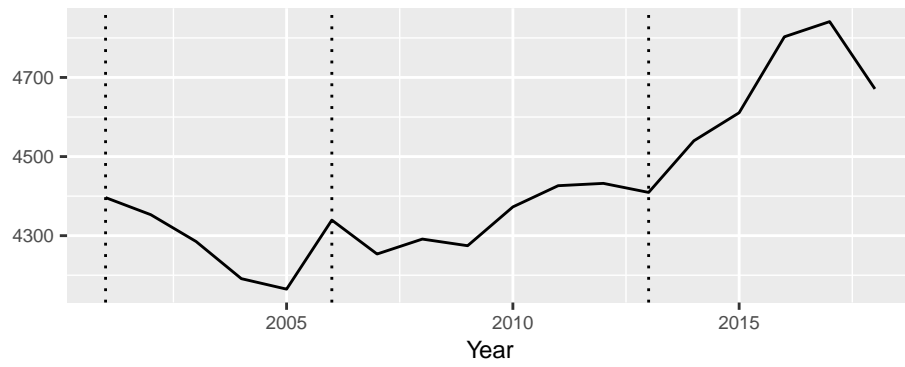


Figure 9: Width of 95% credible intervals for national population, over time. Dotted lines denote census years.

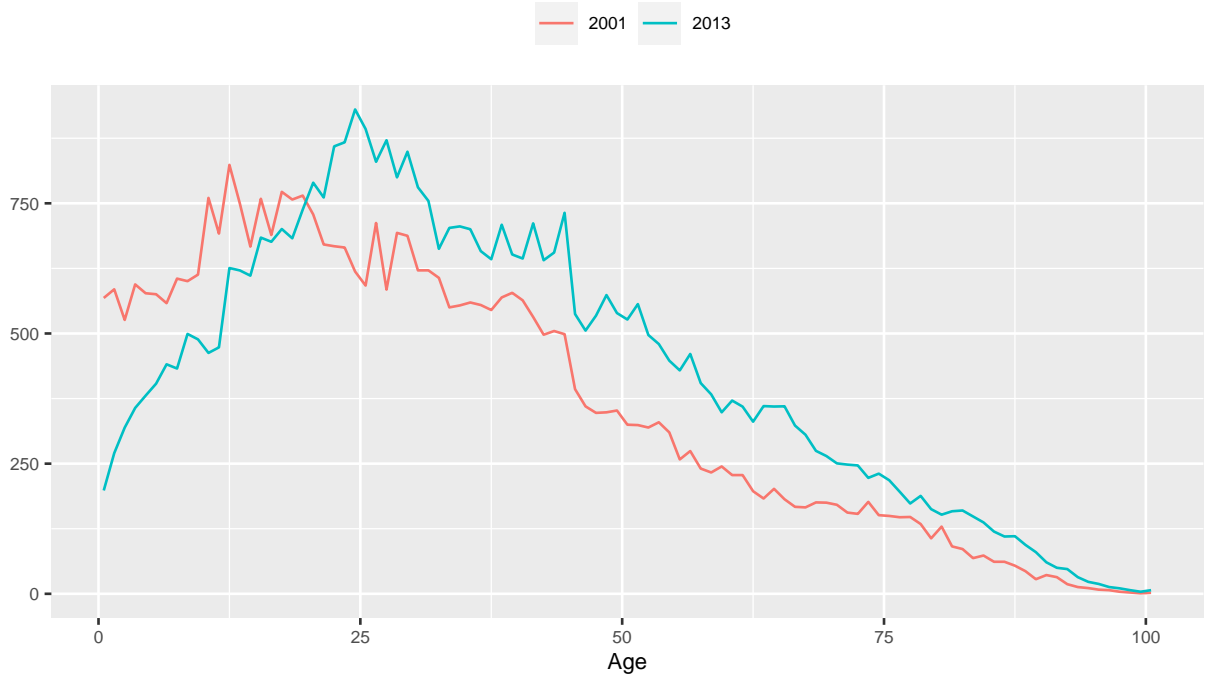


Figure 10: Width of 95% credible intervals for individual age groups, in two census years

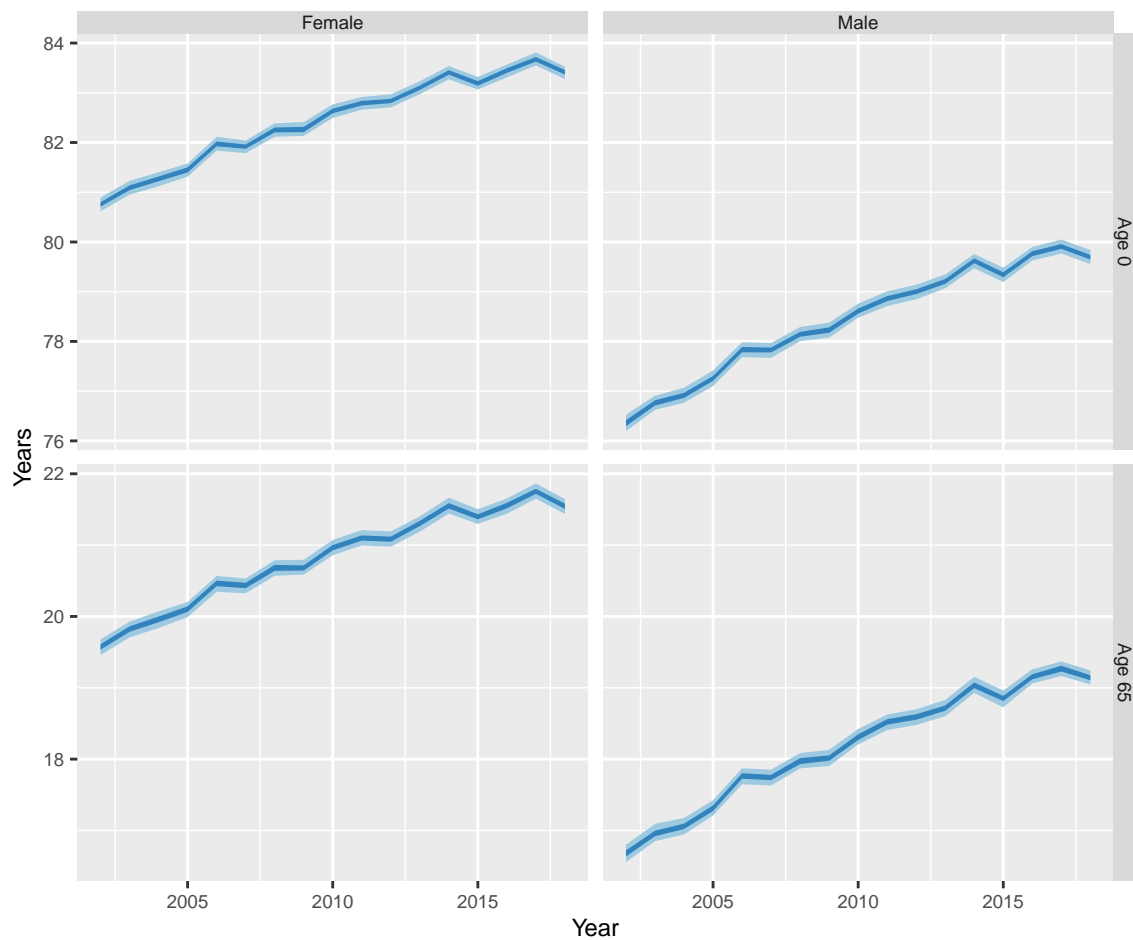


Figure 11: Life expectancy. Light blue bands denote 95% credible intervals, and dark blue bands denote 50% credible intervals.

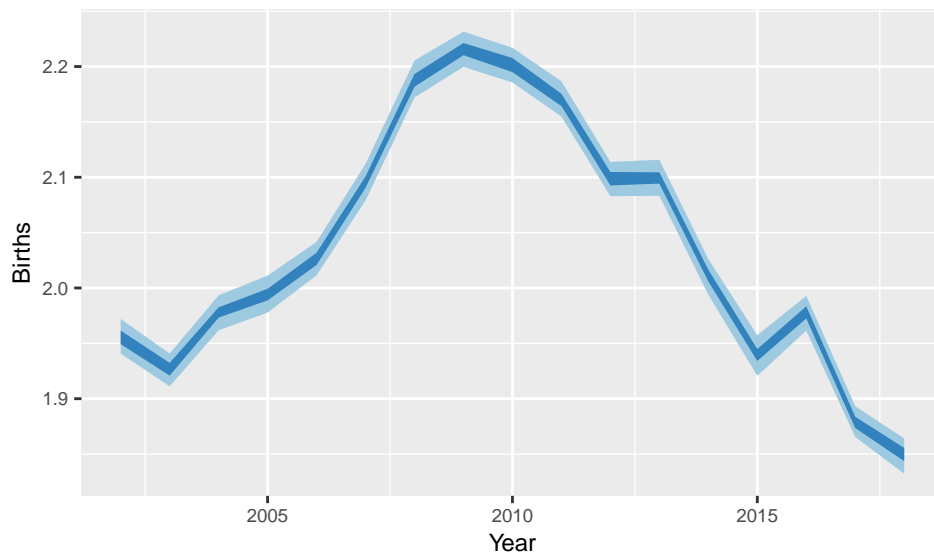


Figure 12: Total fertility rate. Light blue bands denote 95% credible intervals, and dark blue bands denote 50% credible intervals.

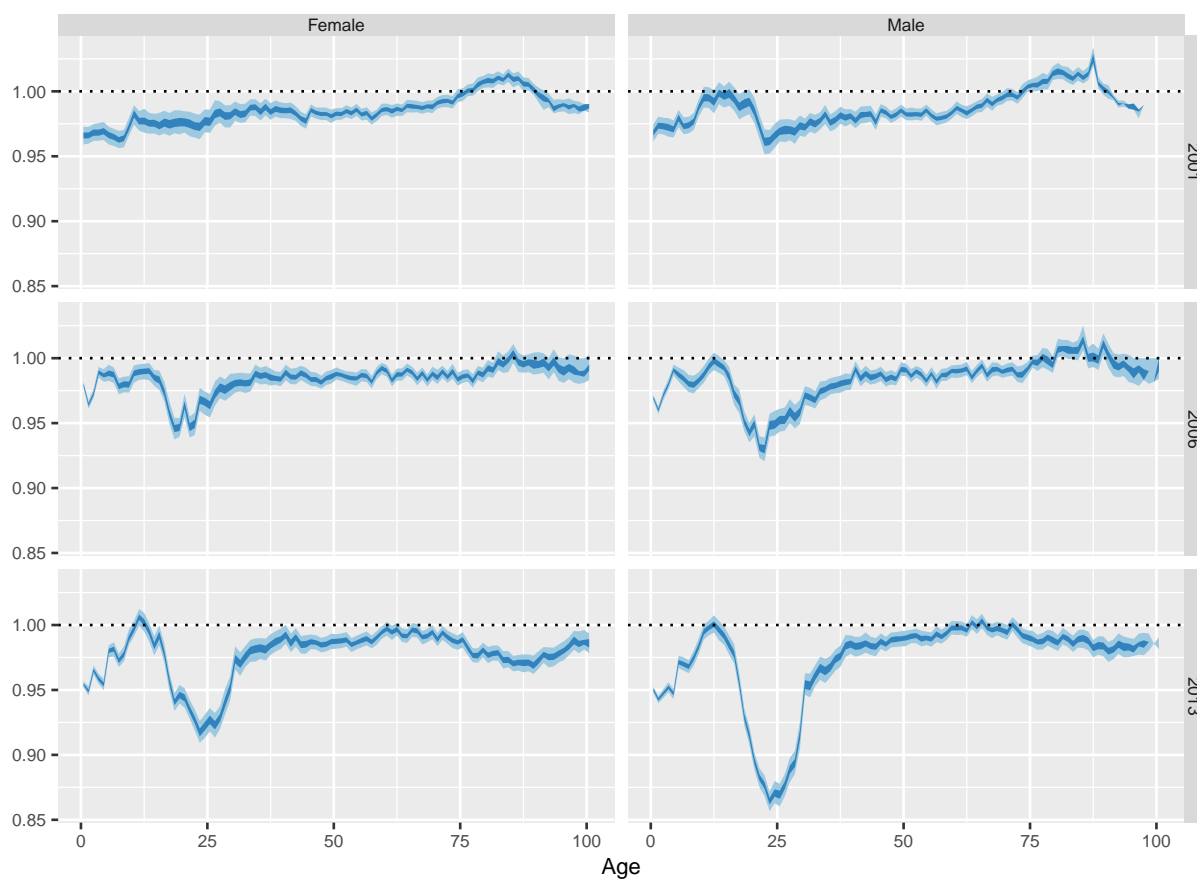


Figure 13: Estimated coverage ratios from censuses. Light blue bands denote 95% credible intervals, and dark blue bands denote 50% credible intervals.