

## Demographical Migration Analysis of 20 Cities in Niigata Prefecture Part 2: With a Central Focus on the Analysis of Mobility Changes

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This paper focuses on mobility changes in 20 cities in Niigata prefecture from 1980 onward, and discusses the changes between periods and individual areas in each city. Multiple regression analysis was performed with information available in 1980 as explanatory variables and mobility ratios from 1980 to 2015 of in-migration and out-migration as dependent variables, to attempt to extract factors causing mobility changes. As a result, in terms of period, mobility was highly subject to short-term fluctuations and also affected by the economic situation, and in terms of individual area, there was a large difference in the patterns of change between intra- and inter-prefecture migration. In addition, a marked difference in in-migration mobility change appeared between the Tokyo metropolitan area and other areas, and it became clear that in-migration mobility from the Tokyo metropolitan area had declined remarkably. The multiple regression analysis suggests the possibility that the high aging rate at the base period is greatly related to the subsequent reduction of in-migration mobility (both intra- and inter-prefecture migration). The result that the population structure by region obtained at the base period is significant in terms of changes in in-migration mobility in the future seems to be an important finding for migration research and regional population projections.