

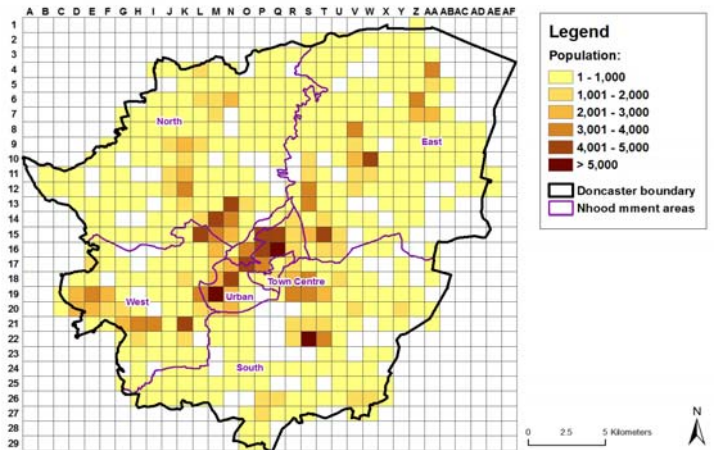


## Population estimation - Doncaster

### Aims

Doncaster MBC and Doncaster PCT, using neighbourhood renewal funding, commissioned Mayhew Associates (MA) to undertake a detailed assessment of population and deprivation in Doncaster.

The total size of the population is a key determinant of the central government grants given to local authorities and primary care trusts. The requirement was to establish a geo-referenced population base that could be flexibly manipulated to any desired spatial units (see map) and be used as a comparison with ONS estimates. The data would be in a form that could also be linked to other data, relating for example to education and health.



Population map of Doncaster using 1km x 1km cells

### What we did

In partnership with the PCT and local authority, we obtained and linked data from each agency to the Local Property Gazetteer. Several data bases were used to match people to addresses and to eliminate duplicates or people that had moved away. Through a process of iteration using a purpose developed technique, we were able to establish a confirmed geo-referenced population for Doncaster.

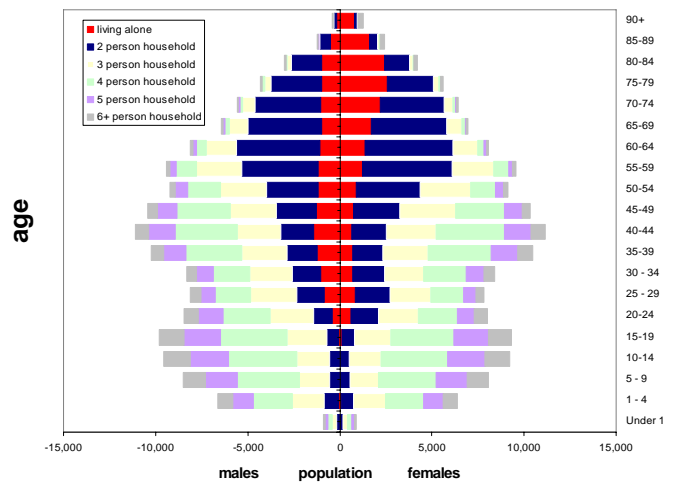


Chart showing household occupancy in Doncaster by age and number of persons (not including prison population)

### Outputs

We found that the confirmed population of 301,521 was 11,121 persons higher at December 2006 than the ONS 2006 MYE. We produced charts such as the pyramid above to produce policy relevant population decompositions that could inform both PCT and DMBC decision making. Households were also classified into types and local deprivation indices determined within user specified boundaries providing useful intelligence for targeting for example health initiatives. By linking the data base to other sources of administrative data including for example social services, school attainment, emergency hospital admissions and smoking cessation programmes we were able to build up detailed profiles of risk groups and where they lived.

*Tailoring services to local needs*

