

## **SAMPLING FOR SUBPOPULATIONS IN HOUSEHOLD SURVEYS WITH APPLICATION TO MAORI AND PACIFIC SAMPLING**

This project was conducted in 06/07 by a team consisting of Robert Clark (CSSM, lead investigator), Robert Templeton (NZ Ministry of Health), Mike Doherty (Statistics New Zealand) and Angela Forbes (Statistics New Zealand). The project was funded by the Statistics New Zealand Official Research Fund with a budget of NZD\$69,100.

Many NZ national household surveys have a requirement to produce statistics with adequate precision both for the whole of NZ and for important subpopulations, particularly the Maori and Pacific populations. This project developed strategies for sampling subpopulations including:

- Optimal allocations for two-stage sampling with screening for subpopulations;
- comparison of the Maori electoral roll compared to ethnicity measured by the NZ Health Survey;
- the effect of inter-censal mobility on ethnicity benchmarks based on the NZ Census;
- the accuracy of proxy screening for ethnicity in the NZ Health Survey.

A full report has been published in the Official Statistical Research series at <http://www.statisphere.govt.nz/>

For further information, contact [Professor Ray Chambers](#).