

This is a repository copy of A New Classification Of UK Local Authorities Using 2001 Census Key Statistics.

White Rose Research Online URL for this paper: http://eprints.whiterose.ac.uk/5005/

Monograph:

Vickers, D., Rees, P. and Birkin, M. (2003) A New Classification Of UK Local Authorities Using 2001 Census Key Statistics. Working Paper. School of Geography, University of Leeds.

School of Geography Working Paper 03/03

Reuse See Attached

Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.



eprints@whiterose.ac.uk https://eprints.whiterose.ac.uk/

WORKING PAPER

03/03

A NEW CLASSIFICATION OF UK LOCAL AUTHORITIES

USING 2001 CENSUS KEY STATISTICS

Daniel Vickers, Phil Rees, Mark Birkin School of Geography University of Leeds Leeds LS2 9JT United Kingdom

> E-mail: d.vickers@geog.leeds.ac.uk p.rees@geog.leeds.ac.uk m.birkin@geog.leeds.ac.uk

> > October 2003

ABSTRACT

The 2001 Census has been successfully administered and the Census Organisations are currently engaged in processing the returns. A very large and rich dataset will be produced for the 58,789,194 people of the UK. The Census Area Statistics, for example, delivers 190 tables containing about 6 thousand unique counts relating to the characteristics of the UK population, for output areas and all higher geographies. This paper represents the first results of a project that aims to develop, in collaboration with the Office for National Statistics, a set of general purpose classifications at different geographic scales, including households, neighbourhoods, wards, local authorities and to link the classifications at different levels together. The paper reports on the methods used and results of a classification of the UK's 434 Local Authorities, using the Key Statistics released in February 2003. This initial classification and description of methods will feed into the ONS/GROS/NISRA project to classify Local Authorities for the whole UK.

Further data or digital versions of the classification system are available on request from Daniel Vickers.

ACKNOWLEDGEMENTS

The authors wish to thank firstly the ESRC and the ONS who provided funding for this project in the form of a CASE PhD studentship for Daniel Vickers. Many thanks must go to, Richard Webber, Tony Champion, John Stillwell, Graham Clarke, Danny Dorling, John Charlton, Alison Whitworth and Samantha Poole who have shown help and support and given useful and valuable comment.

CONTENTS

		Page
Abstract		ii
Acknowle	dgements	iii
Contents		iv
List of Fig	ures	vi
List of Ta		vi
1 Int	roduction	1
2 A	Review of the general procedures used in classification	2
	hat attributes?	2
2.2 Ho	w many clusters?	3
2.3 W	nich method of clustering?	5
2.3.1 Th	e procedure used in k-means classifications	3 5 5
2.3.2 Th	e advantages of arranging a classification hierarchically	7
3 A	Review of previous classifications of local authorities	8
4 Th	e Aims of the Paper	10
5 Th	e process of classification	10
5.1 Va	riable selection	10
5.2 Cl	ustering the Local Authorities	19
6 Cla	assification Outputs	24
6.1 Th	e Structure of Families, Group and Classes	24
6.2 LA	to cluster look-up table	27
6.3 Per	n Portraits	31
6.3.1	Family A: Urban UK	32
6.3.1.1	Group A1: Industrial Legacy	33
6.3.1.1.1	Class A1a: Industrial Legacy	33
6.3.1.2	Group A2: Established Urban Centres	34
6.3.1.2.1	Class A2a: Struggling Urban manufacturing	35
6.3.1.2.2	Class A2b: Regional Centres	36
6.3.1.2.3	Class A2c: Multicultural England	37
6.3.1.2.4	Class A2d: M8 Corridor	38
6.3.1.3	Group A3: Young and Vibrant Cities	39
6.3.1.3.1	Class A3a: Redeveloping Urban Centres	40
6.3.1.3.2	Class A3b: Young Multicultural	41
6.3.2	Family B: Rural UK	42
6.3.2.1	Group B1: Rural Britain	43
6.3.2.1.1	Class B1a: Rural Extremes	44
6.3.2.1.2	Class B1b: Agricultural Fringe	45
6.3.2.1.3	Class B1c: Rural Fringe	46
6.3.2.2	Group B2: Coastal Britain	47
6.3.2.2.1	ClassB2a: Coastal Resorts	48
6.3.2.2.2	Class B2b: Aged Coastal Extremities	49

6.3.2.2.3	Class B2c: Aged Coastal Resorts	50
6.3.2.3	Group B3: Averageville	51
6.3.2.3.1	Class B3a: Mixed Urban	52
6.3.2.3.2	Class B3b: Typical Towns	53
6.3.2.4	Group B4: Isles of Scilly	54
6.3.2.4.1	ClassB4a: Isles of Scilly	54
6.3.3	Family C: Prosperous Britain	55
6.3.3.1	Group C1: Prosperous Urbanites	56
6.3.3.1.1	Class C1a: Historic Cities	57
6.3.3.1.2	Class C1b: Thriving Outer London	58
6.3.3.2	Group C2: Commuter Belt	59
6.3.3.2.1	Class C2a: Commuter Belt	59
6.3.4	Family D: Urban London	60
6.3.4.1	Group D1: Multicultural Outer London	61
6.3.4.1.1	Class D1a: Multicultural Outer London	61
6.3.4.2	Group D2: Mercantile Inner London	62
6.3.4.2.1	Class D2a: Central London	63
6.3.4.2.2	Class D2b: The City of London	64
6.3.4.3	Group D3: Cosmopolitan Inner London	65
6.3.4.3.1	Class D3a: Afro- Caribbean Ethnic Boroughs	66
6.3.4.3.2	Class D3b: Multicultural Inner London	67
6.3.5	Family E: Northern Irish Heartlands	68
6.3.5.1	Group E1: Northern Irish Heartlands	68
6.3.5.1.1	Class E1a: Northern Irish Urban Growth	69
6.3.5.1.2	Class E1b: Rural Northern Ireland	70
6.4 Th	e Clusters with the highest and lowest values	71
6.5 Sir	nilarities of the Las	72
6.5 Ma	pping out the Clusters	72
Reference	5	83
Appendix	A List of variables showing inclusion, rejection or merger	84
Appendix	B Calculation of the 56 variables from Key Statistics National Report tables	89
Appendix	C List of similarity between LAs	92

LIST OF FIGURES

		Page
1	Correlation matrix of age variables	16
2	The distance between the most dissimilar local authorities within merged clusters	23
3	Map of the Five Families	73
4	Map of the three groups within the family A Urban UK	74
5	Map of the four groups within the family B Rural UK	75
6	Map of the two groups within the family C Prosperous Britain	76
7	Map of the three groups within the family D Urban London	77
8	Map of the seven classes within family A Urban UK	78
9	Map of the nine classes within family B Rural UK	79
10	Map of the three classes within family C Prosperous Britain	80
11	Map of the five classes within family D Urban London	81
12	Map of the two classes within family E Northern Irish Heartlands	82

LIST OF TABLES

		Page
1	The variation in size of the UK's LAs in terms of population and area	1
2	The 129 variables considered for use in the LA Classification	11
3	First 20 Rows and first 5 columns of the component loadings matrix	15
4	The variables with the highest and lowest standard deviation across all LAs	16
5	The final list of 56 variables to be used in the classification.	18
6	The structure of Families, Groups and Classes	26
7	The LA to cluster look-up table	27
8	The classes with that have the highest positive and negative values for each variable	71

1 Introduction

This paper classifies the 434 local authority units that cover the UK into an organised typology. The UK consists of 434 Local Authorities (LAs); these are a mixture of Metropolitan Districts, Unitary Authorities, Non-Metropolitan Districts and London Boroughs in England. Unitary Authorities in Wales, Council Areas in Scotland and District Council Areas in Northern Ireland. These are the units at which local government operates. They can vary greatly in size of population and area as shown in table 1. The average size is just over 135,000 people and 56,000 hectares.

Rank	LA Name	Population	Rank	LA Name	Area (hectares)
1	Birmingham	977,087	1	Highland	2,565,934
2	Leeds	715,402	2	Argyll & Bute	690,899
3	Glasgow City	577,869	3	Dumfries & Galloway	642,601
4	Sheffield	513,234	4	Aberdeenshire	631,259
5	Bradford	467,665	5	Perth & Kinross	528,581
430	Shetland Islands	21,988	430	Hammersmith & Fulham	1,640
431	Orkney Islands	19,245	431	Isles of Scilly	1,637
432	Moyle	15,933	432	Islington	1,486
433	City of London	7,185	433	Kensington and Chelsea	1,213
434	Isles of Scilly	2,153	434	City of London	290

Table 1 the variation in size of the UK's LAs in terms of population and area

Classifications provide a unique way of bringing together areal patterns from a range of variables, and identify areal similarities and dissimilarities between a range of different variables (Webber & Craig 1976). The idea of sorting things into categories based on similarities is not a new one. The basic premise of classification is a primitive one. The nouns of the English language are little more than labels to describe classes of objects into which objects can be place. When applied to the animal world objects can be divided into classes such as pigs, cows, and sheep (Everitt 1993).

In its widest sense, a scheme of classification represents a convenient technique for the organisation of a large dataset to enhance the efficiency of information recovery. Class labels describing arrangements of differences and similarities between objects of investigation provides a convenient summary of the data (Everitt 1993). Put simply classification is the process by which objects are placed into sets called classes on the basis of their properties.

A classification is a powerful and effective way of condensing a large volume of information, and summarising it into a single or small number of descriptive variables. Classifications are especially useful when used on socio-economic data such as that generated from the census. The census contains large amounts of specific information that in turn can be used as a basis by which further variables can be derived. It enables the variables that represent the characteristics of the population within an area to be grouped together using a variety of statistical techniques. This creates a single value for each area, which is descriptive of both the area and the people who live there. The classification can be used as a quick and easy assessment of the properties of an area and it can also be used to compare and contrast that area with other areas. Classifications enable similar areas, which are geographically spread to be grouped and by similar reasoning a classification enables areas that are geographically close or connected to be contrasted. Members of the groups share similarities based on the characteristics of their residents rather than their geography, the members of the groups do not have to contiguous.

This paper will start by reviewing the general procedures used in classification, then move on to review previous classifications of local authority areas. The aims of the paper will then be set out before presenting the outputs from the classification.

2 Review of the general procedures used in classification

The goal of classification is to arrange N units into M clusters such that the inter-M variation in attributes is maximise and the intra-M variation in attributes is minimised. However there are several problems to be solved in developing a classification.

2.1 What attributes?

The way in which the clusters are formed will reflect the variable attributes from which they are built, the attributes that are selected for the clustering process will drive the classification and determine whether two objects are put into the same, or a different group. There is no standard method for the selection of variables and it is far from an exact science. Variables

can be selected based on the factors that are thought to be important and variables are then simply chosen which, are thought to best represent those factors, in some cases little or no statistical testing is done on the variable choices. An opposing method would be to use a series of statistical methods to aid variable choice.

2.2 How many clusters?

The number of cluster selected can significantly alter the result that the classification produces, by having 11 clusters instead of 10 can completely alter the way in which the objects are separated. There are no rules as to what is the optimum or best number of cluster within a classification, each classification needs to be taken on its own merit and previous decisions such as variable choice and method of clustering will determine the most suitable number of clusters to be used. There is no standard method for choosing the most suitable number of clusters but a method that is being increasingly used is by measuring the increase in distance between the most dissimilar objects within merged clusters as the number of clusters to select are those before a large rise in the distance between the objects in the same cluster.

Before any further variable selection can be made the variables need to be standardised over the same range, this ensures that each variable has the same weighting on the classification. This is important when there is different type of data e.g. population density will give number of people per an area, however Detached housing is a percentage of all households. If these variables were clustered without being standardised it would add bias to the dataset. The method chosen for standardising the variables was to transform them into z-scores. The method for calculating z-scores is shown in equations 1 & 2, firstly the standard deviation is calculated. The z-score is then calculated by taking the mean value of the variable away from the value for that variable for each local authority in turn and then dividing them by the standard deviation of the variable across all local authorities. This should be repeated for all variables to standardise them over the same range.

3

The Standard deviation is defined as:

$$\sigma x = \frac{\sqrt{(x_i - \bar{x})^2}}{n} \tag{1}$$

The Standard normal variate or z-score is defined as:

$$Z_i = \frac{x_i - \overline{x}}{\sigma x} \tag{2}$$

There are other methods for variable standardisation, for example in the 1999 classification of Local Authorities the ONS used a range method defined as:

$$Z_i = 100 \frac{x_i}{x_{\text{max}} - x_{\text{min}}} \tag{3}$$

where x_{max} is the maximum value of x and x_{min} the minimum value of x

For their 2003 Local Authority classification they have decided to change there method slightly using a 90th/10th percentile method of standardisation, defined as:

$$Z_i = 100 \frac{x_i}{x_{90} - x_{10}} \tag{4}$$

where x_{90} is the 90th percentile value of x and x_{10} is the 10th percentile value of x, when the values of x are arranged from lowest to the highest and the cumulative percentage of cases (LAs).

The standard normal z-score was chosen above other methods as it reduces the effect of extreme values on the data. This is of great importance, as Table 1 shows there is great

variation within the areas to be classified. By reducing the effect of extreme values on the classification, the number of very small clusters will be limited, therefore creating a more usable and valuable classification system.

2.3 Which method of clustering?

The purpose of clustering is to find the best arrangement of N areas into M clusters for any number M. There are several methods of clustering, the most common and most widely used is k-means which produces a single predefined solution. In contrast to k-means, hierarchical clustering procedures produce a series of solutions from which one or more of the most suitable solutions can be selected.

2.3.1 The procedure used in k-means classifications

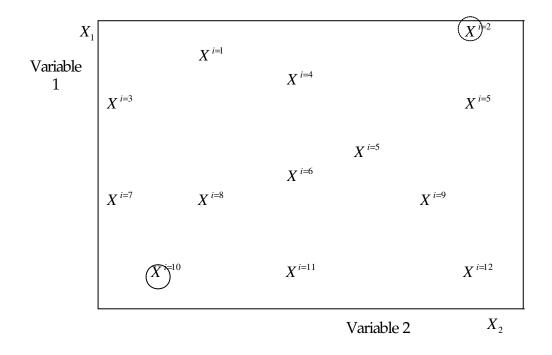
The K-means partitions *n* data points with *m* variables into *k* clusters. This results in a matrix of cluster centres J(k,m) which minimises the Euclidean sum of squares given by the equation:

$$J(k,m) = \sum_{i=1}^{n} \sum_{l=1}^{m} (Z_{ij} - Z_{cj})^{2}$$
(5)

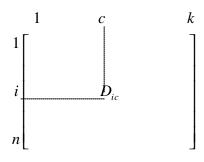
Where Z_{ci} = Value for cluster _c and variable _i

 Z_{ii} = Value for object i and variable i

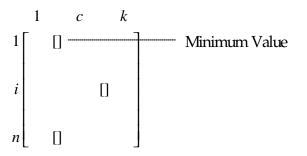
Step 1: Select cluster centres, set up J(k,m) with 2 values



Step 2: Compute distances from objects to clusters



Assign to the cluster with the minimum distance



Step 3: Compute new average values for cluster centres

$$Z_{cj} = \sum_{i \in c} Z_{ij} / M_c \tag{6}$$

The previous steps are repeated until a stopping criterion is met, i.e., when there is no further change in the assignment of the data points

2.3.2 The advantages of arranging a classification hierarchically

There are two main advantages of using a hierarchical method of clustering

- 1. Do not have to predefine the number of clusters
- 2. More than one level of classification can be produce which fits into the one above

At the start of the process each object is in a class by itself. Then in small steps the criterion by which the objects are clustered is relaxed to produces few but larger clusters on the next step up the hierarchy, this process continues until all the objects being clustered fall within a single cluster and therefore completing the hierarchy. The process of linking more and more objects together means that they are amalgamated into larger and larger clusters of increasing dissimilarity (Ward 1963).

The process of hierarchical clustering is a agglomerative or (bottom-up) approach beginning with n groups each containing 1 object then after merging them together ending with 1 group containing n objects. The process of getting from n to 1 groups can be summarised as below:

Step 1: Place each object *O* into its own cluster *C*, creating the cluster file *f* therefore:

 $f = C_1, C_2, C_3, \dots, C_{n-2}, C_{n-1}, C_n$

- Step 2: Compute a measure of similarity between every pair of clusters in the cluster file f to find the closest cluster to each cluster $\{C_i, C_i\}$
- Step 3: Remove C_i and C_j from f
- Step 4: Merge C_i and C_j to create a new cluster C_{ij} which will be the parent of C_i and C_j in the hierarchical cluster tree.
- Step 5: Return to step 2 and repeat until there is only one cluster left.

Methods of hierarchical clustering have been incorporated into the statistical packages for the social sciences (SPSS) and are frequently used to cluster census type information.

3 Review of previous classifications of local authorities

In *British Towns: A statistical study of their social and economic differences* Moser and Scott (1961) conducted one of the first comparative studies of the socio-economic variations across Great Britain. They grouped 157 British towns and cities into 14 groups, themselves arranged in three types with London county council left outside any group being unlike other cities in Britain. This marked an important juncture in the development of geodemographics as classifications moved from small study areas into comprehensive national systems. They used factor analysis to measure *common segments in an 'area of overlap'*. The analysis produced 4 factors: Social class, Population change 1931–51, Population change 1951–8, and Overcrowding. This enabled the authors to make a judgement as to which towns shared similarities, based on just 4 components rather than their original 57 variables. By graphing

the correlation values for each town against each other for each of the four components they were able to make an estimation as to which towns should be grouped together (Moser & Scott 1961). However their study received little practical application.

The real take off of area classifications came at the Centre for Environmental Studies, where Webber and colleagues developed a classification of residential neighbourhoods, which was based on the 1971 Census Small Area Statistics. This was adopted by the Office of Population Censuses and Surveys (OPCS) as their lower level area classification and developed further by CACI (an American market analysis firm). From these 1970s origins the Geodemographics 'industry' was born which saw a proliferation of classifications based on the census and non-census variables.

The OPCS Socio-Economic Classification of Local Authorities in Great Britain as described in (Webber & Craig 1978;Webber & Craig 1976) was the first to use census data (1971 census) to create a hierarchical classification of Britain at the local authority level. They created a two level hierarchy of 6 families and 30 clusters, firstly using the k-means method to create the 30 clusters, then using a hierarchical method of clustering to fit those 30 clusters into a higher level of 6 families. The OPCS developed the use of area classifications further with classifications at the local authority level based on both the 1981 and 1991 censuses.

A classification was made for the Office for National Statistics (ONS) the replacement of the OPCS for the local authorities of Great Britain based on 1991 census data (first done in 1996 then revised in 1999). They split Britain's 407 local authorities into a three tier hierarchy of 27, 15 & 7 clusters each was given a descriptive name such as 'Urban Fringe' or 'Growth Areas'. The classification was accompanied by a host of statistics and maps to form a

comprehensive picture of the social make-up of Britain at the local authority scale (Bailey et al. 1999).

4 The Aims of this paper

The aims of this paper are to create a general purpose classification of UK local authorities, which will have several key factors which set it apart from its predecessors.

- 1. Coverage The classification will cover the whole of the UK's 434 local authorities for the first time (previous classifications have only covered GB).
- 2. New Data The paper will make use of the most up to date information about the UK's population, the 2001 census data that was published in February this year.
- Linked Hierarchy of classifications The classification will be produced within three different and liked classifications that will enable comparison and analysis at three different levels

5 The Process of Classification

5.1 Variable Selection

The variables that are used in a classification are vitally important because the results that the classification produces will be determined by the variables which were included and excluded from the input (Blake & Openshaw 1995). For the classification to be to be comprehensive it needs to include variables all domains within the census (Demographic, Ethnicity, Household Composition, Housing, Socio-Economic, Employment and Health). What needs to be decided upon is how many variables each domain should include, and what those variables should be.

Therefore a representative set of census based variable indicators needs to be created. The importance of each domain should be a general reflection of the original census questionnaire rather than that of the cross-tabulated counts

A comprehensive list of list of 129 variables was selected (see table 2), by reviewing variables used in previous classification systems and adding variables which had been introduced in the 2001 census for the first time.

Variable	Domain
1 Population Density	Demographic
2 Male	Demographic
3 Female	Demographic
4 Communal Establishments	Demographic
5 People aged: 0 – 4	Demographic
6 People aged: 5 – 7	Demographic
7 People aged: 8 – 9	Demographic
8 People aged: 10 – 14	Demographic
9 People aged: 15	Demographic
10 People aged: 16 – 17	Demographic
11 People aged: 18 – 19	Demographic
12 People aged: 20 – 24	Demographic
13 People aged: 25 – 29	Demographic
14 People aged: 30 – 44	Demographic
15 People aged: 45 – 59	Demographic
16 People aged: 60 – 64	Demographic
17 People aged: 65 – 74	Demographic
18 People aged: 75 – 84	Demographic
19 People aged: 85 – 89	Demographic
20 People aged: 90 & over	Demographic
21 Married (Living in Couple)	Demographic
22 Cohabiting	Demographic
23 Single (Never Married)	Demographic
24 Married (Not living in Couple)	Demographic
25 Separated	Demographic
26 Divorced	Demographic
27 Widowed	Demographic
28 Born in: England	Ethnicity & Religion
29 Born in: Scotland	Ethnicity & Religion
30 Born in: Wales	Ethnicity & Religion
31 Born in: Northern Ireland	Ethnicity & Religion
32 Born in: Republic of Ireland	Ethnicity & Religion
33 Born in: Other EU Countries	Ethnicity & Religion
34 Born Rest of the World (Outside EU)	Ethnicity & Religion
35 Black minority ethnic groups	Ethnicity & Religion
36 Indian, Pakistani or Bangladeshi	Ethnicity & Religion
37 Chinese	Ethnicity & Religion

Table 2 The 129 variables considered for use in the LA Classification

38	White	Ethnicity & Religion
	Christian	Ethnicity & Religion
	Other Religion	Ethnicity & Religion
	Not Stated or No Religion	Ethnicity & Religion
	Limiting long-term illness	Health
	Residents whose health is good	Health
	Residents whose health is fairly good	Health
	Residents whose health is not good	Health
	Residents who provide unpaid care	Health
	* *	
	Unemployment	Employment
	Self-employed	Employment
	Economically active residents 16+	Employment
	Male Unemployment	Employment
	Working Women ft	Employment
	Women who work part-time	Employment
	Agriculture; hunting; forestry and fishing employment	Employment
	Mining, quarrying and construction employment	Employment
	Manufacturing employment	Employment
	Electricity; gas and water supply employment	Employment
	Wholesale & retail trade; repair of motor vehicles employment	Employment
_	Hotels and catering employment	Employment
	Transport, storage and communication employment	Employment
	Financial intermediation employment	Employment
	Real estate; renting and business activities employment	Employment
62	Public administration and defence employment	Employment
63	Education employment	Employment
64	Health and social work employment	Employment
65	Managers and senior officials employment	Employment
66	Professional occupations employment	Employment
67	Associate professional and technical occupations employment	Employment
68	Administrative and secretarial occupations employment	Emp loyment
69	Skilled trades occupations employment	Employment
70	Personal service occupations employment	Employment
71	Sales and customer service occupations employment	Employment
	Process; plant and machine operatives employment	Employment
73	Elementary occupations employment	Employment
74	No qualifications	Employment
	Highest qualification attained level 1	Employment
	Highest qualification attained level 2	Employment
	Highest qualification attained level 3	Employment
	Highest qualification attained level 4/5	Employment
	Full time Students	Employment
80	Large employers and higher managerial occupations employment	Employment
81	Higher professional occupations employment	Employment
82	Lower managerial and professional occupations employment	Employment
83	Intermediate occupations employment	Employment
	Small employers and own account workers employment	Employment
85	Lower supervisory and technical occupations employment	Employment
	Semi-routine occupations employment	Employment
87	Routine occupations employment	Employment
88	Never worked	Employment
89	Long-term unemployed	Employment
- 90	Train to work	Socio-Economic

91 Bus, Mini Bus or Coach to work	Socio-Economic
92 Car to work	Socio-Economic
93 Motorcycle, Scooter or Moped to work	Socio-Economic
94 Walk to work	Socio-Economic
95 Bike to work	Socio-Economic
96 Work mainly from home	Socio-Economic
97 Purpose-built flats	Housing
98 Terraced houses	Housing
99 Detached housing	Housing
100 Semi-detached Housing	Housing
101 Bedsits	Housing
102 Households With no residents: Vacant	Housing
103 Households With no residents: Second residence / holiday home	Housing
104 Caravan or other mobile or temporary structure	Housing
105 Households with 3+ cars	Socio-Economic
106 Households with 2 cars	Socio-Economic
107 Households with 1 car	Socio-Economic
108 No car households	Socio-Economic
109 Average number of cars per household	Socio-Economic
110 LA Rented	Housing
111 Owner occupiers	Housing
112 Private Rented	Housing
113 Mortgaged	Housing
114 Household size	Housing
115 Rooms per household	Housing
116 No central heating	Housing
117 Lacking bath, shower and toilet	Housing
118 Households: with an occupancy rating of -1 or less (Overcrowding)	Household Composition
119 One-person no-pensioner households	Household Composition
120 Single pensioner households	Household Composition
121 Wholly student households	Household Composition
122 2 adults no children	Household Composition
123 Only Pensioner households	Household Composition
124 Households with dependent children	Household Composition
125 Lone Parent Families	Household Composition
126 Households: With one or more person with a limiting long-term illness	Household Composition
127 Households: No adults in employment :with dependent children	Household Composition
128 Male lone parents	Household Composition
129 Population change 1991 – 2001	Demographic
N.D. Migartian data could not be used as it has not yet hear multiplied for Northern Iroland at the time	

N.B. Migration data could not be used, as it has not yet been published for Northern Ireland at the time when the classification was created.

These 129 variables needed to be assessed in terms of how much information they contain about the areas and the inter correlations within the data, this will enable the reduction of the list of variables whilst keeping as much information as possible.

Classification and Principal Components Analysis (PCA) are aspects of "social area analysis" which are two sides of the same coin. The attention each has received has fluctuated over the decades of the 20th Century. PCA can be used to establish which variables have the strongest

influence over the data; a correlation matrix can then be used to locate and remove high levels of correlation within the data. Alternatively many commercial firms prefer to use a strict PCA and cluster the components which are produced. Those components which represent the first 90% of the variance within the data are selected to be used in the cluster analysis. Each method is likely to produce slight variations in the final list of variables used in the cluster analysis.

It was decided that the most suitable method of variable selection for this project was to use the original variables rather than using PCA to produce surrogate variables. The interpretation of the results is easier when the original variables are used rather than composite components. However, PCA can play an important part in the selection of which variables to keep and which to throw away. PCA was run using the SPSS statistical package on the 129 variables producing both a 'component loadings matrix' and a 'correlation matrix'. The component matrix was studied first; this is a matrix showing how much of the variance of a variable was accounted for by each principal component. Variables which had a large amount of their variance covered by the early principal components will be those variables that are likely to have the most significance within the data and drive the classification. The component loadings of first five principal components for the variables that have the greatest amount of their variance associated with component one is shown in Table 3. The component loading is the correlation between a variable and a component. Variables that have a large amount of their variances covered by the first few principal components shows that a variable has a strong influence within a dataset.

			Component Loadings						
Variable Number	Variable Name	Ι	II	III	IV	V			
13	People aged: 25 - 29	0.89	0.10	-0.15	0.04	0.15			
118	Households: with an occupancy rating of -1 or less	0.88	0.21	0.08	0.15	-0.18			
37	Chinese	0.88	-0.13	0.10	0.03	0.09			
119	One-person no-pensioner households	0.87	0.19	0.22	0.01	-0.01			
34	Born Rest of the World (Outside EU)	0.86	-0.10	0.02	0.03	0.05			
1	Population Density	0.86	0.14	0.12	-0.10	0.03			
21	Married (Living in Couple)	-0.86	-0.40	-0.21	-0.01	-0.07			
92	Car to work	-0.85	0.02	-0.35	-0.10	0.09			
23	Single (Never Married)	0.84	0.36	-0.09	0.29	-0.02			
24	Married (Not living in Couple)	0.82	0.03	0.13	0.12	0.02			
97	purpose-built flats	0.80	0.08	0.22	-0.09	-0.30			
38	White	-0.79	-0.08	0.07	0.05	-0.09			
52	Women who work part-time	-0.78	-0.28	0.03	-0.34	0.15			
16	People aged: 60 - 64	-0.75	-0.11	0.49	0.04	-0.19			
33	Born in: Other EU Countries	0.74	-0.41	0.21	0.13	0.06			
35	Black minority ethnic groups	0.74	0.08	-0.02		-0.04			
61	Real estate; renting and business activities employment	0.73	-0.59	0.00	-0.11	-0.10			
12	People aged: 20 - 24	0.73	0.27	0.00	0.13	0.39			
15	People aged: 45 - 59	-0.73	-0.44	0.16	-0.05	-0.14			

Table 3 First 20 Rows and first 5 columns of the component loadings matrix

As well as establishing which variables power the dataset it is important to consider the correlations between variables. There is no sense in having two highly correlated variables as they will add little data to the classification. There are two different types of correlation between variables. Variables that are positive represent characteristics of people which are likely to be present in a person due to the type of person that they are, e.g. a student is likely to be in their late teens or early twenties therefore the full time student variable will be positively correlated with the age variable in which they fall as a large number of people who are in one group are likely to be in the other. Negative correlations occur between variables which represent characteristics that are unlikely to be present in a person for example people over 65 years of age are highly unlikely to be full time students therefore these two variables will high a high negative correlation. Negative correlations can also appear between variables within the same domain, an example of this is age groups. Age groups at opposite extremes i.e. young and old will be negatively correlated as an individual can only be of one age and therefore can only be in one of the groups. Areas with high numbers of old people are likely to have a low number of young people and this would make these two groups of people negatively correlated. This can be seen in the figure 1 the correlation matrix of age variables.

0 - 4	5 - 7	8-9	10 -	15	16 -	18 -	20 -	25 -	30 -	45 -	60 -	65 -	75 -	85 -	90+	Age
		· ·	14		17	19	24	29	44	59	64	74	84	89		
Х	0.84	0.68	0.55	0.45	0.47	0.15	0.27	0.49	0.56	-0.60	-0.75	-0.77	-0.72	-0.66	-0.61	0 - 4
	Х	0.91	0.81	0.70	0.67	0.05	-0.04	0.07	0.29	-0.31	-0.45	-0.51	-0.55	-0.57	-0.53	5 - 7
		Х	0.90	0.79	0.74	0.05	-0.13	-0.10	0.14	-0.18	-0.29	-0.37	-0.44	-0.52	-0.48	8 - 9
			Х	0.92	0.88	0.09	-0.20	-0.25	-0.08	-0.07	-0.13	-0.22	-0.31	-0.41	-0.39	10 - 14
		_		Х	0.92	0.16	-0.15	-0.24	-0.14	-0.07	-0.09	-0.18	-0.28	-0.38	-0.37	15
			-		Х	0.21	-0.09	-0.17	-0.13	-0.11	-0.14	-0.23	-0.32	-0.39	-0.37	16 - 17
				-		Х	0.81	0.29	-0.08	-0.54	-0.43	-0.36	-0.30	-0.29	-0.29	18 - 19
					-		Х	0.72	0.27	-0.78	-0.69	-0.58	-0.45	-0.37	-0.37	20 - 24
						•		X	0.69	-0.78	-0.80	-0.76	-0.64	-0.52	-0.49	25 - 29
							I		Х	-0.42	-0.70	-0.78	-0.78	-0.68	-0.62	30 - 44
								L.		Х	0.79	0.61	0.47	0.41	0.39	45 - 59
									•		Х	0.91	0.74	0.62	0.57	60 - 64
												Х	0.91	0.78	0.73	65 - 74
													Х	0.93	0.88	75 - 84
														Х	0.97	85 - 89
															Х	90+

Figure 1 Correlation matrix of age variables

In addition to the correlations between the variables another thing that needs to be considered is the variance of the variable across all local authorities. One way of doing this is to compare the standard deviation of each variable, so that the variables which show the biggest differences between the LAs are identified. The variables with the highest and lowest standard deviation can be seen in table 4, which shows how different the standard deviation can be for each variable ranging from as high as 31.54 down to 0.14.

	Largest Std. Deviation		Smallest Std. Deviation			
Rank	Variable	S.D.	Rank	Variable	S.D.	
1	Born in: England	31.54	129	Household size	0.14	
2	Born in: Scotland	22.45	128	People aged: 15	0.16	
3	Average number of cars per Hhold	22.28	127	People aged: 90 & over	0.22	
4	Born in: Northern Ireland	21.63	126	People aged: 8 - 9	0.25	
5	Population Density	18.74	125	People aged: 16 - 17	0.30	
6	Born in: Wales	16.37	124	Chinese	0.34	
7	Detached housing	13.87	123	Lacking bath, shower and toilet	0.36	
8	purpose-built flats	10.84	122	People aged: 85 - 89	0.36	
9	Car to work	10.80	121	People aged: 5 - 7	0.37	
10	Terraced houses	9.63	120	M'cycle, Scooter or Moped to work	0.39	
11	No car households	9.41	119	Elec, gas & water supply employ	0.41	
12	Owner occupiers	9.01	118	Rooms per household	0.44	
13	White	8.70	117	Long-term unemployed	0.49	
14	Christian	8.48	116	People aged: 18 - 19	0.49	
15	Semi-detached Housing	8.43	115	Caravan or temporary structure	0.51	

Table 4 The variables with the highest and lowest standard deviation across all local authorities

It is much more reliable to use all of the different methods of selection as mentioned above. Using just one you can make a case for most variables e.g. Chinese that has 88% of its variance represented by Principal Component One suggesting that it could be an important variable. However it has the 6th lowest standard deviation showing that it varies very little between local authorities and is therefore unlikely to add significant value to the classification in terms of separating local authority areas into dissimilar clusters.

It is also important to consider which variable domains are covered by the variables that have been selected. The Classifications also vary greatly in the variables that are used to make the classifications. As there are so many different variables that have been used in the classifications it was essential to group the variables in some way to enable a meaningful comparison between them. The purpose of the investigation is to capture the complete spectrum of people's lives, living arrangements and problems. Therefore the classification can be seen as being based on people's 'socio-economic life course' in which, each person experiences a sequence of several parallel 'careers' during their lifetime. The variables used in the classifications can be split into separate domains each representing a different 'career' within the 'socio-economic life course'. The variables within the classification were split in seven domains or 'careers' that represent different types of variables. The seven domains covered by the variables have been named: Demographic, Employment, Ethnicity & Religion, Household Composition, Health, Housing, and Socio-Economic. Variables from each of these domains need to be included in the final variable list to ensure that many different types of data representing different characteristics of the people who live within each local authority.

After all the criteria for reducing the variable list had been considered a final list of 56 variables was produced. So, 73 variables were either dropped from the list or merged with another variable to create a less specific variable. The variables along with the reason behind their inclusion or non inclusion are listed in Appendix A. The final list of variables used can be found in table 5. The references for the calculation of the final 56 variables from the Key Statistics National Reports can be seen in Appendix B.

17

In general an attempt was made to reduce the list of 129 as much as possible but with losing as little as possible of the information they contain. To do this variables that show extremes within the population have been treated as the most important variables to keep as they are the most likely to distinguish between areas.

Variable	Domain
1 Population Density	Demographic
2 People aged: 0 - 9	Demographic
3 People aged: 10 - 17	Demographic
4 People aged: 18 - 24	Demographic
5 People aged: 25 - 29	Demographic
6 People aged: 45 - 64	Demographic
7 People aged: 65+	Demographic
8 Married	Demographic
9 Single (Never Married)	Demographic
10 Born outside UK	Ethnicity & Religion
11 Black minority ethnic groups	Ethnicity & Religion
12 Indian, Pakistani or Bangladeshi	Ethnicity & Religion
13 Christian	Ethnicity & Religion
14 Other Religion	
15 Limiting long-term illness	Ethnicity & Religion Health
16 Residents whose health is good	Health
17 Residents who provide unpaid care	Health
18 Unemployment	Employment
19 Economically active residents 16+	Employment
20 Male Unemployment	Employment
21 Women who work Full-time	Employment
22 Women who work Part-time	Employment
23 Agriculture; hunting; forestry and fishing employment	Employment
24 Real estate; renting and business activities employment	Employment
25 Managers and senior officials employment	Employment
26 No qualifications	Employment
27 Highest qualification attained degree level or above	Employment
28 Full time Students	Employment
29 Large employers and higher managerial occupations employment	Employment
30 Higher professional occupations employment	Employment
31 Lower managerial and professional occupations employment	Employment
32 Small employers and own account workers employment	Employment
33 Routine occupations employment	Employment
34 Never worked	Employment
35 Long-term unemployed	Employment
36 Car to work	Socio-Economic
37 Walk to work	Socio-Economic
38 purpose-built flats	Housing
39 Terraced houses	Housing
40 Detached housing	Housing
41 Bedsits	Housing
41 Bedsits42 Households With no residents: Second residence / holiday home	Housing Socio-Economic

Table 5 The final list of 56 variables to be used in the classification.

44	No car households	Socio-Economic
45	LA Rented	Housing
46	Private Rented	Housing
	Household size	Household Composition
	No central heating	Housing
49	Households: with an occupancy rating of -1 or less (overcrowding)	Household Composition
	One-person no-pensioner households	Household Composition
	Single pensioner households	Household Composition
	2 adults no children	Household Composition
53	Households with dependent children	Household Composition
	Lone Parent Families	Household Composition
55	Households: No adults in employment :with dependent children	Household Composition
56	Population change 1991 - 2001	Demographic

5.2 Clustering the Local Authorities

The method that was used for clustering the variables was Ward's Hierarchical Grouping Procedure also known as the Increased Sums of Squares Method. Developed by Joe H. Ward of the Aerospace Medical Division, Lockland Air Force Base, it was first published in the Journal of the American Statistical Association in 1963, and developed as a method "*to cluster large numbers of objects, symbols or persons into smaller numbers of mutually exclusive groups, each having members that are as much alike as possible*" (Ward 1963 pp236), the aim is to join objects together into ever increasing sizes of cluster using a measure of similarity or distance. Cluster membership is assessed by calculating the total sum of squared deviations from the mean of a cluster. The criterion for fusion is that it should produce the smallest possible increase in the error sum of squares (ESS).

The clustering procedure forms groups in a manner that minimizes the loss associated with each grouping and to quantify that loss in readily interpretable form. Information loss is defined by Ward in terms of an error sum-of-squares (ESS) criterion. ESS is defined as the following:

 x_{ij} = Value for area *i* of variable *j*

- k = index for clusters, k = 1, ..., K
- D_k = Set of areas belonging to cluster k

- i = index of an area, i = 1, ..., N
- j = index for variables, j = 1, ..., M
- j = number of areas in the cluster

The Sum of Squared deviations from the mean for cluster k is

$$SS_{k} = \sum_{i \in D_{k}} \sum_{j=1}^{M} (x_{ij} - \bar{x}_{kj})^{2}$$
(7)

Where \overline{x}_{kj} = mean of x_{ij} for all *i* in cluster $k = \sum_{i \in D_k} \frac{x_{ij}}{n_k}$

The Sums of Squared Deviation (SS) for cluster k is given as:

$$\sum_{k} \sum_{i \in D_{k}} \sum_{j=1}^{M} (x_{ij} - \overline{x}_{kj})^{2}$$
(8)

and the Error Sums of Squared deviations (ESS) is simply the sum across all clusters

$$ESS = \sum_{k} SS_{k} \tag{9}$$

The process of hierarchical clustering is an agglomerative or (bottom-up) approach beginning with n groups each containing 1 object which are merged together ending with 1 group containing n objects. The process of getting from n to 1 groups can be summarised by the following 5 steps:

- Step 1: Place each object *O* into its own cluster *C*, creating the cluster file *f* therefore: $f = C_n, C_{n-1}, C_{n-2}, \dots, C_3, C_2, C_1$
- Step 2: Compute a measure of similarity between every pair of clusters in the cluster file f to find the closest pair $\{C_i, C_i\}$
- Step 3: Remove C_i and C_j from f

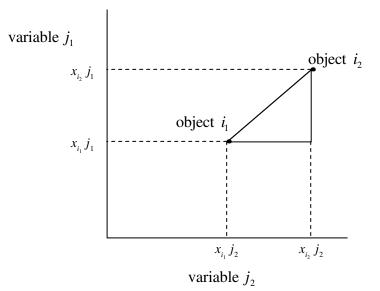
- Step 4: Merge C_i and C_j to create a new cluster C_{ij} which will be the parent of C_i and C_j in the hierarchical cluster tree.
- Step 5: Return to step 2 and repeat until there is only one cluster left.

Methods of hierarchical clustering have been incorporated into the Statistical Package for the Social Sciences (SPSS) and are frequently used to cluster census type information. There are several different formulae that can be used as the criterion in a hierarchical grouping procedure, most commonly used is Euclidean distance (SPSS 1999).

Assume two objects $i = i_1, i = i_2$

Assume two variables $j = j_1$, $j = j_2$

Assume the distance is given by the Pythagorean formula (square of the hypotenuse = sum of the squares on the other two sides of a right angle triangle)



then the distance between the objects is

$$d_{i_{l_{2}}} = \{(x_{i_{1}j_{1}} - x_{i_{2}j_{1}})^{2} + (x_{i_{1}j_{2}} - x_{i_{2}j_{2}})^{2}\}^{\frac{1}{2}}$$
(10)

Generalising over variables this becomes

$$d_{i_{i_2}} = \{\sum_{j=1}^{M} (x_{i_1j} - x_{i_2j})^2\}^{\frac{1}{2}}$$
(11)

The distances between clusters can then be calculated, the Intra-cluster distance involves generalising over objects i which are members of cluster k

$$d_{kk} = \sum_{i_1 \in k} \sum_{i_2 \in k} \left\{ \sum_{j=1}^{M} (x_{i_1 j} - x_{i_2 j})^2 \right\}^{\frac{1}{2}}$$
(12)

Inter-cluster distance is then defined as

$$d_{k_{1}k_{2}} = \sum_{i_{1} \in k_{1}} \sum_{i_{2} \in k_{2}} \left\{ \sum_{j=1}^{M} (x_{i_{1}j} - x_{i_{2}j})^{2} \right\}^{\frac{1}{2}}$$
(13)

Once the variables have been clustered the next decision that has to be made is how many clusters to split the LAs into. Unlike other methods of clustering such as k-means, the Ward's method clustering used does not have to be provided with predefined a number of clusters. Instead a range of solution is produced, from 434 clusters where all LAs are in separate groups, to just 2 clusters. In total this gives 433 different classifications of the LAs so some method of selecting the most suitable number of clusters to use is needed. It is important as well to remember that the cluster in procedure is hierarchical so a multiple level classification system can be produced.

The ONS classification of local authorities of Great Britain using 1991 data produced a three tier hierarchy of 27, 15 and 7 clusters (Bailey et al. 1999). Using the ONS classification as a guide the aim will be to produce a three tier hierarchy with the number of clusters more or less doubling with each tier hopefully ending in the tier with between 25 - 30 clusters e.g. (28, 14 and 7). However knowing the structure would work best theoretically does not mean that they will be the must suitable number of clusters in reality for the data that has been used. The method used to choose the clusters the number of clusters was to examine the relative increase in the sum of squares. The tiers that are suitable for selection are those that where the sum of squares shows a sharp rise immediately afterwards, therefore those tiers having clusters which are most compact clusters. Figure 2 shows how the three tiers for the

classification were chosen the graph clearly shows a significant increase in the sums of squares immediately after the tiers with 26, 13 and 5 clusters.

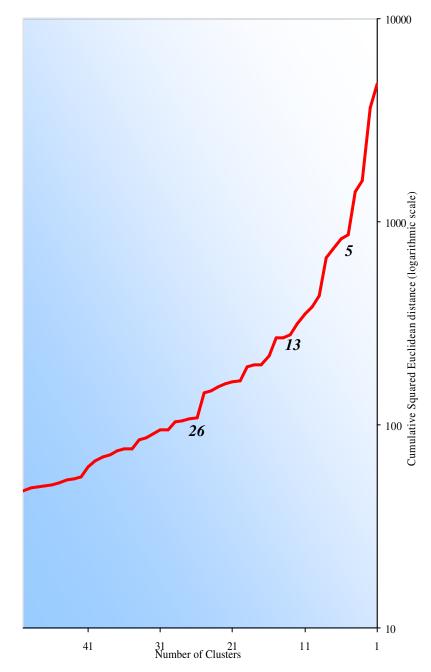


Figure 2 The distance between the most dissimilar local authorities within merged clusters

As for approximately doubling in the number of clusters with each tier, 5 to 13 shows an increase of 2.6 times, and 13 to 26 doubles exactly. Both the number of clusters produced and

the increase in the number of clusters between tiers fit within the framework that was identified as being appropriate before the clustering process.

6 Classification Outputs

A three tier hierarchy of clusters has been created and will be referred to in the following way the tier with 5 clusters as Families, the tier with 13 clusters as Groups, the tier with 26 clusters as Classes. Table 6 shows how the Families, Groups and Classes fit together and the way in which they have been labelled and named. Table 7 shows which Family, Group and Class that each local authority fit into. The methods behind the process of naming are outlined in section 5.

6.1 The Structure of Families, Groups and Classes

Although the clusters can be easily named Family A, Group A3, Class A3a etc this tells nothing about the Local Authorities within the clusters, there is no indication of where the areas may be or the characteristics that the areas may have. Therefore each Family, Group and Class requires a name. Before each cluster can be named they need to be explained in terms of their geography and their social make-up.

Names are a very useful aide-mémoire for users. However, they are quite short pieces of information and hide a lot of variety. Profiles of the variable values linked to the named cluster help give the user a quick and straightforward insight into the make-up of each cluster. Naming the five families is not a difficult process as they are uncomplicated and reflect the underlying geography of the UK. Naming the groups and clusters is a little trickier. The increased number of clusters makes the geography much less of an indicator of why they have been placed into that individual cluster (although a good knowledge of the geography of the UK and the likely social characteristics of people in each area is invaluable). To accurately assess and provide a name for each group and class the variables, which power each cluster, need to be investigated. By finding the average value of each variable in each cluster, it can be established which variables have the most effect on each cluster. By

knowing which variables have the most effect on shaping the character of each cluster a suitable name can be given to the cluster as the defining characteristics of that cluster are known. For example if the most distinct characteristic for a cluster is a very low value for population density it is likely the area is rural, we then may wish to label the cluster as rural areas.

Before the 434 Local Authority areas were clustered the variables were standardised with the use of z-scores. This is a decision that we are grateful for at this point as the standardisation now makes it easy to assess which values are large (positive and negative). The average z-score for each variable across all Local Authorities is 0 with a positive value being above the average and a negative value being below average with the size of the number indicating the strength of the value. By calculating the average z-score value of each variable within each cluster it is possible to pick out which variables have extreme values in cluster. The extreme values within the clusters will be for those variables that are most distinct within that area and therefore characterise it most accurately.

For each cluster the variables with the most extreme values were selected to explain the characteristics of the cluster. By examining these variables it is now possible to see which have been the most important variables in terms of the creation of each cluster. By using this information along with any useful geographic information that the names and locations of each LA within the cluster may give, each cluster can be given a suitable name.

It is important to remember when naming the clusters not give them derogatory names. The purpose of giving the clusters names is not so we can instantly assess whether one area is better than another but to quickly get some idea of where the area is likely to be and the characteristics of the people who live there. It is all too easy to let personal preference for or prejudices about an area cloud one's judgement when naming clusters. Bill Bryson expressed the view that *"Bradford's role in life is to make every place else in the World look better in comparison"* (Bryson 1995) Taking Bryson's view as inspiration, class A2c containing Bradford could be named *'the worst places in the UK'*. However, this would import serious prejudice to the classification system and would seriously offend anyone who lives in an area that falls within cluster A2c.

25

5 Families	13 Groups	26 Classes
	A1: Industrial Legacy (38 LAs 9.4% population)	Ala: Industrial Legacy (38 LAs 9.4% population)
A: Urban UK (103 LAs 35.8% population)	A2: Established Urban Centres (43 LAs 17.7% population)	A2a: Struggling Urban Manufacturing (14 LAs 5.6% population) A2b: Regional Centres (6 LAs 3.0% population) A2c: Multicultural England (13 LAs 6.1% population) A2d: M8 Corridor (10 LAs 3.0% population)
	A3: Young & Vibrant Cities (22 LAs 8.7% population)	A3a: Redeveloping Urban Centres (14 LAs 6.7% population) A3b: Young Multicultural (5 LAs 2.0% population)
	B1: Rural Britain (93 LAs 14.7% population)	Bla: Rural Extremes (24 LAs 2.7% population) Blb: Agricultural Fringe (35 LAs 5.8% population) Blc: Rural Fringe (39 LAs 6.2% population)
B: Rural UK (205 LAs 36.2% population)	B2: Coastal Britain (44 LAs 7.6% population)	B2a: Coastal Resorts (8 LAs 1.7% population) B2b: Aged Coastal Extremities (28 LAs 4.6% population) B2c: Aged Coastal Resorts (8 LAs 3.0% population)
	B3: Averageville (67 LAs 14.0% population)	B3a: Mixed Urban (41 LAs 8.8% population) B3b: Typical Towns (26 LAs 5.2% population)
	B4: Isles of Scilly (1 LA 0.0037% population)	B4a: Isles of Scilly (1 LA 0.0037% population)
<u>C: Prosperous</u> <u>Britain</u>	C1: Prosperous Urbanites (23 LAs 5.4% population)	Cla: Historic Cities (3 LAs 2.7% population) Clb: Thriving outer London (10 LAs 2.7% population)
(77 LAs 16.3% population)	C2: Commuter Belt (54 LAs 10.9% population)	C2a: the Commuter Belt (54 LAs 10.9% population)
	D1: Multicultural Outer London (11 LAs 4.4% population)	D1a: Multicultural Outer London (11 LAs 4.4% population)
D: Urban London (26 LAs 9.6% population)	D2: Mercantile Inner London (7 LAs 2.0% population)	D2a: Central London (6 LAs 1.9% population) D2b: City of London (1 LA 0.01% population)
	D3: Cosmopolitan Inner London (8 LAs 3.2% population)	D3a: Afro-Caribbean Ethnic Borough (5LAs 2.0% population) D3b: Multicultural Inner London (3LAs 1.2% population)
E: Northern Irish <u>Heartlands</u> (23 LAs 2.2% population)	E1: Northern Irish Heartlands (23 LAs 2.2% population)	<i>Ela:</i> Northern Irish Urban Growth (10 LAs 1.1% population) <i>Elb:</i> Rural Northern Ireland (13 LAs 1.1% population)

Table 6 The structure of Families, Groups and Classes

Authority Name	Family	Group	Class	Authority Name	Family	Group	Class		
Aberdeen City UA	A	A3	A3b	Bristol, City of UA	Α	A3	A3a		
Aberdeenshire UA	B	B1	Bla	Broadland LA	B	B1	Blc		
Adur LA	B	B2	B1a B2b	Bromley LB	C	C2	C2a		
Allerdale LA	B	B2	B2b	Bromsgrove LA	B	B1	Blc		
Alnwick LA	B	B1	Bla	Broxbourne LA	B	B3	B3b		
Amber Valley LA	B	B3	B3a	Broxtowe LA	B	B3	B3a		
Angus UA	B	вз В1	Bla	Burnley LA	A	А2	A2c		
Angus OA	E	E1	Ela	Bury LA	B	B3	B3b		
Ards	E	E1	Ela	Caerphilly UA	A	Al	Ala		
	B	B1	Bla	Calderdale LA	A	A1 A2	Ala A2c		
Argyll and Bute UA	Б Е	E1			-	A2 A3			
Armagh	B		E1b	Cambridge LA	A D		A3b		
Arun LA		B2	B2c	Camden LB		D2	D2a		
Ashfield LA	A	A1	Ala	Cannock Chase LA	B	B3	B3a		
Ashford LA	B C	B1	B1c	Canterbury LA	A	A3	A3a		
Aylesbury Vale LA	-	C2	C2a	Caradon LA	B	B2	B2b		
Babergh LA	B	B1	B1c	Cardiff UA	A	A3	A3a		
Ballymena	E	E1	Ela	Carlisle LA	В	B2	B2b		
Ballymoney	E	E1	E1b	Carmarthenshire UA	В	B2	B2b		
Banbridge	Е	E1	E1a	Carrick LA	В	B2	B2b		
Barking and Dagenham LB	А	A2	A2a	Carrickfergus	Е	E1	E1a		
Barnet LB	D	D1	Dla	Castle Morpeth LA	В	B1	B1b		
Barnsley LA	Α	A1	Ala	Castle Point LA	В	B1	B1c		
Barrow-in-Furness LA	Α	A1	Ala	Castlereagh	В	B3	B3a		
Basildon LA	В	B3	B3b	Ceredigion UA	Α	A3	A3a		
Basingstoke and Deane LA	С	C2	C2a	Charnwood LA	С	C1	Cla		
Bassetlaw LA	В	B3	B3a	Chelmsford LA	С	C2	C2a		
Bath and North East Somerset UA	С	C1	C1a	Cheltenham LA	С	C1	C1a		
Bedford LA	С	C1	Cla	Cherwell LA	С	C2	C2a		
Belfast	Α	A2	A2a	Chester LA	С	C1	C1a		
Berwick-upon-Tweed LA	В	B1	B1a	Chesterfield LA	Α	A1	Ala		
Bexley LB	В	B3	B3a	Chester-le-Street LA	Α	A1	A1a		
Birmingham LA	Α	A2	A2c	Chichester LA	В	B1	B1b		
Blaby LA	В	B1	B1c	Chiltern LA	С	C2	C2a		
Blackburn with Darwen UA	Α	A2	A2c	Chorley LA	В	B3	B3a		
Blackpool UA	В	B2	B2a	Christchurch LA	В	B2	B2c		
Blaenau Gwent UA	Α	A1	Ala	City of London LB	D	D2	D2b		
Blyth Valley LA	Α	A1	Ala	Clackmannanshire UA	Α	A2	A2d		
Bolsover LA	Α	A1	Ala	Colchester LA	С	C1	C1a		
Bolton LA	А	A2	A2c	Coleraine	Е	E1	E1b		
Boston LA	В	B1	B1b	Congleton LA	В	B1	B1c		
Bournemouth UA	В	B2	B2a	Conwy UA	В	B2	B2b		
Bracknell Forest UA	C	C1	C1b	Cookstown	E	E1	Elb		
Bradford LA	A	A2	A2c	Copeland LA	A	A1	Ala		
Braintree LA	B	B1	Blc	Corby LA	B	B3	B3b		
Breckland LA	B	B1	B1b	Cotswold LA	B	B1	B1b		
Brent LB	D	D3	D3b	Coventry LA	A	A3	A3a		
Brentwood LA	C	C2	C2a	Craigavon	E	E1	Ela		
Bridgend UA	A	A1	Ala	Craven LA	B	B1	B1b		
Bridgnorth LA	B	B1	Blc	Crawley LA	B	B3	B3b		
Brighton and Hove UA	A	A3	A3b	Crewe and Nantwich LA	B	B3	B3a		
Dirgittoii allu Hove UA	А	ЛJ	A30	CIEWE and manually LA	D	U)	БЗа		

6.2 Table 7 The LA to cluster look-up table

	1	1		1	1		
	Fa	G	C		Fa	G	С
Authority Name	Family	Group	Class	Authority Name	Family	Group	Class
	y,	a	S		'y	a	S
Croydon LB	D	D1	Dla	Forest Heath LA	В	B1	B1c
Dacoru m LA	С	C2	C2a	Forest of Dean LA	В	B1	B1b
Darlington UA	Α	A1	A1a	Fylde LA	В	B1	B1b
Dartford LA	В	B3	B3b	Gateshead LA	Α	A2	A2a
Daventry LA	С	C2	C2a	Gedling LA	В	B3	B3a
Denbighshire UA	В	B2	B2b	Glasgow City UA	Α	A2	A2b
Derby UA	Α	A3	A3a	Gloucester LA	В	B3	B3b
Derbyshire Dales LA	В	B1	B1b	Gosport LA	В	B3	B3b
Derry	Е	E1	E1b	Gravesham LA	В	B3	B3b
Derwentside LA	Α	A1	Ala	Great Yarmouth LA	В	B2	B2b
Doncaster LA	Α	A1	A1a	Greenwich LB	D	D1	D1a
Dover LA	В	B2	B2b	Guildford LA	С	C1	C1a
Down	Е	E1	Ela	Gwynedd UA	В	B2	B2b
Dudley LA	В	B3	B3a	Hackney LB	D	D3	D3a
Dumfries and Galloway UA	В	B2	B2b	Halton UA	Α	A1	Ala
Dundee City UA	Α	A2	A2b	Hambleton LA	В	B1	Blc
Dungannon	Е	E1	E1b	Hammersmith and Fulham LB	D	D2	D2a
Durham LA	Α	A3	A3a	Harborough LA	С	C2	C2a
Ealing LB	D	D1	D1a	Haringey LB	D	D3	D3a
Easington LA	Α	A1	Ala	Harlow LA	В	B3	B3b
East Ayrshire UA	Α	A2	A2d	Harrogate LA	В	B1	B1c
East Cambridgeshire LA	В	B1	B1c	Harrow LB	D	D1	D1a
East Devon LA	В	B2	B2c	Hart LA	С	C2	C2a
East Dorset LA	В	B1	B1b	Hartlepool UA	Α	A1	Ala
East Dunbartonshire UA	В	B3	B3a	Hastings LA	В	B2	B2a
East Hampshire LA	С	C2	C2a	Havant LA	В	B3	B3a
East Hertfordshire LA	С	C2	C2a	Havering LB	В	B3	B3a
East Lindsey LA	В	B2	B2b	Herefordshire, County of UA	В	B1	B1b
East Lothian UA	В	B3	B3b	Hertsmere LA	С	C2	C2a
East Northamptonshire LA	В	B1	B1c	High Peak LA	В	B3	B3a
East Renfrewshire UA	В	B3	B3a	Highland UA	В	B1	B1a
East Riding of Yorkshire UA	В	B1	B1b	Hillingdon LB	С	C1	C1b
East Staffordshire LA	В	B3	B3a	Hinckley and Bosworth LA	В	B3	B3a
Eastbourne LA	В	B2	B2a	Horsham LA	С	C2	C2a
Eastleigh LA	С	C2	C2a	Hounslow LB	D	D1	Dla
Eden LA	В	B1	B1a	Huntingdonshire LA	С	C2	C2a
Edinburgh, City of UA	A	A3	A3b	Hyndburn LA	A	A2	A2c
Eilean Siar UA	В	B2	B2b	Inverclyde UA	Α	A2	A2d
Ellesmere Port and Neston LA	B	B3	B3a	Ipswich LA	A	A3	A3a
Elmbridge LA	C	C2	C2a	Isle of Anglesey UA	B	B2	B2b
Enfield LB	D	D1	Dla	Isle of Wight UA	B	B2	B2b
Epping Forest LA	C	C2	C2a	Isles of Scilly LA	B	B4	B4a
Epsom and Ewell LA	C	C2	C2a	Islington LB	D	D2	D2a
Erewash LA	В	B3	B3a	Kennet LA	B	B1	B1c
Exeter LA	A	A3	A3a	Kensington and Chelsea LB	D	D2	D2a
Falkirk UA	A	A2	A2d	Kerrier LA	B	B2	B2b
Fareham LA	B	B1	B1c	Kettering LA	B	B3	B3a
Fenland LA	В	B1	B1b	King's Lynn and West Norfolk LA	В	B1	B1b
Fermanagh	E	E1	E1b	Kingston upon Hull, City of UA	A	A2	A2a
Fife UA	A	A2	A2d	Kingston upon Thames LB	C	C1	C1b
Flintshire UA	В	B3	B3a	Kirklees LA	Α	A2	A2c

	1		1	1	1		1
Authority Name	Family	Group	Class	Authority Name	Family	Group	Class
Knowsley LA	А	A2	A2a	North East Derbyshire LA	В	B3	B3a
Lambeth LB	D	D3	D3a	North East Lincolnshire UA	Α	A1	Ala
Lancaster LA	А	A3	A3a	North Hertfordshire LA	С	C2	C2a
Larne	Е	E1	E1a	North Kesteven LA	В	B1	B1c
Leeds LA	А	A3	A3a	North Lanarkshire UA	Α	A2	A2d
Leicester UA	А	A2	A2c	North Lincolnshire UA	В	B3	B3a
Lewes LA	В	B1	B1b	North Norfolk LA	В	B2	B2c
Lewisham LB	D	D3	D3a	North Shropshire LA	В	B1	B1b
Lichfield LA	В	B1	B1c	North Somerset UA	В	B1	B1c
Limavady	Е	E1	E1b	North Tyneside LA	Α	A1	Ala
Lincoln LA	Α	A3	A3a	North Warwickshire LA	В	B3	B3a
Lisburn	Е	E1	E1a	North West Leicestershire LA	В	B3	B3a
Liverpool LA	Α	A2	A2a	North Wiltshire LA	С	C2	C2a
Luton UA	D	D1	D1a	Northampton LA	В	B3	B3b
Macclesfield LA	С	C2	C2a	Norwich LA	Α	A2	A2b
Magherafelt	Е	E1	E1b	Nottingham UA	Α	A2	A2b
Maidstone LA	С	C2	C2a	Nuneaton and Bedworth LA	В	B3	B3a
Maldon LA	В	B1	B1c	Oadby and Wigston LA	С	C1	Cla
Malvern Hills LA	В	B1	B1b	Oldham LA	Α	A2	A2c
Manchester LA	А	A2	A2b	Omagh	Е	E1	E1b
Mansfield LA	Α	A1	Ala	Orkney Islands UA	В	B1	B1a
Medway UA	В	B3	B3b	Oswestry LA	В	B1	B1b
Melton LA	В	B1	B1c	Oxford LA	Α	A3	A3b
Mendip LA	В	B1	B1b	Pembrokeshire UA	В	B2	B2b
Merthyr Tydfil UA	Α	A1	Ala	Pendle LA	Α	A2	A2c
Merton LB	С	C1	C1b	Penwith LA	В	B2	B2b
Mid Bedfordshire LA	С	C2	C2a	Perth and Kinross UA	В	B1	B1a
Mid Devon LA	В	B1	B1b	Peterborough UA	В	B3	B3b
Mid Suffolk LA	В	B1	B1c	Plymouth UA	Α	A3	A3a
Mid Sussex LA	С	C2	C2a	Poole UA	В	B1	B1c
Middlesbrough UA	А	A2	A2a	Portsmouth UA	Α	A3	A3a
Midlothian UA	В	B3	B3b	Powys UA	В	B1	B1a
Milton Keynes UA	С	C1	C1b	Preston LA	Α	A3	A3a
Mole Valley LA	С	C2	C2a	Purbeck LA	В	B1	B1b
Monmouthshire UA	В	B1	B1b	Reading UA	С	C1	C1b
Moray UA	В	B1	B1a	Redbridge LB	D	D1	Dla
Moyle	Е	E1	E1b	Redcar and Cleveland UA	Α	A1	Ala
Neath Port Talbot UA	Α	A1	Ala	Redditch LA	В	B3	B3b
New Forest LA	В	B1	B1b	Reigate and Banstead LA	С	C2	C2a
Newark and Sherwood LA	В	B3	B3a	Renfrewshire UA	Α	A2	A2d
Newcastle-under-Lyme LA	В	B3	B3a	Restormel LA	В	B2	B2b
Newcastle upon Tyne LA	Α	A2	A2b	Rhondda, Cynon, Taff UA	Α	A1	Ala
Newham LB	D	D3	D3b	Ribble Valley LA	В	B1	B1c
Newport UA	Α	A1	Ala	Richmond upon Thames LB	С	C1	C1b
Newry and Mourne	Е	E1	E1b	Richmondshire LA	В	B1	B1c
Newtownabby	Е	E1	E1a	Rochdale LA	Α	A2	A2c
North Ayrshire UA	Α	A2	A2d	Rochford LA	В	B1	B1c
North Cornwall LA	В	B2	B2b	Rossendale LA	В	B3	B3b
North Devon LA	В	B2	B2b	Rother LA	В	B2	B2c
North Dorset LA	В	B1	B1b	Rotherham LA	Α	A1	Ala
North Down	В	B3	B3a	Rugby LA	В	B3	B3a

	1		r	1	1		
Authority Name	Family	Group	Class	Authority Name	Family	Group	Class
	ily	иp	55		ily	ир	SS
Runnymede LA	С	C1	Cla	Stockport LA	В	B3	B3a
Rushcliffe LA	C	C2	C2a	Stockton-on-Tees UA	A	A1	Ala
Rushmoor LA	C	C1	C1b	Stoke-on-Trent UA	A	A2	A2a
Rutland UA	B	B1	Blc	Strabane	E	E1	E1b
Ryedale LA	B	B1	Bla	Stratford-upon-Avon LA	C	C2	C2a
Salford LA	A	A2	A2a	Stroud LA	B	B1	B1c
Salisbury LA	В	B1	Blc	Suffolk Coastal LA	В	B1	B1b
Sandwell LA	Ā	A2	A2a	Sunderland LA	A	A2	A2a
Scarborough LA	В	B2	B2b	Surrey Heath LA	C	C2	C2a
Scottish Borders, The UA	В	B1	Bla	Sutton LB	С	C1	C1b
Sedgefield LA	А	A1	Ala	Swale LA	В	B3	B3b
Sedgemoor LA	В	B1	Blb	Swansea UA	Α	A1	Ala
Sefton LA	А	A1	Ala	Swindon UA	В	B3	B3b
Selby LA	В	B1	B1c	Tameside LA	Α	A2	A2c
Sevenoaks LA	С	C2	C2a	Tamworth LA	В	B3	B3b
Sheffield LA	Α	A3	A3a	Tandridge LA	С	C2	C2a
Shepway LA	В	B2	B2b	Taunton Deane LA	В	B1	B1b
Shetland Islands UA	В	B1	B1a	Teesdale LA	В	B1	B1a
Shrewsbury and Atcham LA	В	B1	B1b	Teignbridge LA	В	B1	B1b
Slough UA	D	D1	D1a	Telford and Wrekin UA	В	B3	B3b
Solihull LA	В	B3	B3a	Tendring LA	В	B2	B2c
South Ayrshire UA	Α	A1	Ala	Test Valley LA	С	C2	C2a
South Bedfordshire LA	С	C2	C2a	Tewkesbury LA	В	B1	B1c
South Bucks LA	С	C2	C2a	Thanet LA	В	B2	B2a
South Cambridgeshire LA	С	C2	C2a	Three Rivers LA	С	C2	C2a
South Derbyshire LA	В	B1	B1c	Thurrock UA	В	B3	B3b
South Gloucestershire UA	С	C2	C2a	Tonbridge and Malling LA	С	C2	C2a
South Hams LA	В	B1	B1a	Torbay UA	В	B2	B2a
South Holland LA	В	B1	B1b	Torfaen UA	Α	A1	Ala
South Kesteven LA	В	B1	B1c	Torridge LA	В	B2	B2b
South Lakeland LA	В	B1	B1a	Tower Hamlets LB	D	D3	D3b
South Lanarkshire UA	Α	A2	A2d	Trafford LA	В	B3	B3a
South Norfolk LA	В	B1	B1c	Tunbridge Wells LA	В	B1	B1c
South Northamptonshire LA	С	C2	C2a	Tynedale LA	В	B1	B1b
South Oxfordshire LA	С	C2	C2a	Uttlesford LA	С	C2	C2a
South Ribble LA	В	B3	B3a	Vale of Glamorgan, The UA	В	B3	B3a
South Shropshire LA	В	B1	Bla	Vale of White Horse LA	С	C2	C2a
South Somerset LA	В	B1	B1b	Vale Royal LA	В	B3	B3a
South Staffordshire LA	В	B1	B1c	Wakefield LA	Α	A1	A1a
South Tyneside LA	Α	A2	A2a	Walsall LA	Α	A2	A2a
Southampton UA	А	A3	A3a	Waltham Forest LB	D	D1	Dla
Southend-on-Sea UA	B	B2	B2a	Wandsworth LB	D	D2	D2a
Southwark LB	D	D3	D3a	Wansbeck LA	A	A1	Ala
Spelthorne LA	C	C2	C2a	Warrington UA	B	B3	B3a
St. Albans LA	C	C2	C2a	Warwick LA	C	C1	Cla
St. Edmundsbury LA	В	B1	B1c	Watford LA	C	C1	Clb
St. Helens LA	A	A1	Ala	Waveney LA	B	B2	B2b
Stafford LA	B	B3	B3a	Waverley LA	C	C2	C2a
Staffordshire Moorlands LA	B	B1	Blb	Wealden LA	B	B1	B1b
Stevenage LA	B	B3	B3b	Wear Valley LA	A	A1	Ala
Stirling UA	С	C1	Cla	Wellingborough LA	В	B3	B3b

Authority Name	Family	Group	Class	Authority Name	Family	Group	Class
Welwyn Hatfield LA	С	C1	C1a	Winchester LA	С	C2	C2a
West Berkshire UA	С	C2	C2a	Windsor and Maidenhead UA	С	C2	C2a
West Devon LA	В	B1	B1a	Wirral LA	Α	A1	Ala
West Dorset LA	В	B2	B2c	Woking LA	С	C2	C2a
West Dunbartonshire UA	Α	A2	A2d	Wokingham UA	С	C2	C2a
West Lancashire LA	В	B3	B3a	Wolverhampton LA	Α	A2	A2a
West Lindsey LA	В	B1	B1b	Worcester LA	В	B3	B3b
West Lothian UA	В	B3	B3b	Worthing LA	В	B2	B2a
West Oxfordshire LA	С	C2	C2a	Wrexham UA	В	B3	B3a
West Somerset LA	В	B2	B2c	Wychavon LA	В	B1	B1c
West Wiltshire LA	В	B1	B1c	Wycombe LA	С	C2	C2a
Westminster LB	D	D2	D2a	Wyre Forest LA	В	B3	B3a
Weymouth and Portland LA	В	B2	B2b	Wyre LA	В	B2	B2b
Wigan LA	Α	A1	Ala	York UA	С	C1	C1a

6.3 Pen Portraits

The naming of clusters is not the only use for the information that has been gathered as to which are the most extreme values in each cluster. This information can also be used to create *pen portraits*; these are short descriptions (or a simple list) as to what the characteristics of each cluster are. *Pen portraits* are referred to by the user of the classification system after they have established which cluster the area that they are interested in belongs. They can then read the *pen portrait* for the relevant cluster to get more information about the areas in that cluster.

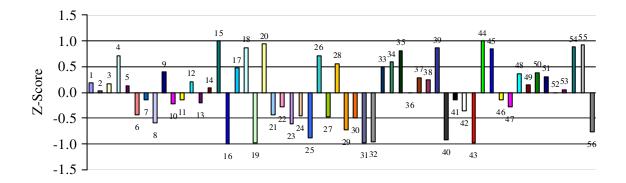
The numbers on each column on the graphs refer to the final list of 56 variables used in the classification and the various strengths of each variable with each cluster. Table 5 can be used as a key to relate the numbers to the variable names. Another point to note is that the scale of each graph varies between clusters so study them carefully.

The pen portraits, graphs and lists of LA members are provided for families, groups and classes where they are unique, to avoid unnecessary repetition. This might occur when a group has just one class. Refer back to Table 6 to see where this occurs.

6.3.1 Family A – Urban UK

103 Local Authorities containing 35.8% of the population are in this family

- 7 This Family contains the UK's most urban Local Authorities (excluding London Boroughs). These Authorities can be found mainly in the English Midlands, North, North West and North East as well as South Wales and the urban corridor between Glasgow and Edinburgh.
- 7 The Family is characterised by poor health (15, 16), high unemployment (18, 20), low economic activity (19), low car ownership (43, 44) and a negative population change (56).
- 7 Refer to Figure 3 for a map of this cluster.

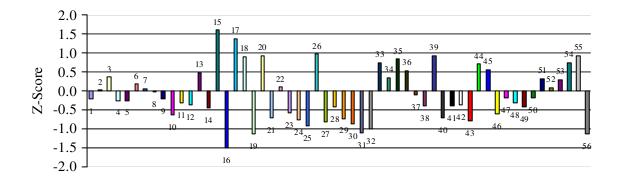


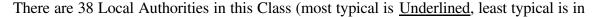
6.3.1.1 Group A1

6.3.1.1.1 Class Ala– Industrial Legacy

38 Local Authorities containing 9.4% of the population are in this cluster

- 7 This class contains many of the areas that (before their decline) were known for their heavy industry especially coal mining. The local authorities in this group are mainly centred on old mining communities such as North East England, South Yorkshire and North Nottinghamshire, and South Wales.
- 7 The class is characterised by acute poor health (15, 16) and unemployment (18) especially among men (20), with a lack of qualifications (26) resulting from their industrial past. Many are employed in routine occupations (33) and live in terraced housing (39). These areas are also experiencing significant population loss (56).
- 7 Refer to Figure 8 for a map of this cluster.



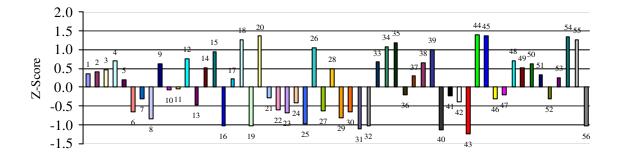


Ashfield LA	Copeland LA	Newport UA	Stockton-on-Tees UA
Barnsley LA	Darlington UA	North East Lincolnshire UA	Swansea UA
Barrow-in-Furness LA	Derwentside LA	North Tyneside LA	Torfaen UA
Blaenau Gwent UA	Doncaster LA	Redcar and Cleveland UA	Wakefield LA
Blyth Valley LA	Easington LA	Rhondda, Cynon, Taff UA	Wansbeck LA
Bolsover LA	Halton UA	Rotherham LA	Wear Valley LA
Bridgend UA	Hartlepool UA	Sedgefield LA	Wigan LA
Caerphilly UA	Mansfield LA	Sefton LA	Wirral LA
Chesterfield LA	Merthyr Tydfil UA	South Ayrshire UA	
Chester-le-Street LA	Neath Port Talbot UA	St. Helens LA	

6.3.1.2 Group A2 – Established Urban Centres

43 Local Authorities containing 17.7% of the population are in this cluster

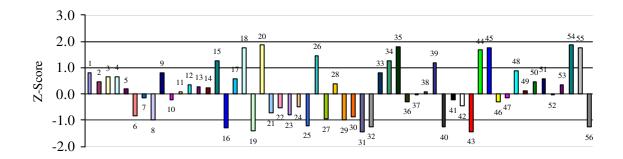
- 7 This group contains the many of the UK's former northern industrial cities that have now diversified, many of which are currently going through a period of regeneration.
- 7 This group is characterised by acute poor health (15, 16) and unemployment (18, 20), a lack of qualifications (26) and higher level employment (29, 30, 31). Car ownership is low (43, 44), however housing type is mixed however many homes are LA rented (45); lone parent families are also common (54). A population loss is also being experienced (56).
- 7 Refer to Figure 4 for a map of this cluster.



6.3.1.2.1Class A2a – Struggling Urban manufacturing

14 Local Authorities containing 5.6% of the population are in this cluster

- 7 This class contains old industrial areas many of which have seen their former industrial employment move into the manufacturing sector.
- 7 This class is characterised by poor health (15, 16), high unemployment (18, 20), low levels of qualification (26), low car ownership (43, 44), high levels of both council renting (45), Terraced housing (39), and one parent families (54).
- 7 Refer to Figure 8 for a map of this cluster.



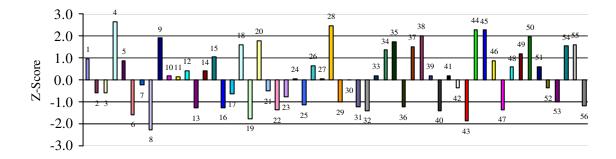
There are 14 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

Barking and Dagenham LB	Knowsley LA	Sandwell LA	Walsall LA
Belfast	Liverpool LA	South Tyneside LA	Wolverhampton LA
Gateshead LA	Middlesbrough UA	Stoke-on-Trent UA	
Kingston upon Hull, City of UA	Salford LA	Sunderland LA	

6.3.1.2.2 Class A2b– Regional Centres

6 Local Authorities containing 3.0% of the population are in this cluster

- 7 This class contains centres of regional importance (i.e. the biggest urban area within a region).
- 7 This class is characterised by a high number of people aged 18-24 (4), single people (9) and students (28). Comparatively low car ownership (43, 44), council housing (45), Flats (38) and single person households (50).
- 7 Refer to Figure 8 for a map of this cluster.



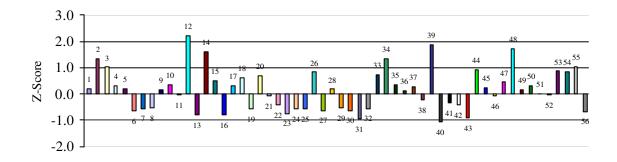
There are 6 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Dundee City UA	Manchester LA	Norwich LA
Glasgow City UA	<u>Newcastle upon Tyne LA</u>	Nottingham UA

6.3.1.2.3 Class A2c – Multicultural England

13 Local Authorities containing 6.1% of the population are in this cluster

- 7 This class contains Cities with a large Asian population
- 7 This class is characterised by a large number of Indian, Pakistani and Bangladeshi people (12), a generally young population (2, 3), Terraced housing (39) and a comparative lack of central heating (48).
- 7 Refer to Figure 8 for a map of this cluster.



There are 13 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

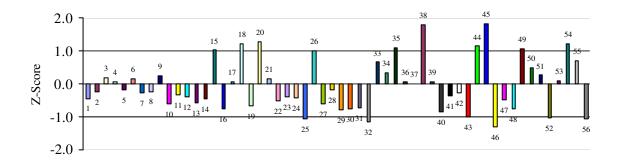
Italics). They are:

Birmingham LABurnley LALeicester UATameside LABlackburn with Darwen UACalderdale LAOldham LABolton LAHyndburn LAPendle LABradford LAKirklees LARochdale LA

6.3.1.2.4 Class A2d – M8 Corridor

10 Local Authorities containing 3.0% of the population are in this cluster

- 7 This class contains LAs in the corridor along the M8, between Edinburgh and Glasgow and nearby
- 7 This class is characterised by comparatively poor health (15), low levels of qualification (26), high proportion of people living in flats (38) many of which are accounted for by the high level of council housing (45), rented from the local authority or other public body, low car ownership (43, 44), Single parent families (54) are also common.
- 7 Refer to Figure 8 for a map of this cluster.



There are 10 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

Italics). They are:

Clackmannanshire UA	Fife UA	Nor
East Ayrshire UA	Inverclyde UA	Ren
Falkirk UA	North Ayrshire UA	<u>Sou</u>

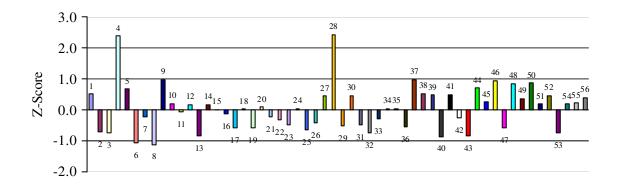
North Lanarkshire UA W Renfrewshire UA South Lanarkshire UA

West Dunbartonshire UA

6.3.1.3 Group A3 – Young and Vibrant Cities

22 Local Authorities containing 8.7% of the population are in this cluster

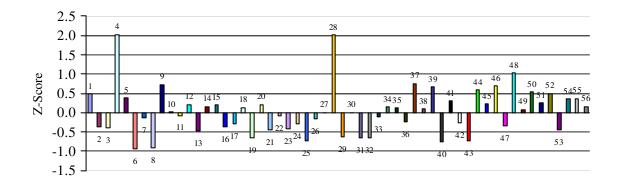
- 7 This group contains urban areas which are generally dominated by a large student population. These areas are spread throughout the UK.
- 7 This group is characterised by a large number of young adults (4) many of whom are students (28). A lack of extreme values for other variables makes this a cosmopolitan group of LAs, with a rich mix of people.
- 7 Refer to Figure 4 for a map of this cluster.



6.3.1.3.1 Class A3a – Redeveloping Urban Centres

14 Local Authorities containing 6.7% of the population are in this cluster

- 7 This class contains cities that have a comparatively young population and a strong student influence.
- 7 This class is characterised by a large number of people between the ages of 18 24
 (4) and a large number of full time students (28).
- 7 Refer to Figure 8 for a map of this cluster.



There are 14 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

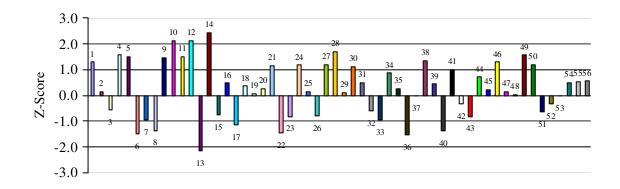
Italics). They are:

Bristol, City of UA Canterbury LA Cardiff UA *Ceredigion UA* Coventry LA Derby UA Durham LA Exeter LA Ipswich LA Lancaster LA Leeds LA Lincoln LA Plymouth UA Portsmouth UA Preston LA Sheffield LA Southampton UA

6.3.1.3.2 Class A3b- Young Multicultural

5 Local Authorities containing 2.0% of the population are in this cluster

- 7 This class contains cities which are internationally seen as educational centres.
- 7 This class is characterised by an ethnically diverse population (11, 12, 13, 14), a comparatively high number of students (28), a comparatively high number of flats (38) and low number of detached homes (40). There is also comparative overcrowding (49) in some areas.
- 7 Refer to Figure 8 for a map of this cluster.



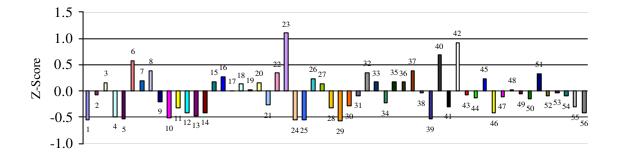
There are 5 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

Aberdeen City UA	Cambridge LA	Oxford LA
Brighton and Hove UA	<u>Edinburgh, City of UA</u>	

6.3.2 Family B - Rural UK

205 Local Authorities containing 36.2% of the population are in this cluster

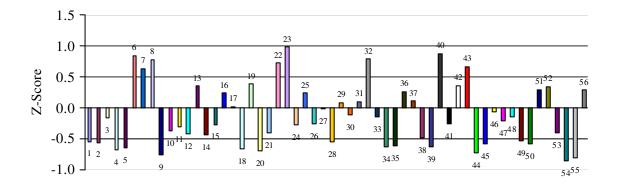
- 7 This Family contains UK's most rural Local Authorities. They are spread throughout the country, are comparatively large in area and are located away from areas of high population.
- 7 The Family is characterised by a low population density (1), a lot of employment in agriculture, hunting, forestry and fishing (23), detached housing (40) and second / holiday homes (42).
- 7 Refer to Figure 3 for a map of this cluster.



6.3.2.1 Group B1 – Rural Britain

93 Local Authorities containing 14.7% of the population are in this cluster

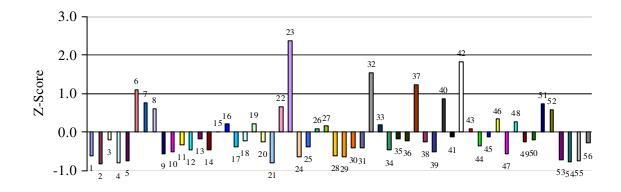
- 7 This group contains the majority of the less densely populated LAs of Britain, these consist of area that are not major towns or cities and are not coastal resorts.
- 7 This group is characterised by an old married population (6, 7, 8), with a high rate of agricultural employment (23) and a low level of unemployment (18, 20). Much of the housing is detached (40) and car ownership is fairly high (43, 44). A traditional family structure is still the norm will a relatively low number of single parents (54).
- 7 Refer to Figure 5 for a map of this cluster.



6.3.2.1.1 Class B1a – Rural Extremes

24 Local Authorities containing 2.7% of the population are in this cluster

- 7 This class contains the most rural parts of Britain
- 7 This class is characterised by high average age (6, 7), agricultural employment (23), self employment (32), people who walk to work (37) and a high number of second/holiday homes (42).
- 7 Refer to Figure 9 for a map of this cluster.



There are 24 Local Authorities in this Class (most typical is Underlined, least typical is in

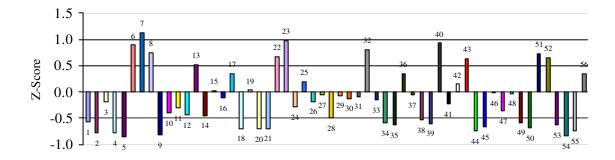
Italics). They are:

Aberdeenshire UA <u>Alnwick LA</u> Angus UA Argyll and Bute UA Berwick-upon-Tweed LA Eden LA Highland UA Moray UA Orkney Islands UA Perth and Kinross UA Powys UA Ryedale LA Scottish Borders, The UA Shetland Islands UA South Hams LA South Lakeland LA South Shropshire LA Teesdale LA West Devon LA

6.3.2.1.2 Class B1b – Agricultural Fringe

35 Local Authorities containing 5.8% of the population are in this cluster

- 7 This class contains areas which are rural in but not in the extreme. Many contain large towns or are close to an area of larger population.
- 7 This class is characterised by a relatively high average age (6, 7), some agricultural employment (23), relatively high car ownership (43, 44) and detached housing (40).
- 7 Refer to Figure 9 for a map of this cluster.



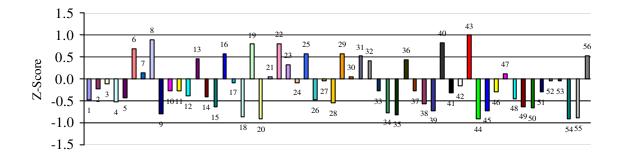
There are 35 Local Authorities in this Class (most typical is Underlined, least typical is in

Boston LA	Fenland LA	Monmouthshire UA	South Somerset LA
Breckland LA	Forest of Dean LA	New Forest LA	Staffordshire
Castle Morpeth LA	Fylde LA	North Dorset LA	Moorlands LA
Chichester LA	Herefordshire UA	North Shropshire LA	Suffolk Coastal LA
Cotswold LA	King's Lynn and West	Oswestry LA	Taunton Deane LA
Craven LA	Norfolk LA	Purbeck LA	Teignbridge LA
Derbyshire Dales LA	Lewes LA	Sedgemoor LA	Tynedale LA
East Dorset LA	Malvern Hills LA	Shrewsbury and	Wealden LA
East Riding of	Mendip LA	Atcham LA	West Lindsey LA
Yorkshire UA	Mid Devon LA	South Holland LA	

6.3.2.1.3 Class B1c-Rural Fringe

39 Local Authorities containing 6.2 % of the population are in this cluster

- 7 This class contains districts containing one or more small towns in a rural setting that is a centre for small district.
- 7 This class is characterised by generally fairly average values but with significantly higher that average car ownership (43, 44), detached housing (40), people in good health (16) and a high number of married people (8). The employment in this cluster is mixed.
- 7 Refer to Figure 9 for a map of this cluster.



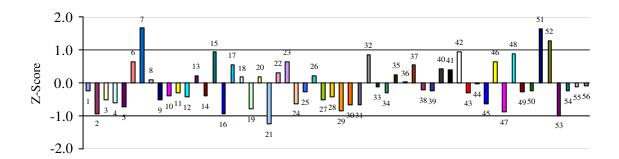
There are 39 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Ashford LA	East Northamptonshire LA	North Kesteven LA	South Kesteven LA
Babergh LA	Fareham LA	North Somerset UA	South Norfolk LA
Blaby LA	Forest Heath LA	Poole UA	South Staffordshire LA
Braintree LA	Hambleton LA	Ribble Valley LA	St. Edmundsbury LA
Bridgnorth LA	Harrogate LA	Richmondshire LA	Stroud LA
Broadland LA	Kennet LA	Rochford LA	Tewkesbury LA
Bromsgrove LA	Lichfield LA	Rutland UA	Tunbridge Wells LA
Castle Point LA	Maldon LA	Salisbury LA	West Wiltshire LA
Congleton LA	Melton LA	Selby LA	Wychavon LA
East Cambridgeshire LA	Mid Suffolk LA	South Derbyshire LA	

6.3.2.2 Group B2 – Coastal Britain

44 Local Authorities containing 7.6% of the population are in this cluster

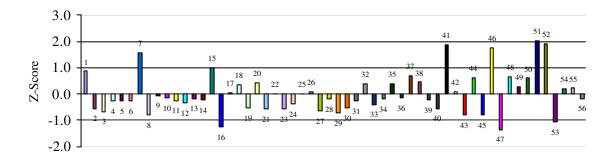
- 7 This group contains LAs that all have a coastline; they are well spread all round the coast of Britain.
- 7 This group is characterised by a large number of retired people many of whom live alone (51), there are also many couples without children (52) making this group the domain of the older Britain. Women who work in this group mainly do so, on a part time basis (22). Housing is mixed, but with some is second homes/holiday accommodation (42). Health in these areas is well below average (15, 16) although this will be affected by the high age of the residents (7).
- 7 Refer to Figure 5 for a map of this cluster.



<u>6.3.2.2.1 ClassB2a – Coastal Resorts</u>

8 Local Authorities containing 1.7% of the population are in this cluster

- 7 This class contains coastal areas which contain large towns or cities that are holiday centres mostly beach resorts.
- 7 This class is characterised a high number of very old people (7). The level of health in the area is below average (15, 16) which can be linked to the large number of pensioners in the cluster, many of whom live alone (51). Bedsits (41) are a more common than average form of housing in this cluster. There are a significant number of homes with two adults and no children (52), which could explain why the average house size (47) in this cluster is below average.
- 7 Refer to Figure 9 for a map of this cluster.



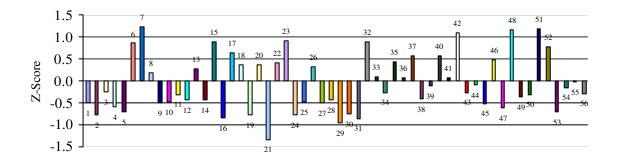
There are 8 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Blackpool UA	Eastbourne LA	Southend-on-Sea UA	<u>Torbay UA</u>
Bournemouth UA	Hastings LA	Thanet LA	Worthing LA

6.3.2.2.2 Class B2b – Aged Coastal Extremities

28 Local Authorities containing 4.6% of the population are in this cluster

- 7 This class contains LAs which are all on the coast but don't contain any urban areas of great size.
- 7 This class is characterised by an aged population (6, 7) with a below average level of health (15, 16). Few women in this cluster work full time (21); agriculture (23) employs a higher than average proportion of the workforce in these areas. A higher than expected numbers of homes are without central heating (48) and many of the pensioners in these areas live alone (51).
- 7 Refer to Figure 9 for a map of this cluster.



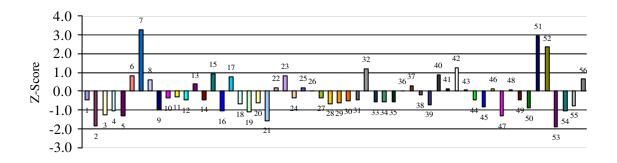
There are 28 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Adur LA	Dover LA	<u>Kerrier LA</u>	Torridge LA
Allerdale LA	Dumfries and Galloway UA	North Cornwall LA	Waveney LA
Caradon LA	East Lindsey LA	North Devon LA	Weymouth and Portland
Carlisle LA	Eilean Siar UA	Pembrokeshire UA	LA
Carmarthenshire UA	Great Yarmouth LA	Penwith LA	Wyre LA
Carrick LA	Gwynedd UA	Restormel LA	
Conwy UA	Isle of Anglesey UA	Scarborough LA	
Denbighshire UA	Isle of Wight UA	Shepway LA	

6.3.2.2.3 Class B2c – Aged Coastal Resorts

8 Local Authorities containing 3% of the population are in this Cluster

- 7 This class contains LAs which all have a coastal location containing several small towns but no major urban areas. Many areas in this cluster contain coastal resorts which are in decline.
- 7 This class is characterised by a very old population structure (7), with a high proportion of pensioners living alone (51), there are also many households with two adults and no children (52) and a low number of dependant children (53). There is low full time female employment (21) and a higher than expected number of people are self employed (32).
- 7 Refer to Figure 9 for a map of this cluster.



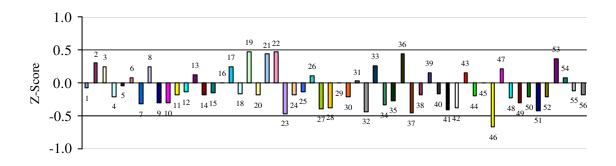
There are 8 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

Arun LA	East Devon LA	Rother LA	West Dorset LA
Christchurch LA	North Norfolk LA	Tendring LA	West Somerset LA

6.3.2.3 Group B3 – Averageville

67 Local Authorities containing 14.0% of the population are in this cluster

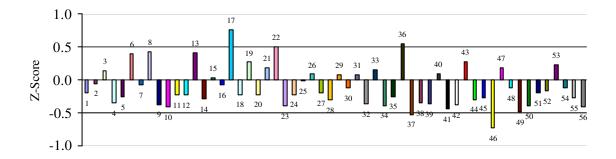
- 7 This group contains LAs that are neither totally urban nor completely rural. They appear in three main groups one to the south east of London, one in the south of Scotland, and a large group in the midlands and south Lancashire and Yorkshire.
- 7 This group is characterised by the fact that they are the most average collection of LAs in the UK. The scale of the graph is much smaller than for all the other clusters.
- 7 Refer to Figure 5 for a map of this cluster.



6.3.2.3.1 Class B3a – Mixed Urban

41 Local Authorities containing 8.8% of the population are in this cluster

- 7 This class mainly contains suburban areas on the outskirts of large urban areas.
- 7 This class is characterised by very little; there are no extreme values. However, the age structure is old rather than young, and the cluster seems to be wealthier than average.
- 7 Refer to Figure 9 for a map of this cluster.



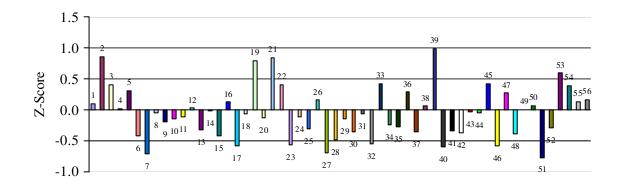
There are 41 Local Authorities in this Class (most typical is Underlined, least typical is in

Ellesmere Port and Neston LA	North Down North East Derbyshire LA	Trafford LA Vale of Glamorgan,
Erewash LA	North Lincolnshire UA	The UA
Flintshire UA	North Warwickshire LA	Vale Royal LA
Gedling LA	North West Leicestershire	Warrington UA
Havant LA	LA	West Lancashire LA
Havering LB	Nuneaton and Bedworth LA	Wrexham UA
High Peak LA	Rugby LA	Wyre Forest LA
Hinckley and Bosworth LA Kettering LA Newark and Sherwood LA	Solihull LA South Ribble LA Stafford LA	
	LA Erewash LA Flintshire UA Gedling LA Havant LA Havering LB High Peak LA Hinckley and Bosworth LA Kettering LA	LANorth East Derbyshire LAErewash LANorth Lincolnshire UAFlintshire UANorth Warwickshire LAGedling LANorth West LeicestershireHavant LALAHavering LBNuneaton and Bedworth LAHinckley and Bosworth LASolihull LAKettering LASouth Ribble LA

6.3.2.3.2 Class B3b – Typical Towns

26 Local Authorities containing 5.2% of the population are in this cluster

- 7 This class contains small cities/ large towns or suburban areas close to larger urban areas.
- 7 This class is characterised by little mainly average values however a generally young age structure, with a fairly high proportion of women working full time (21). Much of the housing is terraced (39).
- 7 Refer to Figure 9 for a map of this cluster.



There are 26 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

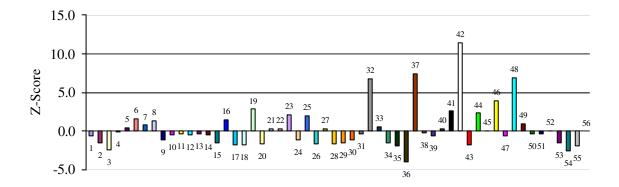
Basildon LA	Gloucester LA	Peterborough UA	Telford and Wrekin UA
Broxbourne LA	Gosport LA	Redditch LA	Thurrock UA
Bury LA	Gravesham LA	Rossendale LA	Wellingborough LA
Corby LA	Harlow LA	Stevenage LA	West Lothian UA
Crawley LA	Medway UA	Swale LA	Worcester LA
Dartford LA	Midlothian UA	Swindon UA	
East Lothian UA	Northampton LA	Tamworth LA	

6.3.2.4 Group B4 - Isles of Scilly

6.3.2.4.1 ClassB4a - Isles of Scilly

1 Local Authority containing 0.0037% of the population are in this cluster

- 7 This class contains the Isles of Scilly only.
- 7 This class is characterised by a high number of self employed people (32), a large number of people who walk to work (37) few who go by car (36). The area contains an extremely large proportion of holiday/second homes (42) and large proportion of homes which don't have central heating (48). It is unique within the UK due to its small size in a rural setting. However a lot of the extreme values are due to the small population size.
- 7 Refer to Figure 9 for a map of this cluster.

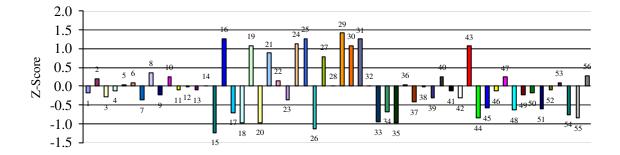


There is 1 Local Authority in this Class. It is: Isles of Scilly LA

6.3.3 Family C – Prosperous Britain

77 Local Authorities containing 16.3% of the population are in this cluster

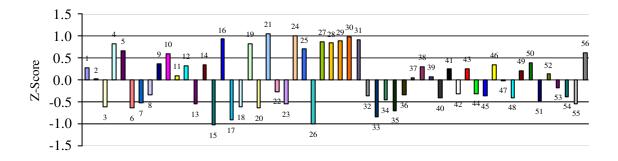
- 7 This Family contains Britain's most prosperous Local Authorities. Typical local authorities in this family include the commuter zone around London and some other large cities, plus some of the Britain's smaller historic cities.
- 7 The Family is characterised by Good health (15, 16), Low unemployment (18, 20), an economically active community (19), highly qualified (27) mobile people, high car ownership (43, 44) and traditional family values (54).
- 7 Refer to Figure 3 for a map of this cluster.



6.3.3.1 Group C1 – Prosperous Urbanites

23 Local Authorities containing 5.4% of the population are in this cluster

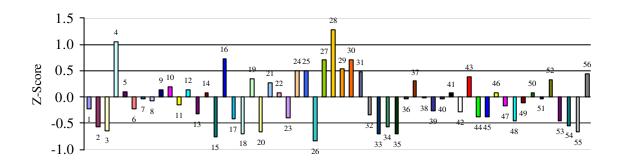
- 7 This group contains a collection of non industrial medium sized urban centres and London Boroughs.
- 7 This group is characterised by good health (15, 16) and high levels of employment, especially in managerial positions (29, 30, 31). Housing is very mixed as is the social structure.
- 7 Refer to Figure 6 for a map of this cluster.



6.3.3.1.1 Class Cla - Historic Cities

13 local Authorities containing 2.7% of the population are in this cluster

- 7 This class contains small cities many of which have a historic legacy generally in a rural setting therefore acting as a regional centre.
- 7 This class is characterised by a large number of residents between 18 -24 (4) many of who are students (28). People living in this cluster are generally in good health (15, 16).
- 7 Refer to Figure 10 for a map of this cluster.



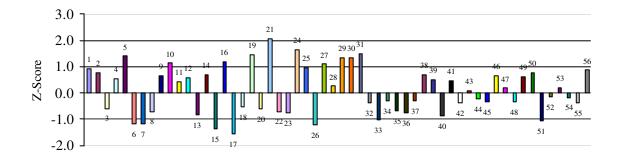
There are 13 Local Authorities in this Class (most typical is **Underlined**, least typical is in

Bath and North East Somerset UA	Chester LA	Runnymede LA	York UA
Bedford LA	Colchester LA	Stirling UA	
Charnwood LA	Guildford LA	Warwick LA	
Cheltenham LA	Oadby and Wigston LA	Welwyn Hatfield LA	

6.3.3.1.2 Class C1b - Thriving Outer London

10 Local Authorities containing 2.7% of the population are in this cluster

- 7 This class contains rich London suburbs and large towns in the vicinity of London.
- 7 This class is characterised by a young demographic profile with a below average rate of married persons (8), managerial employment is higher than average (29, 30, 31) and a very mixed urban structure.
- 7 Refer to Figure 10 for a map of this cluster.



There are 10 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in

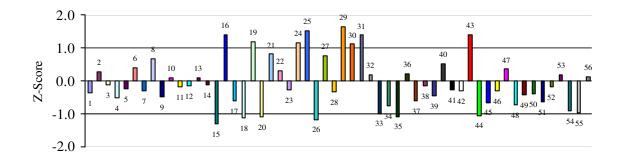
```
Bracknell Forest UAMerton LBRichmond upon Thames LBWatford LAHillingdon LBMilton Keynes UARushmoor LAWatford LAKingston upon Thames LBReading UASutton LBVariant Control of Con
```

6.3.3.2 Group C2- Commuter Belt

6.3.3.2.1 Class C2a - Commuter Belt

54 Local Authorities containing 10.9% of the population are in this cluster

- 7 This group contains a belt of middle class housing around London creating a commuter zone, plus a few other areas elsewhere in the country.
- 7 This group is characterised by good health (15, 16), low unemployment (18, 20), and high levels of managerial employment (29, 30, 31). Car ownership is high (43, 44); housing is mixed but mainly detached (40).
- 7 Refer to Figure 10 for a map of this cluster.



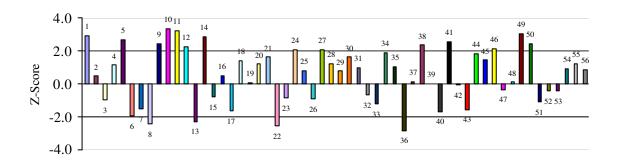
There are 54 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Aylesbury Vale LA Basingstoke and Deane LA Brentwood LA Bromley LB Chelmsford LA Cherwell LA Chiltern LA Dacorum LA Daventry LA East Hampshire LA East Hertfordshire LA Eastleigh LA	Epsom and Ewell LA Harborough LA Hart LA Hertsmere LA Horsham LA Huntingdonshire LA Macclesfield LA Maidstone LA Mid Bedfordshire LA Mid Sussex LA Mole Valley LA North Hertfordshire LA Reigate and Banstead	Sevenoaks LA South Bedfordshire LA South Bucks LA South Cambridgeshire LA South Gloucestershire UA South Northamptonshire LA South Oxfordshire LA St. Albans LA Stratford-upon-Avon LA Surrey Heath LA Tandridge LA	Tonbridge and Malling LA Uttlesford LA Vale of White Horse LA Waverley LA West Berkshire UA West Oxfordshire LA Winchester LA Windsor and Maidenhead UA Woking LA Woking LA Wycombe LA
LA	North Wiltshire LA	Surrey Heath LA	
Eastleigh LA	Reigate and Banstead	Tandridge LA	
Elmbridge LA	LA	Test Valley LA	
Epping Forest LA	Rushcliffe LA	Three Rivers LA	
East Hertfordshire	North Hertfordshire LA	Stratford-upon-Avon LA	0
LA	North Wiltshire LA	Surrey Heath LA	
Eastleigh LA	Reigate and Banstead	Tandridge LA	
Elmbridge LA	LA	Test Valley LA	

6.3.4 Family D – Urban London

26 Local Authorities containing 9.6% of the population are in this cluster

- 7 This Family contains the densely populated area of London and some of their satellite towns. No local authorities in this family area outside the area immediately around London.
- 7 The Family is characterised by extreme values for a large number of variables. Trends include high population density (1) and overcrowding (49), a young single population (9), ethnic and religious diversity (11, 12, 14) and low car ownership (43, 44).
- 7 Refer to Figure 3 for a map of this cluster.

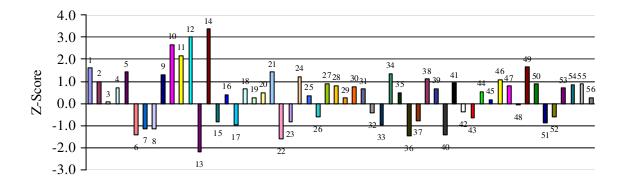


6.3.4.1 Group D1 Multicultural Outer London

6.3.4.1.1 Class D1a – Multicultural Outer London

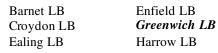
11 Local Authorities containing 4.4% of the population are in this cluster

- 7 This class contains London suburbs and large towns in the London vicinity which have a significant ethnic presence.
- 7 This class is characterised by a young age structure, a very high proportion of people from black minority ethnic groups (11) and the Indian subcontinent (12). A proportion of homes suffer from overcrowding (49). The housing structure has a higher than average number of flats (38) and a below average number of detached homes (40).
- 7 Refer to Figure 11 for a map of this cluster.



There are 11 Local Authorities in this Class (most typical is Underlined, least typical is in

Italics). They are:

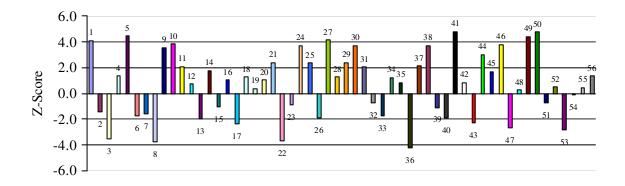


Hounslow LB Luton UA Redbridge LB Slough UA Waltham Forest LB

6.3.4.2 Group D2 – Mercantile Inner London

7 Local Authorities containing 2.0% of the population are in this cluster

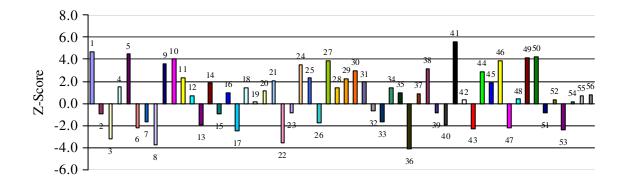
- 7 This group contains wealthy and business areas of inner London.
- 7 This group is characterised by extreme values for many variables especially evident are high population density (1), a lot of people in their late 20's (5), a large number of women working full time (21), a highly qualified (27) population involved in business activities also a high number of one person households (50) and a number of homes which are overcrowded (49).
- 7 Refer to Figure 7 for a map of this cluster.



6.3.4.2.1 Class D2a – Central London

6 Local Authorities containing 1.9% of the population are in this cluster

- 7 This class contains wealthy areas of Inner London.
- 7 This group is characterised by extreme values for many variables especially evident are high population density (1), a lot of people in their late 20's (5), a large number of women working full time (21), a highly qualified (27) population involved in business activities also a high number of one person households (50) and a number of homes which are overcrowded (49).
- 7 Refer to Figure 11 for a map of this cluster.



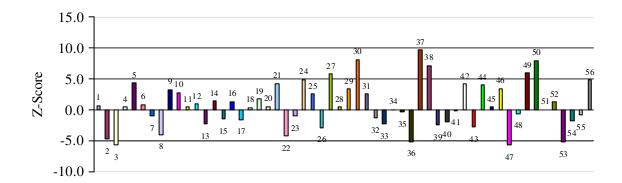
There are 6 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Camden LB	Islington LB	Wandsworth LB
Hammersmith and Fulham LB	Kensington and Chelsea LB	Westminster LB

6.3.4.2.2 Class D2b - The City of London

1 Local Authority containing 0.01% of the population are in this cluster

- 7 This class contains the City of London only.
- 7 This class is characterised by extreme values all over the place due to its small area and small population unique within the UK Age structure dominated by middle aged people, high levels of managerial employment (30), low car ownership (43, 44). Most people walk to work (37). Housing is mainly made up of small flats (38) containing only one resident (50). The LA has experienced a large population increase (56). However a lot of the extreme values are due to the small population size.
- 7 Refer to Figure 11 for a map of this cluster.

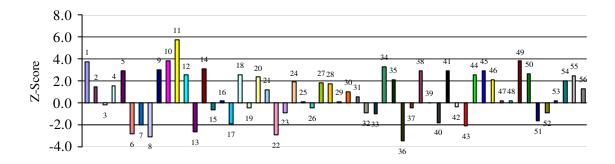


There is 1 Local Authority in this Class. It is: City of London LB

6.3.4.3 Group D3 – Cosmopolitan Inner London

8 Local Authorities containing 3.2% of the population are in this cluster

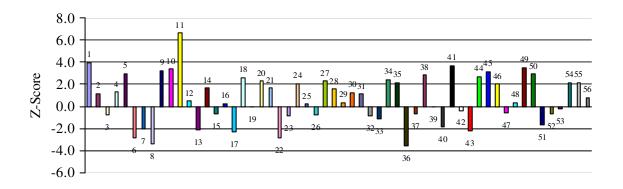
- 7 This group contains the traditionally poorer former industrial areas of inner London.
- 7 This group is characterised by a single (9), ethnically diverse (10, 11, 12) population with an especially large black population (11). Unemployment is high (18, 20) as is overcrowding (49) with a large proportion of the population living in flats (38) and Bedsits (41).
- 7 Refer to Figure 7 for a map of this cluster.



6.3.4.3.1 Class D3a - Afro-Caribbean Ethnic Boroughs

5 Local Authorities containing 2.0% of the population are in this cluster

- 7 This class contains the LAs of inner London which are dominated by black minority ethnic groups.
- 7 This class is characterised by a lot of extreme values, a young population structure. A very high proportion of people from black minority ethnic groups (11), but few from the Indian sub continent (12). Housing contains a lot of flats (38) and Bedsits (41); car ownership (43, 44) is low. Unemployment (18, 20) is high those of those who are employed are highly qualified (27). High employment in the real estate sector (24) suggests a very active housing market.
- 7 Refer to Figure 11 for a map of this cluster.



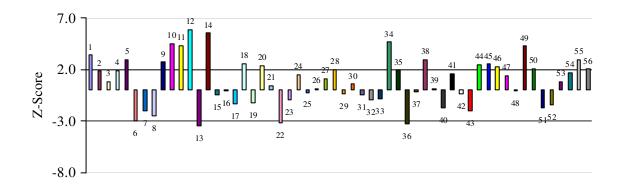
There are 5 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Hackney LB	Lambeth LB	Southwark LB
Haringey LB	Lewisham LB	

6.3.4.3.2 Class D3b – Multicultural Inner London

3 Local Authorities containing 1.2% of the population are in this cluster

- 7 This class contains areas of inner London with high ethnicity.
- 7 This class is characterised by a young age structure, a high proportion of people from black minority ethnic groups and the Indian sub continent (11, 12), unemployment (18, 20) is high with a significant proportion of people of working age who have never worked (34). Car ownership is low (43, 44), housing is characterised by a significantly above average number of flats (38) and Bedsits (41).
- 7 Refer to Figure 11 for a map of this cluster.



There are 3 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Brent LB

<u>Newham LB</u>

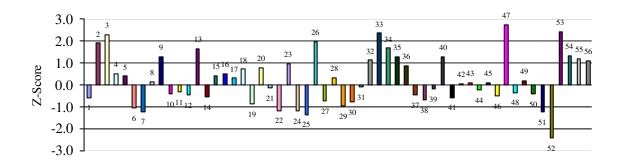
Tower Hamlets LB

6.3.5 Family E – Northern Irish Heartlands

6.3.5.1 Group E1- Northern Irish Heartlands

23 Local Authorities containing 2.2% of the population are in this cluster

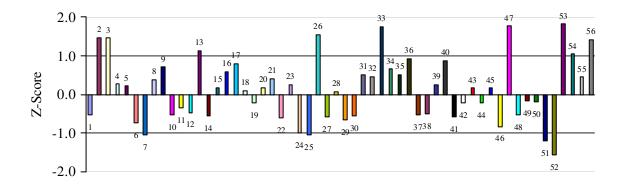
- 7 This Family contains all the Local Authorities in Northern Ireland except Belfast, Castlereagh and North Down.
- 7 The Family is characterised by extreme values for many variables, a very young (2, 3) growing population (56) with a large number of dependant children (53). Little ethnic and religious diversity (10, 11, 12). Significant numbers of people with no qualifications (26) who have routine occupations (33). Catholic/Protestant divide cannot be seen because the data was not available for the whole UK so could not be used. If variables that only appeared in Northern Ireland census were used more variation would be seen within this cluster.
- 7 Refer to Figure 3 for a map of this cluster.



6.3.5.1 Class E1a – Northern Irish Urban Growth

10 Local Authorities containing 1.1% of the population are in this cluster

- 7 This class contains a collection of LAs which surround Belfast.
- 7 This class is characterised by a young population profile (2, 3), a high number of people of Christian religion (13). The population generally has few qualifications (26) and a high proportion of employment is in routine occupations (33). Most housing is detached (40) and the household size (47) is larger than average. There are a high number of households with dependant children (53). There has also been significant population growth in this cluster since 1991 (56).
- 7 Refer to Figure 12 for a map of this cluster.



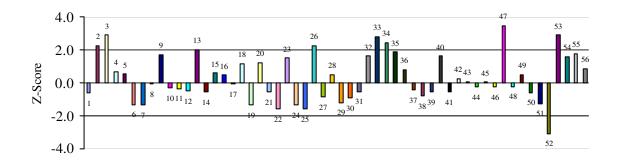
There are 10 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Antrim	Banbridge	Down	Newtownabby
Ards	Carrickfergus	Larne	
Ballymena	Craigavon	<u>Lisburn</u>	

6.3.5.1.2 Class E1b – Rural Northern Ireland

13 Local Authorities containing 1.1% of the population are in this cluster

- 7 This class contains LAs in central and western, Northern Ireland.
- 7 This class is characterised by a generally young age structure (2, 3), and a large single population (9). There are a high number of people of Christian religion (13). The population generally has few qualifications (26) and a high proportion of employment is in routine occupations (33) or agriculture and fishing. Most housing is detached (40) and the household size is larger than average (47). There are a high number of households with dependant children (53), but few couples without children (52).
- 7 Refer to Figure 12 for a map of this cluster.



There are 13 Local Authorities in this Class (most typical is <u>Underlined</u>, least typical is in *Italics*). They are:

Armagh	Derry
Ballymoney	Dungannon
Coleraine	Fermanagh
Cookstown	Limavady

Magherafelt Moyle Newry and Mourne **Omagh** Strabane

6.4 The Clusters with the highest and lowest values

Along with knowing what are the extreme variables for each cluster are it could also be useful to have the data the other way round, for example you may what to no where has the highest or lowest rate of unemployment. Table 8 enables this to be done listing the class which shows the most extreme positive and negative values for each variable.

Tab	Table 8 The Classes with that have the highest positive and negative values for each variable.				
	Variable	Class with the highest Value			
		Positive	Negative		
1	Population Density	D2a	Bla		
2	People aged: 0 - 9	E1b	D2b		
3	People aged: 10 - 17	E1b	D2b		
4	People aged: 18 - 24	A2b	B2c		
5	People aged: 25 - 29	D2a	B2c		
6	People aged: 45 - 64	B4a	D3b		
7	People aged: 65+	B2c	D3b		
8	Married	B4a	D2b		
9	Single (Never Married)	D2a	B4a		
10	Born outside UK	D3b	Ala		
11	Black minority ethnic groups	D3a	B4a		
12	Indian, Pakistani or Bangladeshi	D3b	B4a		
13	Christian	E1b	D3b		
14	Other Religion	D3b	E1b		
15	Limiting long-term illness	Ala	B4a		
16	Residents whose health is good	B4a	Ala		
17	Residents who provide unpaid care	Ala	D2a		
18	Unemployment	D3a	B4a		
19	Economically active residents 16+	B4a	A2b		
20	Male Unemployment	D3b	B4a		
21	Women who work Full-time	D2b	B2c		
22	Women who work Part-time	B1c	D2b		
23	Agriculture; hunting; forestry and fishing employment	B1a	D2b		
24	Real estate; renting and business activities employment	D2b	E1b		
25	Managers and senior officials employment	D2b	E1b		
26	No qualifications	E1b	D2b		
27	Highest qualification attained degree level or above	D2b	A2a		
28	Full time Students	A2b	B4a		
29	Large employers and higher managerial occupations employment	D2b	B4a		
30	Higher professional occupations employment	D2b	B4a		
31	Lower managerial and professional occupations employment	D2b	A2a		
32	Small employers and own account workers employment	B4a	A2b		
33	Routine occupations employment	E1b	D2b		
34	Never worked	D3b	B4a		
35	Long-term unemployed	D3a	B4a		
36	Car to work	E1a	D2b		
37	Walk to work	D2b	D1a		
38	purpose-built flats	D2b	E1b		
39	Terraced houses	A2c	D2b		

Table 8 The Classes with that have the highest positive and negative values for each variable.

A New Classification of UK Local Authorities Using 2001 Census Key Statistics

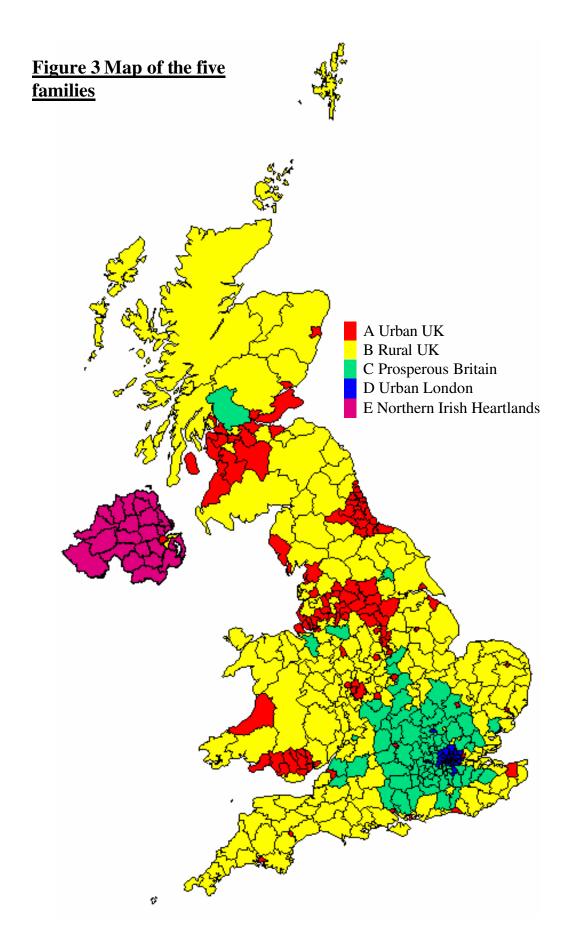
40	Detached housing	E1b	D2b
41	Bedsits	D2a	E1a
42	Households With no residents: Second residence / holiday home	B4a	A2a
43	Households with 2+ cars	C2a	D2b
44	No car households	D2b	C2a
45	LA Rented	D3a	B2c
46	Private Rented	B4a	A2d
47	Household size	E1b	D2b
48	No central heating	B4a	A2d
49	Households: with an occupancy rating of -1 or less (overcrowding)	D2b	B1c
50	One-person no-pensioner households	D2b	B2c
51	Single pensioner households	B2c	D3b
52	2 adults no children	B2c	E1b
53	Households with dependent children	E1b	D2b
54	Lone Parent Families	D3a	B4a
55	Households: No adults in employment :with dependent children	D3b	B4a
56	Population change 1991 - 2001	D2b	A2a

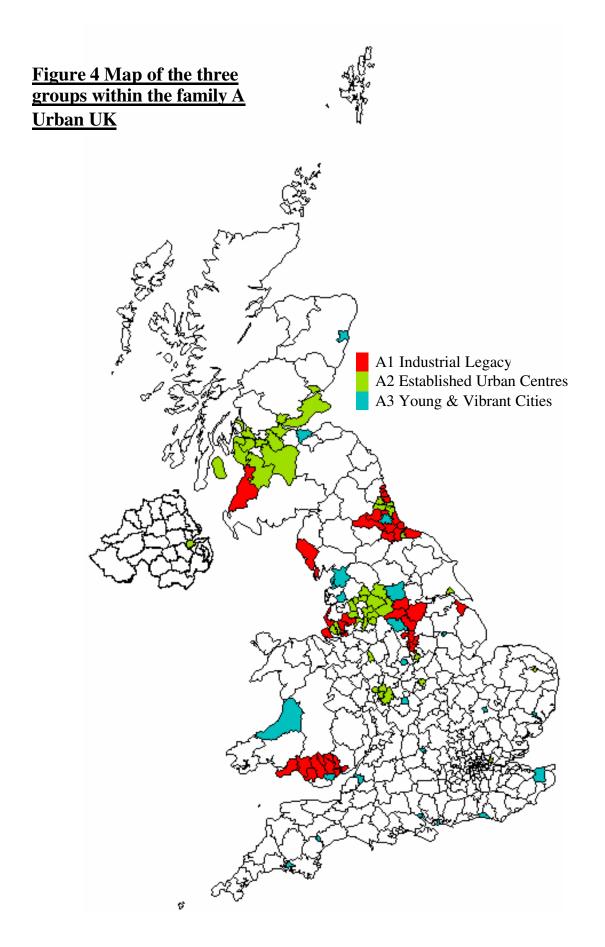
6.5. Similarities of the LAs

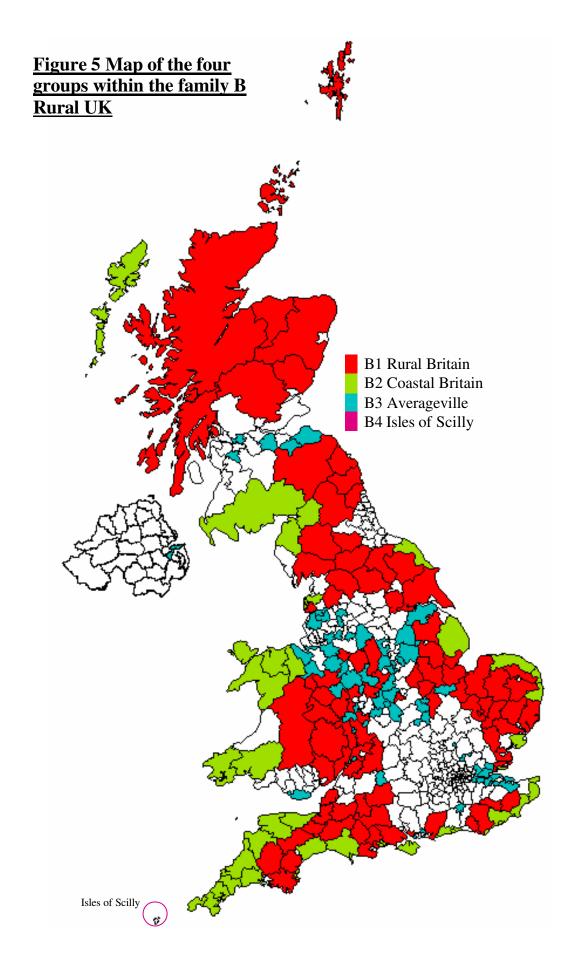
Just because two LAs are in the same cluster it does not mean that they are the most similar of all the LAs. This is because an object on the edge of a cluster can be closer to an object on the edge of another cluster rather an object within it's own. Appendix c lists each LA and the five LAs that are most like them.

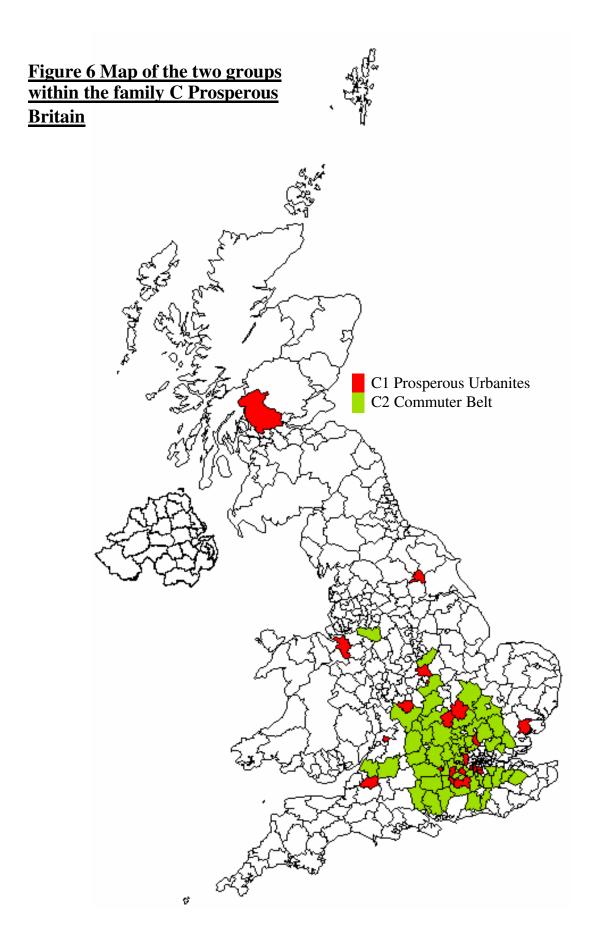
6.6. Mapping out the Clusters

As the local authorities in general are large areas it is possible to pick most of them out at a national scale. Therefore maps of the UK showing the distribution of each cluster type are very useful as they enable any geographic patterns within the clusters to be seen and interpreted easily. Figures 3 - 12 display maps of all families, groups and classes throughout the UK.

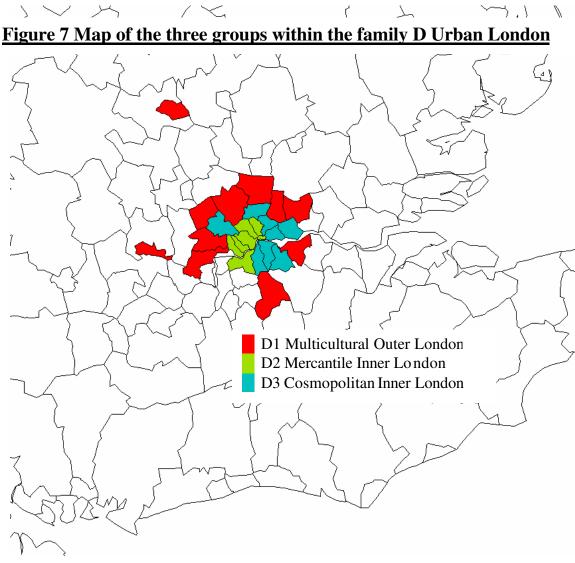




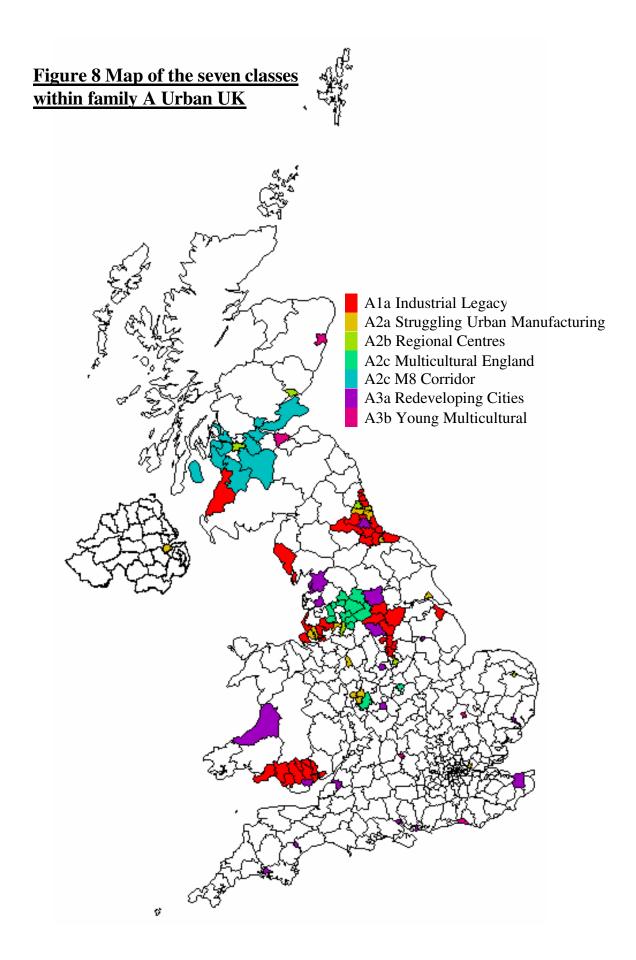


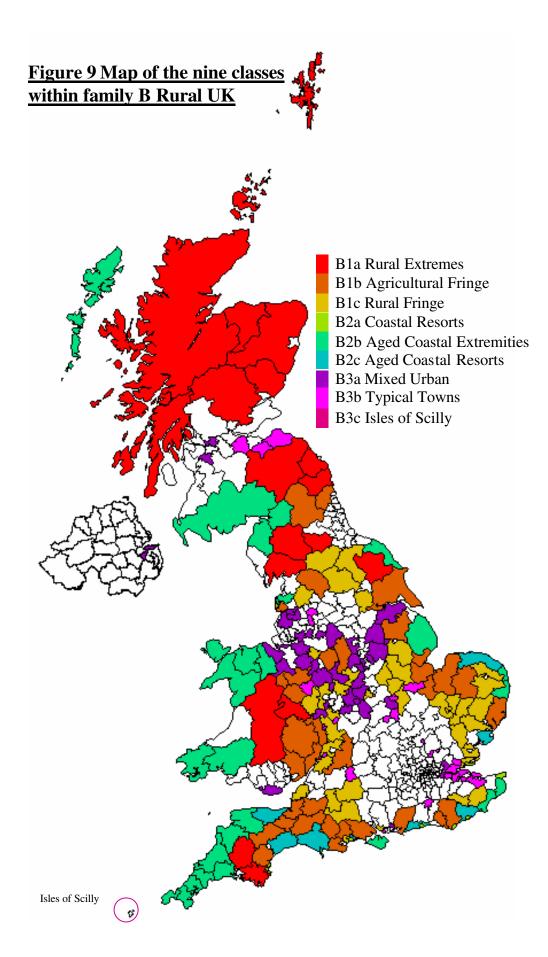


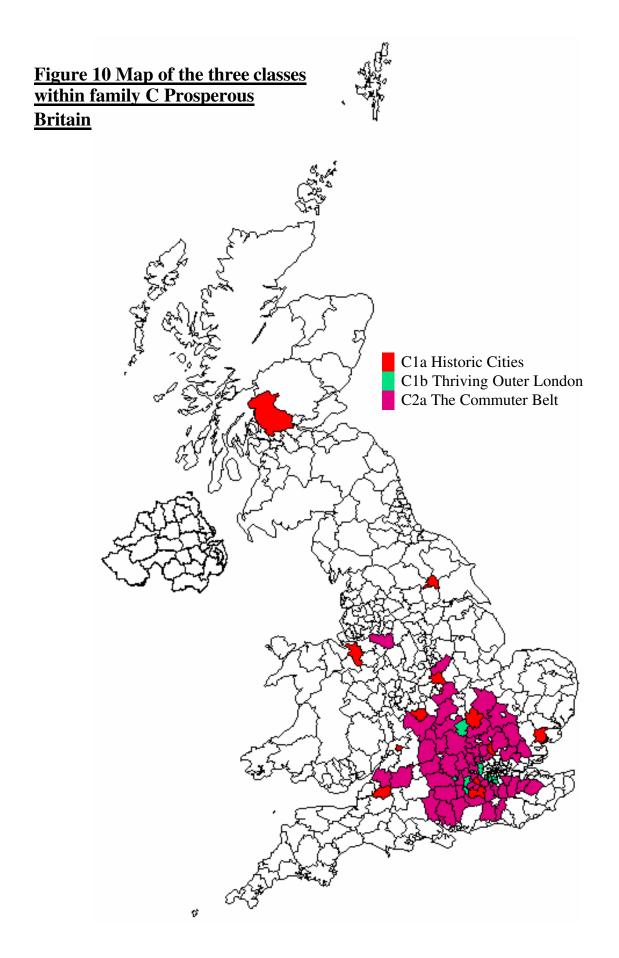
 \mathbb{N}

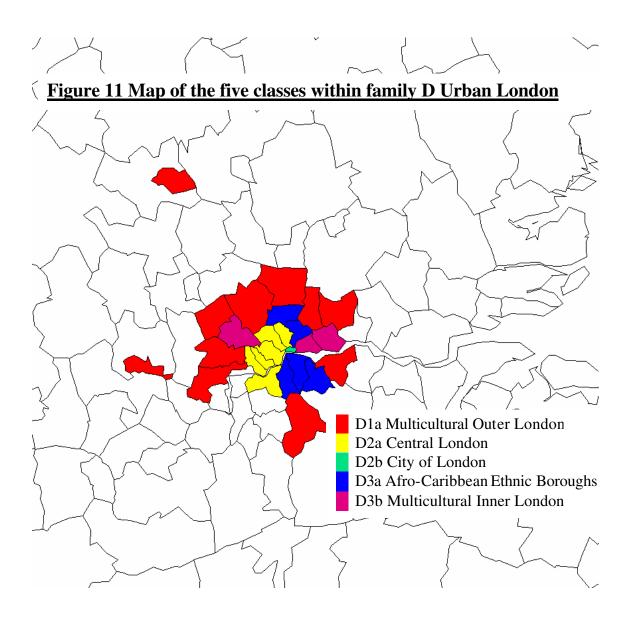


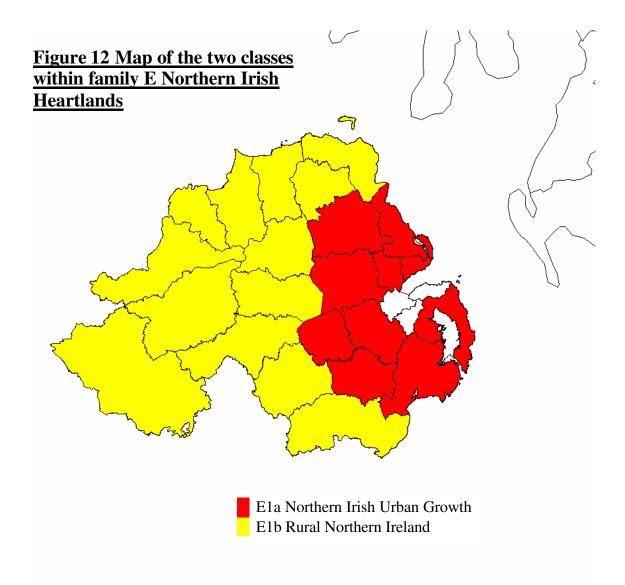
5 1











References

Bailey, S. Charlton, J. Dollamore, G. & Fitzpatrick, J. (1999). <u>The ONS classification of local and health authorities of Great Britain: Revised for authorities in 1999</u>. London, Office for National Statistics.

Blake, M. & Openshaw, S., (1995), Selecting Variables for Small Area Classifications of 1991 UK Census Data, 14th October 2002, <u>http://www.geog.leeds.ac.uk/papers/95-2/</u>.

Bryson, B. (1995). Notes from a small island. London, Doubleday.

Everitt, B. S. (1993). Cluster Analysis. London, Edward Arnold.

Moser, C. A. & Scott, W. (1961). <u>British Towns: A statistical study of their social and economic differences</u>. Edinburgh, Oliver and Boyd Ltd.

SPSS (1999). Chapter 28: Hierarchical Cluster Analysis. <u>SPSS Base 9.0 User's Guide</u>. Inc., S. London, SPSS: 325-332.

Ward, J. H. (1963). "Hierarchical grouping to optimize an objective function." <u>Journal of the</u> <u>American Statistical Association</u> **58**(30): 236 - 244.

Webber, R. & Craig, J. (1976). "Which local authorities are alike." Population Trends 5: 13-19.

Webber, R. & Craig, J. (1978). <u>A socio economic classification of local authorities in Great</u> <u>Britain</u> london, HMSO.

Appendix A - List of variables showing inclusion, rejection or merger

	Variable	Domain	Reason for Inclusion, Rejection or Merger
			Included – As it is unlike any other variable giving
1	Population Density	Demographic	a good in indication of the rural/urban variation of
			the country. It also has a very large variance.
2	Male	Demographic	Rejected – No variation across the dataset
3	Female	Demographic	Rejected – No variation across the dataset
	~ . ~		Rejected – There location is sporadic and not
4	Communal Establishments	Demographic	indicative of the population of the area.
5	People aged: $0 - 4$	Demographic	Merged - With 6&7 due to high positive correlation
6	People aged: $5 - 7$	Demographic	Merged - With 5&7 due to high positive correlation
7	People aged: 8 – 9	Demographic	Merged - With 5&6 due to high positive correlation
0	People aged: 10 – 14	Damaananhia	Merged - With 9&10 due to high positive
0	reopie aged. 10 – 14	Demographic	correlation
0	People aged: 15	Demographic	Merged - With 8&10 due to high positive
	reopie aged. 15	Demographie	correlation
10	People aged: 16 – 17	Demographic	Merged - With 8&10 due to high positive
10	reopie aged. 10 – 17	Demographic	correlation
	People aged: 18 – 19	Demographic	Merged - With 12 due to high positive correlation
12	People aged: 20 – 24	Demographic	Merged - With 11 due to high positive correlation
13	People aged: 25 – 29	Demographic	Included – A good indicative group, representing
15		Demographie	first time buyers.
			Rejected – Little variation across the dataset.
14	People aged: 30 – 44	Demographic	However, pseudo included as the rest of the variance
			in the age category is included
	People aged: 45 – 59	Demographic	Merged - With 16 due to high positive correlation
16	People aged: 60 – 64	Demographic	Merged - With 15 due to high positive correlation
17	People aged: 65 – 74	Demographic	Merged - With 18,19&20 due to high positive
17	reopie agea. 65 71	Demographie	correlation
18	People aged: 75 – 84	Demographic	Merged - With 17,19&20 due to high positive
		2 thiographic	correlation
19	People aged: 85 – 89	Demographic	Merged - With 17,18&20 due to high positive
		8F	correlation
20	People aged: 90 & over	Demographic	Merged - With 17,18&19 due to high positive
			correlation
21	Married (Living in Couple)	Demographic	Merged - With 24
22	Cohabiting	Demographic	Rejected – Indicates little, small variance across
	-		
	Single (Never Married)	Demographic	Included – Indicative of a mobile population
24	Married (Not living in Couple)	Demographic	Merged - With 21
\vdash			Rejected – Indicates little, small variance across
25	Separated	Demographic	
\vdash			areas Rejected – Indicates little, small variance across
26	Divorced	Demographic	areas
\vdash			Rejected – Indicates little, small variance across
27	Widowed	Demographic	areas
			Rejected – Does little except split countries of the
28	Born in: England	Ethnicity & Religion	UK
		1	

29	Born in: Scotland	Ethnicity & Religion	Rejected – Does little except split countries of the UK
30	Born in: Wales	Ethnicity & Religion	Rejected – Does little except split countries of the UK
31	Born in: Northern Ireland	Ethnicity & Religion	Rejected – Does little except split countries of the UK
32	Born in: Republic of Ireland	Ethnicity & Religion	Merged - With 33&34
	Born in: Other EU Countries		Merged - With 32&34
34	Born Rest of the World (Outside EU)	Ethnicity & Religion	Merged - With 32&33
35	Black minority ethnic groups	Ethnicity & Religion	Included – High variance, strong distinction in numbers between rural and urban areas
36	Indian, Pakistani or Bangladeshi	Ethnicity & Religion	Included – High variance, strong distinction in numbers between rural and urban areas
37	Chinese	Ethnicity & Religion	Rejected – Little variation across the dataset
38	White	Ethnicity & Religion	Rejected – Pseudo Included as the rest of the variance in the ethnicity category is included
39	Christian	Ethnicity & Religion	Included – Considered important to include as it is the first time the religion question was asked in the census. Also shows some significant regional differences.
40	Other Religion	Ethnicity & Religion	Included – Considered important to include as it is the first time the religion question was asked in the census. Also shows some significant regional differences.
41	Not Stated or No Religion	Ethnicity & Religion	Rejected – Pseudo Included as the rest of the variance in the religion category is included
42	Limiting long-term illness	Health	Included – Considered important as a measure of the health of the nation
43	Residents whose health is good	Health	Included – Considered important as a measure of the health of the nation. Also the other extreme to LITI giving a fuller picture of the health of the nation.
44	Residents whose health is fairly good	Health	Rejected – Vague in its nature, however pseudo included as the extremes of the variance in the health category is included.
45	Residents whose health is not good	Health	Rejected – Vague in its nature, however pseudo included as the extremes of the variance in the health category is included.
46	Residents who provide unpaid care	Health	Included – An alternative measure of the nations health
47	Unemployment	Employment	Included – An important measure in the employment domain
48	Self-employed	Employment	Rejected – Vary Similar to 84
49	Economically active residents	Employment	Included – A good indication of the size of the
49	16+	Employment	workforce n an area taking into account all factors.
50	Male Unemployment	Employment	Included – Indicative of a more extreme problem than total unemployment as men are more likely to be the sole or main wage earner in a household.
51	Working Women ft	Employment	Included – An indication of the changing employment structure of the UK as more women continue to join the workforce.
52	Women who work part-time	Employment	Included – An indication of the changing employment structure of the UK as more women continue to join the workforce.

53	Agriculture; hunting; forestry and fishing employment	Employment	Included – High distinction between rural and urban areas
54	Mining, quarrying and construction employment	Employment	Rejected – Too specific
55	Manufacturing employment	Employment	Rejected – Too specific
	Electricity; gas and water supply employment	Employment	Rejected – Too specific
57	Wholesale & retail trade; repair of motor vehicles employment	Employment	Rejected – Too specific
58	Hotels and catering employment	Employment	Rejected – Too specific
59	Transport, storage and communication employment	Employment	Rejected – Too specific
60	Financial intermediation employment	Employment	Rejected – Too specific
	Real estate; renting and business activities employment	Employment	Included – Indicative of areas of business ad a buoyant housing market.
62	Public administration and defence employment	Employment	Rejected – Too specific
63	Education employment	Employment	Rejected – Too specific
64	Health and social work employment	Employment	Rejected – Too specific
65	Managers and senior officials employment	Employment	Included – Indicative of the wealthiest people within society
66	Professional occupations employment	Employment	Rejected – Too specific
67	Associate professional and technical occupations employment	Employment	Rejected – Too specific
68	Administrative and secretarial occupations employment	Employment	Rejected – Too specific
69	Skilled trades occupations employment	Employment	Rejected – Too specific
70	Personal service occupations employment	Employment	Rejected – Too specific
71	Sales and customer service occupations employment	Employment	Rejected – Too specific
12	Process; plant and machine operatives employment	Employment	Rejected – Too specific
73	Elementary occupations employment	Employment	Rejected – Too specific
74	No qualifications	Employment	Included – Indicative of poorer areas, and people with a poor education
75	Highest qualification attained level 1	Employment	Rejected – Indicates little, However Pseudo Included as the extremes of the variance in the education category is included.
76	Highest qualification attained level 2	Employment	Rejected – Indicates little, However Pseudo Included as the extremes of the variance in the education category is included.
77	Highest qualification attained level 3	Employment	Rejected – Indicates little, However Pseudo Included as the extremes of the variance in the education category is included.

78	Highest qualification attained level 4/5	Employment	Included – Indicative of the richest areas, and
	level 4/3		people with a very good education Included – A large and important group within the
79	Full time Students	Employment	modern society
	Large employers and higher managerial occupations employment	Employment	Included – Indicative of the top end of the employment ladder.
81	Higher professional occupations employment	Employment	Included – Indicative of the top end of the employment ladder.
	Lower managerial and professional occupations employment	Employment	Included – Indicative of the top end of the employment ladder.
	Intermediate occupations employment	Employment	Rejected – The middle rung on the employment ladder, little variance and indicates little.
X/I	account workers employment	Employment	Included – Self employed a significant proportion of the workforce as yet not included.
85	Lower supervisory and technical occupations employment	Employment	Rejected – The lower middle rung on the employment ladder, little variance and indicates little.
86	Semi-routine occupations employment	Employment	Rejected – The lower middle rung on the employment ladder, little variance and indicates little.
87	Routine occupations employment	Employment	Included – Indicative of the bottom end of the employment ladder.
88	Never worked	Employment	Included – Indicative of a more serious unemployment problem, picks out deprived areas with a significant lack of employment.
89	Long-term unemployed	Employment	Included – Indicative of a more serious unemployment problem, picks out deprived areas with a significant lack of employment.
- 90	Train to work	Socio-Economic	Rejected – Small numbers in some areas
91	Bus, Mini Bus or Coach to work	Socio-Economic	Rejected – Small numbers in some areas
92	Car to work	Socio-Economic	Included – Indicative of the commuter, high variance
93	Motorcycle, Scooter or Moped to work	Socio-Economic	Rejected – Small numbers in some areas, little variation
94	Walk to work	Socio-Economic	Included – A contrast to 92
	Bike to work	Socio-Economic	Rejected – Small numbers in some areas
96	Work mainly from home	Socio-Economic	Rejected – Small numbers in some areas
97	Purpose-built flats	Housing	Included – Housing type is indicative of the type and standing of people who live in an area
98	Terraced houses	Housing	Included – Housing type is indicative of the type and standing of people who live in an area
99	Detached housing	Housing	Included – Housing type is indicative of the type and standing of people who live in an area
100	Semi-detached Housing	Housing	Rejected – Pseudo Included as the rest of the variance in the housing category is included
101	Bedsits	Housing	Included – Housing type is indicative of the type and standing of people who live in an area
102	Households With no residents: Vacant	Housing	Rejecte d – Very small numbers in some areas
103	Households With no residents: Second residence / holiday home	Housing	Included – Indicative of areas where tourism is an important industry. An industry which is of increasing importance to the UK economy.

	Caravan or other mobile or		
104	temporary structure	Housing	Rejected – Little variance across areas.
	Households with 3+ cars	Socio-Economic	Merged - With 106, Indicative of wealth
106	Households with 2 cars	Socio-Economic	Merged - With 105, Indicative of wealth
107	Households with 1 car	Socio-Economic	Rejected – Pseudo Included as the rest of the variance in the car category is included
108	No car households	Socio-Economic	Included – Indicative of deprivation
109	Average number of cars per household	Socio-Economic	Rejected – Covered by previous variables, highly correlated with 105 – 108.
110	LA Rented	Housing	Included – Shows areas with a large amount of council renting, indicative of the poorer end of society.
111	Owner occupiers	Housing	Rejected – Little variance, Pseudo Included as if it is not rented it must be owner occupied
112	Private Rented	Housing	Included – Indicative of a young mobile population
113	Mortgaged	Housing	Rejected – Little variance
114	Household size	Housing	Included – Gives a good
115	Rooms per household	Housing	Rejected – Covers the information in 119 plus a bit more
116	No central heating	Housing	Included – Variation between regions especially urban/rural
117	Lacking bath, shower and toilet	Housing	Rejected – Small numbers, little variance.
	Households: with an occupancy rating of -1 or less (Overcrowding)	Household Composition	Included – An indication of poverty
119	One-person no-pensioner households	Household Composition	Rejected – Covered to a large extent by 119
120	Single pensioner households	Household Composition	Included – Shows areas with a lot of elderly residents, especially coastal resorts.
121	Wholly student households	Household Composition	Rejected – Highly correlated with 79
122	2 adults no children	Household Composition	Included – The opposite to single parent families an indicator of wealth.
123	Only Pensioner households	Household Composition	Rejected – Highly correlated with 120 and age groups
124	Households with dependent children	Household Composition	Included – Gives a distinction between the number of children in an area. An indication as to the make up of the population structure of an area.
125	Lone Parent Families	Household Composition	Included – An indication of lower levels of wealth and a changing family structure.
126	Households: With one or more person with a limiting long-term illness	Household Composition	Rejected – Highly correlated with 42
127	Households: No adults in employment :with dependent children	Household Composition	Included – Indicative of poverty, especially within children.
128	Male lone parents	Household Composition	Rejected – Too Specific
129	Population change 1991 – 2001	Demographic	Included – An indication of the growth of an area. Also highly correlated with migration, Information that as yet is unavailable for the whole of the UK

Appendix B - Calculation of the 56 variables from Key Statistics National Report tables

	Title	Table	England and Wales	Scotland	Northern Ireland
1	Population Density	KS01	e/k	e/k	b/g
2	The percentage of all residents who are between the ages of 0 and 9	KS02	c+d+e	c+d+e	c+d+e
3	The percentage of all residents who are between the ages of 10 and 17	KS02	f+g+h	f+g+h	f+g+h
4	The percentage of all residents who are between the ages of 18 and 24	KS02	i+j	i+j	i+j
5	The percentage of all residents who are between the ages of 25 and 29	KS02	k/b	k	k
6	The percentage of all residents who are between the ages of 45 and 64	KS02	m+n	m+n	m+n
7	The percentage of all residents who are between the ages of 65 or over	KS02	o+p+q+r	o+p+q+r	o+p+q+r
8	The percentage of all residents over 16 who are Married	KS03	c+f	c+f	c+f
9	The percentage of all residents over 16 who have never been married	KS03	e	е	e
10	The percentage of all residents who were born outside UK	KS05	g+h+i	g+h+i	g+h+i
11	The percentage of all residents who are Black	KS06	n+o+p	l+m+n	j+k+l
12	The percentage of all residents who are Indian, Pakistani or Bangladeshi	KS06	j+k+l	g+h+i	f+g+h
13	Percentage of all residents who are Christian	KS07	с	c+d+e	c+d+e+f+g
14	Percentage of all residents who are of a religion other to Christian	KS07	d+e+f+g+h+i	f+g+h+i+j+k	h
15	The percentage of all residents who have Limiting long-term illness	KS08	с	с	с
16	The percentage of all residents whose health is good	KS08	e	e	e
17	The percentage of all residents who provide unpaid care	KS08	h	h	h
18	The percentage of all residents who are 16 and over and are seeking employment	KS09a	f	f	f
19	Residents who are economically active residents, as a percentage of residents who are 16+	KS09a	c+d+e+f+g	c+d+e+f+g	c+d+e+f+g
20	The percentage of working age males who are unemployed	KS09b	f	f	f
21	The percentage of working age females who work full time	KS9c	d	d	d
22	The percentage of working age females who work part time	KS9c	с	с	с
23	The percentage of working age residents who are employed who are employed in Agriculture; hunting; forestry and fishing	KS11a	c+d	c+d	с
24	The percentage of working age who are employed who are employed in Real estate; renting and business activities	KS11a	m	m	k
25	The percentage of working age who are employed who are employed as Managers and senior officials	KS12a	с	с	с

—	The manufactor of maximum $1(-74)$ with $n = 1$				
26	The percentage of residents age 16 - 74 with no qualifications	KS13	с	с	с
27	The percentage people of working age with First degree; Higher degree; NVQ levels 4 and 5; HNC; HND; Qualified Teacher Status; Qualified Medical Doctor; Qualified Dentist; Qualified Nurse; Midwife; Health Visitor	KS13	g	g	g+h
28	The percentage of all residents who are 16 and over and in full time education	KS14a	m	m	m
29	The percentage of working age who are employed who are employed in Large employers and higher managerial occupations	KS14a	с	с	с
30	The percentage of working age who are employed who are employed in Higher professional occupations	KS14a	d	d	d
31	The percentage of working age who are employed who are employed in Lower managerial and professional occupations	KS14a	e	е	e
32	The percentage of working age who are employed who are employed in Small employers and own account workers	KS14a	g	g	g
33	The percentage of working age who are employed who are employed in Routine occupations	KS14a	j	j	j
34	The percentage of working age who are employed who have never worked	KS14a	k	k	k
35	The percentage of working age who are Long-term unemployed (year last worked is 1999 or earlier)	KS14a	1	1	1
36	Residents who travel to work by car as a percentage of residents who are in employment	KS15	h+i+j	h+i+j	g+h+i+j
37	Residents who travel to work by foot as a percentage of residents who are in employment	KS15	1	1	1
38	All household spaces which are of accommodation type: Flat; maisonette or apartment: Purpose Built block of flats or tenement as a percentage of all households	KS16	h	1	1
39	All household spaces which are of accommodation type: Whole house or bungalow: Terraced (including end terrace)as a percentage of all households	KS16	g	k	k
40	All household spaces which are of accommodation type: Whole house or bungalow: Detached as a percentage of all households	KS16	e	i	i
41	Households which are Bedsits as a percentage of all households	KS16	i	m	m
42	Households which contain no residents: Second residence / holiday accommodation a percentage of all households	KS16	d	g	h
43	Households with 2+ cars as a percentage of all Households	KS17	e+f+g	e+f+g	e+f+g
44	Households with no cars as a percentage of all Households	KS17	с	с	с
45	Households which are local authority rented or housing association as a percentage of all households	KS18	f+g	f+g	f+g
46	Households which are privately Rented as a percentage of all households	KS18	h	h+i	h
47	The Average Number of people per household	KS19	с	с	с

48	Households which have no central heating as a percentage of all households	KS19	g+h	g+h	h+i
49	The percentage of all Households: with an occupancy rating of -1 or less (The occupancy rating provides a measure of under-occupancy and overcrowding. For example; a value of -1 implies that there is one room too few and that there is overcrowding in the household. The occupancy rating assumes that every household; including one person households, requires a minimum of two common rooms (excluding bathrooms))	KS19	e	e	e
50	Households containing only one permanent resident who is not a pensioner as a percentage of all households	KS20	d	d	d
51	Households containing only one permanent resident who is a pensioner as a percentage of all households	KS20	с	с	с
52	Households which contain 2 adults no children as a percentage of all households (Households comprising: One family and no others: Married/cohabiting couple households: No children)	KS20	f+i	f+i	f+i
53	Households which contain dependent children as a percentage of all households	KS20	g+j+l+n	g+j+l+n	g+j+l+n
54	The percentage of one parent households as a percentage of all households which contain children	KS20	l+m	l+m	l+m
55	The percentage of all Households: No adults in employment :with dependent children (A dependent child is a person in a household aged 0 -15 (whether or not in a family) or a person aged 16 - 18 who is a full-time student in a family with parent(s))	KS21	с	с	с
56	The percentage Population change 1991 - 2001	KS01	e-b	e-b	b-(1991 data not in KS01 was obtained from Casweb (column C in NI.xls

Appendix C - List of similarity between LAs

The distance between the LAs is measured by the sum of the squared Euclidian distance between each variable. A list of five is given for each LA however they are of varying distances apart and their listing does not suggest that they are very similar to the LA just that they are the five most similar.

The following will indication of how to appreciate if the distances between the LAs:

- The two most similar LAs are Rochdale & Oldham at a distance of 1.243
- The average distance between all the LAs is 9.603
- The two least similar LAs are City of London & Strabane at a distance of 35.381

As a very loose guide the values could be described as in the table below:

Similar	Under 4
Fairly Similar	4 -7
Averagely Similar/Dissimilar	7 - 11
Dissimilar	11 - 16
Very Dissimilar	Above 16

We will be happy to supply the entire proximity matrix or a custom proximity values for individual LAs by request.

	1	2	3	4	5
Aberdeen City	Edinburgh, City of	Norwich LA	Bristol, City of UA	Southampton UA	Cheltenham LA
Aber deen City	4.104	6.237	6.33	6.568	6.772
Aberdeenshire	Moray	Selby LA	Kennet LA	Mendip LA	Melton LA
Aber deensnin e	3.904	4.39	4.448	4.451	4.477
Adur LA	Lewes LA	Wyre LA	Poole UA	Taunton Deane LA	Arun LA
Auur LA	3.1	3.58	3.583	3.744	3.9
Allerdale LA	Carlisle LA	Copeland LA	Dover LA	Alnwick LA	Bassetlaw LA
Alleruale LA	3.057	3.28	3.438	3.697	3.738
	Teesdale LA	North Devon LA	Tynedale LA	Allerdale LA	Herefordshire,
Alnwick LA		North Devon Err			County of UA
	3.325	3.569	3.59	3.697	4.068
	Wyre Forest LA	Erewash LA	Newark and	North West	North Warwickshire
Amber Valley LA	Wyter ofest Err	Elewdon En	Sherwood LA	Leicestershire LA	LA
2	2.091	2.164	2.278	2.494	2.761
Angus	Scottish Borders	Moray	South Ayrshire	Perth & Kinross	Fife
Angus	3.062	3.111	3.271	3.334	3.62
Antrim	Lisburn	Ballymena	Down	Banbridge	Carrickfergus
Anum	3.144	3.685	4.173	4.228	4.286

	Carrickfergus	Newtownabbey	Larne	Ballymena	Flintshire UA
Ards	3.208	3.228	3.379	4.027	4.311
	Highland	Alnwick LA	Perth & Kinross	Berwick-upon-	Scarborough LA
Argyll & Bute	e			Tweed LA	_
	4.476	5.874	5.892	6.115	6.12
Armagh	Dungannon 2.192	Down 3.012	Magherafelt 3.056	Cookstown 3.094	Omagh 3.115
0	East Devon LA	3.012 Christchurch LA	3.056 Rother LA	3.094 Lewes LA	3.115 Tendring LA
Arun LA	3.017	3.065	3.106	3.215	3.52
	Mansfield LA	Wakefield LA	Doncaster LA	Bolsover LA	Rotherham LA
Ashfield LA	2.141	2.43	2.557	2.717	2.797
				East	Tonbridge and
Ashford LA	Braintree LA	West Wiltshire LA	South Kesteven LA	Northamptonshire	Malling LA
	1.684	2.049	2.171	2.577	2.592
Aylesbury Vale LA	Mid Bedfordshire	East Hertfordshire	Huntingdonshire	West Berkshire UA	North Wiltshire LA
	1.936	2.164	2.39	2.428	2.451
Babergh LA	Stroud LA	Wychavon LA	South Norfolk LA	Tewkesbury LA	Monmouthshire UA
Durver gir 201	1.754	2.362	2.368	2.371	2.512
Ballymena	Larne	Antrim	Newtownabbey	Ards	Ballymoney
-	3.223	3.685	4.018 Magharafalt	4.027 Fermanagh	4.309 Down
Ballymoney	Armagh 3.344	Dungannon 3.871	Magherafelt 4.039	4.079	Down 4.285
	Down	Antrim	Ards	Ballymoney	Ballymena
Banbridge	4.109	4.228	4.457	4.46	4.515
Barking and	Rochdale LA	Oldham LA	Coventry LA	Greenwich LB	Sandwell LA
Dagenham LB	6.312	6.336	6.363	6.509	6.53
	Ealing LB	Hounslow LB	Harrow LB	Redbridge LB	Merton LB
Barnet LB	4.949	4.954	5.093	5.537	5.779
Describer I A	Mansfield LA	Bolsover LA	Doncaster LA	Rotherham LA	Wakefield LA
Barnsley LA	1.801	2.113	2.142	2.507	2.607
Barrow-in-Furness	Burnley LA	St. Helens LA	North East	Hyndburn LA	Great Yarmouth LA
LA	2		Lincolnshire UA	-	
1.11	5.327	5.44	5.487	5.631	5.656
Basildon LA	Dartford LA	Thurrock UA	Gravesham LA	Broxbourne LA	Peterborough UA
	2.977	3.082 Huntingdonshire	3.261 Mid Dadfandahina	3.271	3.307
Basingstoke and Deane LA	West Berkshire UA 2.27	2.654	Mid Bedfordshire 2.671	East Hertfordshire 2.739	Aylesbury Vale LA 2.748
Dealle LA	North Lincolnshire	Newark and			
	UA	Sherwood LA	Doncaster LA	Rotherham LA	Ashfield LA
Bassetlaw LA	2.121	2.379	2.765	2.916	3.009
Bath and North	York UA	Cheltenham LA	Chester LA	Warwick LA	Colchester LA
East Somerset UA	2.966	3.09	3.359	3.451	3.988
D. R. J.	Colchester LA	Northampton LA	Hillingdon LB	Peterborough UA	Dartford LA
Bedford LA	3.262	3.609	3.751	3.865	3.902
Belfast	Middlesborough	Liverpool LA	Sunderland LA	Knowsley LA	Hartlepool UA
Denusi	6.653	7.359	7.853	7.965	7.967
Berwick-upon-	Scarborough LA	Alnwick LA	Dumfries &	North Devon LA	Teesdale LA
Tweed LA	c -		Galloway		5 011
	4.416 Havering LB	4.595 Stockport LA	5.054 Bury LA	5.076 Basildon LA	5.211 Dartford LA
Bexley LB	2.381	3.546	3.57	3.572	3.576
				Blackburn with	
Birmingham LA	Bradford LA	Wolverhampton LA	Sandwell LA	Darwen UA	Leicester UA
	5.046	5.317	5.537	5.924	6.034
	Hinckley and	South Derbyshire	South		
Blaby LA	Bosworth LA	LA	Gloucestershire UA	Eastleigh LA	Selby LA
	2.783	3.01	3.089	3.105	3.309
Blackburn with	Bradford LA	Oldham LA	Pendle LA	Rochdale LA	Burnley LA
Darwen UA	3.462	4.551	4.621	4.809	5.718
Blackpool UA	Torbay UA	Thanet LA	Hastings LA	Scarborough LA	Great Yarmouth LA
DIACKPOOL UA	4.549	4.616	4.802	5.824	5.9
Blaenau Gwent	Merthyr Tydfil UA	Easington LA	Rhondda, Cynon,	Caerphilly UA	Hartlepool UA
Diachau Owelle		Laoniguon L/1	Taff UA	1 9	1
UA	2.455	3.454	3.824	4.277	4.55

Blyth Valley LA	Wakefield LA	Wigan LA	Rotherham LA	Chester-le-Street	Stockton-on-Tees
	2.832 Barnsley LA	2.889 Mansfield LA	3.029 Ashfield LA	3.032 Doncaster LA	3.172 Rotherham LA
Bolsover LA	2.113	2.376	2.717	2.972	3.194
Bolton LA	Rochdale LA 2.293	Tameside LA 2.617	Oldham LA 2.642	Derby UA 3.018	Calderdale LA 3.08
Boston LA	Fenland LA	King's Lynn and West Norfolk LA	Breckland LA	South Holland LA	Newark and Sherwood LA
	2.974 Southend-on-Sea	3.033 Eastbourne LA	3.372 Worthing LA	3.67 Cheltenham LA	4.026 Canterbury LA
Bournemouth UA	5.118	5.258	5.551	5.633	5.697
Bracknell Forest UA	Basingstoke and Deane LA	Aylesbury Vale LA	East Hertfordshire LA	West Berkshire UA	Rushmoor LA
UA	3.247	3.696	3.934	4.085	4.134
Bradford LA	Blackburn with Darwen UA	Kirklees LA	Pendle LA	Preston LA	Birmingham LA
	3.462	4.151 East	4.511	4.773 Tonbridge and	5.046 St. Edmundsbury
Braintree LA	Ashford LA 1.684	Northamptonshire	West Wiltshire LA 2.254	Malling LA 2.42	LA 2.474
			· •	Herefordshire,	East Riding of
Breckland LA	Fenland LA	Sedgemoor LA	Forest of Dean LA	County of UA	Yorkshire UA
	2.091	2.841 Waltham Forest LB	2.981 Haringey LB	3.007 Hounslow LB	3.112 Dedheider LD
Brent LB	Ealing LB 5.727	6.965	7.44	The Hounslow LB	Redbridge LB 8.639
Brentwood LA	Sevenoaks LA 2.356	Epsom and Ewell 2.679	Macclesfield LA 2.707	Mid Sussex LA 2.858	Mole Valley LA 2.968
Bridgend UA	Torfaen UA 2.7	Caerphilly UA 2.747	Mansfield LA 2.946	Rotherham LA 3.206	Doncaster LA 3.225
Bridgnorth LA	Hambleton LA 3.118	North Shropshire 3.159	Melton LA 3.183	Babergh LA 3.387	Derbyshire Dales 3.403
Brighton and Hove	Bournemouth UA 6.002	Bristol, City of UA 6.31	Cheltenham LA 6.635	Edinburgh, City of 7.398	Exeter LA 7.446
Bristol, City of UA	Cardiff UA 3.998	Portsmouth UA 4.023	Southampton UA 4.69	Cheltenham LA 4.824	Leeds LA 4.849
Broadland LA	South Norfolk LA 2.063	North Kesteven LA 2.818	Mid Suffolk LA 2.885	Babergh LA 3.135	New Forest LA 3.172
Bromley LB	Sutton LB 3.393	Trafford LA 3.554	Epping Forest LA 3.743	Epsom and Ewell 3.836	Spelthorne LA 3.866
Bromsgrove LA	Congleton LA 2.065	Lichfield LA 2.096	South Staffordshire 2.509	Wychavon LA 2.744	Fareham LA 2.812
Broxbourne LA	Dartford LA 2.497	South Bedfordshire 2.868	Braintree LA 2.961	Maidstone LA 3.237	Basildon LA 3.271
DIOXDOUTHE LA					Shrewsbury and
Broxtowe LA	Gedling LA	Stafford LA	Stockport LA	Rugby LA	Atcham LA
	2.098 Hyndburn LA	2.64 Pendle LA	3.035 Bolton LA	3.036 Tameside LA	3.167 Rochdale LA
Burnley LA	2.136	3.412	3.56	3.632	3.742
Bury LA	Rossendale LA 2.675	Stockport LA 2.978	Gravesham LA 3.137	Bolton LA 3.2	Peterborough UA 3.242
Caerphilly UA	Torfaen UA	Rhondda, Cynon, Taff UA	Bridgend UA	Barnsley LA	Sedgefield LA
	2.214	2.55	2.747	3.639	3.694
Calderdale LA	Kirklees LA 3.013	Bolton LA 3.08	Rossendale LA 3.767	Tameside LA 3.839	East Staffordshire 3.926
Cambridge LA	Oxford LA 2.903	Southampton UA 8.784	Reading UA 9.247	Edinburgh, City of 9.576	Exeter LA 9.99
Camden LB	Hammersmith and Fulham LB	Islington LB	Westminster LB	Kensington and Chelsea LB	Lambeth LB
	5.977	6.027	6.205	7.224	9.091
Cannock Chase LA	Flintshire UA	Nuneaton and Bedworth LA	North Warwickshire LA	Erewash LA	Ellesmere Port and Neston LA
	2.515	2.589	3.065	3.069	3.229

	Lancaster LA	York UA	Bath and North East	Stirling	Charnwood LA
Canterbury LA	3.468	3.747	Somerset UA 4.059	4.329	4.786
	North Devon LA	West Devon LA	Kerrier LA	4.329 Teignbridge LA	4.780 Carrick LA
Caradon LA	2.815	2.849	3.061	3.103	3.112
Cardiff UA	Bristol, City of UA	Preston LA	Coventry LA	Leeds LA	Sheffield LA
Carulli UA	3.998	4.224	4.405	4.591	5.025
Carlisle LA	Dover LA	Allerdale LA	Darlington UA	Weymouth and Portland LA	Angus
	2.957	3.057	3.221	3.299	3.813
Carmarthenshire UA	Denbighshire UA 3.36	Pembrokeshire UA 4.219	Wyre LA 4.287	Kerrier LA 4.297	Bridgend UA 4.299
Carrick LA	Isle of Wight UA 2.817	Teignbridge LA 3.085	Caradon LA 3.112	Conwy UA 3.113	Kerrier LA 3.183
Carrickfergus	Newtownabbey 2.162	Ards 3.208	Telford and Wrekin 3.451	Lisburn 3.638	Larne 3.948
Castle Morpeth	Monmouthshire UA	Tynedale LA	Stafford LA	Malvern Hills LA	East Riding of
LA	3.264	3.643	3.776	3.932	Yorkshire UA 4.165
Castle Point LA	Rochford LA	Forest of Dean LA	Gedling LA	Hinckley and Bosworth LA	Staffordshire Moorlands LA
Castle Folint LA	2.677	3.405	3.446	3.572	3.643
Castlereagh	North Down	Newtownabbey	Carrickfergus	Ards	Warrington UA
Casuereagli	3.557	3.679	4.43	4.74	4.871
Ceredigion UA	Canterbury LA 6.206	Lancaster LA 6.455	Carrick LA 6.946	Gwynedd UA 7.206	Torridge LA 7.385
Charnwood LA	Colchester LA	Oadby and Wigston	Bedford LA	Broxtowe LA	Stirling
Charliwood LA	3.405	3.719	4.159	4.175	4.464
Chelmsford LA	Maidstone LA 2.123	Mid Sussex LA 2.64	South Bedfordshire 2.769	North Hertfordshire 2.787	Eastleigh LA 2.874
Cheltenham LA	Bath and North East Somerset UA	York UA	Warwick LA	Chester LA	Worcester LA
	3.09	3.473	4.015	4.523	4.715
<i>2</i> 1	Huntingdonshire	North Wiltshire LA	Mid Bedfordshire	Aylesbury Vale LA	South Gloucestershire UA
Cherwell LA	LA 2.428	2.473	LA 2.672	2.72	2.859
		Shrewsbury and			Bath and North East
Chester LA	Stafford LA	Atcham LA	Stockport LA	Warwick LA	Somerset UA
	3.195	3.258	3.28 Rotherham LA	3.298	3.359
Chesterfield LA	Mansfield LA 3.128	North Tyneside LA 3.243	3.26	Wakefield LA 3.309	Doncaster LA 3.369
Chester-le-Street	Wigan LA	Blyth Valley LA	Ellesmere Port and Neston LA	Nuneaton and Bedworth LA	Wakefield LA
LA	2.939	3.032	3.111	3.673	3.706
Chichester LA	Lewes LA 2.845	Cotswold LA 2.866	New Forest LA 3.169	Suffolk Coastal LA 3.233	West Dorset LA 3.234
	South Bucks LA	Waverley LA	Uttlesford LA	Surrey Heath LA	Mole Valley LA
Chiltern LA	1.804	2.945	3.379	3.456	3.512
Chorley LA	Warrington UA 2.052	South Ribble LA 2.139	Vale Royal LA 2.39	North Warwickshire 2.398	Rugby LA 2.635
Christchurch LA	Rother LA 3.025	Arun LA 3.065	East Devon LA 3.7	Tendring LA 3.878	North Norfolk LA 4.993
		Kensington and		Hammersmith and	
City of London LB	Westminster LB 15.231	Chelsea LB 17.846	Camden LB 18.101	Fulham LB 18.916	Wandsworth LB 19.436
<u> </u>	Falkirk	Fife	South Lanarkshire	East Ayrshire	North Ayrshire
Clackmannanshire	2.314	2.742	3.03	3.365	3.704
Colchester LA	Maidstone LA	Bedford LA	Ashford LA	Chelmsford LA	Braintree LA
	3.153 Down	3.262 Larne	3.27 Moyle	3.271 Ballymena	3.339 Craigavon
Coleraine	4.866	4.936	5.322	5.322	5.608
Congleton LA	Bromsgrove LA 2.065	Wychavon LA 2.457	Tewkesbury LA 2.484	Lichfield LA 2.601	Stafford LA 2.669
a u :	Denbighshire UA	Isle of Wight UA	Carrick LA	Torbay UA	Shepway LA
Conwy UA	2.529	2.669	3.113	3.529	3.569

	Dungannon	Magherafelt	Armagh	Omagh	Newry and Mourne
Cookstown	1.653	3.023	3.094	3.357	3.491
	Redcar and	Doncaster LA	Allerdale LA	Darlington UA	Stockton-on-Tees
Copeland LA	Cleveland UA 3.069	3.15	3.28	3.387	UA 3.492
	West Lothian	Blyth Valley LA	Tameside LA	Clackmannanshire	Wakefield LA
Corby LA	4.64	4.674	4.681	4.727	4.773
	Stratford-upon-	Chichester LA	Harrogate LA	Salisbury LA	Wealden LA
Cotswold LA	Avon LA 2.856	2.866	3.206	3.367	3.377
G (1)	Preston LA	Derby UA	Bolton LA	Cardiff UA	Leeds LA
Coventry LA	2.79	3.873	4.356	4.405	4.502
Craigavon	Lisburn 4.019	Larne 4.153	Down 4.494	Ballymena 4.67	Antrim 4.696
	South Lakeland LA	South Somerset LA	Tynedale LA	West Devon LA	Mid Devon LA
Craven LA	3.433	3.671	3.712	3.713	3.735
Crawley LA	Dartford LA 3.49	Stevenage LA 3.52	Swindon UA 3.811	Northampton LA 3.844	Thurrock UA 4.241
Crewe and	East Staffordshire	Vale Royal LA	Sedgemoor LA	Shrewsbury and	East Riding of
Nantwich LA	LA 1.984	2.684	2.749	Atcham LA 2.755	Yorkshire UA 2.84
Country LD	Enfield LB	Waltham Forest LB	Hillingdon LB	Merton LB	Sutton LB
Croydon LB	3.596	5.334	5.537	5.657	5.86
Dacorum LA	North Hertfordshire LA	South Bedfordshire LA	Chelmsford LA	Three Rivers LA	Basingstoke and Deane LA
Datoi uni LA	1.888	2.744	2.924	2.952	3.079
Darlington UA	Dover LA	North Tyneside LA	Carlisle LA	Doncaster LA	Copeland LA
Durington Cri	2.653 Broxbourne LA	2.972 Swindon UA	3.221 Thurrock UA	3.373 Basildon LA	3.387 Northampton LA
Dartford LA	2.497	2.502	2.588	2.977	2.982
Daventry LA	South Northamptonshire	North Wiltshire LA	Huntingdonshire LA	Mid Bedfordshire LA	Test Valley LA
Davenu y LA	2.152	2.314	2.366	2.404	2.453
Denbighshire UA	Conwy UA	Shepway LA	Wyre LA	Kerrier LA	Carmarthenshire
Denbighishire Cri	2.529	3.164 Bolton LA	3.326 Sheffield LA	3.344	3.36 Leeds LA
Derby UA	Preston LA 2.943	3.018	3.47	Ipswich LA 3.66	3.741
Derbyshire Dales	Malvern Hills LA	Suffolk Coastal LA	Babergh LA	Tynedale LA	Monmouth shire UA
-	2.677 Strabane	2.781 Newry and Mourne	2.83 Limavady	2.957 Omagh	3.035 Craigavon
Derry	6.588	6.851	7.089	7.801	8.446
Derwentside LA	Sedgefield LA	Wear Valley LA	Wansbeck LA	Torfaen UA	Barnsley LA
	1.892 Mansfield LA	2.279 Rotherham LA	2.353 Wakefield LA	3.365	3.532 Ashfield LA
Doncaster LA	1.719	1.885	2.122	Barnsley LA 2.142	2.557
Dover LA	Shepway LA	Weymouth and Portland LA	Darlington UA	Carlisle LA	Allerdale LA
	2.341	2.614	2.653	2.957	3.438
Down	Armagh 3.012	Lisburn 3.725	Banbridge 4.109	Antrim 4.173	Dungannon 4.228
	Erewash LA	Wrexham UA	Nuneaton and	Wakefield LA	Rotherham LA
Dudley LA	3.409	3.526	Bedworth LA 3.537	3.601	3.648
Dumfries &	Scottish Borders	3.520 Angus	Allerdale LA	Alnwick LA	3.048 Highland
Galloway	3.773	3.856	3.96	4.074	4.392
Dundee City	Glasgow City	Inverclyde	Newcastle upon Tyne LA	West Dunbartonshire	Norwich LA
	5.949	6.448	6.497	6.599	7.085
Dungannon	Cookstown 1.653	Armagh 2.192	Omagh 2.869	Magherafelt 2.97	Newry and Mourne 3.084
.	Canterbury LA	Lancaster LA	Charnwood LA	Newcastle-under-	York UA
Durham LA	5.068	5.649	5.664	Lyme LA 5.679	5.777
	Hounslow LB	Barnet LB	Brent LB	Redbridge LB	Merton LB
Ealing LB	3.472	4.949	5.727	5.858	5.998
	Merthyr Tydfil UA	Blaenau Gwent UA	Neath Port Talbot	Sedgefield LA	Barnsley LA

	North Ayrshire	Clackmannanshire	Fife	Falkirk	South Lanarkshire
East Ayrshire	2.428	3.365	3.835	4.022	4.055
East Cambridgeshire	Mid Suffolk LA 3.111	Wychavon LA 3.164	South Kesteven LA 3.323	Maldon LA 3.406	Harborough LA 3.495
East Devon LA	West Dorset LA 2.257	Rother LA 2.921	Arun LA 3.017	North Norfolk LA 3.19	West Somerset LA 3.679
East Dorset LA	New Forest LA 2.915	Wealden LA 3.284	Malvern Hills LA 3.848	South Norfolk LA 3.977	Broadland LA 4.284
East Dunbartonshire	East Renfrewshire 2.312	Solihull LA 3.557	Vale of Glamorgan, The UA 4.362	Stockport LA 4.524	Chelmsford LA 4.558
East Hampshire LA	Uttlesford LA	Horsham LA	Mid Sussex LA	Test Valley LA	Vale of White Horse LA
East Hertfordshire LA	1.336 West Berkshire UA	1.994 Mid Bedfordshire LA	2.052 Aylesbury Vale LA	2.14 South Oxfordshire LA	2.263 Vale of White Horse LA
LA	2.047 King's Lynn and	2.068	2.164	2.168	2.56
East Lindsey LA	West Norfolk LA 3.705	North Norfolk LA 3.971	Torridge LA 4.209	Restormel LA 4.388	South Holland LA 4.483
East Lothian	Midlothian 3.029	Angus 3.951	Basildon LA 4.13	Fife 4.17	Perth & Kinross 4.205
East Northamptonshire	Braintree LA 2.247	South Kesteven LA 2.514	Kettering LA 2.573	Ashford LA 2.577	Daventry LA 2.6
East Renfrewshire	East Dunbartonshire 2.312	Solihull LA 3.868	Three Rivers LA 4.133	Hertsmere LA 4.308	Chelmsford LA 4.577
East Riding of Yorkshire UA	Sedgemoor LA 1.964	West Lindsey LA 2.273	Forest of Dean LA 2.432	South Somerset LA 2.555	Newark and Sherwood LA 2.588
East Staffordshire LA	Crewe and Nantwich LA 1.984	Swale LA 2.93	Erewash LA 3.008	Kettering LA 3.101	Oswestry LA 3.393
Eastbourne LA	Worthing LA 3.919	Torbay UA 4.605	Arun LA 4.638	Thanet LA 5.018	Shepway LA 5.04
Eastleigh LA	South Gloucestershire UA	Test Valley LA	Tonbridge and Malling LA	North Wiltshire LA	Fareham LA
Eden LA	1.765 Ryedale LA 2.528	2.192 South Shropshire 3.662	2.551 Mid Devon LA 3.778	2.644 West Devon LA 3.843	2.66 Powys UA 3.962
Edinburgh, City of	Aberdeen City 4.104	Reading UA 7.146	Bristol, City of UA 7.183	Cheltenham LA 7.225	Brighton and Hove 7.398
Eilean Siar	Highland 6.154	Isle of Anglesey UA 6.514	Dumfries & Galloway 6.741	Allerdale LA 6.848	Pembrokeshire UA 6.873
Ellesmere Port and Neston LA	Flintshire UA 2.456	Nuneaton and Bedworth LA 2.783	West Lancashire LA 2.948	Warrington UA 3.031	Newark and Sherwood LA 3.079
Elmbridge LA	St. Albans LA 3.03	Windsor and Maidenhead UA 3.181	South Bucks LA 3.423	Woking LA 3.679	Chiltern LA 3.913
Enfield LB	Croydon LB 3.596	Hillingdon LB 5.03	Waltham Forest LB 5.26	Greenwich LB 5.457	Redbridge LB 5.47
Epping Forest LA	Maidstone LA 3.052	Sevenoaks LA 3.206	Three Rivers LA 3.331	Spelthorne LA 3.345	Hertsmere LA 3.353
Epsom and Ewell LA	Reigate and Banstead LA 2.524	Brentwood LA 2.679	Three Rivers LA 2.833	Mid Sussex LA 2.936	Tandridge LA 3.029
Erewash LA	Amber Valley LA 2.164	Nuneaton and Bedworth LA 2.516	Wyre Forest LA 2.784	Flintshire UA 2.896	Crewe and Nantwich LA 2.91
Exeter LA	Portsmouth UA 4.216	Southampton UA 4.569	2.784 York UA 4.743	Lancaster LA 4.884	Bristol, City of UA 5.141
Falkirk	Clackmannanshire 2.314	South Lanarkshire 2.382	Fife 2.636	Renfrewshire 3.023	Blyth Valley LA 3.352
Fareham LA	Eastleigh LA 2.66	Test Valley LA 2.667	Congleton LA 2.698	Tewkesbury LA 2.722	Bromsgrove LA 2.812

	Breckland LA	Boston LA	Sedgemoor LA	King's Lynn and West Norfolk LA	South Holland LA
Fenland LA	2.091	2.974	3.051	3.309	3.456
	Armagh	Omagh	Dungannon	Newry and Mourne	Ballymoney
Fermanagh	3.409	3.527	3.793	4.038	4.079
Fife	Falkirk 2.636	Clackmannanshire 2.742	South Lanarkshire 3.149	South Ayrshire 3.298	Angus 3.62
Flintshire UA	Ellesmere Port and Neston LA 2.456	Cannock Chase LA 2.515	North Warwickshire LA 2.679	South Ribble LA 2.853	Crewe and Nantwich LA 2.885
Forest Heath LA	St. Edmundsbury 4.675	2.313 Cherwell LA 4.753	Swindon UA 4,773	Kettering LA 4.965	2.883 Kennet LA 5.004
Forest of Dean LA	West Lindsey LA 2.385	Newark and Sherwood LA 2.394	East Riding of Yorkshire UA 2.432	Sedgemoor LA 2.456	Babergh LA 2.689
Fylde LA	Lewes LA 3.33	Chichester LA 3.783	North Somerset UA 3.791	Wyre LA 3.915	Arun LA 3.952
Gateshead LA	Sunderland LA 2.865	North Tyneside LA 3.07	Wansbeck LA 3.442	Salford LA 3.52	Barnsley LA 3.899
Gedling LA	Broxtowe LA 2.098	Wyre Forest LA 2.687	Stafford LA 2.709	Amber Valley LA 2.883	Erewash LA 2.918
Glasgow City	Dundee City 5.949	West Dunbartonshire 7.921	Inverclyde 8.432	Manchester LA 9.189	Newcastle upon Tyne LA 9.238
Gloucester LA	Worcester LA 3.3	Northampton LA 3.418	Medway UA 3.463	Dartford LA 3.464	East Staffordshire 3.532
Gosport LA	Dartford LA 3.563	Gloucester LA 3.577	Basildon LA 3.713	Medway UA 3.757	Swindon UA 3.793
Gravesham LA	Swale LA 2.851	Medway UA 2.988	Bury LA 3.137	Peterborough UA 3.138	Wellingborough LA 3.178
Great Yarmouth	Waveney LA 2.836	Thanet LA 3.869	Copeland LA 4.168	Allerdale LA 4.194	Doncaster LA 4.311
Greenwich LB	Waltham Forest LB 4.679	Enfield LB 5.457	Lewisham LB 5.73	Croydon LB 6.074	Barking and Dagenham LB 6,509
Guildford LA	Runnymede LA 3.066	Warwick LA 3.185	Winchester LA 3.235	Reigate and Banstead LA 3.711	Waverley LA 3.88
Gwynedd UA	Isle of Anglesey UA 4.375	Pembrokeshire UA 4.807	Carrick LA 4.87	Kerrier LA 4.958	Penwith LA 4.986
Hackney LB	Southwark LB 5.918	Haringey LB 6.539	Islington LB 7.85	Lewisham LB 7.892	Lambeth LB 7.907
Halton UA	St. Helens LA 2.771	Stockton-on-Tees 3.695	Newport UA 3.79	Sunderland LA 3.949	Wigan LA 4.019
Hambleton LA	Wychavon LA 2.95	Babergh LA 2.971	Mid Suffolk LA 2.974	Melton LA 2.99	Ribble Valley LA 3
Hammersmith and Fulham LB	Wandsworth LB 5.214	Camden LB 5.977	Islington LB 6.536	Kensington and Chelsea LB 6.889	Lambeth LB 7.026
Harborough LA	South Northamptonshire 2.128	Horsham LA 2.433	Test Valley LA 2.458	Uttlesford LA 2.491	East Hampshire LA 2.589
Haringey LB	Lewisham LB 5.472	Lambeth LB 5.956	Hackney LB 6.539	Waltham Forest LB 6.934	Southwark LB 7.167
Harlow LA	Stevenage LA 2.461	Basildon LA 3.618	Thurrock UA 3.921	West Lothian 3.929	Northampton LA 4.152
Harrogate LA	Salisbury LA 2.275	Tunbridge Wells 2.646	Tewkesbury LA 3.001	Kennet LA 3.148	Cotswold LA 3.206
Harrow LB	Redbridge LB 4.227	Barnet LB 5.093	Hounslow LB 5.232	Ealing LB 6.321	Slough UA 6.465
Hart LA	Surrey Heath LA	Wokingham UA 2.188	West Berkshire UA 3.364	South Oxfordshire LA 3.528	South Cambridgeshire LA 3.667
Hartlepool UA	Redcar and Cleveland UA	2.188 Sunderland LA 3.186	3.364 Middlesborough UA 3.59	3.528 South Tyneside LA 3.906	Doncaster LA 3.932

Hostings I A	Southend-on-Sea	Thanet LA	Torbay UA	Shepway LA	Blackpool UA
Hastings LA	3.839	3.881	4.73	4.776	4.802
Havant LA	Ellesmere Port and Neston LA	Wyre Forest LA	Stockport LA	Crewe and Nantwich LA	Sedgemoor LA
	3.361	3.376	3.584	3.601	3.679
Havering LB	Bexley LB	Stockport LA	Basildon LA	Havant LA	Bury LA
	2.381	3.326	3.49	3.774	3.792
Herefordshire, County of UA	Mid Devon LA	North Shropshire LA	South Somerset LA	East Riding of Yorkshire UA	Oswestry LA
county of the	2.149	2.215	2.64	2.647	2.653
Hertsmere LA	Three Rivers LA 2.7	North Hertfordshire 3.268	Epping Forest LA 3.353	Dacorum LA 3.362	Wycombe LA 3.71
High Peak LA	Rugby LA	Chorley LA	Kettering LA	Shrewsbury and Atcham LA	West Wiltshire LA
	2.403	2.809	2.864	2.882	2.975
Highland	Angus	Moray	Perth & Kinross	Scottish Borders	Dumfries & Galloway
	3.722	3.987	4.011	4.28	4.392
Hillingdon LB	Bedford LA	Watford LA	Sutton LB	Hertsmere LA	Crawley LA
	3.751 North West	3.994 North Warwickshire	4.298	4.494	4.684
Hinckley and Bosworth LA	Leicestershire LA	LA	Stafford LA	Wyre Forest LA	Melton LA
	1.782	2.373	2.549	2.636	2.644
Horsham LA	East Hampshire LA	Uttlesford LA	Mid Sussex LA	Tandridge LA	Test Valley LA
	1.994 Faling LP	2.051 Slough UA	2.074 Redbridge LB	2.083 Barnet LB	2.3 Harrow LB
Hounslow LB	Ealing LB 3.472	Slough UA 4.677	4.899	Barnet LB 4.954	Harrow LB 5.232
	3.472 Mid Bedfordshire	4.677 North Wiltshire LA	4.899 Test Valley LA	4.954 Daventry LA	Aylesbury Vale LA
Huntingdonshire	1.745	2.039	2.31	2.366	2.39
Hyndburn LA	Burnley LA	Pendle LA	Bolton LA	Oldham LA	Tameside LA
5	2.136	3.073	3.467	3.85	3.941
	West Dunbartonshire	Renfrewshire	North Lanarkshire	North Ayrshire	South Lanarkshire
Inverclyde		4.034	4.1.4	4.689	4 770
	3.154 Plymouth UA	Gloucester LA	4.14 Derby UA	Gosport LA	4.779 Calderdale LA
Ipswich LA	3.615	3.655	3.66	4.06	
T.1 C A	S.015 Kerrier LA	Pembrokeshire UA	Gwynedd UA	Denbighshire UA	4.113 Allerdale LA
Isle of Anglesey UA	3.804	3.818	4.375	4.381	4.524
UA					
T.I 6 XX/2 . I. 4 TT A	Conwy UA	Carrick LA	Scarborough LA 2.821	Torbay UA 3.254	Restormel LA
Isle of Wight UA	2.669	2.817 South Hams LA	2.821 South Lakeland LA		3.406
Isles of Scilly LA	Argyll & Bute 15.403		16.272	Eden LA 16.353	North Cornwall LA
-	Camden LB	16.191 Lambeth LB	Hammersmith and	Southwark LB	16.636
Islington LB			Fulham LB	Southwark LD	Haringey LB
	6.027	6.394	6.536	7.24	7.445
Kennet LA	Salisbury LA	West Oxfordshire	North Wiltshire LA	Test Valley LA	Melton LA
Kennet LA	2.249	2.455	2.585	2.712	2.742
Kensington and	Westminster LB	Hammersmith and	Camden LB	Wandsworth LB	Islington LB
Chelsea LB		Fulham LB			Ū.
Chelsea LD	6.219	6.889	7.224	9.897	9.985
Kerrier LA	Restormel LA	Caradon LA	Carrick LA	Denbighshire UA	Waveney LA
	2.108	3.061	3.183	3.344	3.354
Kettering LA	Rugby LA	West Wiltshire LA	St. Edmundsbury LA	East Northamptonshire	Braintree LA
	2.056	2.311	2.484	2.573	2.676
King's Lynn and	Boston LA	Breckland LA	Sedgemoor LA	Fenland LA	Purbeck LA
West Norfolk LA	3.033	3.255	3.283	3.309	3.506
Kingston upon	Middlesborough UA	Hartlepool UA	Liverpool LA	North East Lincolnshire UA	Sandwell LA
	5 105	5.648	5.8	5.961	6.249
Hull, City of UA	5.195				
Hull, City of UA Kingston upon	S.195 Reading UA	Merton LB	Richmond upon Thames I B	Watford LA	Sutton LB
Hull, City of UA	Reading UA		Thames LB		
Hull, City of UA Kingston upon		Merton LB 4.698 Bolton LA		Watford LA 5.306 Derby UA	Sutton LB 5.49 Leeds LA

	Middlesborough	Hartlepool UA	Liverpool LA	Halton UA	Kingston upon Hull
Knowsley LA	UA 5.285	6.058	6.107	6.171	City of UA 6.425
Lambeth LB	Southwark LB	Haringey LB	Islington LB	Lewisham LB	Hammersmith and Fulham LB
	5.819	5.956	6.394	6.619	7.026
Lancaster LA	Canterbury LA 3.468	Plymouth UA 4.432	Lincoln LA 4.548	York UA 4.774	Exeter LA 4.884
Larne	Ballymena 3.223	Ards 3.379	Newtownabbey 3.488	Carrickfergus 3.948	Craigavon 4.153
Leeds LA	Preston LA 3.215	Derby UA 3.741	Sheffield LA 4.028	Kirklees LA 4.045	Plymouth UA 4.117
Leicester UA	Birmingham LA 6.034	Luton UA 6.653	Blackburn with Darwen UA 6.925	Bradford LA 7.143	Coventry LA 7.24
Lewes LA	Chichester LA 2.845	New Forest LA 2.887	Adur LA 3.1	Arun LA 3.215	Poole UA 3.25
Lewisham LB	Waltham Forest LB 5.438	Haringey LB 5.472	Greenwich LB 5.73	Southwark LB 5.835	Lambeth LB 6.619
Lichfield LA	South Staffordshire LA 1.776	Bromsgrove LA 2.096	Stafford LA 2.567	Congleton LA 2.601	Hinckley and Bosworth LA 2.664
Limavady	Newry and Mourne 3.831	Omagh 3.923	Armagh 4.33	Magherafelt 4.547	Dungannon 4.586
Lincoln LA	Plymouth UA 3.498	Sheffield LA 3.833	Ipswich LA 4.126	Derby UA 4.207	Salford LA 4.419
Lisburn	Antrim 3.144	Carrickfergus 3.638	Newtownabbey 3.692	Down 3.725	Craigavon 4.019
Liverpool LA	Kingston upon Hull, City of UA 5.8	Knowsley LA 6.107	Middlesborough UA 6.668	Manchester LA 7.309	Belfast 7.359
Luton UA	Slough UA 5.197	Hillingdon LB 5.489	Enfield LB 5.565	Coventry LA 5.786	Redbridge LB 6.013
Macclesfield LA	Brentwood LA 2.707	Stratford-upon- Avon LA 2.707	Mole Valley LA 2.83	Sevenoaks LA 2.921	Waverley LA 2.964
Magherafelt	Dungannon 2.97	Cookstown 3.023	Armagh 3.056	0magh 4.023	Ballymoney 4.039
Maidstone LA	Chelmsford LA 2.123	Rugby LA 2.291	Tonbridge and Malling LA 2.371	South Bedfordshire LA 2.534	Braintree LA 2.534
Maldon LA	Wychavon LA 2.508	Mid Suffolk LA 2.527	Ashford LA 2.876	Braintree LA 2.991	Stroud LA 3.002
Malvern Hills LA	Derbyshire Dales 2.677	Wealden LA 2.813	Suffolk Coastal LA 2.999	New Forest LA 3.009	Monmouthshire UA 3.054
Manchester LA	Nottingham UA	Newcastle upon Tyne LA	Greenwich LB	Liverpool LA	Birmingham LA
	3.658	5.976 Barnsley LA	7.18 Rotherham LA	7.309	7.412 Bolsover LA
Mansfield LA	Doncaster LA 1.719	1.801	2.109	Ashfield LA 2.141	2.376
Medway UA	Gravesham LA 2.988	Dartford LA 3.042	Swale LA 3.068	Thurrock UA 3.097	Gloucester LA 3.463
Melton LA	Selby LA 2.411	Mid Suffolk LA 2.526	Stroud LA 2.535	South Kesteven LA 2.539	West Wiltshire LA 2.543
Mendip LA	Shrewsbury and Atcham LA 2.323	West Wiltshire LA 2.605	South Somerset LA 2.609	Babergh LA 2.694	Oswestry LA 2.706
Merthyr Tydfil UA	Blaenau Gwent UA 2.455	Rhondda, Cynon, Taff UA 3.142	Easington LA 3.204	Caerphilly UA 3.83	Neath Port Talbot UA 4.204
Merton LB	Z.435 Kingston upon Thames LB	Reading UA	Croydon LB	Barnet LB	Ealing LB
Mid Bedfordshire	4.698 Huntingdonshire	5.548 North Wiltshire LA	5.657 Aylesbury Vale LA	5.779 East Hertfordshire	5.998 Test Valley LA
LA	1.745	1.908	1.936	2.068	2.089

Mid Domon T A	Herefordshire, County of UA	West Devon LA	North Shropshire LA	South Somerset LA	Ryedale LA
Mid Devon LA	2.149	2.699	LA 2.771	2.913	3.074
Mid Suffolk LA	South Norfolk LA 2.28	Wychavon LA 2.335	Melton LA 2.526	Maldon LA 2.527	Babergh LA 2.595
Mid Sussex LA	East Hampshire LA	Tandridge LA	Horsham LA	Uttlesford LA	Reigate and Banstead LA
	2.052	2.069	2.074	2.333	2.48
Middlesborough UA	Hartlepool UA 3.59	Sunderland LA 4.497	South Tyneside LA 4,594	Redcar and Cleveland UA 5.007	Kingston upon Hull, City of UA 5.195
	East Lothian	West Lothian	Falkirk	Basildon LA	Wellingborough LA
Midlothian	3.029	3.556	3.79	3.812	3.982
Milton Keynes UA	Bracknell Forest UA	Rushmoor LA	Crawley LA	Basingstoke and Deane LA	Cherwell LA
	4.192	4.421	4.447 Macclesfield LA	4.528 Brentwood LA	4.621 Mid Sussex LA
Mole Valley LA	Waverley LA 1.842	Tandridge LA 2.559	Macclesfield LA 2.83	2.968	Mid Sussex LA 3.193
Monmouthshire UA	Stroud LA	Babergh LA	Forest of Dean LA	East Riding of Yorkshire UA	Tynedale LA
	2.463 Angus	2.512 Scottish Borders	2.736 Aberdeenshire	2.78 Highland	2.869 Perth & Kinross
Moray	3.111	3.809	3.904	3.987	4.02
Marila	Fermanagh	Coleraine	Omagh	Dungannon	Newry and Mourne
Moyle	4.144	5.322	5.787	5.903	5.944
Neath Port Talbot UA	Barnsley LA 3.558	Bridgend UA 3.689	Bolsover LA 3.732	Caerphilly UA 3.896	Torfaen UA 3.924
New Forest LA	Suffolk Coastal LA 2.387	Wealden LA 2.443	Lewes LA 2.887	East Dorset LA 2.915	South Norfolk LA 2.919
Newark and Sherwood LA	Amber Valley LA 2.278	Bassetlaw LA 2.379	Forest of Dean LA 2.394	North Lincolnshire 2.486	Wyre Forest LA 2.586
			Newark and		Ellesmere Port and
Newcastle-under- Lyme LA	Wrexham UA	Amber Valley LA	Sherwood LA	Wyre Forest LA	Neston LA
-	2.653	3.245	3.359	3.48	3.482
Newcastle upon Tyne LA	Sheffield LA 3.983	Nottingham UA 4.608	Salford LA 4.733	Lincoln LA 5.418	Norwich LA 5.502
Newham LB	Brent LB 9.342	Hackney LB 9.776	Waltham Forest LB 10.449	Tower Hamlets LB 10.661	Haringey LB 11.285
Newport UA	Stockton-on-Tees 3.151	Rochdale LA 3.237	Doncaster LA 3.461	Bridgend UA 3.513	Rotherham LA 3.518
Newry and	Omagh	Dungannon	Cookstown	Armagh	Limavady
Mourne	2.425	3.084	3.491	3.751	3.831
Nowtownabboy	Carrickfergus	Ards 3.228	Larne 3.488	Telford and Wrekin 3.569	Castlereagh 3.679
Newtownabbey	2.162 East Ayrshire	Clackmannanshire	Fife	North Lanarkshire	
North Ayrshire	2.428	3.704	3.811	3.957	3.974
North Cornwall LA	Torridge LA 3.161	North Devon LA 3.31	Caradon LA 3.884	Restormel LA 4.019	South Shropshire 4.021
North Devon LA	Caradon LA	North Cornwall LA	Restormel LA	Torridge LA	Herefordshire, County of UA
	2.815	3.31 Herefordshire,	3.365	3.371	3.498
North Dorset LA	South Somerset LA	County of UA 3.678	Mendip LA 3.811	Taunton Deane LA 3.825	Breckland LA 3.963
	3.441	Vale of Glamorgan,			
North Down	Castlereagh	The UA	Stafford LA	Gedling LA	Monmouthshire UA
	3.557 Newark and	3.879	4.159	4.358	4.435 Staffordshire
North East Derbyshire LA	Sherwood LA 3.134	Bassetlaw LA 3.256	Amber Valley LA 3.261	Wyre Forest LA 3.693	Moorlands LA 3.747
				Redcar and	Stockton-on-Tees
North East Lincolnshire UA	Copeland LA 3.855	Doncaster LA 3.907	Hartlepool UA 4.06	Cleveland UA 4.177	UA 4.192
North	Dacorum LA	Chelmsford LA	Reigate and	Three Rivers LA	Maidstone LA
Hertfordshire LA	1.888	2.787	Banstead LA 2.819	2.928	3.085

North Kesteven	Broadland LA	South Kesteven LA	Mid Suffolk LA	South Norfolk LA	Breckland LA
LA	2.818	2.856 West	2.906	3.081	3.199
North Lanarkshire	South Lanarkshire	West Dunbartonshire	North Ayrshire	Clackmannanshire	East Ayrshire
	3.274	3.731	3.957	4.033	4.086
North Lincolnshire	Bassetlaw LA	Newark and Sherwood LA	Amber Valley LA	Nuneaton and Bedworth LA	Ashfield LA
UA	2.121	2.486	3.14	3.156	3.157
NI ALNI CHITA	East Devon LA	West Dorset LA	West Somerset LA	King's Lynn and West Norfolk LA	East Lindsey LA
North Norfolk LA	3.19	3.603	3.695	3.905	3.971
North Shropshire	Herefordshire,	Mid Devon LA	West Lindsey LA	Forest of Dean LA	East Riding of
LA	County of UA 2.215	2.771	2.815	2.972	Yorkshire UA 2.976
North Somerset	Stroud LA	Tewkesbury LA	Poole UA	Babergh LA	New Forest LA
UA	2.68	2.752	2.756	2.853	2.972
North Tyneside LA	Darlington UA 2.972	Gateshead LA 3.07	Chesterfield LA 3.243	Blyth Valley LA 3.597	Sefton LA 3.78
North	North West Leicestershire LA	Wyre Forest LA	Hinckley and Bosworth LA	Chorley LA	Flintshire UA
Warwickshire LA	2.095	2.344	2.373	2.398	2.679
North West	Hinckley and	North Warwickshire	South Derbyshire	Wyre Forest LA	Amber Valley LA
Leicestershire LA	Bosworth LA 1.782	LA 2.095	LA 2.287	2.407	2.494
North Wiltshire	Test Valley LA	Mid Bedfordshire	Huntingdonshire	West Oxfordshire	Daventry LA
LA	1.527	1.908	2.039	2.12	2.314
Northampton LA	Dartford LA 2.982	Swindon UA 2.985	Peterborough UA 3.088	Worcester LA 3.291	Gloucester LA 3.418
Norwich LA	Lincoln LA	Bristol, City of UA	Newcastle upon Tyne LA	Sheffield LA	Southampton UA
NOFWICH LA	5.115	5.372	5.502	5.794	5.928
NI-44	Manchester LA	Newcastle upon	Norwich LA	Southampton UA	Lincoln LA
Nottingham UA	3.658	Tyne LA 4.608	6.428	6.722	6.809
Nuneaton and	Erewash LA	Cannock Chase LA	Wigan LA	Ellesmere Port and	Flintshire UA
Bedworth LA	2.516	2.589	2.71	Neston LA 2.783	2.994
Oadby and	Charnwood LA	Broxtowe LA	Rugby LA	Bedford LA	Blaby LA
Wigston LA	3.719 Rochdale LA	4.622 Bolton LA	4.71 Tameside LA	4.761 Walsall LA	4.956 Burnley LA
Oldham LA	1.243	2.642	3.402	3.655	3.784
	Newry and Mourne	Dungannon	Armagh	Cookstown	Fermanagh
Omagh	2.425	2.869	3.115	3.357 Dumfries &	3.527
Orkney Islands	Eden LA	Powys UA	Scottish Borders	Galloway	Highland
	5.639	5.666 Herefordshire,	5.952 East Riding of	5.978	6.083 Shrewsbury and
Oswestry LA	Sedgemoor LA	County of UA	Yorkshire UA	Mendip LA	Atcham LA
	2.607	2.653 Southampton UA	2.656	2.706	2.81 Edinburgh City of
Oxford LA	Cambridge LA 2.903	7.54	Reading UA 8.672	Exeter LA 9.132	Edinburgh, City of 9.501
Pembrokeshire UA	Kerrier LA 3.593	Isle of Anglesey UA 3.818	North Cornwall LA 4.027	Carmarthenshire 4.219	North Devon LA 4.463
Pendle LA	Hyndburn LA 3.073	Burnley LA 3.412	Kirklees LA 4.051	Bolton LA 4.447	Oldham LA 4.468
ъ чіт і	Scarborough LA	Isle of Wight UA	4.051 Carrick LA	4.447 Kerrier LA	4.468 North Cornwall LA
Penwith LA	4.133	4.407	4.52	4.891	4.919
Perth & Kinross	Scottish Borders	Angus	Taunton Deane LA	Shrewsbury and Atcham LA	Highland
	3.103	3.334	3.83	3.996	4.011
Peterborough UA	Northampton LA	Wellingborough LA	Gravesham LA	Bury LA	Basildon LA
L	3.088 Lincoln LA	3.106 Ipswich LA	3.138 Leeds LA	3.242 Derby UA	3.307 Tameside LA
Plymouth UA	3.498	3.615	4.117	4.371	4.376
Poole UA	North Somerset UA	New Forest LA	Gedling LA	Shrewsbury and Atcham LA	Lewes LA
roole UA	2.756	3.035	3.148	3.24	3.25

	Bristol, City of UA	Exeter LA	Leeds LA	Divincuth IIA	Lincoln I A
Portsmouth UA	4.023	4.216	Leeds LA 4.423	Plymouth UA 4,749	Lincoln LA 4.925
	South Shropshire		· -	Herefordshire,	
Powys UA	LA	West Devon LA	Ryedale LA	County of UA	Mid Devon LA
	2.785	3.329	3.347	3.359	3.558
Preston LA	Coventry LA	Derby UA	Leeds LA	Bolton LA	Kirklees LA
r reston LA	2.79	2.943	3.215	3.448	3.546
Purbeck LA	Suffolk Coastal LA	West Dorset LA	New Forest LA	Teignbridge LA	South Lakeland LA
I UI DECK LA	2.367	2.963	3.009	3.091	3.097
	Kingston upon	Watford LA	Bristol, City of UA	Merton LB	Sutton LB
Reading UA	Thames LB	4.055	-	5 5 40	6.052
	4.636	4.855	5.169	5.548	6.053
Redbridge LB	Harrow LB	Hounslow LB	Enfield LB	Barnet LB	Slough UA
	4.227 Hartlepool UA	4.899 Doncaster LA	5.47 Copeland LA	5.537 Mansfield LA	5.618 Barnsley LA
Redcar and Cleveland UA	2.665	2.674	3.069	3.114	3.244
Clevelallu UA	Tamworth LA	Wellingborough LA	Warrington UA	Telford and Wrekin	South Bedfordshire
Redditch LA	2.746	3.392	3.48	3.522	3.624
Reigate and	Tandridge LA	Mid Sussex LA	Epsom and Ewell	Three Rivers LA	South Oxfordshire
Banstead LA	2.381	2.48	2.524	2.63	2.652
	South Lanarkshire	Falkirk	Fife	Inverclyde	Clackmannanshire
Renfrewshire	2.411	3.023	3.859	4.034	4.125
Dectormal I A	Kerrier LA	Carrick LA	Caradon LA	North Devon LA	Isle of Wight UA
Restormel LA	2.108	3.204	3.26	3.365	3.406
Rhondda, Cynon,	Caerphilly UA	Merthyr Tydfil UA	Torfaen UA	Bridgend UA	Blaenau Gwent UA
Taff UA	2.55	3.142	3.202	3.786	3.824
Ribble Valley LA	Hambleton LA	Babergh LA	Stroud LA	Tewkesbury LA	Harrogate LA
Hobie vulley Lit	3.000	3.052	3.131	3.132	3.292
Richmond upon	Kingston upon	Merton LB	St. Albans LA	Elmbridge LA	Windsor and
Thames LB	Thames LB 5.079	6.576	6.878	7.041	Maidenhead UA 7.197
	Kennet LA	Salisbury LA	Hambleton LA	St. Edmundsbury	Melton LA
Richmondshire LA	3.872	4.532	4.625	4.89	4.921
	Oldham LA	Bolton LA	Tameside LA	Newport UA	Walsall LA
Rochdale LA	1.243	2.293	3.171	3.237	3.415
	Castle Point LA	Maldon LA	Tewkesbury LA	Babergh LA	Stroud LA
Rochford LA	2.677	3.023	3.033	3.114	3.134
	Dum I A	Tameside LA	Bolton LA	Nuneaton and	Wigan LA
Rossendale LA	Bury LA		DOIIOII LA	Bedworth LA	wigan LA
	2.675	3.324	3.336	3.455	3.597
Rother LA	East Devon LA	Christchurch LA	Arun LA	Tendring LA	West Dorset LA
Koulei LA	2.921	3.025	3.106	3.702	4.301
		Wakefield LA	Mansfield LA	Barnsley LA	Ashfield LA
Rotherham LA	Doncaster LA			2	
	1.885	2.045	2.109	2.507	2.797
Rugby LA	Kettering LA	Maidstone LA	West Wiltshire LA	High Peak LA	St. Edmundsbury
	2.056	2.291	2.345	2.403 Reigate and	2.576 Welwyn Hatfield
Runnymede LA	Guildford LA	Warwick LA	Winchester LA	Banstead LA	LA
Kunnymeue LA	3.066	3.493	4.233	4.412	LA 4.61
	Reigate and	Vale of White		South	South Oxfordshire
Rushcliffe LA	Banstead LA	Horse LA	Mid Sussex LA	Cambridgeshire LA	LA
	3.16	3.185	3.208	3.22	3.253
	Cherwell LA	Basingstoke and	Swindon UA	Bracknell Forest	Watford LA
Rushmoor LA		Deane LA		UA	
	3.661	4.002	4.066	4.134	4.227
Rutland UA	Harrogate LA	Kennet LA	East Hampshire LA	Hambleton LA	Congleton LA
	3.309	3.377	3.38	3.477	3.571
Drodola I A	Eden LA	South Shropshire LA	West Devon LA	Mid Devon LA	Herefordshire,
Ryedale LA	2.528	LA 2.697	2.816	3.074	County of UA 3.159
	Gateshead LA	Sheffield LA	North Tyneside LA	Tameside LA	Stoke-on-Trent UA
Salford LA	3.52	3.959	4.09	4.153	4.181
	5.54		West Wiltshire LA	St. Edm undsbury	Tewkesbury LA
	Kennet I A	Harrogate I A			
Salisbury LA	Kennet LA 2 249	Harrogate LA 2 275			
Salisbury LA Sandwell LA	Kennet LA 2.249 Wolverhampton LA	Harrogate LA 2.275 Walsall LA	2.474 Rochdale LA	2.716 Oldham LA	2.773 Stoke-on-Trent UA

Scarborough LA	Isle of Wight UA 2.821	Torbay UA 3.698	Carrick LA 3.872	Conwy UA 3.901	North Devon LA 3.997
Scottish Borders	Angus	Perth & Kinross	Dumfries & Galloway	Moray	Alnwick LA
	3.062	3.103	3.773	3.809	4.18
Codes Cold T A	Derwentside LA	Wansbeck LA	Wear Valley LA	Torfaen UA	Barnsley LA
Sedgefield LA	1.892	2.648	2.735	3.024	3.084
Sedgemoor LA	East Riding of Yorkshire UA	South Somerset LA	Forest of Dean LA	Newark and Sherwood LA	Oswestry LA
	1.964	2.112	2.456	2.592	2.607
Sefton LA	Wirral LA 1.865	Darlington UA 3.5	North Tyneside LA 3.78	Dover LA 3.797	St. Helens LA 3.909
			South Derbyshire		Hinckley and
Selby LA	South Kesteven LA 2.377	Melton LA 2.411	LA 2.521	Ashford LA 2.622	Bosworth LA 2.769
	Brentwood LA	Tandridge LA	East Hampshire LA	Mid Sussex LA	Uttlesford LA
Sevenoaks LA	2.356	2.483	2.64	2.655	2.796
	Derby UA	Lincoln LA	Salford LA	Newcastle upon Tyne LA	Leeds LA
Sheffield LA	3.47	3.833	3.959	3.983	4.028
	Dover LA	Weymouth and	Denbighshire UA	Thanet LA	Conwy UA
Shepway LA		Portland LA	-		
	2.341 Aberdeenshire	2.684	3.164 Highland	3.564	3.569 Perth & Kinross
Shetland Islands	4.803	Moray 5.515	5.676	Orkney Islands 6.13	6.316
Shrewsbury and	Taunton Deane LA	Mendip LA	South Somerset LA	Stroud LA	West Wiltshire LA
Atcham LA	2.068	2.323	2.517	2.521	2.528
Slough UA	Hounslow LB 4.677	Luton UA 5.197	Redbridge LB 5.618	Hillingdon LB 6.152	Harrow LB 6.465
	Warrington UA	Stockport LA	Vale Royal LA	Rugby LA	Lichfield LA
Solihull LA	2.961	3.041	3.095	3.281	3.34
	Angus	Fife	Dover LA	South Lanarksh ire	Darlington UA
South Ayrshire	3.271	3.298	4.057	4.072	4.075
South	Tonbridge and Malling LA	Maidstone LA	Braintree LA	Dacorum LA	Chelmsford LA
Bedfordshire LA	2.342	2.534	2.721	2.744	2.769
	Chiltern LA	Waverley LA	Mole Valley LA	Tandridge LA	Windsor and
South Bucks LA		-	-	3.357	Maidenhead UA 3.41
South	1.804 Vale of White	3.07 South Oxfordshire	3.353	3.337	3.41
South Cambridgeshire	Horse LA	LA	East Hampshire LA	Uttlesford LA	West Berkshire UA
LA	1.858	2.217	2.795	2.811	2.842
South Derbyshire	North West	Salby I A	Vale Royal LA	Hinckley and	Ashford LA
LA	Leicestershire LA	Selby LA	vale Royal LA	Bosworth LA	Asiliola LA
LA	2.287	2.521	2.684	2.762	2.857
South	Eastleigh LA	Test Valley LA	North Wiltshire LA	Mid Bedfordshire	Cherwell LA
Gloucestershire	1.765 South Lakeland LA	2.645 Purbeck LA	2.667 West Dorset LA	2.821 North Cornwall LA	2.859 Caradon LA
South Hams LA	2.944	3.854	4.311	4.475	4.545
South Holland LA	Breckland LA	Fenland LA	Boston LA	King's Lynn and West Norfolk LA	East Lindsey LA
South Holialiu LA	3.212	3.456	3.67	3.831	4.483
South Kesteven	Ashford LA	West Wiltshire LA	Selby LA	East	Melton LA
LA			2	Northamptonshire	
	2.171	2.197	2.377	2.514	2.539
South Lakeland LA	South Hams LA 2.944	West Dorset LA 3.093	Purbeck LA 3.097	Craven LA 3.433	Derbyshire Dales 4.036
	Z.944 Falkirk	Renfrewshire	Clackmannanshire	Fife	North Lanarkshire
South Lanarkshire	2.382	2.411	3.03	3.149	3.274
South Norfolk LA	Broadland LA	Mid Suffolk LA	Babergh LA	Suffolk Coastal LA	Forest of Dean LA
	2.063	2.28	2.368	2.803	2.834
South Northamptonshire	Harborough LA 2.128	Daventry LA 2.152	Mid Bedfordshire 2.396	Test Valley LA 2.421	Uttlesford LA 2.539
South Oxfordshire	Vale of White	East Hertfordshire	West Berkshire UA	South	Horsham LA
LA	Horse LA	LA		Cambridgeshire LA	
	1.734 Chorley LA	2.168 Warrington UA	2.188 North Warwickshire	2.217 Vale Royal LA	2.476 Flintshire UA
South Ribble LA		2.711		2.816	
	2.139	2./11	2.72	2.010	2.853

South Shropshire	West Devon LA	Ryedale LA 2.697	Powys UA 2.785	Eden LA	Torridge LA 3.847
LA	2.502	2.697	2.785 Shrewsbury and	3.662 East Riding of	
South Somerset	Sedgemoor LA	Taunton Deane LA	Atcham LA	Yorkshire UA	Mendip LA
LA	2.112	2.447	2.517	2.555	2.609
Cdl	Lichfield LA		Hinckley and	Stafford LA	
South Staffordshire LA	Lichfield LA	Bromsgrove LA	Bosworth LA	Stafford LA	Selby LA
Statiorusilire LA	1.776	2.509	3.116	3.341	3.401
South Tyneside LA	Sunderland LA	Hartlepool UA	Gateshead LA	North Ayrshire	Middlesborough
South Tyneside LA	3.419	3.906	3.976	4.309	4.594
Southampton UA	Exeter LA	Bristol, City of UA	Portsmouth UA	Cardiff UA	Leeds LA
Southampton on	4.569	4.69	5.101	5.371	5.921
Southend-on-Sea	Hastings LA	Shepway LA	Worthing LA	Thanet LA	Weymouth and
UA	3.839	4.126	4.645	4.792	Portland LA 4.889
	Lambeth LB	4.120 Lewisham LB	Hackney LB	4.792 Haringey LB	Islington LB
Southwark LB	5.819	5.835	5.918	7.167	7.24
	Reigate and	North Hertfordshire			
Spelthorne LA	Banstead LA	LA	Chelmsford LA	Epping Forest LA	Maidstone LA
•	2.806	3.242	3.243	3.345	3.404
	Woking LA	Windsor and	Elmbridge LA	South Oxfordshire	Reigateand
St. Albans LA	_	Maidenhead UA	c .	LA	Banstead LA
a	2.333	2.573	3.03	3.48	3.742
St. Edmundsbury	West Wiltshire LA	Braintree LA	Kettering LA	Rugby LA	Melton LA
LA	1.817	2.474	2.484	2.576	2.603 Redcar and
St. Helens LA	Halton UA	Doncaster LA	Wigan LA	Rotherham LA	Cleveland UA
St. Helens LA	2.771	3.115	3.228	3.255	3.305
	Hinckley and				
Stafford LA	Bosworth LA	Lichfield LA	Stroud LA	Broxtowe LA	Congleton LA
	2.549	2.567	2.61	2.64	2.669
Staffordshire	Forest of Dean LA	North Warwickshire	Wyre Forest LA	Hinckley and	Amber Valley LA
Moorlands LA		LA	-	Bosworth LA	-
	3.004	3.025	3.103	3.164	3.288
Stevenage LA	Harlow LA	Crawley LA	Basildon LA	Dartford LA	Northampton LA
_	2.461 Colchester LA	3.52 Canterbury LA	3.707 Perth & Kinross	3.865 York UA	3.947 Chester LA
Stirling	3.766	4.329	4.356	4.387	4.395
	Trafford LA	Rugby LA	Bury LA	Broxtowe LA	Gedling LA
Stockport LA	2.104	2.938	2.978	3.035	3.035
Stockton -on - Tees	Newport UA	Blyth Valley LA	Doncaster LA	Rotherham LA	Copeland LA
UA	3.151	3.172	3.275	3.428	3.492
			XXX 1 C 11X A	Mansfield LA	
Stoke-on-Trent IIA	Sunderland LA	Barnsley LA	Wakefield LA		Gateshead LA
Stoke-on-Trent UA	Sunderland LA 3.714	3.849	3.966	3.972	4.023
	Sunderland LA 3.714 Newry and Mourne	3.849 Limavady	3.966 Omagh	3.972 Cookstown	4.023 Dungannon
Strabane	Sunderland LA 3.714 Newry and Mourne 4.34	3.849 Limavady 5.041	3.966 Omagh 5.254	3.972 Cookstown 5.42	4.023 Dungannon 5.69
Strabane Stratford-upon-	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA	3.849 Limavady 5.041 Macclesfield LA	3.966 Omagh 5.254 Tewkesbury LA	3.972 Cookstown 5.42 Cotswold LA	4.023 Dungannon 5.69 Congleton LA
Strabane	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336	3.849 Limavady 5.041 Macclesfield LA 2.707	3.966 Omagh 5.254 Tewkesbury LA 2.803	3.972 Cookstown 5.42 Cotswold LA 2.856	4.023 Dungannon 5.69 Congleton LA 2.933
Strabane Stratford-upon- Avon LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA	3.849 Limavady 5.041 Macclesfield LA	3.966 Omagh 5.254 Tewkesbury LA	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and	4.023 Dungannon 5.69 Congleton LA
Strabane Stratford-upon-	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336	3.849 Limavady 5.041 Macclesfield LA 2.707	3.966 Omagh 5.254 Tewkesbury LA 2.803	3.972 Cookstown 5.42 Cotswold LA 2.856	4.023 Dungannon 5.69 Congleton LA 2.933
Strabane Stratford-upon- Avon LA Stroud LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA
Strabane Stratford-upon- Avon LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803
Strabane Stratford-upon- Avon LA Stroud LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA 3.015	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB 4.064	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB 4.298
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA Sutton LB	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393 East Staffordshire	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267 Crewe and	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA 3.015	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB 4.064	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267 Crewe and Nantwich LA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB 4.298
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA Sutton LB	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA 3.015 Gravesham LA 2.851	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393 East Staffordshire LA	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB 4.064 Medway UA	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267 Crewe and Nantwich LA 3.171	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB 4.298 Wellingborough LA 3.222
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA Sutton LB	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA 3.015 Gravesham LA 2.851 Bridgend UA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393 East Staffordshire LA 2.93 Newcastle-under- Lyme LA	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB 4.064 Medway UA 3.068 Neath Port Talbot UA	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267 Crewe and Nantwich LA 3.171 Newport UA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB 4.298 Wellingborough LA 3.222 Wirral LA
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA Sutton LB Swale LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA 3.015 Gravesham LA 2.851 Bridgend UA 3.55	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393 East Staffordshire LA 2.93 Newcastle-under- Lyme LA 4.133	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB 4.064 Medway UA 3.068 Neath Port Talbot UA 4.235	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267 Crewe and Nantwich LA 3.171 Newport UA 4.237	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB 4.298 Wellingborough LA 3.222 Wirral LA 4.293
Strabane Stratford-upon- Avon LA Stroud LA Suffolk Coastal LA Sunderland LA Surrey Heath LA Sutton LB Swale LA	Sunderland LA 3.714 Newry and Mourne 4.34 Wychavon LA 2.336 Babergh LA 1.754 Purbeck LA 2.367 Gateshead LA 2.865 Hart LA 1.626 Watford LA 3.015 Gravesham LA 2.851 Bridgend UA	3.849 Limavady 5.041 Macclesfield LA 2.707 Tewkesbury LA 1.985 New Forest LA 2.387 Hartlepool UA 3.186 Wokingham UA 2.58 Bromley LB 3.393 East Staffordshire LA 2.93 Newcastle-under- Lyme LA	3.966 Omagh 5.254 Tewkesbury LA 2.803 Monmouthshire UA 2.463 Babergh LA 2.609 Redcar and Cleveland UA 3.338 South Oxfordshire 3.219 Bexley LB 4.064 Medway UA 3.068 Neath Port Talbot UA	3.972 Cookstown 5.42 Cotswold LA 2.856 Shrewsbury and Atcham LA 2.521 Derbyshire Dales 2.781 South Tyneside LA 3.419 West Berkshire UA 3.228 Trafford LA 4.267 Crewe and Nantwich LA 3.171 Newport UA	4.023 Dungannon 5.69 Congleton LA 2.933 Melton LA 2.535 South Norfolk LA 2.803 Wansbeck LA 3.439 Chiltern LA 3.456 Hillingdon LB 4.298 Wellingborough LA 3.222 Wirral LA

	Bolton LA	Rochdale LA	Wigan LA	Rossendale LA	Oldham LA
Tameside LA	2.617	3.171	3.256	3.324	3.402
E 0.1 4	Redditch LA	Telford and Wrekin	Cannock Chase LA	Nuneaton and	Thurrock UA
Tamworth LA	2.746	UA 2.937	3.288	Bedworth LA 3.815	3.952
	Mid Sussex LA	Horsham LA	Uttlesford LA	Reigate and	East Hampshire LA
Tandridge LA				Banstead LA	_
	2.069 Shrewsbury and	2.083	2.297	2.381	2.401
Taunton Deane LA	Atcham LA	South Somerset LA	Mendip LA	Sedgemoor LA	Oswestry LA
	2.068	2.447	2.833	2.962	3.037
Teesdale LA	Alnwick LA	Tynedale LA	Powys UA	North Devon LA	King's Lynn and West Norfolk LA
Teesuale LA	3.325	3.83	3.926	4.053	4.142
Toignhuidgo I A	Sedgemoor LA	Carrick LA	Purbeck LA	Caradon LA	South Somerset LA
Teignbridge LA	2.884	3.085	3.091	3.103	3.167
Telford and Wrekin UA	Tamworth LA 2.937	Wellingborough LA 3.268	Carrickfergus 3.451	Thurrock UA 3.475	Redditch LA 3.522
	Arun LA	Rother LA	Christchurch LA	Conwy UA	North Norfolk LA
Tendring LA	3.52	3.702	3.878	4.163	4.207
Test Valley LA	North Wiltshire LA	West Oxfordshire	Mid Bedfordshire	East Hampshire LA	Eastleigh LA
Tewkesbury LA	1.527 Stroud LA	1.649 Wychavon LA	2.089 Babergh LA	2.14 Congleton LA	2.192 West Wiltshire LA
I UWACODUI Y LA	1.985	2.314	2.371	2.484	2.608
Thanet LA	Shepway LA	Torbay UA 3.618	Conwy UA	Great Yarmouth LA	Hastings LA
	3.564 Reigate and		3.709	3.869 Epsom and Ewell	3.881 North Hertfordshire
Three Rivers LA	Banstead LA	Tandridge LA	Hertsmere LA	LA	LA
	2.63	2.671	2.7	2.833	2.928
Thurrock UA	Dartford LA 2.588	Basildon LA 3.082	Medway UA 3.097	Telford and Wrekin 3.475	Gravesham LA 3.522
Tonbridge and	South Bedfordshire	Maidstone LA	Braintree LA	Test Valley LA	Eastleigh LA
Malling LA	2.342	2.371	2.42	2.435	2.551
Torbay UA	Isle of Wight UA	Conwy UA	Thanet LA	Scarborough LA	Shepway LA
	3.254	3.529	3.618	3.698 Rhondda, Cynon,	3.848
Torfaen UA	Caerphilly UA	Bridgend UA	Sedgefield LA	Taff UA	Derwentside LA
	2.214	2.7	3.024	3.202	3.365
Torridge LA	North Cornwall LA 3.161	North Devon LA 3.371	Powys UA 3.697	Restormel LA 3.783	Kerrier LA 3.821
T H 14 J D	Newham LB	Hackney LB	Brent LB	Islington LB	Southwark LB
Tower Hamlets LB	10.661	10.852	12.358	13.013	13.083
Trafford LA					
I I ALIULULA	Stockport LA	Bury LA	Bromley LB	Chester LA	Bexley LB
	2.104	3.494	3.554	3.606	Bexley LB 3.718
Tunbridge Wells		3.494 Reigate and Banstead LA	3.554 North Hertfordshire LA		Bexley LB
	2.104	3.494 Reigate and Banstead LA 3.031	3.554 North Hertfordshire LA 3.094	3.606 Salisbury LA 3.098	Bexley LB 3.718
Tunbridge Wells LA	2.104 Harrogate LA	3.494 Reigate and Banstead LA 3.031 East Riding of	3.554 North Hertfordshire LA 3.094 Derbyshire Dales	3.606 Salisbury LA 3.098 Herefordshire,	Bexley LB 3.718 Mid Sussex LA
Tunbridge Wells	2.104 Harrogate LA 2.646	3.494 Reigate and Banstead LA 3.031	3.554 North Hertfordshire LA 3.094	3.606 Salisbury LA 3.098	Bexley LB 3.718 Mid Sussex LA 3.145
Tunbridge Wells LA Tynedale LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA
Tunbridge Wells LA Tynedale LA Uttlesford LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA
Tunbridge Wells LA Tynedale LA Uttlesford LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA Vale of White Horse LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA 1.734	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA 1.858	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281 West Berkshire UA 2.065 Crewe and	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA 2.263 South Derbyshire	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA 2.313
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA Vale of White	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA 1.734 Warrington UA	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA 1.858 Chorley LA	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281 West Berkshire UA 2.065 Crewe and Nantwich LA	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA 2.263 South Derbyshire LA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA 2.313 South Ribble LA
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA Vale of White Horse LA Vale Royal LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA 1.734 Warrington UA 2.28	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA 1.858 Chorley LA 2.39	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281 West Berkshire UA 2.065 Crewe and Nantwich LA 2.684	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA 2.263 South Derbyshire LA 2.684	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA 2.313 South Ribble LA 2.816
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA Vale of White Horse LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA 1.734 Warrington UA	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA 1.858 Chorley LA	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281 West Berkshire UA 2.065 Crewe and Nantwich LA	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA 2.263 South Derbyshire LA 2.684 Wigan LA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA 2.313 South Ribble LA 2.816 Mansfield LA
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA Vale of White Horse LA Vale Royal LA Wakefield LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA 1.734 Warrington UA 2.28 Rotherham LA 2.045 Rochdale LA	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA 1.858 Chorley LA 2.39 Doncaster LA 2.122 Wolverhampton LA	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281 West Berkshire UA 2.065 Crewe and Nantwich LA 2.684 Ashfield LA 2.43 Bolton LA	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA 2.263 South Derbyshire LA 2.684 Wigan LA 2.447 Sandwell LA	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA 2.313 South Ribble LA 2.816 Mansfield LA 2.501 Oldham LA
Tunbridge Wells LA Tynedale LA Uttlesford LA Vale of Glamorgan, The UA Vale of White Horse LA Vale Royal LA	2.104 Harrogate LA 2.646 Monmouthshire UA 2.869 East Hampshire LA 1.336 West Lancashire LA 2.913 South Oxfordshire LA 1.734 Warrington UA 2.28 Rotherham LA 2.045	3.494 Reigate and Banstead LA 3.031 East Riding of Yorkshire UA 2.918 Horsham LA 2.051 Ellesmere Port and Neston LA 3.17 South Cambridgeshire LA 1.858 Chorley LA 2.39 Doncaster LA 2.122	3.554 North Hertfordshire LA 3.094 Derbyshire Dales LA 2.957 Tandridge LA 2.297 Bury LA 3.281 West Berkshire UA 2.065 Crewe and Nantwich LA 2.684 Ashfield LA 2.43	3.606 Salisbury LA 3.098 Herefordshire, County of UA 3.128 Mid Sussex LA 2.333 Warrington UA 3.444 East Hampshire LA 2.263 South Derbyshire LA 2.684 Wigan LA 2.447	Bexley LB 3.718 Mid Sussex LA 3.145 Hambleton LA 3.146 Harborough LA 2.491 High Peak LA 3.516 Test Valley LA 2.313 South Ribble LA 2.816 Mansfield LA 2.501

	Hammersmith and	Lambeth LB	Merton LB	Camden LB	Westminster LB
Wandsworth LB	Fulham LB				
	5.214	8.755	9.072	9.231	9.365
Wansbeck LA	Derwentside LA 2.353	Wear Valley LA 2.571	Sedgefield LA 2.648	Barnsley LA 3.311	Sunderland LA 3.439
T TT 1 / T T/	Chorley LA	Vale Royal LA	South Ribble LA	Rugby LA	Solihull LA
Warrington UA	2.052	2.28	2.711	2.735	2.961
Warwick LA	Guildford LA	Chester LA	Bath and North East Somerset UA	Runnymede LA	North Hertfordshire LA
Warwick LA	3.185	3.298	3.451	3.493	3.629
Watford LA	Sutton LB	Hillingdon LB	Rushmoor LA	Bedford LA	Crawley LA
Walloru LA	3.015	3.994	4.227	4.544	4.556
Waveney LA	Great Yarmouth LA 2.836	Kerrier LA 3.354	Dover LA 3.441	Conwy UA 3.652	Shepway LA 3.675
	Mole Valley LA	Tandridge LA	Mid Sussex LA	Winchester LA	Chiltern LA
Waverley LA	1.842	2.568	2.834	2.875	2.945
Wealden LA	New Forest LA 2.443	Malvern Hills LA 2.813	Suffolk Coastal LA 3.143	Babergh LA 3.217	South Norfolk LA 3.229
Woon Volley I A	Derwentside LA	Wansbeck LA	Sedgefield LA	Barnsley LA	Redcar and Cleveland UA
Wear Valley LA	2.279	2.571	2.735	3.504	3.739
Wellingborough	Kettering LA	Nuneaton and	Erewash LA	Peterborough UA	Gravesham LA
LA	-	Bedworth LA		e	
	2.753 North Hertfordshire	3.02	3.102	3.106	3.178 Bath and North East
Welwyn Hatfield LA	LA	Colchester LA	Warwick LA	Dacorum LA	Somerset UA
LA	3.929	3.947	3.976	4.047	4.074
West Berk shire	East Hertfordshire LA	Vale of White Horse LA	South Oxfordshire LA	Basingstoke and Deane LA	Mid Bedfordshire LA
UA	2.047	2.065	2.188	2.27	2.307
	South Shropshire	Mid Devon LA	Ryedale LA	Herefordshire,	Caradon LA
West Devon LA	LA 2.502	2.699	2.816	County of UA 2.842	2.849
	East Devon LA	Purbeck LA	South Lakeland LA	Chichester LA	Z.849 Teignbridge LA
West Dorset LA	2.257	2.963	3.093	3.234	3.585
West	T 1 1.	North Lanarkshire	North Ayrshire	Renfrewshire	East Ayrshire
Dunbartonshire	Inverclyde 3.154	3.731	4.444	4.868	4.975
West Lancashire	Vale of Glamorgan,	Ellesmere Port and	Flintshire UA	Newark and	Chorley LA
LA	The UA	Neston LA		Sherwood LA	
	2.913 East Riding of	2.948	2.964 North Shropshire	3.182 Newark and	3.241
West Lindsey LA	Yorkshire UA	Forest of Dean LA	LA	Sherwood LA	Sedgemoor LA
	2.273	2.385	2.815	2.822	2.984
West Lothian	Midlothian	Telford and Wrekin	Thurrock UA	Harlow LA	Wellingborough LA
	3.556	3.809	3.887	3.929 Vale of White	4.114
West Oxfordshire LA	Test Valley LA	North Wiltshire LA	East Hampshire LA	Horse LA	Kennet LA
1.11	1.649	2.12	2.44	2.449	2.455
West Somerset LA	East Devon LA 3.679	North Norfolk LA 3.695	Rother LA 4.333	West Dorset LA 4.359	Tendring LA 4.9
XX7	St. Edmundsbury	Ashford LA	4.555 South Kesteven LA	Braintree LA	Kettering LA
West Wiltshire LA	1.817	2.049	2.197	2.254	2.311
Westerington I D	Camden LB	Kensington and Chelsea LB	Hammersmith and Fulham LB	Wandsworth LB	Islington LB
Westminster LB	6.205	6.219	7.56	9.365	9.548
Weymouth and	Dover LA	Shepway LA	Carlisle LA	Taunton Deane LA	Sedgemoor LA
Portland LA	2.614	2.684	3.299	3.414	3.587
Wigan LA	Wakefield LA	Nuneaton and Bedworth LA	Blyth Valley LA	Chester-le-Street LA	Rotherham LA
	2.447	2.71	2.889	2.939	2.989
Winchester LA	Waverley LA 2.875	Guildford LA 3.235	Horsham LA 3.516	Harrogate LA 3.585	Rushcliffe LA 3.661
Windsor and	Woking LA	St. Albans LA	Elmbridge LA	South Oxfordshire	Wycombe LA
Maidenhead UA	2.368	2.573	3.181	3.329	3.386
Wirral LA	Sefton LA	Darlington UA	St. Helens LA	North Tyneside LA	Swansea UA
	1.865	3.631	3.658	3.961	4.293

A New Classification of UK Local Authorities Using 2001 Census Key Statistics

Woking LA	St. Albans LA	Windsor and Maidenhead UA	Wycombe LA	Reigate and Banstead LA	South Oxfordshire LA
	2.333	2.368	2.792	2.883	3.143
Walingham IIA	Hart LA	Surrey Heath LA	West Berkshire UA	South Oxfordshire	East Hertfordshire
Wokingham UA	2.188	2.58	4.098	4.361	4.372
Wolverhampton	Sandwell LA	Walsall LA	Derby UA	Rochdale LA	Stoke-on-Trent UA
LA	2.574	3.426	4.225	4.957	5.186
Worcester LA	Northampton LA	Gloucester LA	Colchester LA	Kettering LA	Swindon UA
worcester LA	3.291	3.3	3.359	3.43	3.552
Wonthing I A	Eastbourne LA	Arun LA	Adur LA	Lewes LA	Fylde LA
Worthing LA	3.919	4.201	4.211	4.328	4.505
Wrexham UA	Newcastle-under- Lyme LA	Wakefield LA	Ellesmere Port and Neston LA	Flintshire UA	Wigan LA
	2.653	3.092	3.224	3.229	3.319
Wychavon LA	Tewkesbury LA	Mid Suffolk LA	Stratford-upon- Avon LA	Babergh LA	Congleton LA
2	2.314	2.335	2.336	2.362	2.457
Wycombe LA	Woking LA	Three Rivers LA	West Berkshire UA	Windsor and Maidenhead UA	Aylesbury Vale LA
•	2.792	3.284	3.33	3.386	3.412
	Amber Valley LA	North Warwickshire	North West	Newark and	Hinckley and
Wyre Forest LA	Amber valley LA	LA	Leicestershire LA	Sherwood LA	Bosworth LA
	2.091	2.344	2.407	2.586	2.636
Wvre LA	Denbighshire UA	Teignbridge LA	Sedgemoor LA	Adur LA	Conwy UA
wyfe LA	3.326	3.525	3.559	3.58	3.589
York UA	Bath and North East Somerset UA	Cheltenham LA	Canterbury LA	Colchester LA	Chester LA
	2.966	3.473	3.747	3.964	4.115