





for health and social care

National Child Measurement Programme: England, 2008/09 school year

December 2009



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Version: 1.0

Date of Publication: 10 December 2009

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Summary

- This report summarises the key findings from the Government's National Child Measurement Programme (NCMP) for England, 2008/09 school year. The report provides high-level analysis of the prevalence of 'underweight', 'healthy weight', 'overweight' and 'obese'¹ children, in Reception (aged 4–5 years) and Year 6 (aged 10–11 years), measured in state schools in England in the school year 2008/09. The report contains comparisons with 2007/08 and where appropriate comparisons have also been made with 2006/07 results.
- This report presents the headline findings for the 2008/09 NCMP. The National Obesity Observatory (NOO) will produce additional analysis in 2010 (expected publication date 30 April 2010), and the anonymised national dataset will be made available to Public Health Observatories (PHOs) to allow regional and local analysis of the data. In addition, NOO will also be presenting NCMP data in an e-Atlas – an interactive mapping tool that enables the user to compare a range of indicators and examine correlations and allows regional and national comparisons. The e-Atlas tool is expected to be available shortly after publication of the NCMP data and will be available on the following link: http://www.noo.org.uk/maps/eatlas
- Information for 2008/09 is presented in Table B of Annex 1 by the new Local Authority areas (introduced in April 2009). Information is presented by the pre-2009 LA boundaries also.
- To counter the effect of natural year to year variation, confidence intervals are included around the figures in the tables and charts in this report where possible and should be considered when interpreting results. A confidence interval gives an indication of the likely error around the estimate calculated. As the sample sizes for NCMP are large (80% in 2006/07, 88% in 2007/08, and 90% in 2008/09) the 95% confidence intervals (see Annex 3) for prevalence estimates are very narrow (indicating a small margin of potential error).
- When examining prevalence rates it is also important to consider how the participation rate might affect the calculated prevalence figures. Analyses performed in 2007/08 concluded that a lower participation rate may lead to an underestimation of prevalence for obese children for Year 6, but had little or no effect on prevalence for Reception children. It is estimated that Year 6 obesity prevalence is underestimated by around 1.3 percentage points for 2006/07, around 0.8 percentage points for 2007/08, and around 0.7 percentage points for 2008/09 due to obese children being more likely to opt of out being measured than other children. Year 6 obesity confidence intervals have been extended to address this potential underestimation.

• 'underweight' is defined as less than or equal to the 2nd centile;

• 'obese' is defined as greater or equal to the 95th centile;

¹ Prevalence rates calculated using the age and sex-specific UK National Body Mass Index (BMI) centiles classification. Classification uses UK growth data from 1990 when a large representative sample of 37,700 children was constructed by combining data from 17 separate surveys. These data were then used to express BMI as a centile based on the BMI distribution, adjusted for skewness (using Cole's LMS method - *Growth monitoring with the British 1990 growth reference*. Cole *Arch Dis Child*.1997; 76: 47-49), age and sex.

^{• &#}x27;overweight' is defined as greater than or equal to the 85th centile but less than the 95th centile;

Note 'overweight' means 'overweight but not obese'.

When interpreting the prevalence figures contained in this report, it is important to consider the confidence intervals to determine the degree of accuracy within figures to determine whether any change in prevalence is real or might be affected by the participation rate. Where 95% confidence limits for two subgroups do not overlap, the difference can be said to be statistically significant.

Key Findings

- In total, 1,003,849 valid measurements were received for children, in England, in Reception and Year 6 – approximately 90% of those eligible². This represents an increased participation rate from 2007/08, when the corresponding rate was 88%, and 2006/07 when the rate was 80%.
- The prevalence of underweight, overweight and obese children by year and sex in England for 2008/09 is summarised in Table i.

Table i: Prevalence of underweight, healthy weight, overweight and obese children by year and sex, England, 2008/09

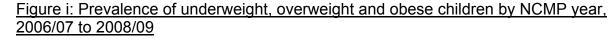
		per centr (number measured											
						Overweight and							
_		Underweight	Healthy Weight	Overweight	Obese	obese combined	Number measured						
	Boys	1.2% (3,160)	74.8% (193,624)	13.8% (35,679)	10.2% (26,545)	24.0% (62,224)	259,008						
Reception	Girls	0.8% (1,945)	77.7% (192,121)	12.6% (31,065)	8.9% (22,030)	21.5% (53,095)	247,161						
	Both	1.0% (5,105)	76.2% (385,745)	13.2% (66,744)	9.6% (48,575)	22.8% (115,319)	506,169						
	Boys	1.1% (2,709)	64.5% (165,297)	14.4% (36,962)	20.0% (51,370)	34.5% (88,332)	256,338						
Year 6	Girls	1.6% (3,758)	67.7% (163,508)	14.2% (34,235)	16.5% (39,841)	30.7% (74,076)	241,342						
	Both	1.3% (6,467)	66.1% (328,805)	14.3% (71,197)	18.3% (91,211)	32.6% (162,408)	497,680						

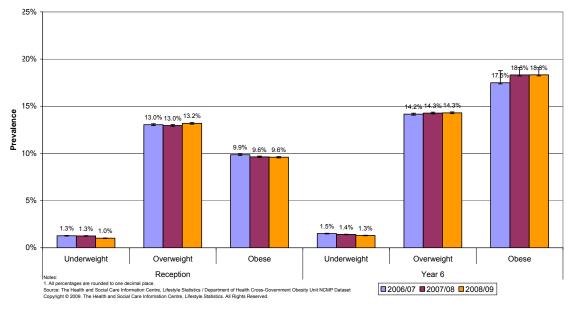
Source: The Health and Social Care Information Centre, Lifestyle Statistics / Department of Health Cross-Government Obesity Unit NCMP Dataset Copyright © 2009. The Health and Social Care Information Centre, Lifestyle Statistics. All Rights Reserved.

- In summary, the key findings for 2008/09 are that:
 - In Reception, more than one in five (22.8%) of the children measured were either overweight or obese. In Year 6, this rate was nearly one in three (32.6%);
 - The percentage of obese children in Year 6 (18.3%) is nearly double than that in Reception (9.6%);
 - The percentage of overweight children is higher in Year 6 (14.3%) than in Reception (13.2%);
 - The overall prevalence of underweight children is similar for both age groups (approx 1%). There were no significant differences in underweight prevalence between boys and girls in either age group.

² See The National Child Measurement Programme *Guidance for PCTs: 2008–09 school year* (<u>www.dh.gov.uk/healthyliving</u>) for further information on which children were eligible for inclusion

 The prevalence of underweight, overweight and obese children by NCMP year for 2006/07 to 2008/09 are shown in Figure i.





- The main findings when results from 2007/08 to 2008/09 are compared are:
 - In Reception, the proportions of underweight (1.0%), overweight (13.2%) and obese children (9.6%) in 2008/09 were similar to those in 2007/08 where the corresponding proportions were (1.3%, 13.0%, and 9.6%). None of the changes were significant;
 - In Year 6, the proportions of overweight (14.3%) and obese (18.3%) children were the same in 2007/08 and 2008/09. The percentage of underweight children was similar in 2008/09 (1.3%) and 2007/08 (1.4%);
 - Between 2007/08 and 2008/09 there were no significant changes in the prevalence rates for underweight, overweight, or obese children for both age groups. There were also no significant changes when comparing 2006/07 and 2008/09; all or some of the apparent difference of 0.8 percentage points in the proportion of obese children between 2006/07 and 2008/09 is estimated to be due to the higher participation rate for Year 6 in the later year's programme (as indicated by the expanded confidence interval).
- Obesity prevalence is significantly higher than the national average in the London, North East, and West Midlands SHAs for both age groups and in the North West SHA for Year 6 children.
- Obesity prevalence is significantly lower than the national average in the East of England, South East Coast, South Central, and South West SHAs for children in both age groups, and in the East Midlands SHA for Reception children.

- The 2008/09 SHA obesity patterns are similar to those for 2007/08.
- Obesity prevalence is significantly higher in urban areas than in rural areas, as was the case in NCMP 2007/08.
- As in the 2007/08 NCMP, a strong positive relationship exists between deprivation and obesity prevalence for children in Reception and Year 6.

1. Introduction

- 1.1. This publication was previously formally announced in the UK Statistics Authority (UKSA) publication hub release calendar and the NHS Information Centre release calendar as the 'National Child Measurement Programme – Statistics on child obesity 2008-09'. In response to comments received from the UKSA during the assessment of the publication for National Statistic status, the publication has been renamed to its current name 'National Child Measurement Programme: England, 2008/09 school year'. Following this assessment, this publication from this year is classified as a National Statistic.
- 1.2. Established in 2005, the National Child Measurement Programme (NCMP) for England³ weighs and measures children in Reception (typically aged 4–5 years) and Year 6 (aged 10–11 years). The findings are used to inform local planning and delivery of services for children and gather population-level surveillance data to allow analysis of trends in weight. The programme also engages with parents about the importance of healthy weight in children, since their children's results are shared with them.
- 1.3. The NCMP is part of the Government's Healthy Weight, Healthy Lives: a Cross-Government Strategy for England, published in January 2008⁴ following the announcement in September 2007, of an ambition: to reverse the rising tide of obesity and overweight in the population, by ensuring that all individuals are able to maintain a healthy weight. The Government's initial focus is on children, and by 2020 they aim: to have reduced the proportion of overweight and obese children to 2000 levels.
- 1.4. The Government's strategy is implemented by the Cross-Government Obesity Unit (CGOU), with the Department of Health (DH) responsible for overall policy on obesity and jointly responsible with the Department for Children, Schools and Families (DCSF) for policy on child obesity. Although the ambition covers a period of 12 years, progress from 2008-11 is being monitored through the inclusion of child obesity as one of the indicators in the child health Public Service Agreement (PSA).
- 1.5. Central collation and analysis of the NCMP data has been coordinated by the NHS Information Centre for health and social care (the NHS IC) since 2006/07. Data are supplied locally by Primary Care Trusts (PCTs) with the support and cooperation of schools, in line with guidance³ from the Cross-Government Obesity Unit.
- 1.6. This report presents the headline findings for the 2008/09 NCMP. The National Obesity Observatory (NOO) will produce additional analysis in 2010 (expected publication date 30 April 2010), and the anonymised national dataset will be made available to NOO and Public Health Observatories

³ See <u>www.dh.gov.uk/healthyliving</u> for more information about the National Child Measurement Programme, including guidance and resources for undertaking the exercise

⁴ <u>http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsStatistics/DH_063565</u>

(PHOs) to allow regional and local analysis of the data. In addition NOO will also be presenting NCMP data in an e-Atlas – an interactive mapping tool that enables the user to compare a range of indicators and examine correlations and allows regional and national comparisons. The e-Atlas tool is expected to be available shortly after publication of this report and will be available on the following link:

http://www.noo.org.uk/maps/eatlas

- 1.7. The NHS Information Centre for health and social care may also present further analysis of the data, including mean height and mean weight, and analysis by gender via a range of web based products to a restricted audience. This analysis will be available on request from early 2010.
- 1.8. The NCMP programme includes all state schools in England (unless the school declined to participate). Independent and special schools (those categorised as 'Community Special', 'Foundation Special', 'Independent School Approved for SEN Pupils', 'Non-Maintained Special', 'Other Independent', 'Other Independent Special School' or 'Pupil Referral Unit') are not formally required to participate although their participation is encouraged. Independent and special schools are excluded from the analysis in this report, but are included in the datasets provided to NOO and to PHOs for further analysis.
- The NHS Information Centre are always looking for ways to improve our publications. Feedback can be provided via <u>www.ic.nhs.uk/ncmp</u>.

2. Methodology

Data collection and validation

- 2.1. Measurement of children's heights and weights, without shoes and coats and in normal, light, indoor clothing, was overseen by healthcare professionals and undertaken in school by trained staff. PCT staff entered these data into specially designed spreadsheets: the NCMP Upload Tool. Measurements could be taken at any time during the 2008/09 academic year. Consequently, some children were almost two years older than others in the same school year at the point of measurement; however, Body Mass Index (BMI) centile results are adjusted for age.
- 2.2. The data that PCTs uploaded to the NCMP database underwent a series of data quality checks before being included in the national dataset. Full details of these checks can be found in: National Child Measurement Programme: NHS Information Centre validation process for NCMP data (see Annex 7). This document was provided as guidance for PCTs. The validation process is summarised below.
- 2.3. Checks were done at each stage of the data submission:
 - i. As the PCT entered data: the Upload Tool checked that each variable met certain required conditions. For example, the height and weight were checked for extreme values;
 - Before the PCT uploaded data to the NCMP database: the tool provided a data quality report to highlight if there were any possible areas of concern for the PCT to check and correct. For example, the percentage of duplicate records was calculated;
 - iii. After the PCT uploaded data: PCTs were given access to a secure website providing data quality information about their uploaded data. For example, PCTs were provided with a list of schools, within their boundary, for which no data had been returned. PCTs were able to review this information and correct their data or, if they were satisfied with data quality, they could confirm this and 'finalise' their data;
 - iv. After the PCT had 'finalised' their data: the NHS IC carried out further validation through, for example, comparing data across PCTs and over time. The NHS IC contacted a number of PCTs to query unexpected findings and, where necessary, requested that data be corrected.
- 2.4. PCTs' participation rates were assessed (see Annex 5). As discussed above, low participation rates may bias prevalence if the 'missing' data are atypical (Section 3).

Definitions of underweight, healthy weight, overweight and obese

- 2.5. Prevalence rates were calculated by deriving every child's Body Mass Index (BMI)⁵ and referencing the age and sex-specific UK National BMI centiles classification to count the number of children defined as underweight, healthy weight, overweight or obese.
- 2.6. The following thresholds for defining underweight, healthy weight, overweight and obese children were then used:
 - **Underweight** is defined as a BMI less or equal to the 2nd centile;
 - **Healthy weight** is defined as a BMI greater than the 2nd centile but less than the 85th centile;
 - **Overweight** is defined as a BMI greater than or equal to the 85th centile but less than the 95th centile (i.e. overweight *but not* obese);
 - **Obese** is defined as a BMI greater than or equal to the 95th centile.

These thresholds are those conventionally used for population monitoring and are not the same as those used in a clinical setting (where overweight is defined as a BMI greater than or equal to the 91st but below the 98th centile and obese is defined as a BMI greater than or equal to the 98th centile).

Participation

- 2.7. Pupils eligible for inclusion in the NCMP were all children in Reception and Year 6 attending non-specialist maintained state schools in England⁶.
- 2.8. Numbers of pupils at each school were provided by DCSF, but PCTs could edit these figures if necessary. The PCT could also add or remove schools from their geographically assigned list if, despite being within their PCT boundary, another PCT had undertaken measurement in that school. PCT changes to DCSF pupil numbers and schools were validated by the NHS IC to ensure accuracy.
- 2.9. The participation rate is the proportion of eligible pupils who were measured (see Annex 5). Participation rates are estimates and should be treated with caution, particularly at smaller geographical levels, because of the difficulty in calculation of the number of pupils eligible for measurement. For example, in Reception, pupils might join the school throughout the year.
- 2.10.Records were assigned to a PCT, and thereby Strategic Health Authority (SHA), based on the PCT that returned the data. Geographical analyses, showing results by Local Authority (LA), are based on the location of the child's school rather than their home address, as home postcode was not provided for all child records.

⁵ Body-mass index (BMI) is an indicator of body fat based on height and weight. BMI=weight(kg)/height(m)²

⁶ The following institutions were excluded from the prevalence and participation rate calculations: 'Community Special', 'Foundation Special', 'Independent School Approved for SEN Pupils', 'Non-Maintained Special', 'Other Independent', 'Other Independent Special School' and 'Pupil Referral Unit'. PCTs were encouraged, but not obliged, to include independent schools and special schools in their NCMP measurements. Numbers of independent school pupils were not, however, included in participation rates used for performance management purposes.

2.11.Collection of a child's home postcode became a formal requirement from the 2007/08 NCMP and 98% of uploaded records in 2008/09 included a valid child postcode. This is an increase from 2007/08 data when 97% included a valid child postcode. These data were mapped to lower super output area (LSOA) to anonymise the data on upload and will be a valuable asset for local-level analyses by PHOs and PCTs.

3. Results

Participation

- 3.1. Participation rate is the percentage of eligible pupils who were measured. For NCMP 2008/09, PCTs were set a participation rate goal, for each age group, of 85%. Nationally, the participation rates for 2008/09 across all PCTs were:
 - 91% for Reception (506,169 children measured): a two percentage point increase from 2007/08;
 - 89% for Year 6 (497,680 children): a three percentage point increase from 2007/08;
 - 90% for Reception and Year 6 combined (1,003,849 children): a two percentage point increase from 2007/08.
- 3.2. All 152 PCTs provided data for NCMP 2008/09. Participation rates varied by PCT:
 - 93% of PCTs (142 PCTs) exceeded the 85% goal for Reception;
 - 89% of PCTs (135 PCTs) exceeded the 85% goal for Year 6;
 - Only four PCTs did not achieve a participation rate of at least 80% for Reception, and the lowest was 76%. This is an improvement on 2007/08, when the Reception year participation rate was lower than 80% in 13 PCTs and the lowest was 74%;
 - The picture is similar for Year 6, where only 7 PCTs did not achieve a participation rate of at least 80%, and the lowest was 74%. This is an improvement on 2007/08, when the Year 6 participation rate was lower than 80% in 15 PCTs and the lowest was 63%;
 - Annex 2 shows overall participation rates for all 152 PCTs.
- 3.3. Of the pupils measured, boys accounted for 51% in Reception and 52% in Year 6. It is not possible to calculate the participation rates by gender since the numbers of eligible pupils are not collected by gender.
- 3.4. Figure 1 shows the participation rates by PCT for Reception; Figure 2 shows the rates for Year 6:

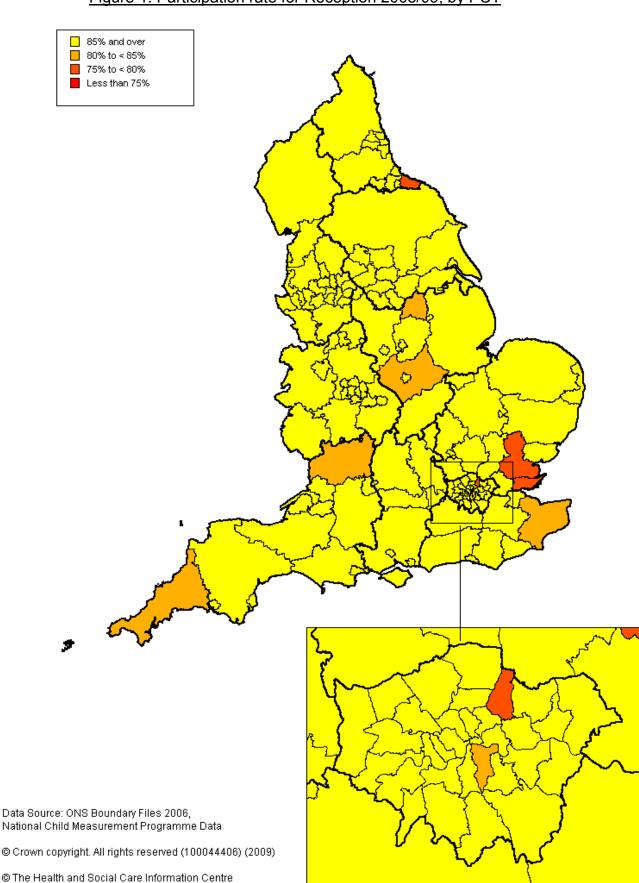
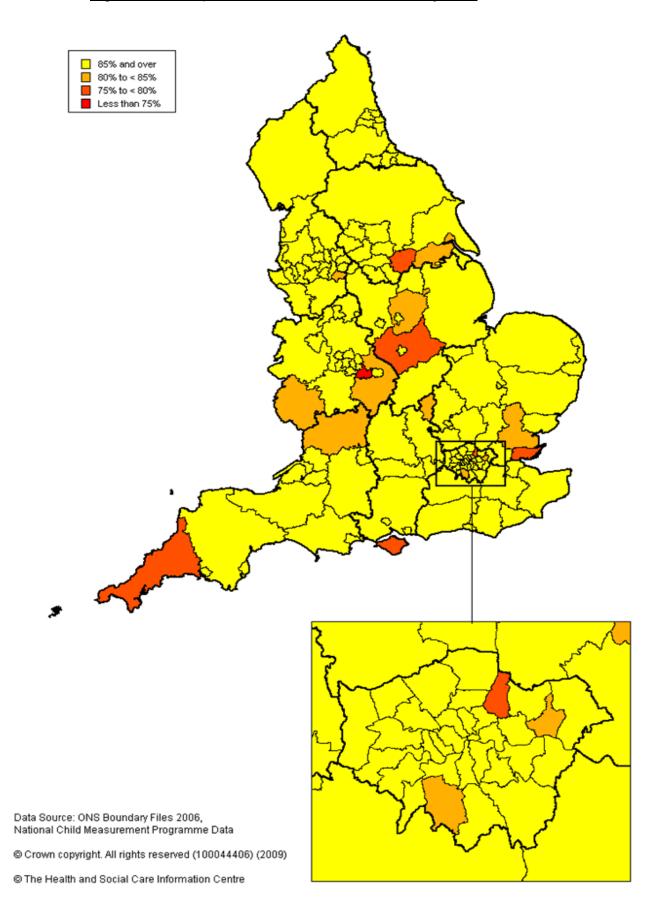


Figure 1: Participation rate for Reception 2008/09, by PCT

Figure 2: Participation rate for Year 6 2008/09, by PCT



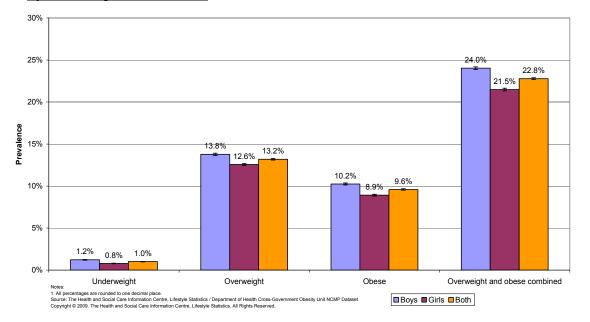
The effect of participation rates on prevalence

- 3.5. For NCMP 2006/07, 80% of eligible pupils in Reception and Year 6 combined were measured. This figure increased to 88% in 2007/08 and to 90% in 2008/09.
- 3.6. In all three years, a proportion of eligible pupils were not measured. This section investigates whether results could have been biased through not including measurements from these 'missing' pupils, and looks at the possible effect of participation rate on the recorded prevalence of overweight and obese children.
- 3.7. Regression analysis of the 2007/08 data showed that, for Year 6, PCTs with lower participation rate also had lower levels obesity prevalence than those with a higher rate. It also showed PCTs whose participation rate increased the most from 2006/07 tended to have greater increases in recorded prevalence. This relationship suggests that obese children were more likely to opt out of being measured than were other children and that a lower participation rate tends to lead to an underestimation of prevalence of obese children for Year 6. However, participation rate was shown to have little or no effect on prevalence for Reception children. Findings from similar analysis performed in 2008/09 were consistent with these.
- 3.8. These analyses suggest that Year 6 obesity prevalence estimates are underestimated by around 1.3 percentage points in 2006/07, around 0.8 percentage points in 2007/08, and around 0.7 percentage points in 2008/09.
- 3.9. The possible effect of other factors, such as deprivation, on participation and prevalence has not been examined.
- 3.10.Annex 6 contains further information on the effect of participation rate on prevalence.

Prevalence of underweight, healthy weight, overweight and obese children: national findings

- 3.11.Prevalence rates have been calculated by first deriving every child's BMI and referencing the age and sex-specific UK National BMI centiles classification to count the number of children defined as underweight, healthy weight, overweight or obese according to the population monitoring criteria¹.
- 3.12. Since the NCMP sample size is large, the confidence intervals (Annex 3) of the prevalence estimates are very narrow. Where 95% confidence intervals for prevalence estimates do not overlap, it can be deduced that differences are statistically significant.
- 3.13.Tables A-B in Annex 1 show underweight, overweight, and obese prevalence, with associated 95% confidence intervals, by school year, at PCT, SHA and LA level.
- 3.14.Figures 3 and 4 show the prevalence of underweight, overweight and obese children, with associated 95% confidence intervals, by sex, in England, 2008/09.

Figure 3: Prevalence of underweight, overweight and obese children in Reception, by sex, England, 2008/09



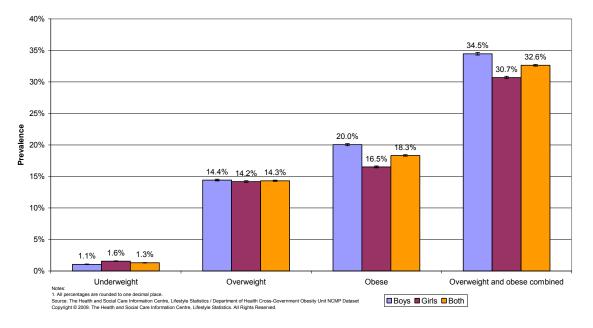


Figure 4: Prevalence of underweight, overweight and obese children in Year 6, by sex, England, 2008/09

3.15. Figure 5 shows the 2008/09 prevalence breakdowns including healthy weight.

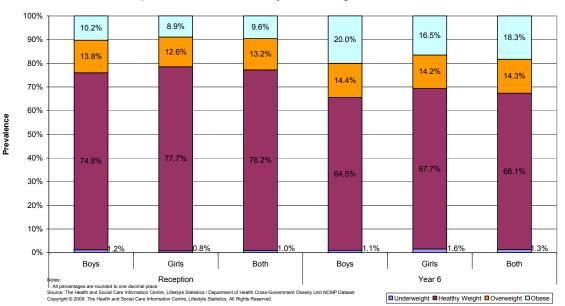


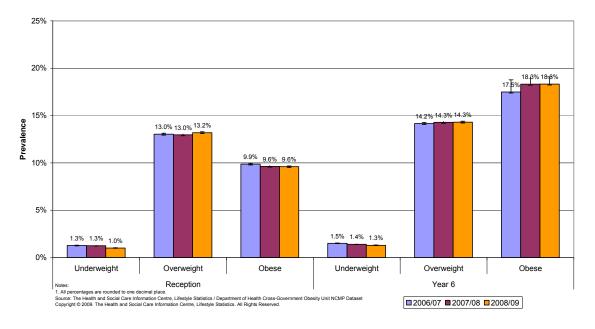
Figure 5: Prevalence of underweight, healthy weight, overweight and obese children in Reception and Year 6, by sex, England, 2008/09

- 3.16.Key findings for 2008/09:
 - In Reception more than one in five (22.8%) children were classified as either overweight or obese: in Year 6 this rate was nearly one in three (32.6%);
 - The prevalence of obesity is significantly higher in boys than in girls in both age groups;
 - The prevalence of obesity is significantly higher in Year 6 (18.3%) than in Reception (9.6%);
 - The overall prevalence of underweight children is similar for both age groups (approx 1%). There were no significant differences in underweight prevalence between boys and girls in either age group;
 - The percentage of children who are overweight is higher in Year 6 (14.3%) than in Reception (13.2%);
 - The percentage of children who are overweight is similar for boys (14.4%) and girls (14.2%) in Year 6: in Reception, this rate is higher for boys (13.8%) than for girls (12.6%);
 - In Reception the prevalence of overweight children (13.2%) is greater than the prevalence of obese children (9.6%). In Year 6, the opposite is true with prevalence of overweight children (14.3%) being lower than that for obese children (18.3%).

Comparisons of 2007/08 and 2008/09 Headline Findings

- 3.17.2008/09 is the third year for which reliable data (with an overall response rate of 80% or higher) have been collected, therefore assessment of year-on-year changes in child obesity prevalence is possible.
- 3.18.Before making year-on-year comparisons, it is important to note the effect of participation rates on the Year 6 obesity prevalence estimates discussed in 3.5 3.10 (note: none of the other prevalence estimates are shown to be affected by participation rates). Analysis performed in 2007/08 contained detailed statistical analysis that estimated that for each 10 percentage point increase in the Year 6 participation rate, the true Year 6 obesity prevalence estimates will increase by 0.6 percentage points on average.
- 3.19.Figure 6 shows the prevalence of underweight, overweight, and obese children from 2006/07 to 2008/09.

Figure 6: Prevalence of underweight, overweight and obese children by NCMP year, 2006/07 to 2008/09



3.20.Figure 7 compares the 2006/07 to 2008/09 prevalence breakdowns for each BMI category.

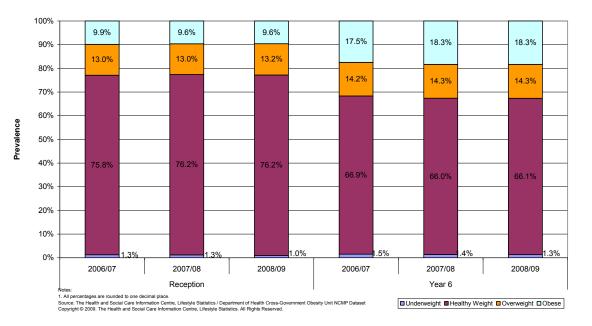


Figure 7: Prevalence of underweight, healthy weight, overweight and obese children by NCMP year, 2006/07 to 2008/09

3.21. The key findings are as follows:

- In Reception, the proportions of underweight (1.0%), overweight (13.2%) and obese children (9.6%) in 2008/09 were similar to those in 2007/08 where the corresponding proportions were 1.3%, 13.0%, and 9.6%. None of the changes were significant;
- In Year 6, the proportions of overweight (14.3%) and obese (18.3%) children were the same in 2007/08 and 2008/09. The percentage of underweight children were similar in 2008/09 (1.3%) and 2007/08 (1.4%);
- Between 2007/08 and 2008/09 there were no significant changes in the prevalence rates for underweight, overweight, or obese children for both age groups. There were also no significant changes when comparing 2006/07 and 2008/09; all or some of the apparent difference of 0.8 percentage points in the proportion of obese children between 2006/07 and 2008/09 is estimated to be due to the higher participation rate for Year 6 in the later year's programme (as indicated by the expanded confidence interval).

Prevalence by Strategic Health Authority (SHA)

- 3.22. Prevalence of underweight, overweight and obese children, with associated 95% confidence intervals, by the SHA of the PCT which measured the child in 2008/09 are shown in Figure 8 for Reception and Figure 9 for Year 6. The bars are ordered by obesity prevalence. Detailed tables are in Annex 1 showing underweight, overweight, and obese prevalence, with associated 95% confidence intervals, by school year, at PCT, SHA and LA level.
- 3.23.NCMP data for 2008/09 in Table B of Annex 1 is presented by the new Local Authority areas (introduced in April 2009). The data is also presented by the pre-2009 LA areas as these are still recognised geographical areas. Information presented in an e-Atlas (hosted by NOO and available on <u>http://www.noo.org.uk/maps/eatlas</u>) also contains NCMP data for 2006/07 and 2007/08 recalculated to the 2009 LA areas to allow comparison over time.
- 3.24. The Office for National Statistics (ONS) is also expected to present prevalence information calculated from NCMP data via Neighbourhood Statistics. This might be provided at a smaller geographical area than those included in this report. This is expected to be published by the end of March 2010 and should be available on the following link: http://www.neighbourhood.statistics.gov.uk

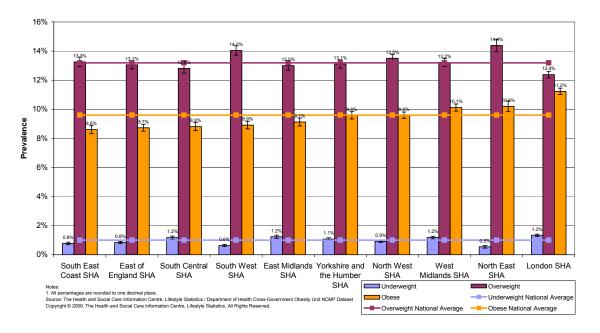


Figure 8: Prevalence of underweight, overweight and obese children in Reception, by SHA, England, 2008/09

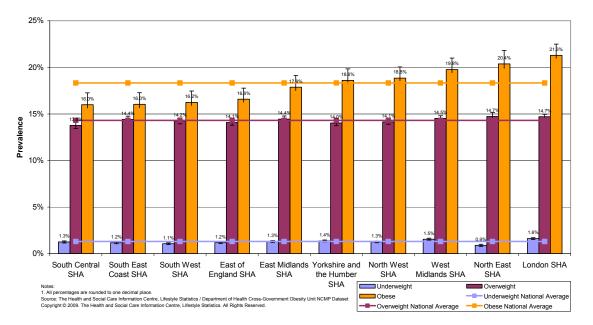


Figure 9: Prevalence of underweight, overweight and obese children in Year 6, by SHA, England, 2008/09

3.25.Figure 10 compares the prevalence of children who are overweight or obese ('overweight and obese combined'), with associated 95% confidence intervals, in Reception and Year 6, by SHA, in 2008/09. The bars have been ranked by prevalence in Year 6.

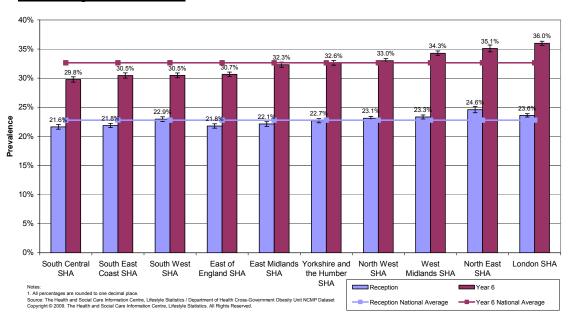


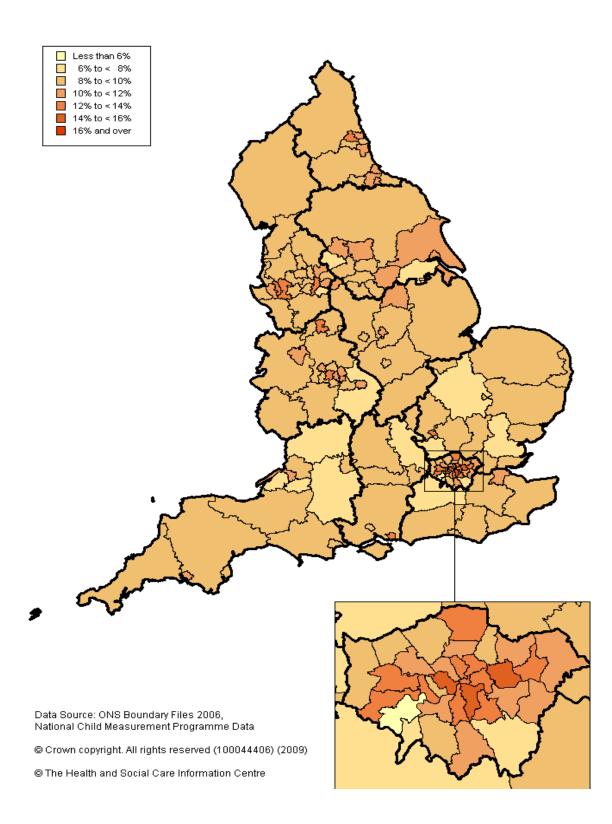
Figure 10: Prevalence of 'overweight and obese combined' children, by year and SHA, England, 2008/09

- 3.26.Key findings:
 - Obesity prevalence is significantly higher than the national average in the London, North East, and West Midlands SHAs for both age groups and in the North West SHA for Year 6 children;
 - Obesity prevalence is significantly lower than the national average in the East of England, South East Coast, South Central, and South West SHAs for children in both age groups, and in the East Midlands SHA for Reception children;
 - The 2008/09 SHA obesity prevalence patterns are similar to those observed in 2007/08;
 - Areas with high obesity prevalence in one year group tend to also have high obesity prevalence in the other year group. The order of SHAs, ranked by obesity prevalence, is similar for both school years, with the top three SHAs occupying the same rank order for children in both years;
 - Analysis of 2006/07 and 2007/08 NCMP data showed that child obesity prevalence is correlated with area deprivation factors and child ethnicity. Areas with higher concentrations of deprived areas and particular ethnic profiles, such as London, would therefore be expected to have higher rates of child obesity;
 - The National Obesity Observatory will be producing a separate publication based on NCMP data and this report will contain further analysis on the links between obesity and other factors. This is expected to be published on 30 April 2010 and will be available from the following link: <u>http://www.noo.org.uk/NOO_pub</u>

Prevalence by PCT

3.27.Figures 11 and 12 show Reception and Year 6 obesity prevalence by PCT. PCT prevalence estimates have been calculated on the basis of the PCT that measured the children. Annex 1 provides more detailed tables.

Figure 11: Prevalence of obese children in Reception, by PCT, England 2008/09

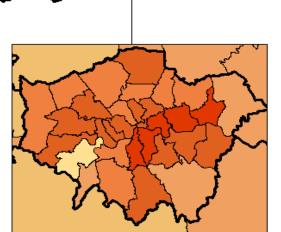


Less than 9% 9% to < 12%
12% to < 15% 15% to < 18%
18% to < 21%
21% to < 24%
24% and over

Data Source: ONS Boundary Files 2006, National Child Measurement Programme Data

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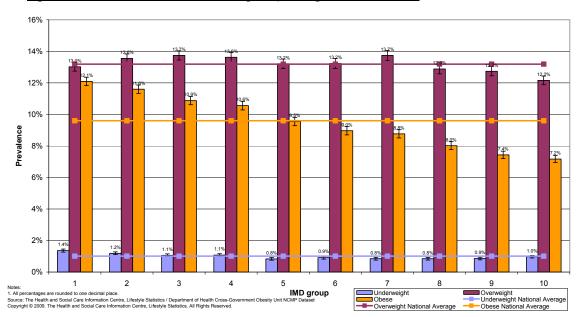
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Prevalence by area deprivation

3.28.Figures 13 and 14 investigate the relationship between deprivation as measured by the 2007 Index of Multiple Deprivation (IMD) and the prevalence of underweight, overweight and obese Reception and Year 6 children. Records have been placed into one of ten equal sized groups based on the IMD score of the child's school location. The prevalence of underweight, overweight and obese children within each group (where 1 is the most deprived) has then been calculated:

Figure 13: Prevalence of underweight, overweight and obese children in Reception against school area 2007 IMD group, England, 2008/09



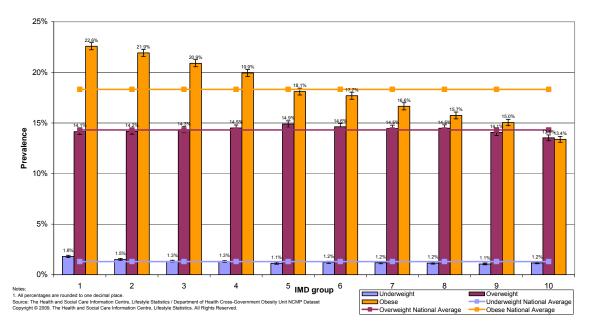


Figure 14: Prevalence of underweight, overweight and obese children in Year 6 against school area 2007 IMD group, England, 2008/09

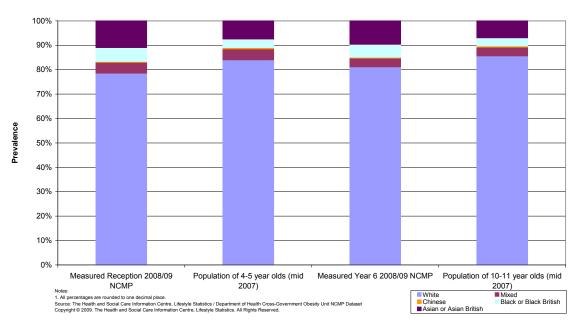
3.29.Key findings:

- A link exists between deprivation (as measured by the 2007 IMD score) and obesity prevalence in children in both years;
- For both school years, the four most deprived groups have obesity prevalence that is significantly higher than the national average;
- For both school years, the five least deprived groups have obesity prevalence that is significantly lower than the national average;
- The two most deprived groups have a prevalence of underweight children that is very slightly higher than the national average for both school years;
- Overweight prevalence shows no obvious link to deprivation, although the least derived groups have a significantly lower prevalence figure than the national average for both school years.

Prevalence by ethnicity

- 3.30.In the 2008/09 NCMP, collection of the ethnicity of participating children was a formal requirement. PCTs were able to supply ethnic codes using either the NHS or DCSF classification. These codes were grouped into seven categories for national analysis⁷.
- 3.31.Of the 1,003,849 children for whom valid measurements were submitted, 77% of records included valid ethnic codes (for the purpose of this report, 'not stated' is considered invalid). This is an improvement on 2007/08 when only 67% of records had valid ethnic codes.
- 3.32.In order to assess the quality of the 2008/09 ethnicity data, Figure 15 compares the ethnicity breakdowns for the children in the NCMP dataset with the mid-2007 national ethnicity profiles for the population of 4-5 and 10-11 year-olds for the 5 main specified ethnic groups⁸:

Figure 15: Comparison of 2008/09 NCMP ethnicity profiles and national population breakdowns for 4-5 and 10-11 year-olds



3.33.Whilst the population figures and NCMP figures relate to different time periods (mid-2007 and 2008/09 academic year respectively), and they relate

- **Any other ethnic group**: Any other ethnic group;
- Unknown: Not Stated or data not returned by PCT

⁸ Excludes 'not provided', 'not stated' and 'any other ethnic group'. Source: ONS mid-year population estimates

 ⁷ The seven ethnic categories used for analysis have been derived by combining the following NHS ethnic categories:
 • White: White British, White Irish, White Any other White background;

Mixed: White Britsh, White Ary other White Background,
 Mixed: Mixed White and Black Caribbean, Mixed White and Black African, Mixed White and Asian, Mixed Any other mixed background;

Asian or Asian British: Asian and Asian British Indian, Asian and Asian British Pakistani, Asian and Asian British Bangladeshi, Asian and Asian British Any other Asian background;

[•] Black or Black British: Black or Black British Caribbean, Black or Black British African, Black or Black British Any other Black background;

o Chinese: Chinese;

to different population groups (all children aged 4-5 and 10-11 compared to children in Reception and Year 6) they do at least give an indicative comparison of the national and NCMP participant ethnicity profiles.

- 3.34. 'Asian or Asian British' and 'Black or Black British' groups accounted for higher proportions in the NCMP measured population than the population as a whole, whilst the 'White' ethnicity group accounts for a lower proportion in the NCMP data when compared to the whole population. It is important to note that nearly a quarter of NCMP measurements had missing or 'not stated' ethnic codes. It is possible that these records included a disproportionate number of measurements for children from particular ethnic groups. It must also be considered that the population figures are based on estimates.
- 3.35.Figures 16 and 17 show, for Reception and Year 6 respectively, the prevalence of underweight, overweight and obese children, with associated 95% confidence intervals, by ethnic category, in England, 2008/09. The bars have been ranked by obesity prevalence.

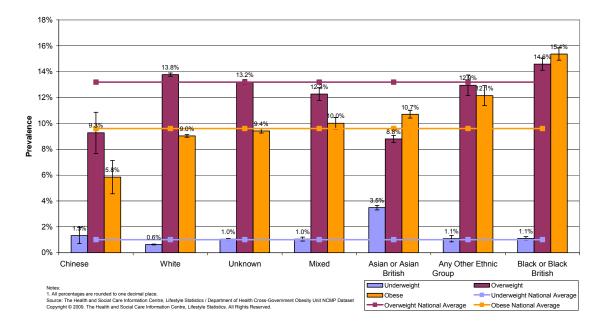


Figure 16: Prevalence of underweight, overweight and obese children in Reception, by ethnic category, England, 2008/09

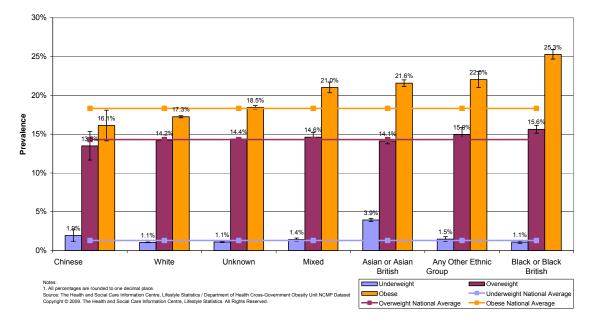


Figure 17: Prevalence of underweight, overweight and obese children in Year 6, by ethnic category, England, 2008/09

3.36.Key findings:

- Obesity prevalence is significantly higher than the national average for children in both years in the ethnic groups: 'Asian or Asian British', 'Any Other Ethnic Group' and 'Black or Black British'.
- Obesity prevalence is significantly lower than the national average for children in both years in the ethnic groups: 'Chinese' and 'White';
- The prevalence of overweight Year 6 children is not significantly different to the national average for any ethnic group except 'Black or Black British'. The prevalence of overweight Reception children varies considerably more by ethnic group.
- 3.37. There are known associations between ethnicity and area deprivation⁹. However, deprived urban areas in England tend to also have a higher proportion of individuals from non-White ethnic groups, so it is likely that there exist confounding factors which affect the obesity prevalence by ethnicity.

⁹ http://www.noo.org.uk/uploads/doc168 2 NOO NCMP report230608.pdf

Prevalence by rural/urban classification

- 3.38.Collection of the home postcode of participating children was a formal requirement for the 2008/09 NCMP. Of the 1,003,849 children for whom valid measurements were uploaded to the NCMP Database, 98% of records included a home postcode.
- 3.39.To anonymise the data, postcodes were aggregated to the larger areas of LSOA when PCTs uploaded their data to the NCMP database. This meant that the NHS IC did not hold home postcode of any child.
- 3.40.Each record was assigned a rural/urban classification¹⁰ according to the settlement form of the LSOA of the child.
- 3.41.Figures 18 and 19 show, for Reception and Year 6 respectively, the prevalence of underweight, overweight and obese children, by rural/urban classification, in England, 2008/09.

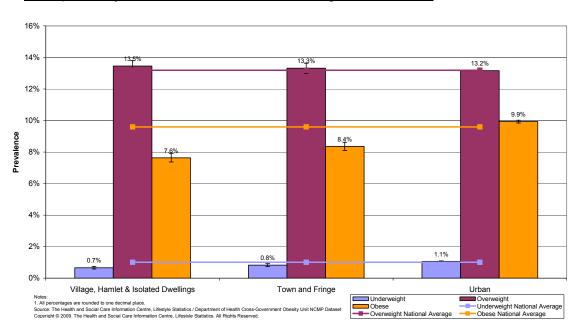


Figure 18: Prevalence of underweight, overweight and obese children in Reception, by rural/urban classification, England, 2008/09

¹⁰ The Office for National Statistics (ONS) produced the Rural and Urban Classification in consultation with the Department for Environment, Food and Rural Affairs, the Department for Communities and Local Government and the Countryside Agency. Areas are defined through two measures:

[•] settlement form: dispersed dwellings, hamlet, village, small town, urban fringe and urban (>10,000 population);

sparsity - each hectare grid square is assigned a sparsity score based on the number of households in surrounding hectare squares up to a distance of 30 km.

The analyses in this report have combined 'sparse' with 'less sparse' and classifications are purely based on settlement form. Further details are available at: <u>http://www.statistics.gov.uk/geography/nrudp.asp</u>

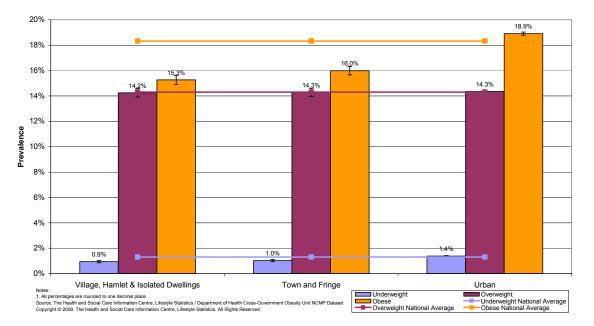


Figure 19: Prevalence of underweight, overweight and obese children in Year 6, by rural/urban classification, England, 2008/09

3.42.Key findings for 2008/09:

- Obesity prevalence is significantly higher in urban areas than in non-urban areas for both age groups;
- The prevalence of underweight children is similar in urban areas and nonurban areas for both age groups;
- Overweight prevalence is similar between urban areas and non-urban areas for both age groups.
- 3.43. The National Obesity Observatory's 2006/07¹¹ and 2007/08¹² reports showed that confounding factors exist, and that variation in child obesity prevalence between urban and rural areas can possibly be explained by differences in the degree of deprivation and the ethnic mix in such areas.

¹¹ http://www.noo.org.uk/uploads/doc168_2_NOO_NCMP_report230608.pdf

² http://www.noo.org.uk/uploads/doc168_2_noo_NCMPreport1_110509.pdf

Comparison of results from the Health Survey for England

- 3.44.It is useful to compare the NCMP findings with the child obesity data from the Health Survey for England (HSE)¹³. The HSE is a series of sample-based surveys focusing on a range of health indicators including obesity in children.
- 3.45. The findings of the 2006/07 NCMP were compared to the 2006 HSE. It was shown that, apart from obese boys in Reception, the prevalence rates in the two studies are not statistically significantly different. The obesity prevalence estimate for boys in Reception was shown to be significantly higher in the HSE and warrants further investigation.
- 3.46.At the time of publication of this report, the results of the 2008 HSE had not been published and so comparison with the 2008/09 NCMP has not been possible.
- 3.47.A comparison between the data in the 2007/08 NCMP and the HSE 2007 and between the 2008/09 NCMP data and the HSE 2008, will be made in the Health Survey for England, 2008, due to be published in December 2009.

¹³ Source: Health Survey for England 2006, Joint Surveys Unit. <u>http://www.ic.nhs.uk/statistics-and-data-collections/health-and-lifestyles-</u> related-surveys/health-survey-for-england

Annex 1: Detailed tables

Tables A and B show the prevalence of underweight, overweight and obese children, by school year, at PCT, SHA and LA level respectively.

Table A: Prevalence of underweight, overweight and obese children, with associated 95% confidence intervals, by PCT and SHA, England, 2008/09

		Underweight				Over	voicht		Obese					
		Underweight Reception Year 6		6	Overweight Reception Year 6			Recep	otion	Obese	Year 6			
			95%		95%		95%		95%		95%		Lower 95%	Upper 95%
SHA/PCT Name	SHA/PCT Code	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence		confidence interval (+)
England	ENG	1.0%	0.0%	1.3%	0.0%	13.2%	0.1%	14.3%	0.1%	9.6%	0.1%	18.3%	0.1%	0.8%
North East SHA	Q30	0.5%	0.1%	0.9%	0.1%	14.4%	0.4%	14.7%	0.4%	10.2%	0.4%	20.4%	0.5%	0.9%
County Durham PCT	5ND	0.5%	0.2%	0.9%	0.3%	14.4%	1.0%	14.9%	1.0%	9.4%	0.8%	20.3%	1.1%	1.3%
Darlington PCT	5J9	0.4%	0.4%	0.9%	0.6%	15.1%	2.1%	12.8%	2.0%	8.9%	1.7%	19.9%	2.4%	2.7%
Gateshead PCT Hartlepool PCT	5KF 5D9	0.3%	0.2%	0.9%	0.4%	13.2% 17.4%	1.5% 2.3%	14.3% 16.7%	1.5% 2.3%	8.8% 10.8%	1.3% 1.9%	22.8% 22.8%	1.8% 2.6%	2.0%
Middlesbrough PCT	5KM	0.5%	0.3%	1.3%	0.6%	13.2%	1.7%	15.0%	1.8%	11.5%	1.6%	21.9%	2.0%	2.7%
Newcastle PCT	5D7	0.6%	0.3%	1.2%	0.4%	15.2%	1.4%	14.6%	1.4%	12.3%	1.3%	21.9%	1.7%	2.0%
North Tyneside PCT	5D8	0.5%	0.3%	0.7%	0.4%	14.1%	1.5%	15.3%	1.5%	10.3%	1.3%	20.0%	1.7%	2.0%
Northumberland Care Trust	TAC	0.5%	0.2%	0.9%	0.3%	15.0%	1.3%	14.4%	1.2% 1.9%	9.8%	1.1%	16.9%	1.3% 2.1%	2.0%
Redcar & Cleveland PCT South Tyneside PCT	5QR 5KG	2.1% 0.3%	0.8%	0.9%	0.5%	15.4% 13.1%	2.1%	14.8% 14.7%	1.9%	9.9% 9.1%	1.7% 1.5%	19.7% 21.0%	2.1%	2.9%
North Tees PCT	5E1	0.6%	0.3%	0.8%	0.4%	14.0%	1.5%	15.5%	1.6%	10.5%	1.3%	20.3%	1.8%	2.2%
Sunderland Teaching PCT	5KL	0.5%	0.3%	0.6%	0.3%	13.8%	1.3%	14.1%	1.3%	11.0%	1.2%	20.2%	1.5%	1.9%
North West SHA	Q31	0.9%	0.1%	1.3% 1.0%	0.1% 0.3%	13.5% 16.2%	0.3% 1.3%	14.1% 14.2%	0.3%	9.6% 9.2%	0.2% 1.0%	18.8% 18.4%	0.3% 1.4%	0.9% 2.0%
Ashton, Leigh & Wigan PCT Blackburn with Darwen PCT	5HG 5CC	2.0%	0.2%	3.3%	0.3%	10.2%	1.5%	14.2%	1.2%	9.2%	1.0%	16.4%	1.4%	2.0%
Blackpool PCT	5HP	1.2%	0.0%	0.9%	0.5%	12.8%	1.5%	11.4%	1.6%	9.7%	1.5%	19.6%	2.0%	2.0%
Bolton PCT	5HQ	1.1%	0.4%	2.0%	0.5%	13.0%	1.2%	14.0%	1.2%	9.1%	1.0%	17.5%	1.3%	1.6%
Bury PCT	5JX	1.2%	0.5%	2.1%	0.6%	10.5%	1.4%	13.1%	1.5%	8.7%	1.2%	18.5%	1.7%	2.0%
Central & Eastern Cheshire PCT	5NP	0.3%	0.2%	1.2%	0.3%	14.8%	1.1%	13.8%	1.0%	8.6%	0.8%	17.9%	1.1%	1.8%
Central Lancashire PCT	5NG	0.8%	0.3%	1.3%	0.3%	12.2%	0.9%	14.1%	1.0%	8.5%	0.8%	17.2% 19.7%	1.1%	1.7%
Cumbria PCT East Lancashire PCT	5NE 5NH	0.4%	0.2%	0.5%	0.2%	14.4% 14.0%	1.1%	15.6% 14.8%	1.1%	9.2% 9.2%	0.9%	19.7%	1.2% 1.1%	2.0%
Halton & St. Helens PCT	5NM	0.6%	0.3%	1.2%	0.3%	16.9%	1.0%	14.6%	1.1%	12.4%	1.2%	21.9%	1.1%	2.0%
Heywood, Middleton & Rochdale PCT	5NQ	0.7%	0.3%	1.9%	0.6%	14.2%	1.4%	15.2%	1.4%	10.3%	1.2%	17.3%	1.5%	2.1%
Knowsley PCT	5J4	0.3%	0.3%	0.9%	0.4%	14.8%	1.8%	15.4%	1.8%	12.0%	1.6%	23.2%	2.1%	2.7%
Liverpool PCT	5NL	1.9%	0.4%	1.3%	0.3%	11.4%	1.0%	14.5%	1.1%	10.4%	0.9%	22.6%	1.3%	1.8%
Manchester PCT	5NT	0.7%	0.2%	1.4%	0.4%	13.2%	1.0%	14.6%	1.1%	12.4%	0.9%	22.6%	1.2%	1.9% 2.1%
North Lancashire PCT Oldham PCT	5NF 5J5	0.2%	0.2%	2.1%	0.4%	14.7% 13.7%	1.4%	12.9% 14.0%	1.3%	9.5% 9.0%	1.1%	16.1% 19.2%	1.4% 1.5%	2.1%
Salford PCT	5F5	1.0%	0.4%	1.2%	0.5%	11.5%	1.3%	14.6%	1.5%	9.0%	1.2%	18.0%	1.6%	2.0%
Sefton PCT	5NJ	0.4%	0.2%	1.1%	0.4%	14.4%	1.3%	14.0%	1.3%	9.7%	1.1%	17.8%	1.4%	1.8%
Stockport PCT	5F7	2.4%	0.6%	1.2%	0.4%	8.9%	1.1%	13.4%	1.3%	6.1%	0.9%	16.1%	1.4%	2.4%
Tameside & Glossop PCT	5LH	0.5%	0.3%	0.8%	0.3%	15.5%	1.3%	14.8%	1.3%	11.3%	1.2%	18.6%	1.4%	1.9%
Trafford PCT	5NR	1.9%	0.5%	1.3%	0.5%	13.4%	1.3%	13.4%	1.4%	9.1%	1.1%	18.0%	1.6%	2.0%
Warrington PCT Western Cheshire PCT	5J2 5NN	0.6%	0.3%	0.7%	0.4%	13.4% 13.6%	1.4% 1.5%	12.7% 14.3%	1.4%	8.4% 9.7%	1.1%	17.1% 16.7%	1.6% 1.5%	2.0%
Wiral PCT	5NK	0.4%	0.4%	0.9%	0.3%	14.0%	1.2%	14.1%	1.4%	9.6%	1.0%	20.6%	1.4%	2.1%
	•									•				
Yorkshire & Humber SHA	Q32	1.1%	0.1%	1.4%	0.1%	13.1%	0.3%	14.0%	0.3%	9.6%	0.3%	18.6%	0.3%	1.0%
Barnsley PCT	5JE 5NY	0.6%	0.3%	0.9%	0.4%	13.3% 11.7%	1.4%	15.0% 13.6%	1.4%	9.5% 10.0%	1.2%	19.6% 19.9%	1.6% 1.1%	2.2%
Bradford & Airedale PCT Calderdale PCT	5J6	2.7%	0.3%	1.7%	0.4%	10.4%	1.3%	12.7%	1.4%	8.0%	1.1%	16.6%	1.6%	2.3%
Doncaster PCT	5N5	0.6%	0.3%	0.9%	0.3%	15.4%	1.3%	15.1%	1.4%	10.3%	1.1%	19.4%	1.4%	2.6%
East Riding of Yorkshire PCT	5NW	0.3%	0.2%	0.9%	0.3%	15.3%	1.3%	14.6%	1.2%	10.2%	1.1%	16.7%	1.3%	2.0%
Hull PCT	5NX	0.5%	0.3%	0.8%	0.4%	15.2%	1.4%	14.0%	1.4%	10.3%	1.2%	21.5%	1.6%	2.8%
Kirklees PCT	5N2	1.4%	0.3%	2.0%	0.4%	11.7%	0.9%	14.0%	1.0%	9.3%	0.8%	16.4%	1.1%	1.6%
Leeds PCT North East Lincolnshire Care Trust Plus	5N1 TAN	0.8%	0.2%	1.2%	0.3%	13.2% 16.2%	0.8%	14.2% 14.8%	0.8%	10.3% 11.9%	0.7%	20.9% 18.7%	0.9%	1.3%
North Lincolnshire PCT	5EF	2.3%	0.3%	2.1%	0.5%	11.6%	1.5%	13.2%	1.7%	7.6%	1.0%	18.5%	2.0%	3.0%
North Yorkshire & York PCT	5NV	1.0%	0.2%	1.2%	0.3%	12.5%	0.8%	13.9%	0.8%	8.2%	0.7%	16.3%	0.9%	1.4%
Rotherham PCT	5H8	0.7%	0.3%	1.1%	0.4%	14.4%	1.3%	14.3%	1.3%	10.0%	1.1%	19.0%	1.5%	2.0%
Sheffield PCT	5N4	0.9%	0.3%	1.4%	0.3%	13.3%	0.9%	13.8%	1.0%	9.4%	0.8%	18.7%	1.1%	1.8%
Wakefield District PCT	5N3	1.0%	0.3%	1.0%	0.3%	12.3%	1.1%	13.4%	1.2%	9.5%	1.0%	18.0%	1.3%	2.0%
East Midlands SHA	Q33	1.2%	0.1%	1.3%	0.1%	13.0%	0.3%	14.4%	0.3%	9.1%	0.3%	17.9%	0.4%	1.1%
Bassetlaw PCT	5ET	0.2%	0.3%	0.6%	0.5%	14.5%	2.2%	13.3%	2.0%	10.5%	1.9%	19.2%	2.3%	3.1%
Derby City PCT	5N7	0.7%	0.3%	1.9%	0.5%	12.2%	1.3%	14.8%	1.4%	9.5%	1.1%	17.2%	1.5%	2.1%
Derbyshire County PCT	5N6	0.5%	0.2%	0.8%	0.2%	14.1%	0.9%	14.5%	0.8%	8.6%	0.7%	17.8%	0.9%	1.3%
Leicester City PCT	5PC	2.2%	0.5%	3.3%	0.6%	11.2%	1.1%	14.5%	1.2%	10.0%	1.0%	17.8%	1.3%	2.1%
Leicestershire County & Rutland PCT Lincolnshire PCT	5PA 5N9	0.8%	0.2%	1.0% 1.1%	0.3%	14.0% 13.4%	0.9%	14.0% 15.0%	0.9%	8.8% 9.9%	0.7%	15.9% 18.5%	0.9%	2.2%
Northampton PCT	5PD	2.3%	0.3%	1.1%	0.3%	11.2%	0.8%	14.6%	0.8%	9.9%	0.7%	17.8%	0.9%	1.6%
Nottingham City PCT	5EM	1.2%	0.4%	1.4%	0.5%	14.6%	1.4%	13.6%	1.3%	10.0%	1.1%	22.6%	1.6%	2.2%
Nottinghamshire County PCT ¹	5N8	0.7%	0.2%	1.3%	0.3%	12.8%	0.8%	14.5%	0.9%	8.9%	0.7%	17.3%	0.9%	1.9%
West Midlands SHA	024	1.001	A 1-1		A 1-1	10.00	0.001	44.84	0.001	10.1	0.001	40.000	0.001	1
West Midlands SHA Birmingham East & North PCT	Q34 5PG	1.2%	0.1% 0.4%	1.5% 1.9%	0.1% 0.4%	13.2% 12.2%	0.3% 1.0%	14.5% 14.8%	0.3%	10.1%	0.2% 0.9%	19.8% 20.7%	0.3% 1.2%	<u>1.0%</u> 2.0%
Coventry Teaching PCT	5PG 5MD	1.4%	0.4%	1.9%	0.4%	12.2%	1.0%	14.6%	1.1%	10.7%	1.1%	19.4%	1.2%	2.0%
	5PE	1.1%	0.4%	1.3%	0.4%	14.7%	1.2%	14.4%	1.2%	9.0%	1.0%	20.8%	1.4%	1.8%
Dudley PCT	5MX	3.3%	0.5%	3.5%	0.6%	10.5%	0.9%	14.3%	1.1%	11.8%	0.9%	24.0%	1.3%	1.8%
Heart of Birmingham Teaching PCT	5CN	0.3%	0.3%	1.2%	0.5%	14.7%	1.8%	13.7%	1.7%	9.0%	1.4%	18.9%	1.9%	3.0%
Heart of Birmingham Teaching PCT Herefordshire PCT			0.4%	1.3%	0.5%	14.3%	1.6%	14.1% 14.4%	1.5% 1.2%	9.6%	1.4%	19.2%	1.7%	2.1%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT	5PH	0.8%												1.9%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT	5PH 5PF	2.1%	0.5%	1.4%	0.4%	13.3%	1.1%			12.9%	1.1%	24.6%	1.4%	
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Shropshire County PCT	5PH 5PF 5M2	2.1% 0.4%	0.5% 0.3%	1.4% 0.8%	0.3%	14.8%	1.4%	14.8%	1.4%	9.2%	1.1%	17.5%	1.4%	1.9%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Shropshire County PCT Solihull Care Trust	5PH 5PF	2.1%	0.5%	1.4%		14.8% 12.5%								
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Shropshire County PCT	5PH 5PF 5M2 TAM	2.1% 0.4% 0.6%	0.5% 0.3% 0.3%	1.4% 0.8% 1.7%	0.3% 0.6%	14.8%	1.4% 1.4%	14.8% 14.4%	1.4% 1.5%	9.2% 8.8%	1.1% 1.2%	17.5% 15.6%	1.4% 1.6%	1.9% 3.2%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Shropshire County PCT Solihull Care Trust South Birmingham PCT South Staffordshire PCT Stoke on Trent PCT	5PH 5PF 5M2 TAM 5M1 5PK 5PJ	2.1% 0.4% 0.6% 1.0% 0.7% 0.5%	0.5% 0.3% 0.3% 0.3% 0.2% 0.3%	1.4% 0.8% 1.7% 1.8% 1.2% 1.8%	0.3% 0.6% 0.4% 0.3% 0.5%	14.8% 12.5% 13.2% 13.6% 13.4%	1.4% 1.4% 1.1% 0.9% 1.3%	14.8% 14.4% 14.2% 15.3% 14.2%	1.4% 1.5% 1.2% 0.9% 1.4%	9.2% 8.8% 9.6% 9.8% 12.1%	1.1% 1.2% 1.0% 0.7% 1.2%	17.5% 15.6% 19.8% 18.4% 21.8%	1.4% 1.6% 1.3% 1.0% 1.6%	1.9% 3.2% 1.7% 1.5% 2.3%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Solhull Care Tust Solhull Care Tust South Birmingham PCT South Staffordshire PCT Stoke on Trent PCT Telford & Wrekin PCT	5PH 5PF 5M2 7AM 5M1 5PK 5PK 5PJ 5MK	2.1% 0.4% 0.6% 1.0% 0.7% 0.5% 0.7%	0.5% 0.3% 0.3% 0.2% 0.2% 0.3% 0.4%	1.4% 0.8% 1.7% 1.8% 1.2% 1.8% 1.3%	0.3% 0.6% 0.4% 0.3% 0.5% 0.5%	14.8% 12.5% 13.2% 13.6% 13.4% 16.6%	1.4% 1.4% 1.1% 0.9% 1.3% 1.7%	14.8% 14.4% 14.2% 15.3% 14.2% 15.3%	1.4% 1.5% 1.2% 0.9% 1.4% 1.7%	9.2% 8.8% 9.6% 9.8% 12.1% 11.7%	1.1% 1.2% 1.0% 0.7% 1.2% 1.5%	17.5% 15.6% 19.8% 18.4% 21.8% 18.8%	1.4% 1.6% 1.3% 1.0% 1.6% 1.8%	1.9% 3.2% 1.7% 1.5% 2.3% 2.3%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Shorpshire County PCT Solihull Care Trust South Birmingham PCT South Staffordshire PCT Stoke on Trent PCT Telford & Wrekin PCT Walsall Teaching PCT	5PH 5PF 5M2 TAM 5M1 5PK 5PK 5PJ 5MK 5M3	2.1% 0.4% 0.6% 1.0% 0.7% 0.5% 0.7% 1.6%	0.5% 0.3% 0.3% 0.3% 0.2% 0.3% 0.4% 0.4%	1.4% 0.8% 1.7% 1.8% 1.2% 1.8% 1.3% 2.2%	0.3% 0.6% 0.4% 0.3% 0.5% 0.5%	14.8% 12.5% 13.2% 13.6% 13.4% 16.6% 11.3%	1.4% 1.4% 1.1% 0.9% 1.3% 1.7% 1.1%	14.8% 14.4% 14.2% 15.3% 14.2% 15.3% 13.0%	1.4% 1.5% 1.2% 0.9% 1.4% 1.7% 1.2%	9.2% 8.8% 9.6% 9.8% 12.1% 11.7% 9.3%	1.1% 1.2% 1.0% 0.7% 1.2% 1.5% 1.0%	17.5% 15.6% 19.8% 18.4% 21.8% 18.8% 21.9%	1.4% 1.6% 1.3% 1.0% 1.6% 1.8% 1.4%	1.9% 3.2% 1.7% 1.5% 2.3% 2.3% 1.7%
Heart of Birmingham Teaching PCT Herefordshire PCT North Staffordshire PCT Sandwell PCT Solihul Care Tust Solihul Care Tust South Birmingham PCT South Staffordshire PCT Stoke on Trent PCT Tefford & Wrekin PCT	5PH 5PF 5M2 7AM 5M1 5PK 5PK 5PJ 5MK	2.1% 0.4% 0.6% 1.0% 0.7% 0.5% 0.7%	0.5% 0.3% 0.3% 0.2% 0.2% 0.3% 0.4%	1.4% 0.8% 1.7% 1.8% 1.2% 1.8% 1.3%	0.3% 0.6% 0.4% 0.3% 0.5% 0.5%	14.8% 12.5% 13.2% 13.6% 13.4% 16.6%	1.4% 1.4% 1.1% 0.9% 1.3% 1.7%	14.8% 14.4% 14.2% 15.3% 14.2% 15.3%	1.4% 1.5% 1.2% 0.9% 1.4% 1.7%	9.2% 8.8% 9.6% 9.8% 12.1% 11.7%	1.1% 1.2% 1.0% 0.7% 1.2% 1.5%	17.5% 15.6% 19.8% 18.4% 21.8% 18.8%	1.4% 1.6% 1.3% 1.0% 1.6% 1.8%	1.9% 3.2% 1.7% 1.5% 2.3% 2.3%

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Gamagan All pp pp< pp<< pp<< pp<< <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.0%</td></t<>															1.0%
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Rescond PT ps. 100 640 120 250 340 150 350															2.0%
Solverting Solveri	Peterborough PCT	5PN	1.0%	0.4%	1.3%	0.5%			14.3%	1.6%					2.5%
SAA 57 P7 121 0.51 0.51 0.52 0.55 0.46 0.55 0.45 0.55	South East Essex PCT	5P1	0.4%	0.2%	1.0%	0.3%	12.7%	1.2%	13.6%	1.2%	9.4%	1.0%	18.1%	1.3%	2.6%
met mer, n. m. pr 0.38 0.48 0.55															1.9%
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Schurt Statu Dies Dies <thdies< th=""> Dies Dies</thdies<>															2.1%
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Math & Guergene PT Q2 188 Cols 147 158 148 128	Leader Old	000	4 20/	0.49/	4 00/	0.4%	40.40/	0.0%	4 4 70/	0.20/	44.00/	0.00/	24.20/	0.20/	0.0%
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Bert Broug PCT Box Construct Construct <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>															
Beenergeric															2.2%
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Cardy RCT Bix 1.45 2.46 2.95 1.15 1.46 1.25 1.25 1.15 2.98 1.46 1.25 Cond RCT 1.16 0.45 1.16 0.45 1.15			0.7%		1.1%		12.9%		14.6%						2.1%
Generative Archive PCT 568 0.68 0.75 1.75 1.75 1.45 1.20 1.25 2.29 1.15	Ealing PCT	5HX		0.4%		0.5%	12.5%			1.2%			21.9%		1.7%
Internet B fundam RT 911 1616 0.7% 2.7% 0.6% 11.1% 18.4 12.6% 12.9%															2.0%
sterning PCT Co.9 1228 0.458 1225 1228 1228 1228 0.278 1258 1418 1428 1228 0.278 1258															2.0%
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Satus Alvela PCT 947 15% 0.4% 16% 0.4% 14.2% 1.2% 8.3% 0.9% 11.5% 0.1% 2.3% 0.0% 10.2% 1.3% 1.4% 2.3% 0.7% 10.2% 1.3% 1.4% 0.3% 1.5% 0.7% 10.2% 1.3% 0.5% 0.2% 1.3% 0.5% 0.2% 1.3% 0.5% 0.2% 1.3% 0.0% 1.5% 0.7% 10.2% 1.3% 0.0% 1.5% 0.2% 1.3% 0.0% 1.5% 0.2% 1.3% 0.0% 1.5% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.4% 1.4% 0.4% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% 1.4% 0.2% </td <td>Richmond & Twickenham PCT</td> <td>5M6</td> <td></td> <td></td> <td></td> <td>0.6%</td> <td></td> <td></td> <td>12.2%</td> <td>1.6%</td> <td></td> <td>1.1%</td> <td>11.7%</td> <td>1.6%</td> <td>2.0%</td>	Richmond & Twickenham PCT	5M6				0.6%			12.2%	1.6%		1.1%	11.7%	1.6%	2.0%
Town Hamite PCT 564 1.776 0.278 0.78 1.28 1.378 1.478 1.388 1.287 0.178 1.178 0.278 0.78 1.028 1.28 1.385 1.58 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 0.99 1.28 1.148 1.78 1.148 1.78 1.148 1.78 1.148 1.78 1.148 1.78 1.148 1.128 1.148 1.128 1.148 1.128 1.148 1.128 1.148 1.28 1.148 1.28 1.148 1.28 1.148 1.128 1.148 1.128 1.148 1.138 1.148 1.138 1.148 1.138 1.148 1.138 1.148 1.138 1.148 1.138															2.6%
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South East Coast SHA 0.37 0.8% 0.1% 1.3.8% 0.3% 1.4.4% 0.3% 8.6% 0.3% 1.6.0% 0.4% 1.1% Brighton & Nove Cly PCT SLQ 0.6% 0.3% 1.5% 0.5% 1.3.7% 1.4.4% 1.52% 1.6.6% 8.99% 1.2.% 1.4.4% 1.5% 2.2% East Susse Downs Name 0.2% 1.2% 0.2% 1.2% 0.4% 0.5% 1.3.9% 0.5% 1.4.4% 1.5% 0.4% 0.7% 1.6.6% 1.4.4% 1.7% 8.4.4% 0.7% 1.4.4% 1.7% 8.4.4% 1.7% 8.4.4 1.6.6% 1.4.4% 1.7% 8.4.4 1.6.6% 1.4.4% 1.7% 8.4.4 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.7% 1.6.6% 0.7% 1.6.6% 0.7% 1.6															
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Inghon & Hove Chr, PCT ILO 0.0% 0.3% 1.5% 0.5% 13.7% 1.4% 11.2% 1.6% 8.9% 1.2% 1.6% 8.9% 1.2% 1.6% 8.9% 1.2% 1.6% 8.1% 1.2% 6.1% 1.3% 1.2% 0.1% 1.4% 1.1% 5.1% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 1.4% 0.1% 0.4% 0.1% 0.2% 0.2% 0.3% 0.2% 0.3% 0.2% 0.3% 0.3% 0.5% 1.4% 0.7% 0.5% 0.7% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.	South East Coast SHA	037	0.8%	0.1%	1 2%	0.1%	13 3%	0.3%	14 4%	0.3%	8.6%	0.3%	16.0%	0.4%	1 1%
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Berkshire Vest PCT 5QG 2.2% 0.5% 1.6% 0.4% 11.5% 1.1% 14.1% 1.0% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 1.0% 1.1% 0.0% 1.1% 0.0% 1.1% 0.0% 1.1% 0.0% 1.0% 1.1% 0.0% 1.1% 0.0% 1.0% 1.1% 0.0% 1.0% 1.0% 1.1% 1.1% 0.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% </td <td>South Control SHA</td> <td>029</td> <td>4 00/</td> <td>0.40/</td> <td>4 20/</td> <td>0.40/</td> <td>40.00/</td> <td>0.20/</td> <td>42.00/</td> <td>0.20/</td> <td>0.00/</td> <td>0.20/</td> <td>16.00/</td> <td>0.40/</td> <td>4 40/</td>	South Control SHA	029	4 00/	0.40/	4 20/	0.40/	40.00/	0.20/	42.00/	0.20/	0.00/	0.20/	16.00/	0.40/	4 40/
Berkshire West PCT OCF 0.9% 0.3% 1.4% 0.4% 1.20% 0.9% 1.0% 8.3% 0.8% 16.3% 1.1% 1.8% Buckinghamshire PCT 5QC 0.9% 0.2% 1.1% 0.4% 9.7% 0.8% 13.2% 0.9% 7.1% 0.7% 14.0% 1.0% 1.6% Hampshire PCT 5QC 0.9% 0.2% 1.1% 0.2% 1.6% 0.8% 0.6% 6.6% 1.3% 0.6% 6.6% 1.3% 0.6% 6.6% 1.3% 0.6% 6.6% 1.3% 0.6% 6.6% 1.3% 0.6% 6.6% 1.3% 0.6% 6.6% 1.7% 1.6% 2.1% 9.9% 1.8% 19.1% 2.3% 3.7% Mitton Keynes PCT 5QE 0.5% 0.2% 1.2% 0.3% 1.4% 0.9% 8.7% 0.7% 1.6% 1.7% 1.7% 1.7% 1.5% 2.14% 1.9% 2.4% 1.7% 1.5% 2.14% 1.9% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
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Miton Keynes PCT SCQ 1.2% 0.4% 1.5% 0.2% 1.2% 1.4% 1.5% 9.4% 1.1% 15.9% 1.5% 2.6% Oxford PCT SCE 0.5% 0.2% 1.2% 0.3% 16.5% 1.4% 0.9% 14.2% 0.9% 8.7% 0.7% 16.0% 1.0% 1.7% 1.5% 21.4% 1.9% 2.4% Southampton City PCT SL1 1.9% 0.6% 1.1% 0.5% 1.4% 1.3% 1.2% 1.5% 21.4% 1.9% 2.4% South West SHA Q39 0.6% 0.1% 1.1% 0.1% 1.4% 0.3% 1.2% 1.3% 1.2% 1.3% 1.2% 1.3% 1.2% 1.3% 1.2% 1.2% 1.3% 1.2% 1.2% 1.3% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% </td <td>Isle of Wight PCT</td> <td>5QT</td> <td>0.3%</td> <td>0.3%</td> <td>0.6%</td> <td>0.5%</td> <td>16.1%</td> <td>2.2%</td> <td>14.6%</td> <td>2.1%</td> <td>9.9%</td> <td>1.8%</td> <td>19.1%</td> <td>2.3%</td> <td>3.7%</td>	Isle of Wight PCT	5QT	0.3%	0.3%	0.6%	0.5%	16.1%	2.2%	14.6%	2.1%	9.9%	1.8%	19.1%	2.3%	3.7%
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Southampton City PCT 5L1 1.9% 0.6% 1.1% 0.5% 11.4% 1.3% 12.7% 1.5% 9.3% 1.2% 17.0% 1.7% 2.39 South West SHA Q39 0.6% 0.1% 1.1% 0.1% 14.0% 0.3% 1.2% 17.0% 1.7% 2.39 South West SHA Q39 0.6% 0.1% 1.1% 0.1% 14.0% 0.3% 1.2% 1.3% 1.2% 1.3% 1.2% 1.3% 1.2% 1.3% 1.2% 1.3% 1.3% 1.1% 0.3% 1.1% 0.3% 1.4% 1.3% 1.2% 1.3%															1.7%
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Bath & North East Somerset PCT 6FL 0.4% 0.3% 0.9% 0.4% 1.9% 1.4% 7.9% 1.3% 1.3% 1.7% 7.9% 1.3% 1.3% 1.7% 1.8% Bournemouth & Poole PCT 5CN 0.6% 0.3% 1.1% 0.4% 1.2% 1.3% 1.3% 8.3% 1.1% 1.5% 1.4% 1.1% 1.2% 1.0% 1.1% 1.3% 1.1% 1.2% 1.0% 1.1% 1.3% 1.1% 1.2% 1.0% 1.1% 1.3% 1.1% 1.2% 1.0% 1.1% 1.3% 1.1% 1.2% 1.0% 1.0% 1.1% 1.2% 1.0% 1.0% 1.1% 1.2% 1.0% 1.0% 1.1% 2.0% 0.0% 1.1% 0.0% 1.1% 0.0% 1.0% 0.0% 1.1% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 1.0% 0.0% 0.0	On with Want Old	0.00		A 14		A 444			44.00	0.000	0.000	0.001	10.00		1 101
Bournemouth & Poole PCT SON 0.6% 0.3% 1.1% 0.4% 12.5% 1.3% 1.3% 8.3% 1.1% 15.3% 1.4% 2.19 Bristol PCT SQJ 0.5% 0.2% 0.9% 0.3% 14.4% 1.1% 15.2% 1.2% 1.0% 1.0% 1.7.9% 1.3% 1.7% 1.2% 1.0% 1.0% 1.7.9% 1.1% 1.7.9% 1.1% 0.2% 1.1% 0.3% 14.4% 1.1% 1.2% 1.0% 0.9% 0.7.9% 1.1% 2.4% Devon PCT SQQ 0.5% 0.2% 1.0% 0.2% 1.4% 0.9% 0.4% 0.9% 0.7% 1.1% 0.9% 0.9% 0.9% 0.9% 0.9% 0.1% 0.9% 0.9% 0.9% 0.9% 0.9% 0.9% 0.1% 0.9% 0.9% 0.1% 0.9% 0.1% 0.9% 0.1% 0.9% 0.1% 0.9% 0.1% 0.9% 0.1% 0.1% 0.9% 0.4% 0.9% <td></td> <td>1.1%</td>															1.1%
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Swindon PCT 5K3 0.2% 0.2% 1.0% 0.4% 1.5% 1.4% 1.5% 9.5% 1.2% 1.65% 1.6% 2.3% Torbay Care Trust TAL 0.9% 0.6% 1.3% 0.6% 14.2% 2.0% 12.9% 1.8% 9.9% 1.7% 16.0% 2.4% Witshire PCT 50K 0.3% 1.2% 0.3% 12.5% 1.0% 1.3% 0.6% 1.4% 1.6% 7.8% 0.8% 1.4.7% 1.1% 1.6%	Somerset PCT		0.7%	0.2%								0.8%			1.7%
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															2.4%
							12.5%	1.0%	13.7%	1.0%	7.8%	0.8%	14.7%	1.1%	1.6%

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 1. Due to an error during the upload of data it has not been possible to validate the participation rate for this PCT.
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Source: The Health and Social Care Information Centre, Lifestyle Statistics / Department of Health Cross-Government Obesity Unit NCMP Dataset Copyright © 2009. The Health and Social Care Information Centre, Lifestyle Statistics. All Rights Reserved.

Table B: Prevalence of underweight, overweight and obese children, with associated 95% confidence intervals, by Government Office Region, Local Authority County/Unitary Authority and Local Authority District/Former District, England, 2008/09

			Under					weight				ese	
		Rece	95%	Yea	95%	Recep	95%	Yea	95%	Rece	95%	Yea	95%
Area	Code	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±	Prevalence	confidence interval ±
ENGLAND	64	1.0%	0.0%	1.3%	0.0%	13.2%	0.1%	14.3%	0.1%	9.6%	0.1%	18.3%	0.1%
NORTH EAST	А	0.5%	0.1%	0.9%	0.1%	14.4%	0.4%	14.7%	0.4%	10.2%	0.4%	20.4%	0.5%
County Durham UA Former districts of:	00EJ	0.5%	0.2%	0.9%	0.3%	14.4%	1.0%	14.9%	1.0%	9.4%	0.8%	20.3%	1.1%
Chester-le-Street Derwentside	20UB 20UD	x	x	1.0% 1.0%	0.8%	15.2% 12.9%	3.0%	15.3% 14.5%	2.9%	9.5% 7.9%	2.4%	19.1% 21.3%	3.1% 2.8%
Durham Easington	20UE 20UF	x 0.8%	x 0.5%	x 1.1%	x 0.6%	14.5% 16.0%	2.4% 2.2%	12.9% 14.6%	2.3% 2.1%	10.5% 9.3%	2.1% 1.8%	17.5% 21.6%	2.6% 2.4%
Sedgefield Teesdale	20UG 20UH	X	x	1.1%	0.7%	15.3% 11.6%	2.3% 4.2%	16.1% 13.7%	2.4% 4.3%	10.5% 7.6%	2.0% 3.5%	19.4% 21.0%	2.6% 5.1%
Wear Valley Darlington UA	20UJ 00EH	x	x	× 0.9%	x 0.6%	12.5% 15.1%	2.5%	16.6% 12.8%	2.8%	9.2%	2.2%	22.1% 19.9%	3.1% 2.4%
Hartlepool UA Middlesbrough UA	00EB 00EC	X X	x x 0.4%	1.0%	0.6%	17.4%	2.1%	12.8%	2.0%	10.8%	1.7% 1.9% 1.6%	22.8%	2.4%
Northumberland UA	00EC	0.5% 0.5%	0.4%	1.3% 0.9%	0.6%	13.2% 15.0%	1.7%	15.0%	1.8%	11.5% 9.8%	1.6%	21.9% 16.9%	1.3%
Former districts of: Alnwick	35UB	x	x	2.3%	1.7%	10.2%	3.6%	10.8%	3.5%	6.9%	3.0%	11.1%	3.5%
Berwick-upon-Tweed Blyth Valley	35UC 35UD	x	x x	x	x x	12.1% 15.7%	4.3%	17.6% 15.9%	5.2% 2.5%	12.5% 10.5%	4.3%	17.6% 20.0%	5.2% 2.7%
Castle Morpeth Tynedale	35UE 35UF	x	x	x	x	14.8% 15.6%	3.1% 2.9%	15.1% 13.1%	3.1% 2.7%	8.2% 7.9%	2.4%	14.1% 13.1%	3.0% 2.7%
Wansbeck Redcar and Cleveland UA	35UG 00EE	× 2.1%	× 0.8%	× 0.9%	× 0.5%	16.8% 15.4%	3.0% 2.1%	13.8% 14.8%	2.7% 1.9%	12.5% 9.9%	2.6%	21.0% 19.7%	3.1% 2.1%
Stockton-on-Tees UA Tyne and Wear (Met County)	00EF 2D	0.6% 0.5%	0.3% 0.1%	0.8% 0.8%	0.4%	14.0% 14.0%	1.5% 0.7%	15.5% 14.6%	1.6% 0.7%	10.5% 10.5%	1.3% 0.6%	20.3% 21.1%	1.8% 0.8%
Gateshead Newcastle upon Tyne	00CH 00CJ	x 0.6%	x 0.3%	0.9%	0.4%	13.2% 15.2%	1.5% 1.4%	14.3% 14.6%	1.5% 1.4%	8.8% 12.3%	1.3%	22.8%	1.8%
North Tyneside South Tyneside	00CK 00CL	0.5%	0.3%	0.7%	0.4%	14.1%	1.5%	14.0% 15.3% 14.7%	1.5%	10.3%	1.3%	20.0%	1.7%
South Tyneside Sunderland	00CL 00CM	x 0.5%	x 0.3%	0.7%	0.4%	13.1%	1.7%	14.1%	1.8%	9.1%	1.5%	21.0%	1.5%
NORTH WEST	B	0.9%	0.1%	1.3%	0.1%	13.5%	0.3%	14.1%	0.3%	9.6%	0.2%		0.3%
Blackburn with Darwen UA Blackpool UA	00EX 00EY	2.0% 1.2%	0.6%	3.3% 0.9%	0.9%	11.2% 12.8%	1.5%	13.3% 11.4%	1.6% 1.6%	8.9% 9.7%	1.3%	17.9% 19.6%	1.8% 2.0%
Cheshire East UA Former districts of:	00EQ	0.4%	0.2%	1.1%	0.4%	14.8%	1.2%	14.4%	1.2%	8.2%	0.9%	17.7%	1.3%
Congleton Crewe and Nantwich	13UC 13UD	x 0.6%	x 0.5%	1.4% 0.7%	0.8%	17.0% 14.0%	2.5% 2.0%	13.9% 14.6%	2.3% 2.0%	9.2% 9.5%	1.9% 1.7%	16.5% 18.8%	2.5% 2.3%
Macclesfield Cheshire West and Chester UA	13UG 00EW	× 0.8%	× 0.3%	1.3% 0.8%	0.6%	14.1% 13.9%	1.8% 1.2%	14.5% 13.5%	1.8% 1.2%	6.7% 9.7%	1.3% 1.0%	17.5% 17.4%	2.0% 1.3%
Former districts of: Chester	13UB	0.9%	0.6%	x	x	13.7%	2.1%	13.5%	2.0%	9.5%	1.8%	15.4%	2.1%
Ellesmere Port and Neston Vale Royal	13UE 13UH	X	x	x 1.3%	x 0.6%	14.0% 14.0%	2.4%	16.1% 11.9%	2.5% 1.7%	12.3% 8.2%	2.3% 1.5%	18.8% 18.1%	2.7% 2.1%
Halton UA Warrington UA	00ET 00EU	0.5%	0.4%	1.1%	0.6%	15.9%	2.0%	14.8%	2.0%	11.7% 8.4%	1.8%	22.2%	2.3% 1.6%
Cumbria	16 16UB	0.0%	0.3 %	0.1%	0.2%	13.4% 14.4%	1.1%	15.6%	1.1%	9.2%	0.9%	19.7%	1.2%
Allerdale Barrow-in-Furness	16UC	x	x	0.9% X	0.6% X	15.5%	2.5%	15.3% 15.6%	2.4%	6.4% 14.2%	1.7% 2.6%	20.0% 21.2%	2.6% 3.0%
Carlisle Copeland	16UD 16UE	x 1.0%	x 0.8%	x	x	16.1% 11.9%	2.3% 2.6%	16.0% 16.6%	2.3% 2.9%	8.2% 11.9%	1.7% 2.6%	21.0% 19.6%	2.5% 3.1%
Eden South Lakeland	16UF 16UG	x	x	x x	x	10.6% 14.5%	2.8% 2.7%	15.8% 14.5%	3.2% 2.4%	7.6% 7.3%	2.4% 2.0%	19.2% 16.8%	3.4% 2.6%
Greater Manchester (Met County) Bolton	2A 00BL	1.1% 1.1%	0.1% 0.4%	1.5% 2.0%	0.1% 0.5%	13.1% 13.0%	0.4% 1.2%	14.2% 14.0%	0.4% 1.2%	9.6% 9.1%	0.3% 1.0%	18.7% 17.5%	0.5% 1.3%
Bury Manchester	00BM 00BN	1.2% 0.7%	0.5%	2.1% 1.4%	0.6%	10.5% 13.2%	1.4%	13.1% 14.6%	1.5% 1.1%	8.7% 12.4%	1.2%	18.5% 22.6%	1.7% 1.2%
Oldham Rochdale	00BP 00BQ	1.3% 0.7%	0.4%	2.1% 1.9%	0.5%	13.7% 14.2%	1.3% 1.4%	14.0% 15.2%	1.3%	9.0% 10.3%	1.1%	19.2% 17.3%	1.5% 1.5%
Salford Stockport	00BR 00BS	1.0% 2.4%	0.4%	1.2% 1.2%	0.5%	11.6% 8.9%	1.3% 1.1%	14.5% 13.4%	1.4% 1.3%	9.0% 6.1%	1.2%	18.0% 16.1%	1.6% 1.4%
Tameside Trafford	00BT 00BU	0.4%	0.3%	0.9%	0.4%	15.1% 13.4%	1.4% 1.3%	14.9% 13.4%	1.4% 1.4%	11.6% 9.1%	1.3%	19.0% 18.0%	1.6% 1.6%
Wigan Lancashire	00BW 30	0.5%	0.2%	1.0% 1.2%	0.4%	16.2% 13.4%	1.3% 0.6%	14.2% 14.0%	1.2% 0.6%	9.2% 9.0%	1.0% 0.5%	18.4% 17.0%	1.4% 0.7%
Burnley Chorley	30UD 30UE	0.8%	0.6%	1.1%	0.6%	15.8%	2.2%	15.3%	2.2%	9.6% 7.8%	1.8%	18.1% 16.3%	2.4%
Fylde	30UF	X	X	1.1%	0.8%	14.7%	3.0%	14.2%	2.8%	8.1%	2.3%	14.1%	2.2%
Hyndburn Lancaster	30UG 30UH	2.0% x	0.9% ×	1.4% 1.0%	0.8%	12.0% 15.4%	2.0%	15.8% 12.1%	1.8%	11.2% 10.9%	1.8%	19.4% 16.5%	2.1%
Pendle Preston	30UJ 30UK	1.3% 1.8%	0.7% 0.7%	1.3% 1.9%	0.7% 0.7%	13.3% 10.9%	2.1% 1.7%	12.3% 13.1%	2.1% 1.8%	8.0% 8.5%	1.7% 1.5%	16.3% 17.3%	2.3% 2.0%
Ribble Valley Rossendale	30UL 30UM	x	x	1.0% 1.4%	0.8%	13.7% 15.3%	2.8% 2.7%	14.3% 16.2%	2.7% 2.7%	7.4% 9.4%	2.1% 2.2%	15.3% 17.9%	2.8% 2.8%
South Ribble West Lancashire	30UN 30UP	0.5% x	0.4% x	1.1% 0.8%	0.6%	11.5% 12.4%	<u>1.9%</u> 1.9%	15.6% 14.0%	2.2%	6.8% 11.0%	1.5% 1.8%	16.3% 18.8%	2.2%
Wyre Merseyside (Met County)	30UQ 2B	× 0.9%	× 0.2%	0.9% 1.1%	0.6%	13.9% 13.8%	2.3% 0.6%	13.2% 14.4%	2.2% 0.6%	8.6% 10.6%	1.8% 0.5%	16.9% 21.1%	2.4% 0.7%
Knowsley Liverpool	00BX 00BY	x 1.9%	x 0.4%	0.8%	0.4%	14.8% 11.4%	<u>1.8%</u> 1.0%	15.4% 14.5%	1.8% 1.1%	12.0% 10.4%	1.6%	23.3% 22.6%	2.1% 1.3%
St. Helens Sefton	00BZ 00CA	0.7%	0.4% 0.2%	1.3% 1.1%	0.5%	17.6% 14.4%	1.8% 1.3%	14.5% 14.0%	1.6% 1.3%	12.9% 9.7%	1.5% 1.1%	21.7% 17.8%	1.9% 1.4%
Wirral	00CB	0.4%	0.2%	0.9%	0.3%	14.0%	1.2%	14.1%	1.2%	9.6%	1.0%	20.6%	1.4%
YORKSHIRE AND THE HUMBER East Riding of Yorkshire UA	D 00FB	1.1% 0.3%	0.1% 0.2%	1.4% 0.9%	0.1% 0.3%	13.1% 15.3%	0.3% 1.3%	14.0% 14.6%	0.3% 1.2%	9.6% 10.3%	0.3% 1.1%	18.6% 16.7%	0.3% 1.3%
Kingston upon Hull, City of UA North East Lincolnshire UA	00FA 00FC	0.5%	0.2%	0.8%	0.3%	15.2% 16.2%	1.4%	14.0%	1.4%	10.3% 10.3% 11.9%	1.2%	21.5% 18.7%	1.7% 1.8%
North Lincolnshire UA	00FD	2.3%	0.7%	2.1%	0.7%	11.6%	1.5%	13.2%	1.7%	7.6%	1.2%	18.5%	2.0%
York UA North Yorkshire	00FF 36	1.6% 0.8%	0.6%	2.0% 0.9%	0.7%	10.1% 13.3%	1.5% 0.9%	12.3% 14.4%	1.6% 0.9%	6.7% 8.6%	1.2%	16.7% 16.2%	1.8% 1.0%
Craven Hambleton	36UB 36UC	1.2% 1.5%	1.0% 0.8%	x 1.5%	x 0.8%	12.0% 11.2%	2.9%	13.5% 15.0%	2.9% 2.4%	9.6% 8.0%	2.6%	14.8% 16.7%	3.0% 2.5%
Harrogate Richmondshire	36UD 36UE	x	x x	0.7% x	0.4% x	13.5% 16.7%	1.8% 3.7%	13.8% 14.0%	1.9% 3.1%	7.7% 7.9%	1.4% 2.7%	14.6% 15.0%	1.9% 3.2%
Ryedale Scarborough	36UF 36UG	x	×	x	x x	17.9% 16.9%	3.6% 2.4%	15.2% 15.8%	3.3% 2.3%	11.6% 11.7%	3.0%	16.6% 20.5%	3.4% 2.5%
Selby South Yorkshire (Met County)	36UH 2C	1.9% 0.7%	1.0% 0.1%	2.5% 1.1%	1.2% 0.2%	6.7% 14.0%	1.9% 0.6%	12.9% 14.4%	2.6% 0.6%	4.7% 9.8%	1.6% 0.5%	14.0% 19.1%	2.7% 0.7%
Barnsley Doncaster	00CC 00CE	0.6%	0.3%	0.9%	0.4%	13.3%	1.4%	15.0%	1.4%	9.5% 10.3%	1.2%	19.6% 19.4%	1.6%
Rotherham Sheffield	00CF 00CG	0.7%	0.3%	1.1% 1.4%	0.3%	14.4%	1.3%	14.3% 13.8%	1.3%	10.0%	1.1%	19.0% 18.7%	1.5% 1.1%
West Yorkshire (Met County)	2F	1.4%	0.1%	1.7%	0.2%	12.2%	0.4%	13.7%	0.4%	9.7%	0.4%	18.9%	0.5%
Bradford Calderdale	00CX 00CY	2.0% 2.7%	0.3%	2.3%	0.4%	11.7% 10.4%	0.8%	13.6% 12.7%	0.9%	10.0% 8.0%	0.7%	19.9% 16.6%	1.1% 1.6%
Kirklees Leeds	00CZ 00DA	1.4% 0.8%	0.3% 0.2%	2.0% 1.2%	0.4%	11.7% 13.2%	0.9%	14.0% 14.2%	1.0% 0.8%	9.3% 10.3%	0.8%	16.4% 20.9%	1.1% 0.9%
Wakefield	00DB	1.0%	0.3%	1.0%	0.3%	12.3%	1.1%	13.4%	1.2%	9.5%	1.0%	18.0%	1.3%

	Underweight Overweight Reception Year 6 Reception Year 6					Rece	ption						
Area	Code	Prevalence	95% confidence interval ±	Prevalence	95% confidence interval ±	Prevalence	95% confidence interval ±	Prevalence	95% confidence interval ±	Prevalence	95% confidence interval ±	Prevalence	95% confidence interval ±
EAST MIDLANDS Derby UA Leicester UA	E 00FK 00FN	1.2% 0.7% 2.2%	0.1% 0.3% 0.5%	1.3% 1.9% 3.3%	0.1% 0.5% 0.6%	13.0% 12.2% 11.2%	0.3% 1.3% 1.1%	14.4% 14.8% 14.5%	0.3% 1.4% 1.2%	9.1% 9.5% 10.0%	0.3% 1.1% 1.0%	17.8% 17.2% 17.8%	0.4% 1.5% 1.3%
Nottingham UA Rutland UA Derbyshire	00FY 00FP 17	1.2% x 0.5%	0.4% x 0.2%	1.5% x 0.8%	0.5% x 0.2%	14.5% 13.5% 14.3%	1.3% 3.8% 0.9%	13.7% 13.7% 14.5%	1.3% 4.0% 0.8%	10.0% 7.2% 8.6%	1.2% 2.9% 0.7%	22.6% 15.1% 17.7%	1.6% 4.1% 0.9%
Amber Valley Bolsover Chesterfield	17UB 17UC 17UD	x x 0.8%	x x 0.6%	0.7% 0.7% x 1.1%	0.5% x 0.7%	16.2% 13.4% 13.2%	2.4% 2.6% 2.2%	14.0% 14.0% 15.4%	2.0% 2.5% 2.3%	9.8% 8.6% 9.1%	2.0% 2.2% 1.9%	15.3% 18.7% 18.2%	2.0% 2.8% 2.4%
Derbyshire Dales Erewash High Peak	17UF 17UG 17UH	x 0.9%	x 0.6%	0.9% 1.1%	0.7% 0.6%	13.2% 11.3% 16.9%	2.7% 2.1% 2.5%	14.7% 14.0% 14.2%	2.6% 2.0% 2.2%	7.4% 7.3% 8.7%	2.1% 1.7% 1.9%	17.4% 18.3% 16.4%	2.7% 2.3% 2.3%
North East Derbyshire South Derbyshire Leicestershire	17UJ 17UK 31	× × 0.8%	× × 0.2%	0.7% 1.3% 1.0%	0.5% 0.8% 0.3%	15.1% 14.8% 14.0%	2.3% 2.6% 0.9%	14.4% 14.6% 14.0%	2.1% 2.4% 0.9%	7.8% 10.3% 8.9%	1.7% 2.2% 0.7%	17.5% 20.7% 16.0%	2.2% 2.8% 1.0%
Blaby Charnwood Harborough	31UB 31UC 31UD	1.1% 0.7%	0.6% 0.5%	0.9% 1.5%	0.6% 0.7%	15.0% 14.9% 11.4%	2.2% 2.0% 2.2%	14.3% 13.9% 13.2%	2.4% 2.0% 2.5%	9.7% 9.4% 7.6%	1.8% 1.6% 1.8%	16.3% 18.8% 11.4%	2.6% 2.2% 2.3%
Hinckley and Bosworth Melton North West Leicestershire	31UE 31UG 31UH	x x x	x x x	x x 1.0%	x x 0.7%	14.9% 13.5% 13.1%	2.3% 3.1% 2.2%	13.9% 14.3% 15.4%	2.2% 3.1% 2.4%	9.4% 8.8% 8.5%	1.9% 2.6% 1.8%	16.8% 16.7% 14.6%	2.3% 3.3% 2.4%
Oadby and Wigston LincoInshire Boston	31UJ 32 32UB	2.5% 1.5% 1.0%	1.3% 0.3% 0.8%	2.3% 1.1% 1.0%	1.2% 0.3% 0.8%	14.6% 13.4% 10.0%	2.9% 0.8% 2.4%	12.9% 15.0% 14.4%	2.6% 0.8% 2.8%	8.5% 9.9% 11.1%	2.3% 0.7% 2.5%	15.4% 18.5% 17.6%	2.8% 0.9% 3.1%
East Lindsey Lincoln North Kesteven	32UC 32UD 32UE	0.8% x 0.7%	0.5% x 0.5%	0.7% x	0.5% x 0.6%	15.8% 15.8% 13.1%	2.1% 2.6% 2.0%	13.8% 13.9% 15.1%	1.8% 2.4% 2.1%	11.9% 11.6% 6.7%	1.9% 2.2% 1.5%	19.9% 21.6% 15.2%	2.1% 2.9% 2.1%
South Holland South Kesteven West Lindsey	32UF 32UG 32UH	3.8% 3.7% X	1.5% 1.1% X	1.3% 2.1% 1.0%	0.8% 0.8% 0.6%	9.0% 12.0% 16.3%	2.2% 1.8% 2.5%	17.3% 14.6% 16.5%	2.7% 1.9% 2.4%	6.5% 9.1% 12.5%	1.9% 1.6% 2.2%	23.5% 15.5% 18.7%	3.0% 2.0% 2.5%
Northamptonshire Corby Daventry	34 34UB 34UC	2.3% 1.6% 1.4%	0.4% 1.0% 0.8%	1.0% × ×	0.2% × ×	11.2% 12.4% 11.3%	0.7% 2.6% 2.2%	14.6% 16.7% 13.3%	0.8% 2.9% 2.3%	8.3% 9.0% 8.3%	0.7% 2.2% 1.9%	17.8% 19.9% 14.4%	0.9% 3.2% 2.4%
East Northamptonshire Kettering Northampton	34UD 34UE 34UF	1.7% 0.7% 3.3%	0.9% 0.5% 0.8%	1.0% 0.9% 1.0%	0.7% 0.6% 0.5%	11.4% 12.8% 11.2%	2.2% 2.1% 1.5%	13.2% 14.7% 15.3%	2.3% 2.2% 1.7%	7.5% 9.6% 8.6%	1.8% 1.8% 1.3%	17.3% 18.9% 19.0%	2.6% 2.5% 1.8%
South Northamptonshire Wellingborough Nottinghamshire	34UG 34UH 37	3.5% 2.2% 0.7%	1.1% 1.1% 0.2%	1.4% 1.5% 1.2%	0.7% 0.8% 0.3%	9.4% 10.4% 13.1%	1.7% 2.2% 0.8%	13.0% 16.0% 14.3%	2.0% 2.6% 0.8%	5.8% 9.7% 9.1%	1.4% 2.1% 0.7%	14.9% 19.9% 17.6%	2.1% 2.8% 0.9%
Ashfield Bassetlaw Broxtowe	37UB 37UC 37UD	1.1% x 1.2%	0.6% x 0.7%	1.2% 0.6% 1.5%	0.7% 0.5% 0.8%	12.7% 14.5% 12.6%	2.0% 2.2% 2.2%	13.3% 13.3% 14.9%	2.0% 2.0% 2.2%	9.9% 10.5% 7.7%	1.8% 1.9% 1.8%	20.8% 19.2% 16.9%	2.4% 2.3% 2.3%
Gedling Mansfield Newark and Sherwood	37UE 37UF 37UG	x 0.9% 0.7%	x 0.6% 0.5%	1.3% 1.8% 0.8%	0.7% 0.8% 0.5%	12.4% 13.3% 15.1%	2.0% 2.1% 2.3%	15.0% 15.4% 15.4%	2.1% 2.3% 2.2%	9.3% 10.3% 8.7%	1.7% 1.8% 1.8%	14.8% 19.6% 17.4%	2.1% 2.5% 2.3%
Rushcliffe WEST MIDLANDS	37UJ	×	×	1.2%	0.7% 0.1%	11.4% 13.2%	1.8% 0.3%	12.9% 14.5%	2.0%	7.3%	1.5% 0.2%	14.5% 19.8%	2.1% 0.3%
Herefordshire, County of UA Shropshire UA Former districts of:	00GA 00GG	x 0.4%	x 0.3%	1.2% 0.8%	0.5%	14.7% 14.8%	1.8% 1.4%	13.7% 14.8%	1.7% 1.4%	9.0% 9.2%	1.4% 1.1%	18.9% 17.5%	1.9% 1.4%
Bridgnorth North Shropshire Oswestry	39UB 39UC 39UD	x x x	x x x	x x x	x x x	11.0% 17.1% 16.0%	2.9% 3.4% 3.8%	17.8% 15.3% 15.7%	3.5% 3.2% 3.9%	9.4% 10.6% 10.3%	2.7% 2.8% 3.2%	18.1% 19.3% 16.6%	3.5% 3.5% 4.0%
Shrewsbury and Atcham South Shropshire Stoke-on-Trent UA	39UE 39UF 00GL	× × 0.5%	× × 0.3%	1.0% × 1.9%	0.6% × 0.5%	14.9% 15.0% 13.5%	2.4% 4.0% 1.3%	12.7% 14.6% 14.4%	2.1% 3.4% 1.4%	7.7% 9.6% 12.0%	1.8% 3.3% 1.2%	15.3% 20.1% 21.8%	2.3% 3.9% 1.7%
Telford and Wrekin UA Staffordshire Cannock Chase	00GF 41 41UB	0.7% 0.7%	0.4% 0.2%	1.3% 1.2% 0.7%	0.5% 0.2%	16.6% 13.7% 14.7%	1.7% 0.7% 2.2%	15.3% 14.9% 15.3%	1.7% 0.8% 2.2%	11.7% 9.9% 9.4%	1.5% 0.6% 1.8%	18.8% 18.6% 21.7%	1.8% 0.8% 2.5%
East Staffordshire Lichfield Newcastle-under-Lyme	41UC 41UD 41UE	1.0% 0.8% 1.1%	0.6% 0.5% 0.6%	0.7% x 1.0%	0.5% x 0.5%	14.6% 11.9% 12.5%	2.0% 2.0% 2.0%	15.7% 13.7% 13.9%	2.1% 2.2% 1.9%	9.2% 8.9% 10.3%	1.6% 1.7% 1.8%	15.2% 18.2% 20.4%	2.0% 2.4% 2.2%
South Staffordshire Stafford Staffordshire Moorlands	41UF 41UG 41UH	x 0.8%	x 0.5%	1.5% 2.2% 1.7%	0.7% 0.8% 0.8%	12.8% 12.3% 16.2%	2.1% 1.8% 2.5%	15.4% 15.2% 14.0%	2.1% 2.1% 2.2%	13.0% 8.3% 9.6%	2.1% 1.5% 2.0%	20.0% 16.4% 17.8%	2.4% 2.1% 2.4%
Tamworth Warwickshire North Warwickshire	41UK 44 44UB	× 0.7%	× 0.2%	1.3% 1.3%	0.8%	15.5% 12.3% 16.2%	2.6% 0.9% 2.9%	16.5% 15.1% 18.5%	2.6% 2.6% 1.0% 2.9%	11.5% 7.5% 9.3%	2.3% 0.7% 2.3%	19.1% 19.1% 15.1% 17.3%	2.7% 2.7% 1.0% 2.8%
Nuneaton and Bedworth Rugby Stratford-on-Avon	44UC 44UD 44UE	1.1% 1.1% 0.5%	0.6% 0.7% 0.4%	x 1.8% 1.4%	x 0.9% 0.8%	13.3% 11.2% 9.9%	1.9% 2.0% 1.7%	15.5% 14.6% 12.4%	2.3% 2.1% 2.3% 2.2%	8.6% 7.3% 6.1%	1.5% 1.6% 1.4%	18.7% 13.0% 12.4%	2.3% 2.2% 2.2%
Warwick West Midlands (Met County) Birmingham	44UF 2E 00CN	x 1.7% 2.0%	0.4% x 0.1% 0.2%	1.3% 1.9% 2.4%	0.7% 0.2% 0.3%	12.1% 12.7% 11.9%	1.9% 0.4% 0.6%	15.2% 14.3% 14.5%	2.2% 2.2% 0.4% 0.6%	6.8% 6.8% 10.6% 10.8%	1.5% 0.3% 0.5%	14.0% 21.5% 21.6%	2.2% 2.2% 0.5% 0.7%
Coventry Dudley Sandwell	00CQ 00CR 00CS	1.0% 1.1% 2.1%	0.2%	1.2% 1.3% 1.4%	0.4%	12.8% 14.7% 13.3%	1.1% 1.2% 1.1%	15.5% 14.4% 14.4%	1.3% 1.2% 1.2%	10.6% 10.6% 9.0% 12.9%	1.1% 1.0% 1.1%	19.4% 20.8% 24.6%	1.4% 1.4% 1.4%
Solihuli Walsall Wolverhampton	00CT 00CU 00CW	0.6% 1.6% 2.0%	0.3%	1.7% 2.2% 1.7%	0.6% 0.5% 0.5%	12.5% 11.3% 14.5%	1.4% 1.1% 1.4%	14.4% 13.0% 13.3%	1.2% 1.5% 1.2% 1.3%	8.8% 9.3% 11.3%	1.2% 1.0% 1.2%	15.6% 21.9% 23.8%	1.6% 1.4% 1.6%
Worcestershire Bromsgrove Malvern Hills	47 47UB 47UC	0.5%	0.2%	0.9% 1.0% 1.2%	0.3% 0.7% 0.8%	14.0% 15.9% 14.6%	1.0% 2.4% 2.7%	14.4% 12.8% 15.7%	1.0% 2.3% 2.7%	9.4% 6.7% 7.9%	0.8% 1.6% 2.1%	16.5% 14.5%	1.0% 2.5% 2.6%
Redditch Worcester Wychavon	47UD 47UE 47UF	0.9%	0.7%	1.2% X 1.3%	0.0%	12.1% 14.2% 13.2%	2.3% 2.3% 2.1%	14.7% 14.4% 14.4%	2.5% 2.3% 2.1%	9.3% 9.3% 11.4%	2.0% 1.9%	17.5% 17.3% 15.7%	2.7% 2.5% 2.2%
Wyre Forest EAST OF ENGLAND	47UG	0.7%	0.6%	1.1%	0.7%	15.0%	2.4%	14.5%	2.4% 0.3%	11.2% 8.7%	2.1%	19.6%	2.7% 0.3%
Bedford UA Former district of: Bedford	00KB	0.7%	0.4%	0.9%	0.4%	13.8%	1.7%	14.2%		11.6%	1.6%	17.5%	1.8%
Central Bedfordshire UA Former districts of: Mid Bedfordshire	09UC	0.1%	0.4%	0.5%	0.3%	13.3% 13.7%	1.3% 1.8%	13.9% 14.1%	1.3%	7.3%	1.0%	16.0% 14.2%	1.4%
South Bedfordshire Luton UA Peterborough UA	09UE 00KA 00JA	x 1.0%	0.4%	0.7% 1.6% 1.3%	0.5% 0.5% 0.5%	13.0% 13.4% 13.8%	1.8% 1.3% 1.5%	13.6% 14.9% 14.3%	1.9% 1.9% 1.4%	7.7% 7.7% 12.7% 9.2%	1.5% 1.3% 1.2%	17.9% 21.3% 19.8%	2.1% 1.6% 1.8%
Southend-on-Sea UA Thurrock UA Cambridgeshire	005A 00KF 00KG 12	0.4%	0.4%	0.8%	0.5%	13.0% 12.1% 14.5% 12.8%	1.6% 1.6% 0.9%	13.6% 14.2% 14.8%	1.6% 1.6% 1.7% 0.9%	10.3% 11.3% 7.7%	1.2% 1.5% 1.5% 0.7%	19.5% 19.5% 20.8% 15.6%	1.0% 1.9% 2.0% 0.9%
Cambridge East Cambridgeshire Fenland	12UB 12UC 12UD	1.0%	0.6%	1.1% 1.2% 0.7%	0.7% 0.8% 0.5%	12.4% 13.5% 15.0%	2.1% 2.3% 2.4%	13.7% 15.0% 15.1%	2.4% 2.5% 2.2%	7.1% 8.5% 8.7%	1.7% 1.9% 1.9%	14.2% 15.5% 20.2%	2.4% 2.6% 2.5%
Huntingdonshire South Cambridgeshire Essex	12UE 12UG 22	0.6% × 1.1%	0.4% x 0.2%	0.6% 0.7% 1.3%	0.4%	12.7% 11.6% 12.1%	1.6% 1.6% 0.6%	15.1% 14.8% 13.7%	1.7% 1.9% 0.6%	8.1% 6.8% 8.2%	1.3% 1.3% 0.5%	16.1% 12.4% 16.0%	1.8% 1.7% 0.6%
Basildon Braintree Brentwood	22UB 22UC 22UD	1.1% 1.0% 0.9%	0.5%	0.9%	0.4%	12.2% 11.3% 11.6%	1.5% 1.8% 2.4%	12.0% 13.7% 16.8%	1.5% 1.9% 2.7%	9.0% 7.0% 9.0%	1.3% 1.4% 2.1%	16.8% 15.8% 10.9%	1.7% 2.0% 2.3%
Castle Point Chelmsford Colchester	22UE 22UF 22UG	0.8% 1.5% 0.8%	0.6%	0.9% 2.2% 0.8%	0.6%	13.2% 8.8% 13.2%	2.4% 1.5% 1.6%	14.2% 13.2% 14.0%	2.4% 1.8% 1.7%	8.7% 6.4% 8.5%	2.0% 1.3% 1.3%	16.0% 14.8% 16.2%	2.5% 1.9% 1.8%
Epping Forest Harlow Maldon	22UH 22UJ 22UJ 22UK	0.8%	0.6%	1.1% 0.8% 2.9%	0.6%	12.5% 15.5% 9.7%	2.0% 2.4% 2.8%	14.6% 15.4% 11.8%	2.1% 2.4% 2.9%	8.8% 11.0% 4.7%	1.7% 2.0% 2.0%	17.8% 21.7% 13.8%	2.3% 2.7% 3.1%
Rochford Tendring Uttlesford	22UL 22UN 22UQ	x 2.1% 1.3%	x 0.8% 0.8%	1.3% 1.3% 1.0%	0.7% 0.6% 0.7%	13.5% 11.5% 12.3%	2.4% 1.8% 2.4%	13.3% 13.9% 12.5%	2.2% 1.9% 2.4%	8.3% 9.6% 5.6%	1.9% 1.7% 1.6%	17.3% 15.6% 12.4%	2.5% 2.0% 2.4%
Hertfordshire Broxbourne Dacorum	26 26UB 26UC	0.9% x 0.4%	0.2% x 0.3%	1.3% 2.0% 1.0%	0.9% 0.5%	13.4% 13.3% 14.0%	0.6% 2.1% 1.8%	14.0% 14.0% 14.7%	0.7% 2.3% 1.9%	8.2% 9.6% 8.5%	0.5% 1.9% 1.5%	14.8% 18.8% 17.0%	0.7% 2.6% 2.0%
East Hertfordshire Hertsmere North Hertfordshire	26UC 26UD 26UE 26UF	1.4% 1.0% 0.5%	0.3% 0.6% 0.7% 0.4%	1.0% 1.3% 1.1% 1.2%	0.5%	14.6% 14.6% 14.6%	1.6% 1.6% 2.4% 1.9%	14.7% 13.8% 14.3% 14.1%	1.8% 1.8% 2.3% 1.9%	6.7% 6.7% 8.0% 7.6%	1.3% 1.3% 1.9% 1.4%	17.0% 14.0% 15.9% 12.2%	2.0% 1.8% 2.4% 1.8%
St Albans Stevenage Three Rivers	26UF 26UG 26UH 26UJ	0.3% 0.9% 0.9%	0.4 % 0.5% 0.6%	0.9% 1.4% 1.9%	0.8%	14.8% 13.4% 14.8% 13.2%	1.8% 2.4% 2.3%	14.1% 12.9% 14.9% 15.9%	1.8% 2.4% 2.6%	6.2% 11.4% 6.8%	1.4% 1.3% 2.2% 1.7%	12.2% 11.4% 14.1% 12.8%	1.8% 1.7% 2.3% 2.3%
Watford Welwyn Hatfield Norfolk	2605 26UK 26UL 33	1.7% 1.0% 0.5%	0.8% 0.6% 0.2%	2.0% 1.1% 1.2%	1.0% 0.6% 0.2%	13.2% 12.1% 13.5% 13.7%	2.3% 2.1% 2.2% 0.8%	14.3% 14.5% 14.5%	2.0% 2.5% 2.1% 0.8%	10.3% 8.5% 8.9%	2.0% 1.8% 0.7%	12.8% 16.9% 17.5% 18.0%	2.3% 2.6% 2.3% 0.9%
Breckland Broadland Great Yarmouth	33UB 33UC 33UD	X	X	0.6% 1.5% 1.6%	0.5% 0.7% 0.8%	12.4% 13.9% 14.7%	2.0% 2.2%	14.3% 14.3% 15.2% 14.5%	2.1% 2.0% 2.2%	8.6% 7.8% 10.0%	1.7% 1.5% 1.9%	19.3% 14.0% 19.1%	2.3% 1.9% 2.4%
King's Lynn and West Norfolk North Norfolk Norwich	33UE 33UF	x 0.6% x 0.7%	x 0.4% x 0.5%	1.6% 1.5% 0.8% 1.2%	0.8%	14.7% 13.9% 12.6% 14.9%	2.2% 1.9% 2.5% 2.2%	14.5% 14.2% 14.6% 13.9%	2.2% 1.9% 2.5% 2.3%	10.0% 10.4% 7.9% 9.3%	1.9% 1.6% 2.0% 1.8%	19.1% 20.6% 19.5% 19.8%	2.4% 2.1% 2.8% 2.7%
Norwich South Norfolk Suffolk Baberoh	33UG 33UH 42 42UB	0.7%	0.5%	1.2% 0.9% 1.4% 1.4%	0.7% 0.6% 0.3% 0.8%	14.9% 13.6% 12.9% 15.6%	2.2% 2.1% 0.8% 2.5%	13.9% 14.8% 13.2%	2.3% 2.1% 0.8% 2.5%	9.3% 8.2% 8.3% 8.1%	1.8% 1.7% 0.7% 1.9%	19.8% 14.8% 15.2% 13.0%	2.1% 2.1% 0.9% 2.4%
Forest Heath Ipswich Mid Suffolk	42UB 42UC 42UD 42UE	x x 1.5% 2.5%	x 0.6% 1.0%	1.4% X 2.1% 1.8%	0.8% X 0.8%	10.7% 10.7% 11.4% 11.7%	2.5% 3.0% 1.7% 2.1%	13.2% 17.0% 12.3% 13.9%	2.5% 3.6% 1.8% 2.2%	8.1% 10.2% 8.2% 7.6%	1.9% 3.0% 1.4% 1.7%	15.0% 16.7% 15.7% 11.8%	2.4% 3.6% 2.0% 2.1%
	2 U L	2.5%	0.5%	1.0 %		11.7%	2.170	13.9%	2.2%	8.7%	1.7%	16.8%	2.1%

No Note of the set of the			Under	weight			Overv	veight			Ob	ese		
AndCarbonCarbonPartnerCarbonPartnerCarbonPartnerCarbonPartnerPartne			Recep	ption			Rece	otion			Rece	ption		r 6 95%
SASE H 105	Area	Cada	Bravalance	confidence	Brouslance	confidence	Dravalance	confidence	Bravalance	confidence	Brouslance	confidence	Brouslance	confidence interval ±
Internate Segment Date Date <thdate< th=""> Date Date</thdate<>														
Junc (b) (b) <td>Barking and Dagenham</td> <td>00AB</td> <td>1.0%</td> <td>0.4%</td> <td>1.2%</td> <td>0.5%</td> <td>14.7%</td> <td>1.5%</td> <td>16.1%</td> <td>1.6%</td> <td>12.1%</td> <td>1.3%</td> <td>24.2%</td> <td>0.3% 1.9%</td>	Barking and Dagenham	00AB	1.0%	0.4%	1.2%	0.5%	14.7%	1.5%	16.1%	1.6%	12.1%	1.3%	24.2%	0.3% 1.9%
Domin Dod DA DA <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.4% 1.6%</td></th<>														1.4% 1.6%
Coron DOG D.7 D.7 <thd.7< th=""> <thd.7< td="" th<=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.6%</td></thd.7<></thd.7<>														1.6%
Enc. Obs. Obs. <t< td=""><td>Camden</td><td>00AG</td><td>1.7%</td><td>0.7%</td><td>1.6%</td><td>0.7%</td><td>11.3%</td><td>1.6%</td><td>16.6%</td><td>2.1%</td><td>11.6%</td><td>1.6%</td><td>20.1%</td><td>2.2%</td></t<>	Camden	00AG	1.7%	0.7%	1.6%	0.7%	11.3%	1.6%	16.6%	2.1%	11.6%	1.6%	20.1%	2.2%
Construct Biol	Ealing	00AJ	1.4%	0.4%	2.0%	0.5%	12.5%	1.1%	14.4%	1.2%	12.1%	1.1%	21.9%	1.4% 1.4%
Incomment and Fuham (b)				0.3%		0.4%				1.4%				1.4% 1.6%
Terrog DP DP <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.8%</td></th<>														1.8%
Inscription Op/En	Haringey	00AP	1.2%	0.4%	1.1%	0.4%	12.2%	1.2%	15.8%	1.4%	11.8%	1.2%	20.7%	1.6% 1.6%
Incontin Both 205 205 1	Havering	00AR	0.8%	0.3%	1.4%	0.5%	14.9%	1.4%	14.7%	1.4%	10.7%	1.2%	17.6%	1.5%
International Control OVA 15 15 15 16 16 15 16<	Hounslow	00AT	2.0%	0.5%	1.5%	0.5%	13.1%	1.3%	15.4%	1.5%	12.1%	1.3%	23.5%	1.5% 1.8%
Lanch GoV 138 0 FN 128 145 138 155 148 135 155 145 155<			0.8% x	0.4% x										2.1%
Lessam GOZ DTA DTA <thdta< th=""> <thdta< t<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.0%</td></thdta<></thdta<>														2.0%
Interact 000 220 0.55 2.16 0.55 0.05 1.15 1.46 1.15 1.42 1.15 2.45 Suthary 0.18 0.15 0.45 0.15 <	Lewisham	00AZ	0.7%	0.3%	1.0%	0.4%	13.2%	1.2%	15.2%	1.4%	12.0%	1.2%	22.1%	1.6%
Referenci gas Tanas Statu Statu <td>Newham</td> <td>00BB</td> <td>2.2%</td> <td>0.5%</td> <td>2.1%</td> <td>0.5%</td> <td>12.0%</td> <td>1.1%</td> <td>14.6%</td> <td>1.2%</td> <td>14.2%</td> <td>1.1%</td> <td>24.6%</td> <td>2.0% 1.4%</td>	Newham	00BB	2.2%	0.5%	2.1%	0.5%	12.0%	1.1%	14.6%	1.2%	14.2%	1.1%	24.6%	2.0% 1.4%
Status Oise Oise <thoise< th=""> Oise Oise <t< td=""><td>Richmond upon Thames</td><td>00BD</td><td>0.7%</td><td>0.4%</td><td>1.3%</td><td>0.6%</td><td>11.2%</td><td>1.4%</td><td>12.2%</td><td>1.6%</td><td>5.9%</td><td>1.1%</td><td>11.7%</td><td>1.5% 1.6%</td></t<></thoise<>	Richmond upon Thames	00BD	0.7%	0.4%	1.3%	0.6%	11.2%	1.4%	12.2%	1.6%	5.9%	1.1%	11.7%	1.5% 1.6%
Tore travels OSG 175 C.S. 278 1.24 125 125 126 1375 1.65 136 1375 135														1.8% 1.8%
Watchmidt Obd. 105 0.64 106 0.75 <th0.75< th=""> 0.75 0.75 <</th0.75<>	Tower Hamlets	00BG	1.7%	0.5%	2.7%	0.6%	10.5%	1.2%	13.7%	1.4%	13.4%	1.3%	25.7%	1.7%
Description J State Description Description <thdescriptio< td=""><td>Wandsworth</td><td>00BJ</td><td>1.0%</td><td>0.4%</td><td>1.6%</td><td>0.6%</td><td>10.9%</td><td>1.3%</td><td>15.4%</td><td>1.6%</td><td>10.2%</td><td>1.3%</td><td>20.0%</td><td>1.8%</td></thdescriptio<>	Wandsworth	00BJ	1.0%	0.4%	1.6%	0.6%	10.9%	1.3%	15.4%	1.6%	10.2%	1.3%	20.0%	1.8%
Brackend Forest UA 094A 0.976 0.976 0.976 0.1468 2.166 0.576 1.776 1.468 1.66 1.676		UUBK												2.4%
Brightman and Nore VIA Obit O 376 O 376 <tho 376<="" th=""> O 376 O 376<!--</td--><td></td><td>J 00MA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.3%</td></tho>		J 00MA												0.3%
Hedrox UA OHO 0.4% 0.7% 0.3% 13.5% 14.8% 14.8% 14.8% Minon Keynes UA OMO 0.5% </td <td>Brighton and Hove UA</td> <td>00ML</td> <td>0.6%</td> <td>0.3%</td> <td>1.5%</td> <td>0.5%</td> <td>13.7%</td> <td>1.4%</td> <td>15.2%</td> <td>1.6%</td> <td>8.9%</td> <td>1.2%</td> <td>16.4%</td> <td>1.6%</td>	Brighton and Hove UA	00ML	0.6%	0.3%	1.5%	0.5%	13.7%	1.4%	15.2%	1.6%	8.9%	1.2%	16.4%	1.6%
Pertsmaph UA 0406 0.5% 0.5% 0.5% 0.5% 1.5%	Medway UA	00LC	0.9%	0.4%	0.7%	0.3%	13.5%	1.3%	14.6%	1.3%	11.8%	1.2%	19.4%	1.5%
Storgh JA OMD 4.1% 1.1% 2.2% O.9% 11.6% 1.1% 1.9% 1.1% 1.9% 1.1% 1.9% 1.1% 1.9% 1.1% 1.9% 1.1% 1.9% 1.1% 1.9% 1.1% 1.9% 1.2% 1.9% 1.2% <th1.2%< th=""> 1.2%</th1.2%<>	Portsmouth UA	00MR	0.6%	0.3%	0.5%	0.3%	15.4%	1.6%	15.3%	1.7%	12.5%	1.5%	21.4%	1.5% 1.9%
West Berkahre UA 0048 0.7% 0.4% 0.9% 0.2% 1.2% 1.4% 1.8% 8.7% 1.4% 1.5% 0.9% 0.5% <th0.5%< th=""> 0.5% 0.5%</th0.5%<>														2.2% 2.1%
Windsrahm UA OMF 1.5% 0.7% 1.2% 0.9% 9.5% 1.6% 1.5% 1.5% 1.4% 1.1% 0.5% 1.6% 0.5% 1.6% 0.5% 1.5% 1.6% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% 1.5% 0.5% <th0.5%< th=""> 0.5% <th0.5%< th=""></th0.5%<></th0.5%<>														1.7% 1.9%
Buckinghamahre 11 228 0.4% 1.7% 0.4% 0.8% 1.3% 1.6% 7.6% 0.7% 1.42% Chilem 1100 0.5% 0.5% 1.0% 0.6% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 0.5% 1.0% 1.0% 0.5% 1.0% 0.5% 1.0%	Windsor and Maidenhead UA	00ME	1.5%	0.7%	1.2%	0.6%	9.6%	1.6%	13.5%	2.0%	6.5%	1.4%	13.5%	2.0%
Chilem 11UC 0.9% 0.6% 1.0% 0.0% 11% 11.3% 2.2% 7.6% 11.3% 2.2% 7.6% 11.3% 2.2% 2.6% 2.6% 1.0% 1.1%	Buckinghamshire	11	2.3%	0.4%	1.7%	0.4%	9.6%	0.8%	13.0%	1.0%	7.4%	0.7%	14.2%	1.0%
Wycone 11UF 2.8% 0.7% 9.7% 1.4% 1.4% 0.6% 1.2% 1.4% 0.8% 1.2% 1.4% 0.8% 1.2% 1.4% 0.8% 0.9% 1.4% 0.2% 1.2% 0.9% 1.4% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.2% 1.2% 0.2% 1.2% 0.2% 1.2% 0.2% 1.2% 0.2% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.7% 1.2% 0.6% 0.6% 0.6% 0.5% 1.2% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% <th0.6%< th=""> 0.6% 0.6% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>10.4%</td><td>2.1%</td><td></td><td>2.2%</td><td>7.6%</td><td>1.8%</td><td>13.7%</td><td>1.6% 2.2%</td></t<></th0.6%<>							10.4%	2.1%		2.2%	7.6%	1.8%	13.7%	1.6% 2.2%
East Sussex 21 1.4% 0.4% 1.2% 1.0% 1.3% 0.2% 1.4% Eastbourne 21UC x x 1.7% 0.9% 14.3% 2.3% 1.3% 0.2% 1.5% Hestings 21UF 1.7% 0.9% 1.7% 0.2% 1.4% 2.5% 2.4% 8.4% 2.0% 1.44% Robren 21UG 3.2% 0.2% 0.7% 1.1% 0.2% 1.4% 2.4% 1.6% 0.5% 2.4% 0.5% 2.0% 1.6% 0.5% 1.2% 1.6% 1.3% 0.5% 1.2% 1.6% 1.3% 0.5% 1.2% 1.6% 1.3% 0.5% 1.2% 1.0% 1.4% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.6% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5%			x 2.8%	x 0.8%	X 2.4%	x 0.7%								3.1%
Hasings 21UD 1.9% 1.0% 1.1% 0.7% 1.1% 2.3% 1.4.8% 2.4% 1.4% 0.2% 1.3% 0.4% 1.3% 0.4% 1.3% 0.4% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5% 1.2% 1.5%	East Sussex	21			1.5%	0.4%	12.7%	1.0%	13.6%	1.0%	8.2%	0.8%	14.5%	1.0% 2.4%
Roher 21/06 3.2% 1.3% 0.9% 0.7% 13.2% 10.4% 2.2% 14.0% 2.5% 8.5% 2.0% 15.4% Weadson 21/04 0.9% 0.2% 1.1% 0.0% 13.3% 0.6% 8.5% 1.6% 1.5% 1.7% 1.1% 1.4% 1.7% 1.1% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.7% 1.4% 1.2% 1.2% 1.2% 1.7% 1.4% 1.2% 1.2% 1.7% 1.4% 1.2% 1.2% 1.7% 1.3% 0.5% 1.2% 1.2% 1.2% 1.7% 1.3% 1.2%	Hastings	21UD			1.1%	0.7%	11.7%	2.3%	14.8%	2.4%	8.4%	2.0%	14.0%	2.4%
Hampshire 24 0.9% 0.2% 1.1% 0.2% 1.3% 0.6% 1.3% 0.6% 1.5% 1.7% Basingsbke an Deane 24UC x x 1.3% 0.7% 1.2% 1.5% 1.2% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.1% 1.5% 7.5% 1.2% 1.5% 7.5% 1.5%	Rother	21UG	3.2%	1.3%	0.9%	0.7%	10.4%	2.2%	14.0%	2.5%	8.5%	2.0%	15.4%	2.6% 2.6%
Eastlampshre 24UC x 1.3% 0.7% 12.0% 1.2% 1.9% 7.9% 1.7% 14.7% Eastlegh 24UE x 0.5% 0.6% 1.2% 1.3% 0.2% 1.3% 0.2% 1.3% 0.2% 1.3% 0.2% 1.3% 0.2% 1.3% 0.2% 1.3% 0.2% 1.3% 1.0% 1.3% 1.3% 0.2% 1.3% 0.2% 1.1% 1.3% 0.2% 1.1% 1.3% 0.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.2% 1.2% 1.2% 1.2%														1.8% 0.6%
Eastlegh 24/UD 21% 0.9% 1.3% 0.0% 12.0% 1.9% 12.5% 1.8% 9.2% 1.7% 13.8% Gosport 24/UF x x 0.0% 0.0% 15.8% 2.0% 11.9% 2.0% 11.9% 2.0% 11.9% 2.2% 11.8% 0.0% 11.9% 1.0% 0.0% 1.0%			0.8%	0.5% x										1.8%
Gosport 24UF x x 0.8% 10.8% 15.8% 2.6% 11.0% 2.2% 11.88 Hart 24UH x x 10% 0.6% 12.8% 2.1% 11.9% 2.1% 11.9% 2.1% 11.9% 1.2% 1.9% 1.6% 1.2% 1.1%	Eastleigh	24UD	2.1%	0.9%	1.3%	0.6%	12.0%	1.9%	12.5%		9.2%	1.7%	13.9%	1.9%
Havart 24UH x 1.0% 0.0% 14.6% 2.1% 13.8% 2.1% 11.2% 1.9% 16.2% New Forest 24UL 0.9% 0.6% 1.0% 7.0% 1.3% 16.1% Rushmoor 24UN 0.9% 0.6% 1.0% 7.2% 1.3.8% 2.3% 1.3.8% 2.3% 7.8% 1.7% 2.0.8% Winchester 24UP 1.1% 0.7% 1.0% 0.2% 14.2% 2.2% 8.5% 1.8% 1.2% Kent 29 0.5% 0.6% 0.4% 13.3% 0.6% 4.4.9% 0.6% 9.2% 1.7% 16.0% Canterbury 29UC x x 0.1% 0.6% 14.4% 2.1% 1.3% 7.6% 1.6% 1.6% 1.4% 2.1% 1.3% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% </td <td>Gosport</td> <td>24UF</td> <td>X</td> <td>x</td> <td>0.8%</td> <td>0.6%</td> <td>15.8%</td> <td>2.5%</td> <td>15.7%</td> <td>2.6%</td> <td>11.0%</td> <td>2.2%</td> <td>18.8%</td> <td>2.7%</td>	Gosport	24UF	X	x	0.8%	0.6%	15.8%	2.5%	15.7%	2.6%	11.0%	2.2%	18.8%	2.7%
Rushmoor 24UL 0.9% 0.6% 1.0% 0.7% 15.5% 2.3% 13.8% 2.3% 7.8% 1.7% 20.8% Winchester 24UP 1.1% 0.7% 0.6% 10.8% 2.0% 14.2% 2.2% 8.5% 1.6% 15.0% Kent 29 0.5% 0.1% 1.0% 0.2% 14.0% 0.6% 9.0% 9.2% 1.6% 12.0% Canterbury 29UC x 1.1% 0.6% 13.3% 2.0% 14.2% 2.2% 1.5% 1.6% 16.4% 15.3% 1.9% 6.6% 13.7% 2.5% 9.5% 1.6% 19.3% Dartord 29UD x x 1.1% 0.6% 13.7% 2.2% 17.6% 2.6% 1.6% 1.6% 2.2% 17.6% 2.6% 1.6% 1.6% 2.6% 1.6% 1.6% 2.6% 1.6% 1.6% 2.6% 1.6% 1.6% 2.6% 1.6% 2.6% 1.6% 1.6% <td></td> <td>24UH</td> <td>x</td> <td>x</td> <td>1.0%</td> <td></td> <td></td> <td>2.1%</td> <td></td> <td>2.1%</td> <td>11.2%</td> <td>1.9%</td> <td>16.2%</td> <td>2.1% 2.2%</td>		24UH	x	x	1.0%			2.1%		2.1%	11.2%	1.9%	16.2%	2.1% 2.2%
Test Valley 24UP 0.6% 0.7% 0.5% 13.8% 2.0% 12.6% 1.9% 8.8% 1.6% 15.0% Winchester 24UP 1.1% 0.7% 1.0% 0.6% 10.8% 2.0% 14.2% 2.2% 8.8% 1.6% 17.5% Ashford 29UB 0.7% 0.5% 0.6% 0.4% 13.3% 2.0% 14.2% 2.2% 8.8% 1.1% 1.6% 14.4% 2.1% 1.3% 1.7% 1.6% 14.4% 2.1% 1.3% 1.5% 0.7% 1.5% 0.6% 1.3% 2.0% 1.4% 2.0% 1.5% 0.7% 1.5% 0.7% 1.5% 2.5% 1.5% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.7% 1.5% 0.5% 0.1% 0.5% 0														1.8% 2.7%
Kent 29 0.5% 0.1% 1.0% 0.2% 14.0% 0.6% 14.2% 0.0% 0.5% 0.5% 0.6% 14.2% 2.0% 9.0% 0.5% 1.1% 0.6% 14.4% 2.1% 13.3% 1.9% 7.6% 1.60% Canterbury 29UC x x 0.9% 0.6% 13.3% 2.0% 1.2% 2.0% 9.2% 1.6% 10.0% Dartord 29UE x x 0.5% 0.7% 15.1% 2.4% 14.2% 2.1% 8.7% 1.9% 16.6% Gravesham 29UE x x 1.5% 0.7% 15.0% 2.2% 17.0% 2.4% 10.6% 1.9% 16.6% 17.7% 15.0% 2.1% 8.7% 1.9% 15.6% 2.3% 8.4% 1.7% 12.4% 14.4% 1.9% 15.6% 2.3% 8.4% 1.7% 12.5% 2.2% 14.3% 2.1% 8.4% 1.9% 15.7% 2.1% 1.3%	Test Valley	24UN	0.6%	0.4%	0.7%	0.5%	13.5%	2.0%	12.6%	1.9%	8.5%	1.6%	15.0%	2.1% 2.1%
Canterbury (29UC) x x (11%) 0.6% 14.4% (21%) (13.3%) (1.9%) 7.6% 1.6% (19.3%) Dartford 29UD x x 0.9% 0.6% 13.7% 2.2% 17.5% 2.5% 9.5% 1.6% 20% 1.7% 2.2% 17.5% 2.2% 1.9% 1.6% 2.4% 1.42% 2.1% 1.5% 2.2% 1.7.0% 2.4% 1.0.6% 1.9% 1.6.% 2.4% 1.6.% 2.4% 1.0.6% 1.9% 1.6.% 1.5% 1.5% 1.9% 1.6.% 1.5% 1.5% 1.9% 1.6.% 1.5% 1.5% 1.9% 1.6.% 1.5% 1.5% 1.9% 1.9% 1.6.% 1.5% <	Kent	29	0.5%	0.1%	1.0%	0.2%	14.0%	0.6%	14.9%	0.6%	9.0%	0.5%	17.5%	0.6%
Dover 29UE x x 1.5% 0.7% 15.1% 2.4% 14.2% 2.1% 8.7% 1.9% 16.6% Gravesham 29UG 0.7% 0.5% 12% 0.7% 15.0% 2.2% 17.0% 2.4% 10.8% 19% 10.3% 1.6% 15.7% Maidstone 29UH x x 0.8% 0.5% 16.7% 2.0% 15.8% 1.9% 10.3% 1.6% 15.7% Sevenoaks 29UK x x x x 1.4% 1.9% 10.3% 8.4% 1.7% 13.3% Shepway 29UL x x 1.5% 0.7% 12.5% 2.2% 14.3% 2.1% 8.4% 1.9% 18.0% Swale 29UN 0.7% 0.4% 1.6% 0.5% 13.3% 1.8% 1.9% 1.5% 1.6% 16.5% Tonbridge and Maling 29UN 0.5% 0.5% 0.5% 12.1% 1.8% 1.5%	Canterbury	29UC	x	0.5% X	1.1%	0.6%	14.4%	2.1%	13.3%	1.9%	7.6%	1.6%	19.3%	2.1% 2.2%
Gravesham 29UG 0.7% 0.5% 1.2% 0.7% 15.0% 2.2% 17.0% 2.4% 10.0% 1.9% 21.4% Maidstone 29UH x x 0.8% 0.5% 16.7% 2.0% 15.6% 1.9% 10.3% 16.7% 13.9% Sheyençaks 29UK x x x x 1.4% 1.9% 15.6% 2.3% 8.4% 1.7% 13.9% Swale 29UM x x 1.5% 0.7% 12.5% 2.2% 14.3% 1.1% 8.4% 1.9% 16.5% Swale 29UN x x 1.0% 0.5% 1.33% 2.1% 15.2% 1.9% 7.9% 16.6% Tonbridge and Maling 29UP 0.9% 0.5% 0.3% 12.1% 13.5% 2.1% 10.3% 1.8% 18.0% 10.5% 13.5% 2.1% 10.3% 1.8% 18.0% 0.5% 12.3% 1.8% 1.5% 0.5% 1.5% </td <td></td> <td></td> <td>x</td> <td>X</td> <td>1.5%</td> <td>0.7%</td> <td>15.1%</td> <td>2.4%</td> <td>14.2%</td> <td></td> <td>8.7%</td> <td>1.9%</td> <td>16.6%</td> <td>2.6%</td>			x	X	1.5%	0.7%	15.1%	2.4%	14.2%		8.7%	1.9%	16.6%	2.6%
Sevenceks 29UK x< x< x<	Gravesham	29UG	0.7% ×	0.5% x	1.2%		15.0%	2.2%	17.0%	2.4%	10.6%		21.4%	2.6% 1.9%
Swale 29UM 0.7% 0.4% 1.8% 0.6% 14.6% 1.9% 13.8% 1.8% 8.9% 1.5% 16.6% Thanet 29UN x x 1.0% 0.5% 13.3% 2.1% 15.2% 1.9% 7.9% 1.6% 18.8% Tonbridge and Malling 29UP 0.9% 0.5% 0.5% 12.1% 15.2% 1.9% 7.9% 1.6% 18.7% Tunbridge Wells 29UQ x x x x 14.7% 2.2% 13.5% 2.1% 10.3% 1.8% 18.8% 10.8% 0.9% 0.5% 0.8% 0.7% 13.2% 1.7% 10.3% 1.8% 18.8% 0.9% 1.6% 0.7% 13.2% 1.7% 13.5% 1.8% 7.9% 14.4% 16.4% 0.4% 16.4% 0.5% 1.8% 0.9% 1.4% 16.4% 0.5% 13.5% 1.9% 1.9% 1.7% 19.0% 1.5% 15.5% 15.5% 16.5% 2.2%	Sevenoaks	29UK		x	X	x	11.4%	1.9%	15.6%	2.3%	8.4%	1.7%	13.9%	2.2%
Tonbridge and Malling 29UP 0.9% 0.5% 0.8% 0.5% 12.1% 1.8% 15.7% 2.0% 8.4% 1.5% 17.0% Tunbridge Wells 29UQ x x x x 14.7% 2.2% 13.5% 2.1% 10.3% 18% 18% 16.8% Oxtordshire 38 0.5% 0.2% 1.2% 0.3% 14.5% 0.9% 6.6% 0.7% 15.8% Oktordshire 38UB 1.0% 0.5% 1.6% 0.7% 13.2% 1.7% 13.5% 7.9% 1.4% 16.4% Oxford 38UD x 1.0% 0.6% 13.0% 1.8% 14.2% 1.9% 7.3% 1.4% 14.0% Vale of White Horse 38UE x 0.7% 0.5% 13.5% 1.9% 13.9% 2.2% 7.3% 1.5% 15.2% West Oxfordshire 38UE x 0.9% 0.6% 2.0% 1.3% 0.7% 16.4% 2.3%	Swale	29UM			1.6%	0.6%	14.6%	1.9%	13.8%	1.8%	8.9%	1.5%	16.5%	1.9%
Oxfordshire 38 0.5% 0.2% 1.2% 0.3% 14.5% 0.9% 14.3% 0.9% 8.6% 0.7% 15.8% Cherwell 38UB 10% 0.5% 16% 0.7% 13.2% 17% 13.5% 1.8% 7.9% 1.6% 1.7% 19.0% Oxford 38UC 0.7% 0.5% 1.5% 0.8% 13.4% 2.0% 14.1% 2.2% 9.4% 1.7% 19.0% South Oxfordshire 38UD x 1.0% 0.6% 13.0% 1.8% 14.2% 1.9% 7.3% 1.4% 14.0% Vale of White Horse 38UF x 0.7% 0.5% 1.3% 1.9% 2.2% 7.3% 1.5% 15.5% Surrey 43 0.6% 0.2% 1.3% 0.7% 1.0% 0.7% 0.5% 1.3% 0.7% 0.5% 1.3% 0.7% 0.6% 1.3% 0.7% 1.0% 0.5% 1.3% 0.7% 0.5% 0.5%	Tonbridge and Malling	29UP	x 0.9%	x 0.5%			12.1%	1.8%	15.7%	2.0%	8.4%	1.5%	17.0%	2.1%
Cherwell 38UB 1.0% 0.5% 1.8% 0.7% 13.2% 1.7% 13.5% 1.8% 7.9% 1.4% 16.4% Oxford 38UC 0.7% 0.5% 1.5% 0.8% 13.4% 2.0% 14.1% 2.2% 9.4% 1.9% 1.9% 1.9% 1.4% 16.4% South Oxfordshire 38UD x x 1.0% 0.6% 13.0% 1.8% 14.2% 1.9% 7.3% 1.4% 14.0% Vale of White Horse 38UE x x 0.7% 0.5% 13.5% 1.9% 13.9% 2.2% 7.3% 1.5% 15.2% West Oxfordshire 38UE x 0.7% 0.6% 13.5% 1.9% 13.9% 2.2% 7.3% 15.2% Surrey 43 0.6% 0.2% 1.3% 0.7% 14.0% 0.7% 7.5% 0.5% 14.3% Epsom and Ewell 43UD 0.6% 0.2% 1.2% 2.3% 6.9% 1.	Oxfordshire	38					14.5%	0.9%	14.3%	0.9%	8.6%	0.7%	15.8%	2.4% 1.0%
South Oxfordshire 38UD x 1.0% 0.6% 13.0% 1.8% 14.2% 1.9% 7.3% 1.4% 14.0% Vale of While Horse 38UE x 0.7% 0.5% 13.5% 1.9% 13.9% 2.2% 7.3% 1.4% 14.0% West Oxfordshire 38UF x 0.9% 0.6% 20.5% 2.4% 16.4% 2.3% 12.0% 2.0% 15.2% Surrey 43 0.6% 0.2% 13.3% 0.2% 13.1% 0.7% 14.0% 0.5% 14.3% Elmbridge 43UB x x 10% 0.6% 2.1% 15.0% 2.3% 6.9% 16.3% 14.3% Epson and Evell 43UC 1.0% 0.7% 2.2% 1.2% 11.2% 2.3% 12.7% 2.6% 6.3% 1.8% 13.0% 13.0% 12.7% 2.6% 6.3% 1.8% 13.0% 13.0% 12.7% 2.6% 6.3% 1.8% 13.0% 12.3%	Cherwell	38UB	1.0%	0.5%	1.6%	0.7%	13.2%	1.7%	13.5%	1.8%	7.9%	1.4%	16.4%	2.0% 2.5%
West Oxfordshire 38UF x 0.9% 0.6% 20.5% 2.4% 16.4% 2.3% 12.0% 2.0% 15.2% Surrey 43 0.6% 0.2% 13.1% 0.7% 14.0% 0.7% 7.5% 0.5% 14.3% Elmbridge 43UB x x 1.0% 0.6% 13.1% 0.7% 14.0% 0.7% 7.5% 0.5% 14.3% Elmbridge 43UC 1.0% 0.7% 2.2% 13.1% 0.7% 12.0% 6.9% 1.6% 14.5% Enboridge 43UC 1.0% 0.7% 2.2% 1.2% 1.2% 2.3% 12.7% 2.6% 6.3% 1.8% 13.0% Guidford 43UD 0.6% 0.4% x x 15.1% 2.1% 15.3% 2.1% 9.0% 1.6% 14.1% Mole Valley 43UE x 1.2% 0.8% 1.3% 1.9% 14.0% 2.0% 7.3% 1.4% 15.1%	South Oxfordshire	38UD	x	x	1.0%	0.6%	13.0%	1.8%	14.2%	1.9%	7.3%	1.4%	14.0%	1.9%
Elmbridge 43UB x 1.0% 0.6% 13.6% 2.1% 15.0% 2.3% 6.9% 1.6% 14.8% Epsom and Ewell 43UC 1.0% 0.7% 2.2% 1.12% 2.3% 12.7% 12.7% 12.7% 13.6% 14.7% 13.6% 12.7% 12.7% 12.7% 13.6% 14.7% 15.7% 14.7% 14.7% 15.7% 14.7% 15.7% 14.7% 15.7% 14.7% 15.7% 14.7% 15.7% 14.7% 14.7% 15.7% 14.7% 14.7% 14.7% 14.7% 14.7% 14.7%	West Oxfordshire	38UF	x	x	0.9%	0.6%	20.5%	2.4%	16.4%	2.3%	12.0%	2.0%	15.2%	2.2%
Epsom and Ewell 43UC 1.0% 0.7% 2.2% 1.2% 11.2% 2.3% 12.7% 2.6% 6.3% 1.8% 13.0% Guildford 43UD 0.6% 0.4% x x 15.1% 2.1% 15.3% 2.1% 9.0% 1.6% 14.1% Mole Valley 43UE x 1.2% 0.8% 11.4% 2.2% 13.2% 2.5% 8.0% 1.9% 14.1% Reigate and Banstead 43UF 0.8% 0.5% 1.2% 0.6% 13.6% 1.9% 1.4% 15.1% Runnymede 43UG x 1.2% 0.6% 13.6% 1.9% 1.4% 15.1% Spelthome 43UG x 1.4% 1.0% 12.2% 2.7% 16.6% 3.1% 7.4% 2.2% 17.3%	Elmbridge	43UB	x	x	1.0%	0.6%	13.6%	2.1%	15.0%	2.3%	6.9%	1.6%	14.5%	0.7% 2.3%
Mole Valley 43UE x 1.2% 0.8% 11.4% 2.2% 13.2% 2.5% 8.0% 1.9% 12.3% Reigate and Banstead 43UF 0.8% 0.5% 1.2% 0.6% 13.6% 1.9% 14.0% 2.0% 7.3% 1.4% 15.1% Runnymede 43UG x 1.4% 1.0% 12.2% 2.7% 16.6% 3.1% 7.4% 2.2% 17.0% Spelthorne 43UH x 1.8% 1.0% 13.2% 2.3% 12.2% 12.4% 17.0%	Epsom and Ewell				2.2% x	1.2% x	11.2%							2.6% 2.1%
Runnymede 43UG x 1.4% 1.0% 12.2% 2.7% 16.6% 3.1% 7.4% 2.2% 17.0% Spetthome 43UH x 1.8% 1.0% 13.2% 2.3% 12.2% 2.4% 10.4% 2.0% 17.3%	Mole Valley	43UE	x	x			11.4%	2.2%	13.2%	2.5%	8.0%	1.9%	12.3%	2.5%
	Runnymede	43UG	x	х	1.4%	1.0%	12.2%	2.7%	16.6%	3.1%	7.4%	2.2%	17.0%	3.1%
	Spelthorne Surrey Heath	43UJ	x 1.0%	x 0.7%	1.4%	0.9%	14.0%	2.4%	14.8%	2.6%	7.5%	1.9%	13.0%	2.7% 2.5%
Tandridge 43UK x 1.6% 0.9% 11.8% 2.2% 13.8% 2.5% 7.5% 1.8% 14.9% Waverley 43UL x 1.3% 0.7% 13.7% 2.0% 12.4% 2.0% 5.2% 1.3% 13.6%				x								1.8%		2.6% 2.1%
Woking 43UM 1.3% 0.8% 1.6% 0.9% 12.0% 2.2% 13.8% 2.4% 7.6% 1.8% 12.9% West Sussex 45 1.1% 0.2% 1.2% 0.3% 12.4% 0.7% 14.1% 0.8% 8.2% 0.6% 15.0%	Woking	43UM	1.3%		1.6%	0.9%	12.0%	2.2%	13.8%	2.4%	7.6%	1.8%	12.9%	2.3% 0.8%
Adur 45UB x x 1.6% 1.1% 9.6% 2.6% 14.0% 3.0% 6.1% 2.1% 14.4%	Adur	45UB	x	x	1.6%	1.1%	9.6%	2.6%	14.0%	3.0%	6.1%	2.1%	14.4%	3.0%
Arun 45UC 0.5% 0.4% 1.3% 0.6% 15.6% 2.0% 15.7% 2.0% 11.1% 1.7% 17.4% Chichester 45UD x x x x 15.4% 2.3% 17.0% 2.4% 11.2% 2.0% 15.2%	Chichester	45UD	x	x	x	x	15.4%	2.3%	17.0%	2.4%	11.2%	2.0%	15.2%	2.1% 2.3%
Crawley 45UE 2.3% 0.8% 1.3% 0.7% 11.8% 1.8% 13.1% 2.0% 9.1% 1.6% 17.0% Horsham 45UF 0.8% 0.5% 1.2% 0.6% 12.3% 1.8% 12.8% 1.9% 6.9% 1.4% 12.9%														2.2%
Mid Sussex 45UG 1.1% 0.5% 1.5% 0.7% 10.9% 1.6% 13.2% 1.9% 6.1% 1.2% 12.2% Worthing 45UH 2.0% 0.9% 1.3% 0.7% 10.0% 1.9% 5.2% 6.2% 1.6% 16.3%	Mid Sussex	45UG	1.1%	0.5%	1.5%	0.7%	10.9%	1.6%	13.2%	1.9%	6.1%	1.2%	12.2%	1.8%

			Under	weight			Overv	veight			Ob	ese	
		Recep		Year	6	Recep		Yea	r 6	Rece		Yea	r 6
			95%		95%		95%		95%		95%		95%
			confidence		confidence		confidence		confidence		confidence		confidence
Area	Code	Prevalence	interval ±	Prevalence	interval ±	Prevalence	interval ±	Prevalence	interval ±	Prevalence	interval ±	Prevalence	interval ±
7100	0000	TTOTAIONOO		TTOTAIONOO		TTOTUIONOO		TTOTUIONOO		11010100		Trovalonioo	
SOUTH WEST	к	0.6%	0.1%	1.1%	0.1%	14.0%	0.3%	14.2%	0.3%	8.9%	0.3%	16.2%	0.3%
Bath and North East Somerset UA	00HA	0.4%	0.3%	0.9%	0.4%	16.5%	1.9%	14.2%	1.7%	7.9%	1.3%	13.4%	1.7%
Bournemouth UA	00HN	0.9%	0.5%	1.1%	0.6%	12.5%	1.8%	14.6%	1.9%	7.8%	1.4%	15.2%	1.9%
Bristol, City of UA	00HB	0.5%	0.2%	0.9%	0.3%	14.4%	1.1%	15.2%	1.2%	10.4%	1.0%	17.9%	1.3%
Cornwall UA	00HE	0.4%	0.2%	1.1%	0.3%	14.4%	1.1%	14.3%	1.0%	9.9%	0.9%	17.8%	1.1%
Former districts of:													
Caradon	15UB	х	х	1.0%	0.8%	15.9%	3.3%	15.0%	2.9%	8.8%	2.6%	16.3%	3.0%
Carrick	15UC	x	x	0.9%	0.6%	13.8%	2.3%	15.6%	2.4%	9.4%	2.0%	17.9%	2.5%
Kerrier	15UD	х	х	0.8%	0.6%	14.6%	2.4%	14.3%	2.3%	11.2%	2.2%	22.4%	2.8%
North Cornwall	15UE	x	x	x	x	14.2%	2.7%	15.7%	2.7%	11.0%	2.4%	15.6%	2.7%
Penwith and Isles of Scilly	15UF ¹	x	×	1.2%	0.9%	13.3%	2.9%	13.3%	2.7%	10.4%	2.6%	17.6%	3.0%
Restormel	15UG	1.1%	0.7%	2.1%	1.0%	14.6%	2.5%	11.5%	2.1%	8.3%	1.9%	16.3%	2.5%
North Somerset UA	00HC	x	5.170 X	0.7%	0.4%	14.1%	1.5%	15.5%	1.6%	7.0%	1.1%	16.0%	1.6%
Plymouth UA	00HG	x	Y	0.9%	0.4%	14.7%	1.4%	14.8%	1.4%	10.1%	1.2%	18.3%	1.6%
Poole UA	00HP	x	Y	1.0%	0.6%	12.4%	1.9%	11.9%	1.4%	8.8%	1.6%	15.5%	2.1%
South Gloucestershire UA	00HD	0.8%	0.3%	0.8%	0.3%	13.2%	1.3%	14.5%	1.3%	9.1%	1.1%	16.5%	1.4%
Swindon UA	OOHX	0.076 ¥	0.070 ¥	1.0%	0.5%	13.6%	1.5%	14.5%	1.5%	9.5%	1.2%	16.5%	1.6%
Torbay UA	00HH	0.9%	0.6%	1.3%	0.6%	14.2%	2.0%	12.9%	1.8%	9.9%	1.7%	16.0%	2.0%
Wiltshire	OOHY	0.8%	0.3%	1.2%	0.3%	12.5%	1.0%	13.7%	1.0%	7.8%	0.8%	14.7%	1.1%
Former districts of:	00111	0.078	0.078	1.270	0.070	12.370	1.070	10.170	1.070	1.070	0.078	14.770	1.170
Kennet	46UB	x	v	0.8%	0.6%	13.4%	2.8%	15.3%	2.5%	5.6%	1.9%	15.3%	2.5%
North Wiltshire	46UC	x	~	1.6%	0.7%	12.4%	1.8%	13.8%	1.8%	8.6%	1.5%	15.2%	1.9%
Salisbury	46UD	0.6%	0.5%	1.0%	0.6%	11.4%	1.9%	13.4%	2.1%	6.7%	1.5%	14.5%	2.2%
West Wiltshire	460D 46UF	1.5%	0.3%	1.1%	0.6%	13.1%	1.8%	12.8%	1.9%	8.8%	1.6%	13.7%	1.9%
Devon	18	0.5%	0.7%	1.0%	0.0%	15.4%	0.9%	14.3%	0.8%	9.8%	0.7%	16.1%	0.9%
East Devon	18UB	1.1%	0.2%	1.1%	0.2%	13.1%	2.0%	15.0%	2.0%	6.8%	1.5%	14.3%	2.0%
Exeter	180D	1.176 X	0.0%	0.6%	0.0%	18.2%	2.5%	14.2%	2.0%	14.2%	2.3%	20.2%	2.6%
Mid Devon	1800 1800	×	^	0.078	0.5 /6	17.4%	2.8%	14.2%	2.2%	9.7%	2.3%	13.8%	2.6%
North Devon	180D	X	X	1.2%	0.7%	14.8%	2.8%	14.0%	2.0%	9.1%	1.9%	16.0%	2.0%
South Hams	18UG	1.1%	0.8%	1.2%	0.7 %	14.0%	2.3%	15.8%	2.5%	10.8%	2.4%	13.5%	2.4%
Teignbridge	180G	1.1/0	0.0%	0.8%	0.5%	15.2%	2.2%	13.1%	2.0%	9.6%	1.8%	17.0%	2.2%
Torridge	18UK	×	^	1.4%	1.0%	13.9%	3.2%	13.4%	2.8%	9.3%	2.7%	17.8%	3.2%
West Devon	18UL	X	X	1.470	1.0%	18.1%	3.2%	15.2%	3.3%	8.5%	2.7%	16.4%	3.4%
Dorset	19	0.4%	0.2%	0.9%	0.3%	13.6%	3.0 % 1.2%	14.0%	1.1%	8.3%	0.9%	14.9%	1.1%
Christchurch	19 19UC	0.4%	0.2%	2.0%	1.4%	11.1%	3.2%	14.6%	3.5%	10.5%	3.1%	15.1%	3.5%
East Dorset	190C	X	X	2.0%	1.4 %	13.8%	2.7%	13.7%	2.4%	7.9%	2.1%	13.3%	2.4%
North Dorset	190D	X	X	1.3%	0.9%	10.8%	2.7%	15.3%	2.4%	6.9%	2.1%	14.4%	2.4%
Purbeck	190E 19UG		X	1.3%	0.9%	11.6%	2.6%	15.3%	3.0%	9.2%	3.1%	14.4%	2.9%
West Dorset	190G 190H	x	X	x 0.8%	x 0.6%	11.6%	3.4%	15.7%	3.5%	9.2%	3.1%	16.7%	2.3%
	190H 19UJ	X	X	0.8%	0.6%	13.8%	2.5%	13.8%	2.3%	0.3% 10.8%	2.4%	15.0%	2.3%
Weymouth and Portland	190J 23	× 1.5%	× 0.3%	0.9%	0.7%	18.5% 12.8%	3.1% 0.9%	12.0% 14.3%	2.5%	10.8% 7.8%	2.4%	16.0% 15.9%	2.8%
Gloucestershire Cheltenham	23 23UB	1.5%	0.3%	1.4% 0.7%	0.3%	12.8%	0.9% 2.3%	14.3% 13.0%	2.3%	7.8%	0.7% 1.7%	15.9% 13.6%	1.0% 2.3%
Cotswold	23UB 23UC	4.3%	0.7%	3.6%	0.6%	14.2%	2.3%	13.0%	2.3%	7.3%	1.7%	13.6%	2.3%
	23UC 23UD	4.3%	1.5%	3.6%	0.7%	10.3%	2.3%	13.9%	2.7%	9.2%	2.3%	14.6%	2.8%
Forest of Dean	230D 23UE	x 2.0%	x 0.8%	1.0%	0.7%	15.8% 11.5%	2.9%	16.0%	2.7%				
Gloucester	23UE 23UF	2.0%	0.8%	1.8%	0.8%	11.5%	1.9%	14.2%	2.0%	8.5% 8.0%	1.7%	18.1% 14.0%	2.2%
Stroud		0.6%	0.5%	0.7%	0.5%		2.0%		2.1%			14.0%	
Tewkesbury	23UG	X	X	X	X	12.1%		15.8%		7.9%	2.1%		3.0%
Somerset	40	0.7%	0.2%	1.4%	0.3%	14.9%	1.0%	14.1%	1.0%	8.7%	0.8%	16.7%	1.0%
Mendip	40UB	X	X	1.4%	0.7%	15.0%	2.2%	14.4%	2.2%	9.3%	1.8%	16.6%	2.3%
Sedgemoor	40UC	0.5%	0.4%	1.7%	0.8%	15.0%	2.1%	16.0%	2.2%	9.8%	1.8%	16.9%	2.2%
South Somerset	40UD	1.3%	0.6%	1.4%	0.6%	14.4%	1.8%	11.9%	1.7%	8.5%	1.4%	17.1%	1.9%
Taunton Deane	40UE	x	x	1.3%	0.7%	15.6%	2.2%	14.3%	2.2%	7.2%	1.6%	17.3%	2.3%
West Somerset	40UF	x	X	X	x	14.2%	4.6%	16.3%	4.4%	8.0%	3.5%	12.6%	4.0%

Notes: 1. Data for City of London have been combined with Hackney and data for Isles of Scilly have been combined with Penwith to avoid disclosure of small numbers (1-5 individuals) in the overweight and obese estimates. x - Underweight prevalence estimates based on small numbers (1-5 individuals) have been supressed and are denoted by x'. Corresponding healthy weight prevalence estimates have also been suppressed to maintain suppression.

Source: The Health and Social Care Information Centre, Lifestyle Statistics / Department of Health Cross-Government Obesity Unit NCMP Dataset Copyright © 2009. The Health and Social Care Information Centre, Lifestyle Statistics. All Rights Reserved.

Annex 2: Data Quality report

Table C shows a number of PCT data quality measures for the 2008/09 NCMP. As discussed at the beginning of Section 3, there have been considerable improvements in the overall NCMP data quality since 2006/07.

Table C: PCT data quality report for NCMP 2008/09

	Green	Amber	Red
Measure 1 - Overall participation rate	≥85%	≥80% and <85%	<80%
Measure 2 - % of records with heights rounded to the nearest whole number	<25%	≥25% and ≤50%	>50%
Measure 3 - % of records with weights rounded to the nearest whole number	<25%	≥25% and ≤50%	>50%
Measure 4 - % of records with complete home postcodes	>95%	≥75% and ≤95%	<75%
Measure 5 - % of records with complete ethnicity codes	>90%	≥50% and ≤90%	<50%

	PCT name	Overall participation rate	Percentage of records with heights rounded to the nearest whole number	Percentage of records with weights rounded to the nearest whole number	Percentage of records with missing home postcodes	Percentage of records with missing ethnicity codes
PCT	National average	90%	21%	15%	2%	23%
TAN 5C3	North East Lincolnshire Care Trust Plus City & Hackney Teaching PCT	98% 98%	18%	7% 11%	1% 1%	0%
5C3 5FL	Bath & North East Somerset PCT	98%	22%	11%	0%	12%
5ND	County Durham PCT	97%	15%	10%	1%	65%
5KF	Gateshead PCT	97%	16%	10%	1%	15%
5M3	Walsall Teaching PCT	97%	17%	10%	0%	1%
5HQ 5KG	Bolton PCT South Tyneside PCT	96% 96%	11% 14%	<u> </u>	1%	0%
5GC	Luton PCT	96%	20%	11%	0%	19%
5M1	South Birmingham PCT	96%	23%	11%	22%	1%
5PE	Dudley PCT	96%	22%	10%	0%	1%
5E1	Stockton-On-Tees Teaching PCT	96%	25%	11%	0%	53%
5PF 5NJ	Sandwell PCT Sefton PCT	96% 96%	17% 16%	<u> </u>	1% 0%	1%
5D8	North Tyneside PCT	96%	16%	20%	0%	2%
5D7	Newcastle PCT	96%	71%	10%	0%	100%
5HP	Blackpool PCT	96%	19%	10%	99%	1%
5NH	East Lancashire Teaching PCT	96%	20%	10%	0%	2%
5LD 5D9	Lambeth PCT	96% 95%	19% 25%	10% 12%	0% 0%	20%
5D9 5NR	Hartlepool PCT Trafford PCT	95%	25%	12%	0%	7%
5HX	Ealing PCT	95%	23%	16%	0%	41%
5PR	Great Yarmouth & Waveney PCT	95%	15%	9%	0%	11%
5K7	Camden PCT	95%	18%	12%	1%	1%
5LH	Tameside & Glossop PCT	95% 94%	15% 19%	9% 21%	0% 1%	84%
5JX 5KI	Bury PCT Sunderland Teaching PCT	94%	19%	21%	1%	2%
5J2	Warrington PCT	94%	21%	18%	0%	29%
5HY	Hounslow PCT	94%	16%	9%	1%	8%
5J9	Darlington PCT	94%	23%	9%	1%	16%
5FE	Portsmouth City Teaching PCT	94%	13%	19%	0%	55%
5A9	Barnet PCT	94%	21%	11%	1%	3%
TAL 5F5	Torbay Care Trust Salford PCT	94%	19% 20%	19% 10%	0%	11%
5NI	Liverpool PCT	94%	35%	71%	1%	14%
5N2	Kirklees PCT	93%	20%	15%	0%	35%
5P6	West Sussex PCT	93%	15%	16%	0%	100%
5N1	Leeds PCT	93%	22%	9%	0%	3%
5PP 5PK	Cambridgeshire PCT South Staffordshire PCT	93% 93%	14% 24%	10% 12%	0% 1%	3%
5M6	Richmond & Twickenham PCT	93%	17%	10%	100%	2%
5QJ	Bristol PCT	93%	33%	15%	0%	19%
5LF	Lewisham PCT	93%	17%	11%	1%	6%
5NM	Halton & St Helens PCT	93%	17%	11%	0%	8%
5A8 5C9	Greenwich Teaching PCT Haringey Teaching PCT	93% 93%	18% 13%	12% 10%	0% 1%	8% 10%
5C5	Newham PCT	93%	22%	10%	0%	10%
5MK	Telford & Wrekin PCT	93%	10%	9%	0%	17%
5H8	Rotherham PCT	92%	19%	11%	0%	56%
5NV	North Yorkshire & York PCT	92%	36%	21%	2%	7%
5MV 5PJ	Wolverhampton City PCT Stoke On Trent PCT	92%	29%	24%	0%	5%
5PJ 5M2	Stoke On Trent PCT Shropshire County PCT	92% 92%	22%	9%	0%	11%
5QL	Somerset PCT	92%	31%	11%	1%	2%
5PN	Peterborough PCT	92%	17%	14%	0%	33%
5C1	Enfield PCT	92%	32%	11%	0%	2%
5MX	Heart of Birmingham Teaching PCT	92%	28%	13%	2%	6%
5HG 5N6	Ashton, Leigh & Wigan PCT Derbyshire County PCT	92%	19% 18%	10% 10%	0% 1%	1%
5M8	North Somerset PCT	92%	15%	10%	0%	2%
5NG	Central Lancashire PCT	92%	16%	12%	1%	68%
5LG	Wandsworth PCT	91%	28%	7%	0%	1%
5NA	Redbridge PCT	91%	23%	7%	1%	3%
5PT	Suffolk PCT	91%	21%	10%	0%	9%
5N3 5N9	Wakefield District PCT Lincolnshire Teaching PCT	91% 91%	20%	10% 48%	0% 0%	60%
5K5	Brent Teaching PCT	91%	27%	10%	0%	5%
5AT	Hillingdon PCT	91%	20%	10%	0%	4%
TAC	Northumberland Care Trust	91%	16%	10%	0%	1%
5LA	Kensington & Chelsea PCT	91%	9%	9%	0%	4%
5LQ 5A5	Brighton & Hove City PCT Kingston PCT	91% 91%	22% 14%	14% 10%	0%	7% 0%
5A5 5NW	East Riding of Yorkshire PCT	91% 91%	14%	10%	3%	100%
	Bromley PCT	91%	15%	10%	0%	8%

	PCT name	Overall participation rate	Percentage of records with heights rounded to the nearest whole number	Percentage of records with weights rounded to the nearest whole number	Percentage of records with missing home postcodes	Percentage of records with missing ethnicity codes
QG	Berkshire East PCT	91%	34%	27%	2%	18%
2 J4	Bedfordshire PCT Sheffield PCT	91% 91%	16% 20%	10% 9%	1% 1%	14% 21%
N4 F1 QK NP	Plymouth Teaching PCT	91%	14%	10%	1%	1%
ЗK	Wiltshire PCT	90%	17%	15%	1%	2%
NP NK	Central & Eastern Cheshire PCT	90% 90%	20% 12%	7%	0%	79%
νκ. \4	Wirral PCT Havering PCT	90%	28%	11%	2%	3%
IE	Barnsley PCT	90%	15%	10%	0%	1%
EM	Nottingham City PCT	90%	21%	10%	0%	17%
I4 NF	Knowsley PCT	90% 90%	14% 17%	11% 17%	2% 0%	100%
	North Lancashire Teaching PCT Oxfordshire PCT	90%	12%	10%	0%	3% 2%
2N	Bournemouth & Poole Teaching PCT	90%	22%	11%	1%	4%
PD	Northamptonshire Teaching PCT	90%	22%	26%	0%	86%
24	Tower Hamlets PCT Blackburn With Darwen PCT	90% 90%	19% 24%	12% 8%	7%	0% 1%
PW	North East Essex PCT	90%	18%	26%	1%	1%
QE QN PD C4 CC PW PV	West Essex PCT	90%	17%	13%	1%	22%
P8 QF	Hastings & Rother PCT	90%	25%	34%	1%	24%
2F MD	Berkshire West PCT	90% 90%	<u> </u>	11% 10%	0% 0%	<u> </u>
	Coventry Teaching PCT Heywood, Middleton & Rochdale PCT	90%	27%	13%	0%	4%
	South Gloucestershire PCT	90%	30%	19%	0%	15%
РН	North Staffordshire PCT	90%	24%	15%	0%	12%
43 PH P9 _1	West Kent PCT Southampton City PCT	90% 90%	18% 20%	15%	0%	87% 30%
(3	Swindon PCT	90% 89%	20%	18%	0%	5%
(3 11 2C -3 (9	Hammersmith & Fulham PCT	89%	27%	21%	0%	17%
2C	Hampshire PCT	89%	16%	22%	1%	53%
.3	Medway PCT Croydon PCT	89% 89%			0%	10% 4%
ζD Ω	Buckinghamshire PCT	89%	27%	42%	1%	4 %
	Bexley Care Trust	89%	18%	11%	0%	4%
4K 17	Derby City PCT	89%	16%	10%	1%	2%
EF NT	North Lincolnshire PCT Manchester PCT	89% 89%	<u> </u>	53% 10%	1% 1%	62% 27%
>5	Surrey PCT	88%	24%	10%	18%	21%
P5 _C	Westminster PCT	88%	23%	14%	23%	4%
۶L	Worcestershire PCT	88%	16%	10%	0%	3%
Q	Milton Keynes PCT Bradford & Airedale Teaching PCT	88% 88%	16%	11% 24%	0%	4% 18%
NY P7	East Sussex Downs & Weald PCT	88%	19%	22%	0%	9%
P7 PY NN 15 P3	South West Essex PCT	88%	19%	10%	12%	2%
NN .	Western Cheshire PCT	88%	22%	33%	0%	56%
15	Oldham PCT East & North Hertfordshire PCT	88% 88%	28% 27%	12% 16%	1% 0%	3%
°C	Leicester City PCT	88%	16%	9%	1%	7%
٢M	Middlesbrough PCT	88%	17%	10%	0%	52%
M7	Sutton & Merton PCT	88%	18%	13%	0%	20%
(6 16	Harrow PCT Calderdale PCT	88% 88%	28%	11% 40%	1% 0%	1% 22%
20	Devon PCT	87%	27%	17%	0%	4%
	Stockport PCT	87%	22%	77%	1%	26%
=7 (8	Islington PCT	87%	20%	12%	1%	2%
C2 PM	Barking & Dagenham PCT Warwickshire PCT	87% 87%	63% 17%	11% 10%	0%	0% 20%
-101 N8	Nottinghamshire County Teaching PCT	87%	20%	11%	0%	3%
۶G	Birmingham East & North PCT	87%	19%	10%	1%	23%
PQ	Norfolk PCT	87%	14%	10%	0%	27%
MC T	Dorset PCT Bassetlaw PCT	87% 86%	16% 15%	<u> </u>	0% 0%	4% 0%
NX	Hull Teaching PCT	86%	32%	11%	0%	100%
⁵ 4	West Hertfordshire PCT	86%	17%	19%	0%	2%
NE	Cumbria Teaching PCT	86%	20%	17%	0%	43%
DA DA	Herefordshire PCT Eastern & Coastal Kent PCT	85%	13%		0% 1%	37% 16%
15	Doncaster PCT	84%	18%	11%	0%	97%
рн	Gloucestershire PCT	83%	22%	34%	0%	79%
T	Isle of Wight NHS PCT	83%	17%	9%	0%	3%
.E	Southwark PCT	83%	34%	11%	1%	54%
2A N5 2H 2T E PA	Leicestershire County & Rutland PCT Solihull Care Trust	82% 81%	27% 15%	13%	1% 1%	3%
QR	Redcar & Cleveland PCT	81%	32%	17%	0%	46%
ΩP	Cornwall & Isles of Scilly PCT	80%	18%	17%	1%	3%
QP PX P1	Mid Essex PCT	80%	25%	48%	1%	11%
P1 NC	South East Essex PCT Waltham Forest PCT	78%	9% 21%		0%	5% 1%
••	Waldian / Oleat POT	1170	2170	170	0.76	1 76

The rows in Table C are sorted by the main data quality indicator: measure 1, the overall participation rate (the percentage of eligible Reception and Year 6 children for which valid measurements were received).

Four other data quality measures are also presented:

- Measures 2 and 3: percentage of records with rounded heights / weights. Heights and weights in the NCMP should be rounded to 1 decimal place, and so it would be expected that approximately 10% of measurements would be rounded to the nearest whole number. Percentages that are considerably different to this may have been inappropriately rounded. Analysis by the National Obesity Observatory has shown that systematic rounding to the nearest whole number can have a small overall biasing effect on height and weight measurements.

- Measures 4 and 5: percentages of records with complete home postcodes and ethnicity codes. The 2007/08 NCMP was the first year for which collection of these data fields was mandatory.

Annex 3 – Confidence intervals

A confidence interval gives an indication of the likely error around an estimate that has been calculated from measurements based on a sample of the population. It indicates the range within which the true value for the population as a whole can be expected to lie, taking natural random variation into account.

Throughout this report, 95% confidence intervals are used. These are known as such because if it were possible to repeat the same programme under the same conditions a number of times, we would expect 95% of the confidence intervals calculated in this way to contain the true population value for that estimate.

Larger sample sizes lead to narrower confidence intervals, since there is less natural random variation in the results when more individuals are measured. The NCMP has relatively narrow confidence limits because of the large size of the sample.

Note that:

- Confidence limits have not been adjusted using the finite population correction factor; and
- Raw confidence limits do not reflect error due to issues such as data quality and low response rates and, therefore, may give a misleading impression of the degree of precision.

Where applicable in this report, confidence limits are included in graphs. These confidence limits give an indication of whether any observed differences in prevalence (e.g. between school years) are likely to be real, or whether they are likely to be due to chance and the small numbers involved. Where 95% confidence limits for two subgroups do not overlap, the difference can be said to be statistically significant.

Year 6 obesity prevalence figures have the upper confidence limits expanded wherever possible in this report to represent the uncertainties in the estimates due to response bias. Analysis has shown that in Year 6, the children who opt out are more likely to be obese than those who are measured (see Annex 6). Given that the final Year 6 participation rates for the 2006/07, 2007/08, and 2008/09 NCMP were different (78%, 87%, and 89% respectively), this is an important consideration when assessing whether there has been a genuine change in obesity prevalence between the years.

Annex 4 - Calculation of prevalence

Prevalence = number of overweight or obese ÷ number of valid records uploaded

The data collection tool calculates the number of overweight/obese children using the following steps for each record:

- 1. calculate the BMI score: $BMI = \frac{10,000}{h(cm)^2} \times w(kg)$
- 2. calculate the BMI z-score:
 - a. look up child age (rounded to the nearest whole month) and sex on the UK National BMI centiles classification;
 - b. retrieve the corresponding L, M, and S values for use in the following formula (where y is the BMI score):

$$z = \frac{\left(\frac{y}{M}\right)^L - 1}{LS}$$

- 3. calculate the BMI p-score by converting the above z-score using the standardised normal distribution
- children with a BMI p-score of <=0.02 are flagged as 'underweight', those with a p-score >=0.85 and <0.95 are flagged as 'overweight' and those with a pscore >=0.95 are flagged as 'obese'.

Prevalence rates are then calculated by dividing the numbers of children flagged by the number of eligible records uploaded for each school year.

Annex 5 – Calculation of participation rates

Calculating participation rates:

The participation rate is the proportion of eligible children who were measured by the PCT. The participation rate is calculated by dividing *the number of pupils measured* by *the number of pupils who were eligible for measurement*.

From 2007/08 PCTs were given access to a secure NCMP website where they were able to view, following their data upload, their participation rate and the basis upon which it had been calculated. PCTs were able to review their data, make corrections, and re-upload data to the NCMP database, as many times as necessary.

The **number of pupils measured** is the total number of records uploaded by a PCT to the NCMP database *excluding:*

- Invalid records (further information on the validation process can be found in Annex 7);
- ii. Records from independent and special schools.

Note: after a PCT had uploaded data they were provided with information on the secure NCMP website detailing the records that would be removed due to being invalid. PCTs were given the opportunity to correct these records and thereby increase their participation rate.

The **number of pupils eligible for measurement** for each school year is the number of pupils in state-maintained schools, with primary school aged children, excluding pupils with special educational needs.

- i. Estimates of the total number of pupils that were eligible for measurement, based on DCSF data, were initially supplied to PCTs. PCTs were then able to update these figures if they deemed them inaccurate.
- ii. These 'eligible' figures were automatically validated, on upload, through comparison to other PCT supplied data: (i) the school-level headcounts and (ii) the number of pupils with special educational needs.
- iii. Based on this comparison, the PCT supplied 'eligible' figure was either accepted or rejected by the database¹⁴.
- iv. PCTs had the opportunity to review and correct their data, if necessary.

Since the number of eligible pupils should be the number of pupils in state-maintained schools, excluding pupils with special educational needs, it would be expected that (A) = (B) - (C).

The database carried out the following calculation:

• Where (A)/ ((B) – (C)) is outside the range 0.95 to 1.05, (A) was rejected and (B) – (C) was used instead.

¹⁴ The report compared (A) to (B) – (C) for each year, where:

⁽A) is the number of eligible pupils

⁽B) is the state-maintained schools headcount sum

⁽C) is the number of pupils with special educational needs

[•] Where (A)/ ((B) – (C)) is in the range 0.95 to 1.05, (A) was accepted.

Annex 6 - Effect of participation rate on prevalence

Since the participation rates for the NCMP were not 100%, the datasets used to estimate prevalence are based on samples. The prevalence rates for the sample are assumed to apply to the entire population.

To avoid biased results, a sample must be representative of the entire population from which it was drawn. In the case of the NCMP this means that every child must have an equal chance of being included in the dataset.

If the children who do not get included in the dataset share certain characteristics, such as being more likely to be overweight, then the sample would be biased. Such selective non-participation of overweight or obese children could potentially bias the results.

We do not have a good measure of the degree of selective opt out, but participation may provide a reasonable proxy of this factor. The higher the participation rate, the less chance there is for selective opt out, though this measure is far from perfect.

Analysis undertaken in 2007/08 investigated whether there is a relationship between participation rate and obesity prevalence by plotting each PCT's percentage point change in participation rate against their recorded change in prevalence.

It was deduced that there was no substantial association between participation rate and obesity prevalence for Reception children. However, it was suggested that there is a significant link between participation rates and obesity prevalence for Year 6 children. This suggests that a slightly disproportionate number of "obese" children in Year 6 could have missed measurement and, therefore, prevalence in Year 6 may be a slight underestimate.

The analysis showed that a 10 percentage point increase in Year 6 participation rate will, on average, lead to an increase in the Year 6 obesity prevalence estimate of approximately 0.6 percentage points. Around this estimate, there is a confidence interval of +/- 0.3 percentage points. The findings from similar analysis undertaken in 2008/09 was consistent with the 2007/08 findings.

Given that the Year 6 participation rate was 77.9% in 2006/07, it is likely that the true obesity prevalence in this year was underestimated by $((100-77.9)/10)^*0.6 = 1.3$ percentage points +/- 0.3.

Given that the Year 6 participation rate was 86.6% in 2007/08, it is likely that the true obesity prevalence in this year was underestimated by $((100-86.6)/10)^*0.6 = 0.8$ percentage points +/- 0.3.

Given that the Year 6 participation rate was 89.1% in 2008/09, it is likely that the true obesity prevalence in this year was underestimated by ((100-89.1)/10)*0.6 = 0.7 percentage points +/- 0.3.

The headline Year 6 obesity prevalence estimates presented throughout this report have not been adjusted to take into account this element of underestimation, but the upper confidence limits for Year 6 in figure 5 (year-on-year comparisons) have been adjusted.

There may be other confounding factors which also have an impact on the prevalence figures, and these are not investigated in this report.

In conclusion, participation rate is shown to have a slight but significant positive association with the estimated prevalence of obese Year 6 children in the NCMP data. For Reception there is no significant association between participation rate and prevalence.

Annex 7 – Data cleaning

The data that PCTs uploaded to the NCMP database underwent a series of data quality checks before being included in the national dataset. A guidance document was provided to PCTs and gives full details of the data quality checks that NCMP 2008/09 data underwent. It is available on the following link:

www.ic.nhs.uk/ncmp/validation

Published by The NHS Information Centre for health and social care Part of the Government Statistical Service

ISBN 978-1-84636-326-9

This publication may be requested in large print or other formats.

For further information: www.ic.nhs.uk 0845 300 6016 enquiries@ic.nhs.uk

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