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## CONTINUOUS MORTALITY INVESTIGATION REPORTS

### REPORT NUMBER 16 (1998)

This volume contains several reports, most of which relate to the mortality experience of the 1991-94 quadrennium.

The first four reports record the mortality experience of assured lives, annuitants and pensioners for the 1991-94 quadrennium, and follow the style of previous quadrennial reports. The '80' Series tables are used as the comparison basis. The main feature of most of these reports is the continuing fall in overall mortality rates.

These are then followed by the first full quadrennial investigation into the mortality experience of smokers and non-smokers. This confirms the wide differentials reported in *CMIR 14*.

The next report is about the mortality of impaired lives. The experience is analysed on a rolling twelve-year basis, and this report covers the period 1983-94.

This is followed by a report which proposes a new standard mortality table for life office pensioners, based on the 1991-94 experience. This will form part of a full set of new standard tables based on the 1991-94 quadrennium, to be published in a later edition of *CMIR*.

Finally, there is a report on the group PHI experience for the 1987-90 quadrennium, based on the multi-state model approach developed in *CMIR 12* and the methods of analysis described in *CMIR 15*.

### REPORT NUMBER 17 (1999)

Apart from one report, this volume is devoted entirely to the new range of standard tables of mortality based on the 1991-94 experience. The '92' Series tables, as they are to be known, are more extensive than the '80' Series tables introduced by *CMIR 10*. Included for the first time are standard tables for female temporary assurances, amounts tables for immediate annuitants, and tables on the experience of retirement annuitants. The base table for the life office pensioners' experience was published in *CMIR 16*.

As well as providing a commentary on the methodology adopted in constructing the tables for the different experiences, this volume also includes a paper setting out how to calculate projection factors for mortality improvements for annuitant and pensioner tables.

The entire set of '92' Series base mortality rates, together with some projected rates, is included as an appendix. As with the '80' Series, complete sets of mortality rates, including projected rates and actuarial functions, can be produced via the Standard Tables Program.

The exception, referred to above, is a brief report on the distribution of policies per life assured for the 1991-94 experience.

### REPORT NUMBER 18 (2000)

This volume contains four reports relating entirely to PHI.

The first two reports cover the sickness experience for the 1991-94 quadrennium for, respectively, individual and group PHI policies. The multi-state model approach presented in *CMIR 12* and methods of analysis described in *CMIR 15* are used to analyse the claim inception and termination experience of the individual business and the claim termination experience of the group business.

The final two reports are research papers, written by Athol Korabinski and Professor Howard Waters of Heriot-Watt University, which focus on the differences in claim inception and termination experience between individual companies. The Executive Committee welcomes such contributions, and is happy to publish suitable papers that are derived from CMI data or research.