Contents

List of figures  x
List of tables  xiv
Preface and acknowledgements  xxii

1 Introduction  1
  1.1 The fast-changing demography of England and Wales, c. 1880–1920  1
  1.2 Demography, national anxiety and the 1911 census  4
  1.3 A new approach to infant and child mortality – the historiographical context  8
  1.4 Fertility and nuptiality – debates and description  10
  1.5 Limitations of the present study  16
  1.6 Summary  20

2 Locations for study  24
  2.1 Introduction  24
  2.2 Selecting communities for study  25
  2.3 Brief histories of the thirteen locales  31
  2.4 Selection of the enumeration districts within locales  47

3 Studying locations  56
  3.1 From census enumerators’ books to data files  56
  3.2 Understanding the census variables  63
  3.3 The Fertility Inquiry  85
  3.4 Data analysis – some concepts  89
  3.5 Data analysis – spatial or social units? The ‘environments’  96

4 Infant and child mortality from the 1911 census  105
  4.1 Introduction  105
  4.2 Measuring infant and child mortality from the 1911 census  107
Contents

4.3 A comparison with the experience of the USA 114
4.4 The influence of environment versus social class in infant and child mortality 139
4.5 Multiple regression techniques 147
4.6 Confirming the relationships between environment, social class and infant and child mortality 149
4.7 The effects of social class and other socio-economic variables on infant and child mortality within different environments 154
4.8 Parity and infant and child mortality 160
4.9 The relative importance of variables 167
4.10 Do the influences on infant and child mortality operate through individual- or community-level characteristics? 172
4.11 Infant and child mortality differentials across time 185
4.12 Conclusions 197

5 Fertility and fertility behaviour 1891–1911 210
5.1 Introduction 210
5.2 Nuptiality 213
5.3 Calculating age-specific marital fertility rates and total marital fertility rates from census data 233
5.4 Measures of ‘stopping’ behaviour in marital fertility: $M$ and $m$ 249
5.5 An alternative measure of fertility – CPA 260
5.6 Retrospective histories of childbearing 268
5.7 Male occupation and fertility 289
5.8 Female occupations and fertility 299
5.9 The fertility of couples where both husband and wife returned an occupation in 1911 313
5.10 Conclusion 321

6 The national picture 337
6.1 Introduction 337
6.2 'Environment' at the national scale 343
6.3 National patterns of infant and child mortality 353
6.4 Nuptiality 366
6.5 The jigsaw that was national fertility in 1911 376
6.6 Conclusion 399

7 Class, place and demography: the mosaic of demographic change in England and Wales from Waterloo to the Great War 407
7.1 Environment and demographic change 407
7.2 Class, place and demography 412
7.3 Mortality in the nineteenth century from a compositional perspective 421
7.4 Decomposing fertility and reproduction 425
7.5 Conclusions 433
Appendices 441
Appendix A The indirect estimation of infant and child mortality and related applications 441
Appendix B Choice of regression method 468
Appendix C The values of community-level variables for each sector 471
Appendix D The percentage of the population of each county living in each type of place, subdivided by environment, England and Wales, 1921 474

References 478
Index 501