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# ESTIMATION OF FOOD AND NUTRIENT INTAKES FROM FOOD PURCHASE DATA IN SCOTLAND

2001-2015



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This work was carried out using LCFS data from the UK Data Archive, University of Essex (<a href="http://www.data-archive.ac.uk/">http://www.data-archive.ac.uk/</a>), which was provided ahead of it becoming publically available by the UK Data Archive by Defra and ONS. Additional variables on sampling and income were provided by ONS, and SIMD data were obtained from Scottish Neighbourhood Statistics.

# **Executive Summary**

#### Introduction

In 2013, Revised Dietary Goals for Scotland were published, updating the 1996 Scottish Dietary Targets. These goals encompassed recommendations for intakes of both foods and nutrients, similar to those in the original targets regarding fruit and vegetables, oily fish, total fat, saturated fat, sugar (NMES), and salt. However, goals were added with regard to red meat, energy, energy density, trans fatty acids, and fibre as non-starch polysaccharides (NSP).

Progress towards the goals is monitored using a combination of surveys, but principally via secondary analysis of the Living Costs and Food Survey (LCFS) data from 2001 to date, following the endorsement of the 2004 Working Group Report on Monitoring Scottish Dietary Targets which concluded that it was the most appropriate method for Scotland. Other Scottish surveys that collect data on dietary intake, such as the Scottish Health Survey, do not provide data suitable for monitoring the goals.

The results provided in this report support work by Food Standards Scotland and the Scottish Government to facilitate improvements to the diet in Scotland to help reduce the burden of obesity and diet-related disease.

#### **Objective**

The purpose of this work was to obtain robust estimates of food consumption and nutrient intakes for 2013 to 2015 in Scotland in order to continue to monitor progress toward the 2013 Scottish Dietary Goals. More specifically, the aims were to calculate the results for the years 2013 to 2015, and to assess differences in food consumption and nutrient intakes over time and by Scottish Index of Multiple Deprivation (SIMD) quintile. Furthermore, the main contributors to intakes of energy, fat, saturated fat, NMES and NSP were explored.

#### Methods

LCFS data for each year, in its raw form, was obtained from Defra and the UK Office for National Statistics (ONS) (prior to it being made publically available on the UK Data Archive, University of Essex). Data on sampling methodology were obtained from ONS who also mapped SIMD quintiles to the data. Food consumption and nutrient intake in Scotland calculated in the previous reports was updated by the addition of the years 2013 to 2015. Analysis was also carried out by SIMD quintile for the period of 2013 to 2015. Adjustments were made to allocate the correct proportion of each food to the appropriate food group and for waste. In addition, the contribution that food groupings made to intakes of energy, fat, saturated fat, NMES and NSP were also explored. Data were analysed weighting to the Scottish population and taking account of sampling methods. Results are presented as population means (i.e. including consumers and non-consumers) for household and eating out foods combined.

#### Key Findings for 2001-2003 to 2013-2015: Scottish Dietary Goals

- There was little progress towards meeting the 2013 Scottish Dietary Goals over the 15 year period. This lack of progress was apparent even amongst households in the least deprived areas.
- Fruit and vegetable consumption did not change between 2001-2003 and 2013-2015.
- Oil rich fish consumption did not change.
- Total red and processed meat consumption reduced over the 15 year period, and average consumption met the goal.
- Energy density of the diet has increased.
- Total fat intake did not change but saturated fat intake (as a percentage of food energy) reduced, however mean intakes of both total and saturated fat remain higher than the goals.
- NMES intake (as a percentage of food energy) reduced, however mean intake remains considerably higher than
  the goal.
- In 2013-2015, households in the most deprived areas consumed significantly less fruit and vegetables, oil rich
  fish and fibre than households in the least deprived areas, but there was no difference in the consumption of red
  and processed meat by deprivation category. However, intakes of fruit and vegetables, oil rich fish and fibre
  remain considerably lower than the goals for all SIMD quintiles.
- There was no difference in the energy density of the diet or in total fat, saturated fat or NMES intakes by level of deprivation.
- Where a difference existed between households in the least and most deprived areas, there was no evidence to suggest that the gap in intake had changed compared to previous years.

#### Mean food and nutrient intakes in relation to the Scottish Dietary Goals from 2001 to 2015

Food / Nutrient	Scottish Dietary Goal	2001- 2003	2013- 2015	Change between 2001-2003 and 2013-2015 <sup>1</sup>	Highest consumption by SIMD in 2013-2015 <sup>1,2</sup>	
Energy density (kcal/100g)	Average energy density of the diet to be lowered to 125 kcal/100g	171	175	<b>↑</b>	No Difference	
Fruit and Vegetables (g/day)	At least 5 portions per person per day (> 400 g/day)	256	258	No Change	Least Deprived	
Oil rich fish (g/week)	Increase to one portion per person (140g) per week	29	29	No Change	Least Deprived	
Red Meat (g/day)	Average intake of red and processed meat to be pegged at around 70g per person per day	65	56	<b>↓</b>	No Difference	
Fat (% food energy)	≤35% food energy	38.8	39.3	No Change	No Difference	
Saturated Fat (% food energy)	≤11% of food energy	15.6	15.3	<b>\</b>	No Difference	
Sugar (% food energy)	NMES <sup>3</sup> to reduce to less than 11% of food energy in children and adults	15.7	14.3	<b>\</b>	No Difference	
Fibre (g/day)	Increase in average consumption of fibre <sup>4</sup> to 18g/day	12	12	No Change	Least Deprived	

<sup>&</sup>lt;sup>1</sup>Based on P-value for Linear Association ≤0.010; <sup>2</sup>SIMD = Scottish Index of Multiple Deprivation; <sup>3</sup>Non-milk extrinsic sugars - sugars, excluding those in milk and milk products that are not incorporated into the cellular structure of foods, such as fruit and vegetables e.g. sugar released from fruit when it is blended or juiced, table sugar, honey and added sugar in cakes, biscuit, sweets, breakfast cereals and soft drinks; <sup>4</sup>Non starch polysaccharide (NSP) as measured by Englyst method.

## Key Findings for 2001-2003 to 2013-2015: Additional Foods and Drinks Indicative of Diet Quality

- Total bread consumption decreased, however brown/wholemeal bread, high fibre and total breakfast cereal
  consumption remained fairly constant.
- Consumption of discretionary foods such as cakes, sweet biscuits, and confectionery remained fairly constant.
- Sugar containing soft drinks consumption decreased from 245g/day to 156g/day, and consumption of sugar free soft drinks increased, but not at the same rate.
- Bacon and ham consumption remained fairly constant, but consumption of other processed red meat products including savoury pies decreased significantly.
- **Total spread** consumption decreased, however this was due to a reduction in low fat spread consumption as butter and margarine consumption increased.
- Total milk consumption decreased.
- White fish consumption decreased by almost 20g per week.
- Fresh potato consumption decreased by 20g per day.
- Processed potato and savoury snack consumption did not change.
- Nut consumption increased.
- In 2013-2015, households in the most deprived areas consumed significantly less brown/wholemeal bread, breakfast cereal, skimmed milk, cheese, cream, white fish and nuts than households in the least deprived areas, and more sugar containing soft drinks, processed red meat products (with the exception of bacon and ham) and whole milk.

#### Key Findings: Contribution of Foods to Intakes of Energy, Fat, Saturated Fat, and NMES

- Discretionary foods that are high in sugar and fat, namely sweet biscuits; confectionery; crisps and savoury snacks; cakes, pastries and puddings; and sugar sweetened beverages are significant contributors to energy in the diet. Sweet biscuits, in particular are one of the top five contributors to energy, fat, saturated fat and NMES.
- These five food groupings contribute almost 20% of energy, fat and saturated fat intakes and more than 50% of NMES intake.
- Significant reductions were found between 2001-2003 and 2013-2015 in the percentage contribution of
  processed red meat, bread and rolls, and milk to energy intake; processed red meat and milk to fat and
  saturated fat intake, and sugar containing soft drinks and sugar to NMES intake due to consumption of these
  foods and drinks reducing.
- Between 2001-2003 and 2013-2015, sweet biscuits contributed less to saturated fat intake and more to NMES intake, both in terms of absolute weight and percentage contribution.
- The contributions of total processed red meat, sugar containing soft drinks, whole milk, and processed potatoes to intakes of energy, fat, saturated fat, NMES and/or NSP were greater in the most deprived, whereas the contributions of total fruit and vegetables; total breakfast cereal; other baked goods; cream; nuts; jam, marmalade, honey and sweet spreads; and unprocessed fish to these nutrients were greater in the least deprived.

# Mean contribution of selected discretionary foods and drinks to energy, fat, saturated fat and NMES intake in 2013-2015 (intake (percentage) per person per day)

	Weight g	Energy kcal (%)	Fat g (%)	Saturated Fat g (%)	NMES g (%)
Sweet Biscuits	21.6	103 (5.3)	4.9 (5.9)	2.5 (7.7)	5.7 (8.0)
Total Confectionery	21.2	92.2 (4.7)	3.7 (4.5)	2.0 (6.3)	12.8 (17.9)
Crisps and Savoury Snacks	13.4	67.1 (3.4)	3.8 (4.5)	0.5 (1.6)	0.02 (0.02)
Cakes, Pastries and Puddings	16.5	59.7 (3.1)	2.8 (3.3)	1.2 (3.7)	4.4 (6.2)
Sugar Containing Soft Drinks	156	57.0 (2.9)	Nil	Nil	14.9 (20.8)
Total		379 (19.4)	15.2 (18.2)	6.2 (19.3)	37.8 (52.9)

#### **Conclusion**

A robust standardised methodology, used to calculate food and nutrient intakes on a population basis over a fifteenyear period, has allowed comparisons to be made over time, enabling a clear assessment of any dietary change. As with previous monitoring of the Scottish diet, little change has been found since 2001. Clear differences between households in the least and most deprived areas continue to be apparent in food consumption for the period 2013 to 2015. This work continues to be an important part of Food Standards Scotland's dietary surveillance programme.

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# **List of Abbreviations Used**

Defra Department of the Environment, Food and Rural Affairs

EFS Expenditure and Food Survey

g gram

HH Household kcal kilocalorie

LCFS Living Costs and Food Survey

MJ Megajoule = 1000 kilojoules

n number

NDNS National Diet and Nutrition Survey

NFS National Food Survey

NMES Non-Milk Extrinsic Sugar

NSP Non-Starch Polysaccharides

ONS Office for National Statistics

P People

PP Per Person

PW People Weighted

RII Relative Index of Inequality

SACN Scientific Advisory Committee on Nutrition

SDG Scottish Dietary Goal
SDT Scottish Dietary Target
SHeS Scottish Health Survey
SII Slope Index of Inequality

SIMD Scottish Index of Multiple Deprivation

UK United Kingdom

WRAP Waste and Resource Action Programme

95% CI 95% Confidence Interval

> greater than
< less than

% percent / percentage

# Explanatory note on some terms used in the report

Confidence Interval (CI)	A range of values that, it is estimated includes a population statistic at a
and	specific level of confidence. The 95% confidence interval (95% CI) of the
95% Confidence Interval (95% CI) of the Mean	mean refers to the range of values 2 standard errors above and 2 standard errors below the mean. There is only a 5% chance that this range excludes the true mean of the population. The 95% confidence
	interval (CI) calculates the region around the mean where the true figure is likely to be. The narrower the confidence interval about the observed mean the more reliable it is.
Food Energy	The energy obtained from food and drink (excluding alcohol).
Mean	The mean intake is calculated by summing all intakes and dividing by the total number of people in the sample. Therefore it is moderated by the high and/or low consumers. When there are non-consumers in the sample (i.e. those with an intake = 0) the population average must take these into account. The 95% CI calculates the region around the mean where the true figure is likely to be. The narrower the 95% CI of the observed mean the more reliable it is.
Median	The median is the middle value of a set of figures, i.e. for an odd number of cases the median is the middle score. For an even number of cases the median is the average of the two middle scores. For normally
	distributed data the mean equals the median.  The interquartile range represents 25% of values either side of the median.
	Data on food consumption and nutrient intake in a population is not usually normally distributed, some intakes will be very high or very low e.g. vitamin C or oil rich fish. For this reason it is more meaningful to give median food consumption and nutrient intake and to show interquartile ranges. This allows the proportion of low (e.g. for fruit and vegetables) or high consumers (e.g. for NMES) to be placed relative to the goal. Due to the nature of the LCFS data it is not possible to produce reliable medians.
Non-Milk Extrinsic Sugars (NMES)	Sugars, excluding those in milk and milk products that are not incorporated into the cellular structure of foods, such as fruit and vegetables e.g. sugar released from fruit when it is blended or juiced, table sugar, honey and added sugar in cakes, biscuit, sweets, breakfast cereals and soft drinks.
Percentage Food Energy (% Food Energy)	The percentage of food energy (the energy obtained from food and drink (excluding alcohol)) intake derived from a macronutrient i.e. fat, carbohydrate or protein.
Quintile	The portion of a frequency distribution containing one fifth of the total sample. For example the first quintile is the point with 1/5 of the data below it and 4/5 above it.
Scottish Index of Multiple Deprivation (SIMD)	The Scottish Index of Multiple Deprivation (SIMD) 2004, 2006, 2009 and 2012 identifies the most deprived areas across Scotland. It is based on indicators within seven individual domains of Current Income, Employment, Housing, Health, Education, Skills & Training, Geographic Access to Services & Telecommunications and Crime (which was added in 2006). SIMD is presented at data zone level, enabling small pockets of deprivation to be identified. The data zones are ranked from most deprived (1) to least deprived (6505) on the overall SIMD 2004 and on each of the individual domains. The 6505 data areas are ranked according to level of deprivation; these are then usually split into deciles with 1 being most deprived and 10 being most affluent. In this report the deciles have been combined to give quintiles. Thus Quintile 1 combines the most deprived deciles 1 and 2. SIMD 2004 was used for the analysis of data from 2001-2006, SIMD 2009 was used for the analysis of data from 2007-2009 and SIMD 2012 was used for the analysis of data from 2010-2015.

Sodium	Sodium chloride is the chemical name for salt. 100 millimoles of sodium is equivalent to the Scottish Dietary Goal of 6g of salt based on SACN advice.
Significant	The term significant refers to statistical significance (at the 95% level). It is not intended to imply substantive importance.
Takeaway Foods	Any food bought for consumption within the home is classed as household purchases. This includes for example, fish and chips; drive through brought home; home deliveries of: pizza, Chinese and Indian meals (Defra, 2009).
UK Data Archive	The UK Data Archive is a centre of expertise in data acquisition, preservation, dissemination and promotion and is curator of the largest collection of digital data in the social sciences and humanities in the UK.
Years	For the purposes of this report, for ease of understanding, dates have been presented in the text as single years:  2001 = 2001/2002, which refers to April 2001 to March 2002 2002 = 2002/2003, which refers to April 2002 to March 2003 2003 = 2003/2004, which refers to April 2003 to March 2004 2004 = 2004/2005, which refers to April 2004 to March 2005 2005 = 2005/2006, which refers to April 2005 to March 2006 2006 onwards = refers to Jan to Dec of the year in question From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results. Removing the duplicated quarter from one of the years (2005/2006 or 2006) would have led to a smaller sample for the year in question which may have not been representative
Periods	and may have been skewed due to seasonal purchases.  2001-2003 or 1st period = 2001/2002 - 2003/2004, which refers to April 2001 to March 2004  2004-2006 or 2nd period = 2004/2005 - 2006, which refers to refers to April 2004 to December 2006  2007-2009 or 3nd period refers to January 2007 to December 2009  2010-2012 or 4th period refers to January 2010 to December 2012  2013-2015 or 5th period refers to January 2013 to December 2015

# 1. Background

## 1.1 The Scottish Dietary Goals

In 1996, Scottish Dietary Targets (SDTs) were set as part of the Scottish Diet Action Plan (Scottish Office, 1996) in response to a report published by the Scottish Office in 1993 which highlighted the need for "radical change in Scotland...to achieve the health targets for 2000" (Scottish Office, 1993). These targets were based on the UK Dietary Reference Values (Department of Health, 1991) for selected nutrients (total fat, saturated fatty acids, salt, sugar as non-milk extrinsic sugars (NMES) and total complex carbohydrates) and also included key foods (fruit and vegetables, bread, breakfast cereals, white fish and oil rich fish). The baseline figures used in the setting of these targets were derived mainly from the National Food Surveys of 1989-1991 and were an indication of food and nutrient intake at that time. The SDTs were originally intended for achievement in 2005, but the timescale was extended to 2010 (Scottish Executive, 2003, Scottish Executive, 2004).

In 2013, Revised Dietary Goals for Scotland were published, updating the previous SDTs to "indicate the direction of travel, and assist policy development to reduce the burden of obesity and diet-related disease in Scotland" and to help to "facilitate improvements in the Scottish diet" (Scottish Government, 2013). These goals encompassed recommendations for intakes of both foods and nutrients, similar to those in the original SDTs regarding fruit and vegetables, oily fish, total fat, saturated fat, NMES, and salt. However, targets for consumption of bread, breakfast cereal and white fish were removed, and goals were added with regard to red meat, energy, energy density, trans fatty acids, and fibre as non-starch polysaccharides (NSP) (**Table 1**).

Table 1: Revised Dietary Goals for Scotland (Scottish Government, 2013)

Calories	A reduction in calorie intake by 120 kcal/person/day*					
	Average energy density of the diet to be lowered to 125 kcal/100g by reducing intake of					
	high fat and/or sugary products and by replacing with starchy carbohydrates (e.g. bread,					
	pasta, rice and potatoes), fruits and vegetables					
Fruit & Vegetables	Average intake of a variety of fruit and vegetables to reach at least 5 portions per person					
	per day (> 400g per day)					
Oily Fish	Oil rich fish consumption to increase to one portion per person (140g) per week					
Red Meat	Average intake of red and processed meat to be pegged at around 70g per person per day					
	Average intake of the very highest consumers of red and processed meat (90g per person					
	per day) not to increase*					
Fats	Average intake of total fat to reduce to no more than 35% food energy					
	Average intake in saturated fat to reduce to no more than 11% food energy					
	Average intake of trans fatty acids to remain below 1% food energy*					
Sugar	Average intake of NMES <sup>1</sup> to reduce to less than 11% of food energy in children and adults					
Salt	Average intake of salt to reduce to 6g per day*					
Fibre	An increase in average consumption of fibre <sup>2</sup> to increase to 18g/day by increasing					
	consumption of wholegrains, pulses and vegetables					

<sup>\*</sup>Not monitored using data from the LCFS; ¹NMES (Non-milk Extrinsic Sugars) are also known as added or free sugars and are found in sweets, biscuits, soft drinks, added to breakfast cereals, table sugar, honey and fruit juice. They are not in milk or integrally present in the cells of food such as fruit and vegetables; ²Non-starch polysaccharide (NSP) as measured by Englyst method.

## 1.2 Monitoring Progress towards the Scottish Dietary Goals

Progress towards the goals is monitored using a combination of surveys, but principally using the secondary analysis of the Living Costs and Food Survey (LCFS), following the endorsement of the Working Group Report on Monitoring Scottish Dietary Targets who concluded that it was the most appropriate method for Scotland (Food Standards Agency in Scotland, 2004). Other surveys that collect data on dietary intake include the Scottish Health Survey (SHeS) (McLean *et al.*, 2017) and the UK National Diet and Nutrition Survey (NDNS) (Bates *et al.*, 2016, Bates *et al.*, 2014b, Public Health England and Food Standards Agency, 2014, Roberts *et al.*, 2018), however neither survey provides annual data suitable for monitoring the goals.

Secondary analysis of the LCFS, (known as the Expenditure and Food Survey (EFS) before 2008) has monitored trends in population food and nutrient intakes from 2001. Previous reports describe the monitoring of progress towards the SDTs and additional foods and drinks indicative of diet quality (further foods from the Scottish Diet report (Scottish Office, 1993)) from 2001-2006 (Barton *et al.*, 2010), 2001 to 2009 (Barton and Wrieden, 2012) and energy density (Wrieden and Barton, 2011), and 2001-2012 (Wrieden and Barton, 2015). This current report updates previous reports, with the inclusion of data from 2013 to 2015, monitoring progress towards the 2013 Scottish Dietary Goals (which were the goals that were applicable for this time period). It also includes an update of consumption data, for 2001 to 2015, of foods shown to be significant contributors to energy, fat, saturated fat, NMES and NSP in a further report by Barton and Wrieden (2015).

# 1.3 Monitoring Progress towards Preventing Overweight and Obesity

The prevalence of overweight and obesity in adults aged 16 years and over in Scotland rose from 62% in 1995 to 65% in 2016, although the level has remained fairly constant since 2008 (McLean *et al.*, 2017). Despite this, Scotland still has one of the highest prevalence rates of overweight and obesity in Europe (World Obesity Federation, 2018). Obesity increases the risk of chronic conditions such as type 2 diabetes, hypertension, cardiovascular disease, certain cancers and osteoarthritis(World Health Organisation, 2003).

In 2017, the Scottish Government consulted with a wide range of stakeholders regarding proposed actions to improve diet and physical activity in Scotland (Scottish Government, 2017a). These proposals were partly informed by experience of implementing the Obesity Route Map (Scottish Government, 2010). The route map outlined a range of preventative actions covering energy consumption, food product reformulation, portion sizes, stocking policies, pricing, packaging, and advertising with the aim to reduce the rising obesity levels in order to avoid the massive burden of health and social care costs. Progress towards these actions is monitored through a set of 16 indicators and associated desired outcomes, with this secondary analysis of the LCFS used to monitor the indicators of fat, saturated fat and NMES intake.

The importance of healthy weight and tackling obesity has been identified as a priority in the Government's Programme for Scotland (Scottish Government, 2017b). Therefore, the results presented in this report will continue to support work by Food Standards Scotland and the Scottish Government to facilitate improvements to the diet in Scotland to help reduce the burden of obesity and diet-related disease.

## 1.4 Purpose

The purpose of this work was to obtain robust estimates of food consumption and nutrient intakes for 2013 to 2015 in Scotland in order to monitor progress toward the 2013 Scottish Dietary Goals (which were the goals that were applicable for this time period) and any change in the consumption of additional foods and drinks indicative of diet quality. Results are presented for 2001 to 2015 for the population and by Scottish Index of Multiple Deprivation (SIMD) quintiles for 2013-2015. In addition, the main contributors to intakes of energy, fat, saturated fat, NMES and NSP intakes were explored in order to inform Food Standards Scotland and Scottish Government policy and further explain differences in the intake of some foods by deprivation which do not necessarily translate into differences in nutrient intakes.

# 2. Methodology

# 2.1 Monitoring Scottish Dietary Goals and additional foods and drinks indicative of diet quality

#### 2.1.1. Overview

The methodology reported by Barton *et al.* (2010) and Wrieden *et al.* (2014) (summarised below) was used to calculate mean food consumption, nutrient intake and energy density from LCFS data for 2013 to 2015 in order that comparisons could be made with results from previous years. LCFS data for each year, in its raw form, was obtained from UK and the Office for National Statistics (ONS) (prior to it being made publically available on the UK Data Archive, University of Essex). Population average intakes of foods, nutrients and energy density relating to the 2013 Scottish Dietary Goals and additional foods and drinks indicative of diet quality, were estimated based on household purchases. Full details on the methodology can be found in **Appendix 1**, and the advantages and disadvantages of using data from the LCFS are provided in **Appendix 2**.

## 2.1.2 Coding Frames and Conversion Factors

The detailed coding frames (**Appendices 3 and 4**) used in this analysis were developed previously by Barton *et al.* (2010) and Wrieden and Barton (2011), for both household and eating out food purchases. They list foods/drinks (and codes) which form part of each food based dietary goal or food group of interest (**Appendix 3**) or are included within the food and milk method of calculating energy density (**Appendix 4**) and provide details of conversion factors applied to the food weights. Conversion factors were applied to food purchases to estimate the actual amount of each food that was consumed. They were applied (to each food code) to estimate the proportion of fruit, vegetable, meat etc. in a composite food; the proportion of food in a food grouping (where it bridges more than one food grouping); to convert a raw to cooked weight (where appropriate); and to account for the proportion of inedible waste. Estimates of edible waste for the UK population published by WRAP (2008) have been mapped by Defra to each of the food codes used in the LCFS (**Appendix 5**). Inedible waste (i.e. bone) was taken into account when calculating the conversion factor for each food code (**Appendices 3 and 4**).

#### 2.1.3 Data Handling

**Appendix 6** provides a flowchart which illustrates the data handling process for data from each year (in MS Access, MS Excel and SPSS), which were then merged in SPSS to obtain one working data file. Data on sampling strata and clusters, and SIMD quintiles were obtained from the UK ONS, with data on SIMD quintiles by postcode initially obtained from Scottish Neighbourhood Statistics and sent to ONS to link to anonymised case IDs.

In brief, for estimating food consumption, in MS Access the raw LCFS data was linked to a table constructed from the coding frame which listed each food grouping, each food within these groupings and the appropriate conversion and waste factors to be applied to the calculations. Household and eating out purchases for two weeks, minus waste, for each food code were multiplied by the appropriate conversion factor and summed by food grouping. This was then divided by the number of individuals in the household and divided by 14 to obtain

the mean daily consumption per person, except for oily fish consumption, which is expressed as a weekly intake.

For estimating nutrient intake, in MS Access, household purchase data minus waste for each food code was multiplied by the appropriate nutrient content per gram (annual nutrient databanks provided by Defra) to provide the nutrient intake per food. The food composition data included within this databank originates from the NDNS, with each of the Defra food codes having at least one NDNS composition code. Where more than one NDNS code was required to make up a food type from the EFS/LCFS, a weighted average nutrient composition was calculated based on market share estimates. The nutrient composition data was supplied to Defra by the FSA for 2001-2009 and by the Department of Health and Public Health England for 2010 onwards. Household, eating out and combined nutrient intakes for foods were then summed for each household. These were then divided by the number of individuals in the household and divided by 14 to obtain the mean daily intake per person for each nutrient. Energy density for food and milk was calculated using the methodology developed by Wrieden *et al.* (2014) and quintiles of energy density were calculated in SPSS by year (to negate any difference in energy density quintile over time).

Food and nutrient data were exported from MS Access to SPSS and merged with household variables as described in **Appendix 1**.

## 2.2 Contribution of foods to intakes of energy and selected nutrients

As per section 2.1.3, household purchase data over two weeks minus estimated waste (Appendix 5) for each food code was multiplied by the appropriate nutrient content per gram (provided by Defra) in MS Access to obtain the nutrient intake per food for each household. These intakes were then divided by the number of individuals in the household and divided by 14 to obtain the mean daily nutrient intake per person for each food. The food groupings described by (Barton and Wrieden, 2015) were used in the current analysis with the exception that it was decided that confectionery and sweet biscuits should be considered separately, therefore the current analysis was for 65 food groupings and 7 combined groups (Appendices 7 and 8). As this work considered foods as consumed, these food groupings are broad and are different to those used for the monitoring analysis in that they do not consider the different components of composite dishes / items. For example the 'total processed red meat' group includes the carbohydrate component for some items (e.g. pastry) and the 'fruit and vegetable' group does not include the vegetable component of composite dishes (e.g. Bolognese, pizza etc.). Mean daily intakes per person of each of the food groupings were calculated and the resultant data was exported to SPSS. In order to calculate mean population intakes it was also necessary to add information on zero intake for non-consumers of foods per household (as described by Barton et al., (2015)). The contribution that each food grouping made to energy, fat, saturated fat, NMES and NSP intake was then calculated.

#### 2.3 Analysis of Data

Due to the multi-staged stratified sampling procedure of the LCFS, data were analysed using Descriptive Statistics and General Linear Models within the Complex Samples module of SPSS, version 25 (SPSS Inc., Chicago, IL, USA). Sampling of the EFS/LCFS is designed in such a way to ensure that the results are

representative of the population of the UK (Bulman *et al.*, 2017) and each of the survey regions, of which Scotland is one. The data were weighted according to the sampling methodology (of the original data collected by ONS (Office for National Statistics, 2017) to reduce the effect of non-response bias and to ensure that data were representative of the population) in order that estimates obtained more accurately reflected that of the Scottish population and household composition. The weights were produced in two stages: firstly the data were weighted to compensate for non-response (sample-based weighting) and secondly the sample distribution was weighted so that it matched the population distribution in terms of region, age group and sex (population based weighting) (Department for Environment Food & Rural Affairs (Defra), 2013). The weights were provided by Defra.

Linear associations between food consumption/ nutrient intake/ energy density and year or SIMD quintile were assessed by general linear modelling which was used to obtain estimates of the means with 95% confidence intervals (95% CI) and associated p-values. Overall associations between food consumption/ nutrient intake/ energy density, and year or SIMD quintile were assessed by adjusted Wald tests. The adjusted Wald test was used within regression analyses to test whether the value for all years or SIMD categories were equal or whether there was at least one difference between year or SIMD quintile. P-values ≤0.01 are highlighted in bold to indicate significance at the 1% level.

In addition, for the monitoring work, the Slope Index of Inequality (SII) was calculated as a measure of absolute inequality (ScotPHO, 2007) of food consumption and nutrient intake, i.e. the absolute difference between the least and most deprived individuals. The SII was derived by ranking each household by SIMD (within the 3 year period SIMD was investigated within i.e. 2001-2003, 2004-2006, 2007-2009, 2010-2012 and 2013-2015). The rank scores obtained were divided by the sample size (for the appropriate 3 year period) to obtain a value between 0 and 1, weighted to the relative distribution across SIMD quintiles. Linear regression analysis (weighted least squares) of the mean intake within each SIMD quintile was used to calculate the SIIs for each food / nutrient. The SII is the resulting regression (or slope) coefficient from the regression analysis. For interpretation purposes, the SII is the mean difference in intake between the hypothetically most deprived relative to the hypothetically least deprived person in the population (Shaw *et al.*, 2007).

In order to compare a measure of inequality across populations or years, the relative index of inequality (RII) was calculated, which is the SII divided by the overall population mean food consumption or nutrient intake. This helps when making comparisons of the magnitude of the association between the same socio-economic position measures over time.

For both SII and RII, the underlying assumption is that there is a linear gradient across the deprivation variable. A positive SII indicates that consumption / intake is higher in the least deprived and a negative figure indicates that consumption / intake is greatest in the most deprived. Further detail is provided in **Appendix 9**.

# 3. Results

# 3.1 Monitoring Scottish Dietary Goals and additional foods and drinks indicative of diet quality

Results are presented as population per capita means (i.e. including consumers and non-consumers) for household and eating out foods combined, in g per day for foods and drinks with the exception of fish, which is expressed in g per week. Comparison is made against the 2013 Scottish Dietary Goals (where appropriate) as these were the goals that were applicable for the 2013-2015 data added in this report. P-values ≤0.01 are highlighted in bold to indicate significance at the 1% level, although it should be noted that changes or differences that are statistically significant might not necessarily be nutritionally meaningful.

Mean food consumption and nutrient intakes relating to the Scottish Dietary Goals (**Table 1**) and additional foods, drinks and nutrients indicative of diet quality are presented in three year blocks from 2001-2003 through to 2013-2015. Data on individual years from 2001 through to 2015 is presented in **Appendix 10** (see explanatory notes for further details on sampling years – pages xiii and xiv). Food consumption and nutrient intakes for Scotland are also presented for combined years' data from the LCFS by SIMD quintile. Data from 2013 to 2015 are combined and presented by quintiles of the SIMD distribution, with quintile 1 representing the most deprived fifth of the population and quintile 5 the least deprived. Results tables with data by SIMD quintile also provide SII and RII figures with 95% confidence intervals (95% CI). **Appendix 9** presents these figures for 2001-2003, 2004-2006, 2007-2009, 2010-2012 and 2013-2015 together to allow for a comparison to be made over time of absolute and relative differences.

### 3.1.1 Food Consumption Relating to the 2013 Scottish Dietary Goals

# 3.1.1.1 Food Consumption Relating to the Scottish Dietary Goals by Year

Fruit and Vegetables

Between 2001-2003 and 2013-2015 there was no significant change in consumption of fruit and vegetables (including fruit and vegetable juices and baked beans). Mean consumption of fruit and vegetables for 2013-2015 was 258g/day (**Table 2**). This equates to just over three portions per day and is considerably lower than the 2013 goal of at least 400g or five portions per day. Inclusion of fruit juice increased fruit and vegetable consumption figures by the equivalent of half a portion per day but the proportion of fruit to fruit juice remained similar over the time period.

Mean fruit and vegetable consumption remains almost two portions below the '5 a day' population goal.

There was no significant increase in fruit and vegetable consumption over the 15-year period to 2015.

#### Oil Rich Fish

The Scottish Dietary Goal for oil rich fish was not met by 2013-2015 and there was no significant change in consumption since 2001-2003. Mean consumption for both 2001-2003 and 2013-2015 was 29g/week (**Table 2**), which is considerably less than the goal of 140g/week.

There was no significant change in oil rich fish consumption between 2001-2003 and 2013-2015.

#### Total Red Meat

There has been a significant reduction in the consumption of total red meat since 2001-2003. Mean daily consumption of total red meat has decreased from 65g in 2001-2003 to 56g in 2013-2015 (**Table 2**) (P-value for linear association <0.001). This was partly accounted for by a fall in processed red meat products (which includes the meat portion of sausages, meat pies, corned beef, burgers and pate and is a component of total red meat). It should be noted that the Scottish Dietary Goal of ≤70g per day is based on intake calculated from the UK NDNS and not household purchase data. Due to methodological differences between surveys, the amounts presented in this report, although similar, should only be used to assess change over time rather than assessing progress against the absolute amount.

There was a significant reduction in total red meat consumption between 2001-2003 and 2013-2015.

The population is meeting the Scottish Dietary Goal for total red meat consumption.

Table 2: Mean Consumption<sup>1</sup> of 2013 Scottish Dietary Goal Foods by Year, 2001 to 2015 - EFS / LCFS data (g/person/day with the exception of fish: g/person/week)

Food <sup>2</sup>	Scottish	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015	P-value for	P-value for	
	Dietary Goal	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Linear Association	Overall Association	
Fruit and Vegetables <sup>4, 5</sup>	>400g per day	256	276	285	268	258		0.017	
		243, 269	262, 289	268, 301	256, 279	245, 271	0.799		
Fruit <sup>4</sup>		133	147	154	140	129		0.002	
		123, 142	138, 156	143, 166	133, 148	121, 138	0.346		
Fruit (and vegetable) Juice		43	45	47	44	37		0.085	
			40, 50	42, 52	38, 50	32, 42	0.108		
Vegetables <sup>5</sup>		123	129	130	128	129		0.486	
		118, 128	123, 135	123, 137	121, 134	122, 135	0.301		
Oil Rich Fish	140g per week	29	35	29	29	29		0.271	
		25, 32	29, 41	26, 33	26, 33	25, 34	0.545		
Total Red Meat <sup>6</sup>	≤70g per day	65	61	61	61	56			
		63, 67	58, 64	58, 64	58, 64	53, 59	<0.001	<0.001	
n Households n People n People Weighted <sup>7</sup>		1750 4022 14934	1733 3979 14792	1537 3373 15364	1436 3181 15337	1266 2825 15679			

<sup>1</sup>Household and eating out consumption combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2004-2006 results; <sup>4</sup>Fruit includes fruit and vegetable juice; <sup>5</sup>Vegetables include baked beans; <sup>6</sup>Meat portion only (includes processed red meat products e.g. sausages, meat pies, burgers, and pate); <sup>7</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

# 3.1.1.2 Food Consumption Relating to the 2013 Scottish Dietary Goals by SIMD Quintile (2013-2015) Fruit and Vegetables

**Table 3** and **Figure 1** show a clear gradient in fruit and vegetable consumption by SIMD quintile. In the most deprived quintile (Quintile 1), mean daily consumption was 201g compared with 323g in the least deprived quintile (Quintile 5) for 2013 to 2015. This linear trend was highly significant (P<0.001).

Two and a half portions per day of fruit and vegetables were consumed in the most deprived fifth of the population compared to four portions per day in the least deprived fifth.

#### Oil Rich Fish

Consumption of oil-rich fish was highest in the least deprived quintile (Quintile 5) for 2013 to 2015, with a mean weekly consumption of 40g compared to 20g in the most deprived quintile (Quintile 1) (P-value for linear association <0.001) (**Table 3**, **Figure 2**).

Households in the most deprived fifth of the population were on average consuming half the amount of oil rich fish of those in the least deprived fifth.

#### Total Red Meat

There was no significant difference in total red meat consumption by SIMD quintile (**Table 3**, **Figure 3**), with mean intakes in all quintiles meeting the 2013 Scottish Dietary Goal of ≤70g/day.

There was no difference in mean total red meat consumption by SIMD quintile.

#### Absolute and Relative Inequality

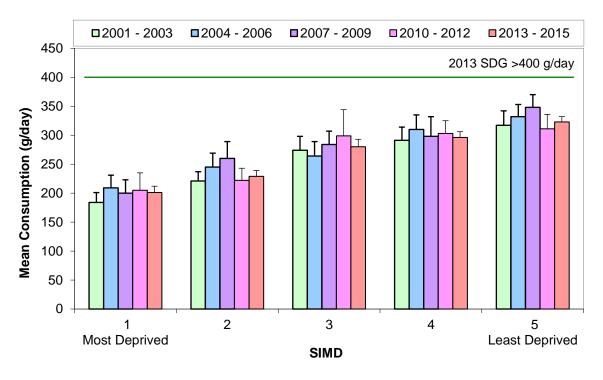
Analysis by SII and RII confirm the above differences by SIMD (for fruit and vegetables, oil rich fish and total red meat), in absolute and relative terms. **Appendix 9** provides the results of the SII and RII analysis over time showing that there has been no significant change in inequalities and that absolute and relative inequalities in food intakes have not changed appreciably between 2001 and 2015. The magnitude of the inequalities is substantial for some foods, e.g. fruit and vegetables where the difference between the most and least deprived is the equivalent of one and a half portions per day.

Table 3: Mean Consumption<sup>1</sup> of 2013 Scottish Dietary Goal Foods by SIMD Quintile, 2013 to 2015 Combined - LCFS data (g/person/day, with the exception of fish g/person/week)

Food <sup>2</sup>	2013 Scottish Dietary Goal	SIMD Quintile 1* Mean	SIMD Quintile 2 Mean	SIMD Quintile 3 Mean	SIMD Quintile 4 Mean	SIMD Quintile 5* Mean	P-value for Linear Association	P-value for Overall Association	SII <sup>3,4**</sup> 95% CI	RII <sup>4***</sup> 95% CI
		95% CI	95% CI	95% CI	95% CI	95% CI				
Fruit and Vegetables <sup>5,6</sup>	>400g	201	229	280	296	323	.0.004	<0.001	131	0.51
	per day	190, 212	219, 240	267, 293	285, 308	314, 331	<0.001		91, 172	0.35, 0.67
Fruit <sup>3</sup>		97	114	148	158	179		0.004	89	0.68
		90, 103	107, 120	139, 158	150, 166	171, 187	<0.001	<0.001	59, 118	0.46, 0.91
Fruit (and vegetable) Juice		31	36	45	44	56	<0.001	0.001	28	0.75
		28, 35	33, 39	39, 52	41, 47	52, 60			16, 39	0.44, 1.06
Vegetables <sup>6</sup>		104	116	132	138	144		<0.001	43	0.33
		97, 111	111, 121	126, 138	133, 144	140, 149	0.001		2.0, 66	0.16, 0.51
Oil Rich Fish	140g per week	20	26	29	35	40			23	0.77
		17, 23	22, 29	25, 33	29, 41	36, 44	<b>0.003</b> 0.03	0.037	8.2, 37	0.28, 1.27
Total Red Meat <sup>7</sup>	≤70g per day	65	62	61	61	56	0.404	0.117	-7.8	-0.14
		61, 69	60, 65	59, 64	58, 63	54, 58	0.134		-18, 2.5	-0.32, 0.04
n Households		221	255	258	269	263			1266	1266
n People n People Weighted <sup>8</sup>		459 2515	556 3075	568 3131	631 3588	611 3370	_		2825 15679	2825 15679

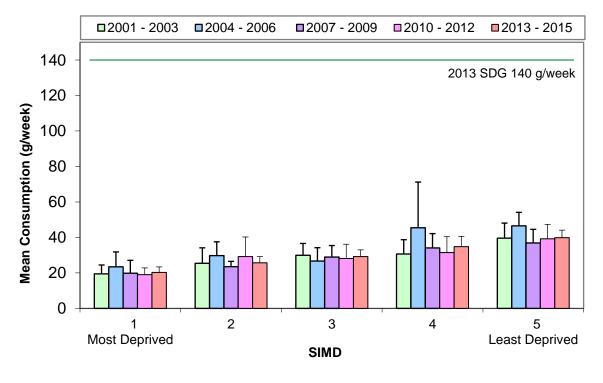
<sup>1</sup>Household and eating out consumption combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); <sup>4</sup>A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; <sup>5</sup>Fruit includes fruit and vegetable juice; <sup>6</sup>Vegetables include baked beans; <sup>7</sup>Meat portion only (includes processed red meat products e.g. sausages, meat pies, burgers, and pate); <sup>8</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population; \*Scottish Index of Multiple Deprivation (SIMD) Quintiles: 1=Most Deprived; 5=Least Deprived; \*SII=Slope Index of Inequality; \*\*\*RII=Relative Index of Inequality

Figure 1: Mean [95% CI] fruit<sup>1</sup> and vegetable<sup>2</sup> consumption by SIMD quintile compared to the 2013 Scottish Dietary Goal (>400g/day)



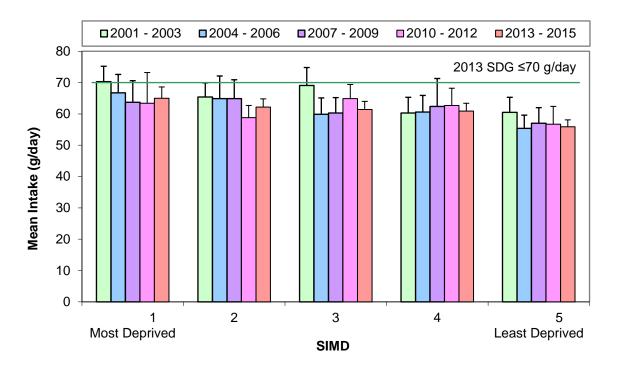
<sup>1</sup>Fruit includes fruit and vegetable juice; <sup>2</sup>Vegetables includes baked beans; 2013-2015 P (linear association) <0.001; P (overall association) <0.001

Figure 2: Mean [95% CI] oil rich fish consumption by SIMD quintile compared to the 2013 Scottish Dietary Goal (140g/week)



2013-2015 P (linear association) = 0.003; P (overall association) = 0.037

Figure 3: Mean [95% CI] total red meat¹ consumption by SIMD quintile compared to the 2013 Scottish Dietary Goal (≤70g/day)



<sup>1</sup>Meat portion only; 2013-2015 P (linear association) = 0.134; P (overall association) = 0.117

## 3.1.2 Nutrient Intake Relating to the 2013 Scottish Dietary Goals

There was little change in consumption of the Scottish Dietary Goal nutrients between 2001 and 2015, and none of the goals were met by 2015.

# 3.1.2.1 Nutrient Intake Relating to the 2013 Scottish Dietary Goals by Year

### **Energy Density**

Energy density, calculated from food and milk, has increased significantly between 2001-2003 and 2013-2015 (P-value for linear association = 0.002) (**Table 4**). The mean energy density for 2013-2015 was 175 kcal/100g, which is considerably higher than the 2013 Scottish Dietary Goal of 125 kcal/100g.

Energy density has increased between 2001-2003 and 2013-2015.

#### Total Fat and Saturated Fat

There has been no evidence of progress towards the 2013 Scottish Dietary Goal for total fat (average intake to reduce to no more than 35% food energy) (**Table 4**) with mean intakes increasing slightly, but not significantly, from 38.8% for 2001-2003 to 39.3% for 2013-2015. A significant reduction was found in the percentage of food energy from saturated fat (P-value for linear association = 0.006) (**Table 4**). However, the mean percentage of food energy contributed by saturated fat was 15.3% for 2013-2015, which is considerably higher than the 2013 goal of no more than 11% food energy.

There has been no significant change in total fat intakes between 2001-2003 and 2013-2015.

#### Non-milk Extrinsic Sugars

A significant reduction over time was found for the percentage of food energy from non-milk extrinsic sugars (NMES) (**Table 4**). The mean percentage of food energy contributed by NMES fell from 15.7% in 2001-2003 to 14.3% in 2013-2015. The overall decrease in the percentage of energy from NMES was highly significant (P-value for linear association <0.001), however it remains very high compared to the 2013 Scottish Dietary Goal of no more than 11% food energy.

Saturated fat and non-milk extrinsic sugar intakes (expressed as a percentage of food energy) have fallen slightly between 2001-2003 and 2013-2015 but still exceed population goals.

#### Non-starch Polysaccharide

There has been no change in the mean intake of non-starch polysaccharide (NSP) between 2001-2003 and 2013-2015 (**Table 4**), with the mean intake remaining considerably below the 2013 Scottish Dietary Goal of 18g/day. Mean NSP intake was 12g/day for both 2001-2003 and 2013-2015.

There has been no significant change in fibre intakes between 2001-2003 and 2013-2015.

#### Energy, Protein, Carbohydrate and Alcohol

Energy intake is not monitored using data from the LCFS, and is provided for comparison purposes only. A significant reduction over time was found for food energy intake (**Table 5**), with a mean intake in 2001-2003 of 2052kcal/day compared to 1889kcal/day in 2013-2015 (P-value for linear association <0.001). Protein, carbohydrate, total energy and alcohol intakes are not part of the 2013 Scottish Dietary Goals and are provided for comparison purposes only (**Table 5**).

Table 4: Mean Intake<sup>1</sup> of 2013 Scottish Dietary Goal Nutrients by Year, 2001 to 2015 – EFS / LCFS data (units/person/day)

Nutrient <sup>2</sup>	2013 Scottish Dietary Goal	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015	P-value for	P-value for Overall Association
		Mean	Mean	Mean	Mean	Mean	Linear Association	
		95% CI	95% CI	95% CI	95% CI	95% CI		
Energy Density kcal/100g4	125kcal/100g	171	170	172	173	175		0.048
		169, 173	168, 173	170, 174	170, 176	173, 178	0.002	
% Food Energy Fat	≤35%	38.8	38.7	38.9	39.1	39.3	0.055	0.408
		38.4, 39.2	38.3, 39.2	38.5, 39.3	38.6, 39.6	38.8, 39.8		
% Food Energy Saturated Fat	≤11%	15.6	15.5	15.3	15.2	15.3		0.019
		15.4, 15.7	15.3, 15.7	15.1, 15.4	14.9, 15.5	15.0, 15.5	<b>0.006</b>	
% Food Energy NMES	≤11%	15.7	15.3	14.9	14.6	14.3		0.001
		15.3, 16.1	14.8, 15.7	14.6, 15.2	14.2, 15.0	13.7, 14.9	<0.001	
NSP	18g/day	12	12	13	12	12		0.072
		12, 13	12, 13	12, 13	12, 13	11, 12	0.076	
n Households n People		1750 4022	1733 3979	1537 3373	1436 3181	1266 2825		
n People Weighted⁵		14934	14792	15364	15337	15679		

<sup>&</sup>lt;sup>1</sup>Household and eating out intakes combined; <sup>2</sup>See appendices 1, 3 and 4 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2004-2006 results; <sup>4</sup>Calculated from food and milk; <sup>5</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

Table 5: Mean Intake<sup>1</sup> of Energy and Macronutrients by Year, 2001 to 2015 – EFS / LCFS data (units/person/day)

Nutrient <sup>2</sup>	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015	P-value for	P-value for
	Mean	Mean	Mean	Mean	Mean	Linear Association	Overall Association
	95% CI	95% CI	95% CI	95% CI	95% CI	710000/41/077	, 10000/41/0//
Food Energy kcal	2052	1991	2038	1942	1889	2 224	<0.001
	2011, 2094	1947, 2035	1985, 2092	1885, 1998	1833, 1945	<0.001	
Food Energy MJ	8.6	8.4	8.6	8.1	7.9		
	8.5, 8.8	8.2, 8.6	8.3, 8.8	7.9, 8.3	7.7, 8.2	<0.001	<0.001
% Food Energy Protein	14.3	14.3	14.2	14.2	14.1		
-	14.2, 14.5	14.1, 14.5	14.0, 14.4	14.0, 14.4	13.9, 14.2	0.040	0.233
% Food Energy Carbohydrate	46.9	47.0	46.9	46.6	46.5		0.514
-	46.5, 47.3	46.5, 47.4	46.4, 47.3	46.1, 47.1	45.9, 47.0	0.101	
						,	
Total Energy	2126	2065	2107	2011	1952		
kcal	2082, 2170	2019, 2111	2052, 2161	1955, 2067	1894, 2009	<0.001	<0.001
Total Energy MJ	8.9	8.6	8.8	8.4	8.2		<0.001
	8.7, 9.1	8.4, 8.8	8.6, 9.0	8.2, 8.6	7.9, 8.4	<0.001	
% Total Energy Alcohol	3.8	3.7	3.8	3.7	3.6		0.940
	3.5, 4.1	3.5, 4.0	3.5, 4.1	3.3, 4.0	3.3, 4.0	0.507	
n Households	1750	1733	1537	1436	1266		
n People	4022	3979	3373	3181	2825		
n People Weighted <sup>4</sup>	14934	14792	15364	15337	15679		

<sup>&</sup>lt;sup>1</sup>Household and eating out intakes combined; <sup>2</sup>See appendices 1, 3 and 4 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2004-2006 results; <sup>4</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

## 3.1.2.2 Nutrient Intake Relating to the Scottish Dietary Goals by SIMD Quintile (2013-2015)

**Energy Density** 

Energy density was lower in the least deprived quintile of SIMD (Quintile 5) at 167kcal/100g, compared with 177kcal/100g in the most deprived quintile (Quintile 1) for 2013 to 2015 (**Table 6**, **Figure 4**), however this linear association with SIMD quintile was not statistically significant. Mean energy density in all quintiles of SIMD failed to meet the 2013 Scottish Dietary Goal.

There was no difference in mean energy density by SIMD quintile.

#### Total Fat and Saturated Fat

**Table 6** and **Figures 5 and 6** show that there was no statistical association between SIMD quintile and the percentage of food energy from total or saturated fat for 2013 to 2015.

There was no difference in mean total or saturated fat intake by SIMD quintile.

#### Non-Milk Extrinsic Sugars

NMES intake was lower in the least deprived quintile (Quintile 5) at 14.1% of food energy, compared with 15.7% in the most deprived quintile (Quintile 1) for 2013 to 2015 (**Table 6**, **Figure 7**), however this association with SIMD quintile was not statistically significant. Mean intakes in the least deprived quintile of SIMD still failed to meet the 2013 Scottish Dietary Goal.

There was no difference in mean NMES intake by SIMD quintile.

#### Non-Starch Polysaccharide

NSP intake was significantly higher in the least deprived quintile of SIMD (Quintile 5) at 13g/day compared with 11g/day in the most deprived quintile (Quintile 1) for 2013 to 2015 (P-value for linear association <0.001) (**Table 6**, **Figure 8**). However mean intakes in all quintiles of SIMD failed to meet the 2013 Scottish Dietary Goal

Non-starch polysaccharide intake was highest in the least deprived fifth of the population, but failed to meet the goal in all SIMD quintiles.

### Energy, Protein, Carbohydrate and Alcohol

**Table 7** shows that there was no statistically significant linear association between food energy, protein, carbohydrate, total energy and alcohol intake and SIMD quintile for 2013 to 2015.

### Absolute and Relative Inequality

Analysis by SII and RII confirm the above differences by SIMD in absolute and relative terms. **Appendix 9** provides the results of the SII and RII analysis over time showing that there has been no significant change in inequalities from 2001 to 2015.

Table 6: Mean Intake<sup>1</sup> of 2013 Scottish Dietary Goal Nutrients by SIMD, 2013 to 2015 Combined - LCFS data (units/person/day)

Nutrient <sup>2</sup>	2013 Scottish Dietary Goal	SIMD Quintile 1* Mean 95% CI	SIMD Quintile 2 Mean 95% CI	SIMD Quintile 3 Mean 95% CI	SIMD Quintile 4 Mean 95% CI	SIMD Quintile 5* Mean 95% CI	P-value for Linear Association	P-value for Overall Association	SII <sup>3,4</sup> ** 95% CI	RII <sup>4***</sup> 95% CI
Energy Density kcal/100g <sup>5</sup>	125kcal/	177	175	172	171	167	0.076	0.400	-11	-0.06
	100g	174, 179	173, 178	169, 174	169, 174	165, 169			-24, 1.2	-0.14, 0.01
% Food Energy Fat	≤35%	38.9	39.0	39.0	39.0	38.9	0.998	0.798	0.0	0.00
		38.5, 39.3	38.7, 39.4	38.5, 39.4	38.5, 39.5	38.6, 39.3			-1.8, 1.7	-0.04, 0.04
% Food Energy Saturated Fat	≤11%	15.2	15.2	15.5	15.4	15.4	0.982	0.924	0.0	0.00
		15.0, 15.4	15.1, 15.4	15.2, 15.7	15.2, 15.6	15.2, 15.6			-0.8, 0.8	-0.05, 0.05
% Food Energy NMES	≤11%	15.7	15.3	15.1	14.6	14.1	0.053	0.123	-1.6	-0.12
		15.1, 16.2	14.9, 15.7	14.7, 15.6	14.3, 15.0	13.8, 14.5			-3.3, 0.0	-0.23, 0.00
NSP	18g/day	11	12	13	13	13	<0.001	<0.001	3.2	0.27
		11, 12	11, 12	12, 13	13, 13	13, 13			2.0, 4.3	0.17, 0.36
n Households n People n People Weighted <sup>6</sup>		221 459 2515	255 556 3075	258 568 3131	269 631 3588	263 611 3370			1266 2825 15679	1266 2825 15679

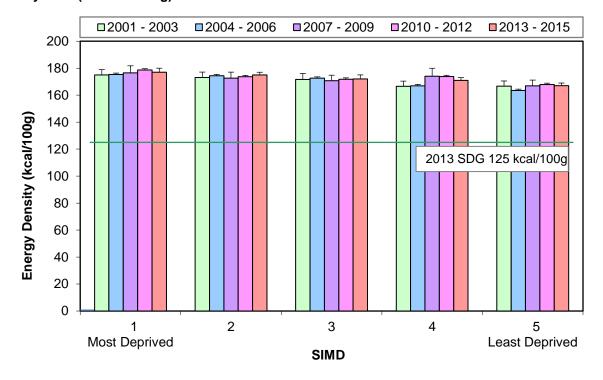
<sup>&</sup>lt;sup>1</sup>Household and eating out intakes combined; <sup>2</sup>See appendices 1, 3 and 4 for methodology; <sup>3</sup>Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); <sup>4</sup>A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; <sup>5</sup>Calculated from food and milk; <sup>6</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population; \*Scottish Index of Multiple Deprivation (SIMD) Quintiles: 1=Most Deprived; 5=Least Deprived; \*\*SII=Slope Index of Inequality; \*\*\*RII=Relative Index of Inequality

Table 7: Mean Intake<sup>1</sup> of Energy and Macronutrients by SIMD, 2013 to 2015 Combined - LCFS data (units/person/day)

Nutrient <sup>2</sup>	SIMD Quintile 1* Mean 95% CI	SIMD Quintile 2 Mean 95% CI	SIMD Quintile 3 Mean 95% CI	SIMD Quintile 4 Mean 95% CI	SIMD Quintile 5* Mean 95% CI	P-value for Linear Association	P-value for Overall Association	SII <sup>3,4</sup> ** 95% CI	RII <sup>4***</sup> 95% CI
Food Energy kcal	1955	1924	2023	2025	1979	0.047	0.008	177	0.09
	1890, 2020	1877, 1970	1971, 2075	1977, 2073	1941, 2017			2.6, 351	0.00, 0.19
Food Energy MJ	8.2	8.1	8.5	8.5	8.3	0.046	0.007	0.7	0.09
	7.9, 8.5	7.9, 8.3	8.3, 8.7	8.3, 8.7	8.1, 8.5			0.0, 1.5	0.00, 0.19
% Food Energy Protein	14.1	14.1	14.2	14.3	14.5	0.086	0.324	0.4	0.03
	13.9, 14.2	14.0, 14.3	14.0, 14.4	14.1, 14.4	14.3, 14.6			-0.1, 0.9	0.00, 0.06
% Food Energy Carbohydrate	47.0	46.8	46.8	46.7	46.5	0.556	0.708	-0.5	-0.01
	46.6, 47.4	46.5, 47.1	46.3, 47.3	46.2, 47.1	46.2, 46.9			-2.3, 1.3	-0.05, 0.03
tal Energy	2015	1991	2093	2097	2055	0.004	2 222	24	0.10
kcal	1949, 2080	1944, 2039	2042, 2145	2048, 2146	2015, 2096	0.034	0.009	16, 392	0.01, 0.20
Total Energy MJ	8.4	8.3	8.8	8.8	8.6	0.034	0.009	0.9	0.10
	8.2, 8.7	8.1, 8.5	8.5, 9.0	8.6, 9.0	8.4, 8.8			0.1, 1.6	0.01, 0.20
% Total Energy Alcohol	3.4	3.7	3.8	3.7	3.9	0.390	0.115	0.5	0.15
	3.1, 3.8	3.4, 4.0	3.5, 4.1	3.4, 4.0	3.6, 4.2			-0.7, 1.8	-0.20, 0.50
n Households n People	221 459	255 556	258 568	269 631	263 611			1266 2825	1266 2825
n People Weighted <sup>5</sup>	2515	3075	3131	3588	3370			15679	15679

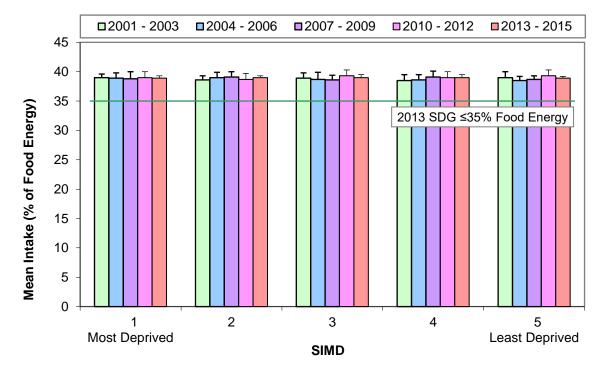
<sup>&</sup>lt;sup>1</sup>Household and eating out intakes combined; <sup>2</sup>See appendices 1, 3 and 4 for methodology; <sup>3</sup>Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); <sup>4</sup>A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; <sup>5</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population; \*Scottish Index of Multiple Deprivation (SIMD) Quintiles: 1=Most Deprived; 5=Least Deprived; \*\*SII=Slope Index of Inequality; \*\*\*RII=Relative Index of Inequality

Figure 4: Mean [95% CI] energy density (food and milk) by SIMD quintile compared to the 2013 Scottish Dietary Goal (125 kcal/100g)



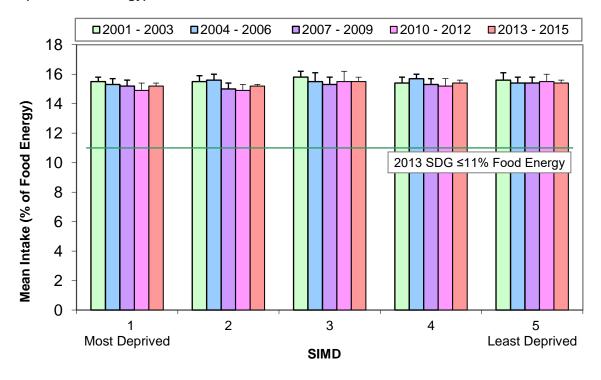
2013-2015 P (linear association) = 0.076; P (overall association) = 0.400

Figure 5: Mean [95% CI] fat intake by SIMD quintile compared to the 2013 Scottish Dietary Goal ( $\leq$ 35% food energy)



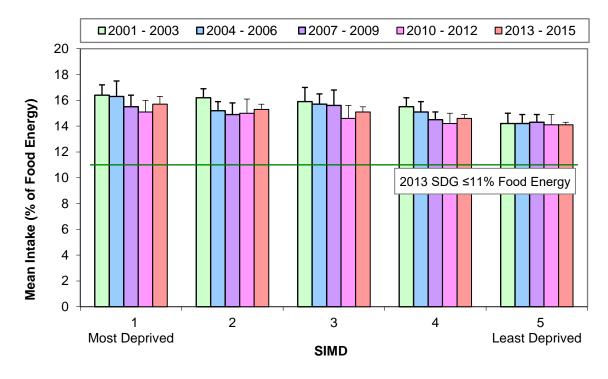
2013-2015 P (linear association) = 0.998; P (overall association) = 0.798

Figure 6: Mean [95% CI] saturated fat intake by SIMD quintile compared to the 2013 Scottish Dietary Goal (≤11% food energy)



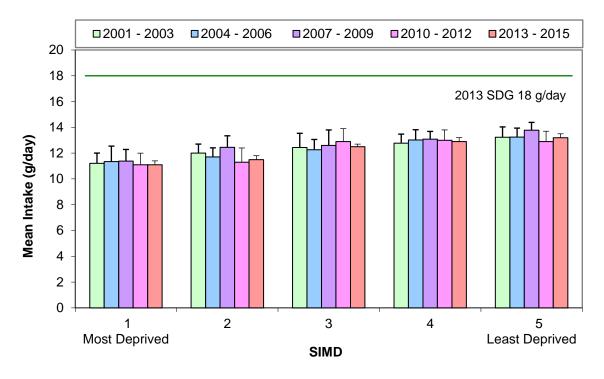
2013-2015 P (linear association) = 0.982; P (overall association) = 0.924

Figure 7: Mean [95% CI] NMES intake by SIMD quintile compared to the 2013 Scottish Dietary Goal ( $\leq$ 11% food energy)



2013-2015 P (linear association) = 0.053; P (overall association) = 0.123

Figure 8: Mean [95% CI] NSP intake by SIMD quintile compared to the 2013 Scottish Dietary Goal (18g/day)



2013-2015 P (linear association) < 0.001; P (overall association) < 0.001

## 3.1.3 Consumption of Additional Foods and Drinks Indicative of Diet Quality

#### 3.1.3.1 Food Consumption by Year

#### Bread

Mean total daily bread consumption decreased significantly over the period 2001-2003 to 2013-2015 (from 107g to 83g, P-value for linear association <0.001) (**Table 8**). This was accounted for by a steady decrease in white bread. However, intakes of brown/wholemeal bread have remained fairly constant with a mean intake for 2013-2015 of 18g/day. By 2013-2015, 21.7% of bread consumed was brown/wholemeal compared to 16.8% for 2001-2003.

#### Breakfast Cereal

Mean high fibre and total breakfast cereal consumption remained fairly constant from 2001-2003 to 2013-2015. The mean intake for 2013-2015 was 12g/day and 20g/day respectively (**Table 8**).

Cakes, Sweet Biscuits and Pastries; Sugar and Preserves; Confectionery and Ice Cream and Dairy Desserts Mean consumption of cakes, sweet biscuits and pastries; sugar and preserves; confectionery; and ice cream and dairy desserts have remained fairly constant between 2001-2003 and 2013-2015 with mean intakes for 2013-2015 of 38, 16, 21 and 33 g/day respectively (**Table 8**).

#### Soft Drinks

The trends in consumption of sugar-containing soft drinks mirrored that of NMES intake (**Table 8**, **Appendix 10 Table C** and **Figure I**). Overall, sugar-containing soft drink consumption decreased significantly from 245g/day for 2001-2003 to 156g/day for 2013-2015 (P-value for linear trend <0.001). In contrast, the mean intake of sugar free soft drinks increased significantly from 104g/day for 2001-2003 to 133g/day for 2013-2015 (P-value for linear association <0.001).

#### Processed Red Meat Products

Bacon and ham consumption has remained constant over the period of 2001-2003 to 2013-2015 (**Table 9**), however consumption of other processed red meat products decreased significantly over the same time period from 29 to 26 g/day (P-value for linear association = 0.001) (this includes the meat content of savoury pies). Savoury meat pie consumption (based on total pie weight) decreased significantly from 10g/day for 2001-2003 to 8.7g/day for 2013-2015 (P-value for linear association = 0.003).

#### Dairy Products and Fat

Mean butter and soft margarine intake increased from 5.8 and 1.3 g/day respectively for 2001-2003 to 7.7 and 1.7 g/day for 2013-2015 (P-values for linear association <0.001 and 0.007). Over the same time period there was a significant reduction in mean low fat spread consumption from 8.9 to 5.0 g/day (P-value for linear association <0.001) (**Table 9**), such that there was a reduction in total spread consumption (P-value for linear association 0.022). There was no significant change to cooking oil or cheese consumption over time, but there was an increase in mean cream consumption from 2.4 to 3.6g/day (P-value for linear association <0.001). Mean total daily milk consumption decreased from 248g for 2001-2003 to 197g for 2013-2015 (P-value for linear association <0.001). This was caused by a decrease in mean whole milk consumption from 89 to 38 g/day (P-value for linear association <0.001) (**Table 9**).

#### White Fish

Mean white fish consumption has decreased significantly from 92g/week for 2001-2003 to 75g/week for 2013-2015 (P-value for linear association <0.001) (**Table 9**).

### Potatoes, Nuts and Savoury Snacks

There was a significant decrease in fresh potato consumption between 2001-2003 and 2013-2015 (P-value for linear association <0.001), with a mean consumption for 2013-2015 of 40g/day compared with a mean consumption for 2001-2003 of 60g/day. Processed potato (e.g. chips) and savoury snack consumption fluctuated between 2001-2003 and 2013-2015, with no statistically significant linear association. Mean nut consumption increased from 2.0g/day for 2001-2003 to 4.0g/day for 2013-2015 (P-value for linear association <0.001) (**Table 9**).

Table 8: Mean Consumption<sup>1</sup> of Additional Foods and Drinks Indicative of Diet Quality by Year (Table A), 2001 to 2015 - EFS / LCF data (g/person/day)

Food <sup>2</sup>	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015	P-value for	P-value for
	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Linear Association	Overall Association
Brown/Wholemeal Bread	18	23	23	22	18		
	17, 19	21, 24	21, 24	20, 23	17, 20	0.875	<0.001
Total Bread	107	101	95	91	83		
	104, 111	97, 105	92, 98	88, 94	80, 86	<0.001	<0.001
High Fibre Breakfast Cereal	10	11	13	12	12	0.000	0.040
	9.2, 11	10, 12	12, 15	11, 13	10, 13	0.092	0.016
Total Breakfast Cereal	19	20	22	21	20		
	18, 21	18, 21	21, 24	20, 23	19, 22	0.227	0.119
Cakes and Pastries	17	17	17	16	16		
	16, 19	16, 19	17, 18	15, 17	15, 18	0.127	0.332
Sweet Biscuits	22	21	24	21	22		
	21, 23	20, 22	22, 25	19, 22	20, 23	0.295	0.069
Cakes, Sweet Biscuits and Pastries	40	39	41	37	38		
	38, 42	37, 40	39, 43	35, 39	36, 40	0.109	0.091
Ice Cream and Dairy Desserts	33	33	33	31	33		
	30, 35	30, 36	29, 36	28, 33	30, 36	0.784	0.783
Sugar and Preserves	19	17	18	17	16		
	17, 21	15, 19	16, 20	15, 19	14, 17	0.022	0.099
Chocolate Confectionery	15	14	15	14	14	0.447	2.044
	14, 16	13, 15	14, 17	13, 15	12, 15	0.147	0.311
Sugar Confectionery	7.8	6.8	6.8	7.0	7.7	2 225	2 222
	7.1, 8.4	6.1, 7.5	6.2, 7.4	6.3, 7.6	6.8, 8.6	0.985	0.039
Total Confectionery	23	21	22	21	21	0.005	0.450
	21, 24	19, 22	20, 24	19, 23	20, 23	0.305	0.450
Sugar-Containing Soft Drinks	245	234	215	179	156	0.004	0.004
	229, 261	216, 251	202, 228	166, 192	140, 172	<0.001	<0.001
Sugar Free Soft Drinks	104	94	88	118	133	0.004	0.004
	95, 113	83, 104	78, 98	105, 132	116, 149	<0.001	<0.001
Total Soft Drinks	349	328	303	298	288	.0.004	.0.004
	331, 367	305, 350	285, 322	279, 316	268, 309	<0.001	<0.001
n Households	1750	1733	1537	1436	1266		
n People n People Weighted⁴	4022 14934	3979 14792	3373 15364	3181 15337	2825 15679		

<sup>1</sup>Household and eating out consumption combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2004-2006 results; <sup>4</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

Table 9: Mean Consumption<sup>1</sup> of Additional Foods and Drinks Indicative of Diet Quality by Year (Table B), 2001 to 2015 - EFS/ LCF data (g/person/day)

Food <sup>2</sup>	2001-2003 Mean	2004-2006 <sup>3</sup> Mean 95% CI	2007-2009 Mean	2010-2012 Mean 95% CI	2013-2015 Mean 95% CI	P-value for Linear Association	P-value for Overall Association
Bacon and Ham	95% CI	Í	95% CI				
Dacon and Ham	12	12	12	13	11	0.295	0.111
Other Dreesed Ded Meet	11, 13	11, 12	12, 13	12, 14	10, 12		
Other Processed Red Meat Products <sup>4,5</sup>	29	27	27	27	26	0.001	0.004
	28, 31	25, 29	26, 28	25, 28	24, 27		
Savoury Meat Pies	10	10	10	10	8.7	0.003	0.044
D ::	9.6, 11	9.4, 11	8.9, 10	9.0, 10	7.9, 10	0.000	0.077
Butter	5.8	6.7	6.5	7.2	7.7	<0.001	0.002
	5.2, 6.4	5.9, 7.5	5.8, 7.1	6.4, 8.1	6.8, 8.5	<b>\0.001</b>	0.002
Soft Margarine	1.3	1.6	2.1	2.1	1.7	0.007	0.003
	1.0, 1.5	1.3, 1.9	1.7, 2.4	1.7, 2.4	1.4, 2.1	0.007	0.003
Low Fat Spread	8.9	7.4	7.0	6.2	5.0	-0.004	-0.004
	8.2, 9.6	6.7, 8.0	6.3, 7.7	5.4, 7.0	4.5, 5.6	<0.001	<0.001
Total Spreading Fats	16	16	16	16	14	0.000	0.440
	15, 17	15, 17	15, 16	14, 17	13, 15	0.022	0.110
Cooking Oil	5.4	6.1	6.6	6.3	6.3		
	4.7, 6.0	4.9, 7.4	5.6, 7.6	5.3, 7.3	5.3, 7.2	0.165	0.270
Cream	2.4	3.0	3.1	3.3	3.6		
	2.1, 2.8	2.6, 3.4	2.7, 3.5	2.9, 3.8	3.0, 4.1	<0.001	0.001
Cheese	14	14	15	15	15		
	13, 15	13, 15	14, 16	14, 15	13, 16	0. <b>4</b> 53	0.312
Whole Milk	89	66	57	45	38		
	80, 98	57, 75	50, 65	39, 51	33, 43	<0.001	<0.001
Semi-skimmed Milk	125	129	138	135	132		
	117, 133	120, 138	127, 149	125, 144	123, 140	0.164	0.355
Skimmed Milk	12	14	17	15	12		
	9.5, 15	11, 17	14, 20	12, 18	8.7, 15	0.951	0.096
Total Milk	248	228	231	213	197		
	238, 258	218, 238	220, 241	204, 223	188, 207	<0.001	<0.001
White Fish	92	88	93	81	75		
	86, 97	81, 95	87, 99	73, 89	69, 81	<0.001	<0.001
Fresh Potatoes	60	57	53	46	40		
	56, 64	53, 61	48, 57	43, 50	37, 43	<0.001	<0.001
Processed Potatoes	33	28	28	29	29		
						0.093	0.005
Nuts	31, 34	26, 30	26, 30	27, 31	27, 31		
	2.0	3.0	3.6	2.9	4.0	<0.001	<0.001
Savoury Snacks	1.6, 2.3	2.5, 3.5	3.1, 4.2	2.4, 3.5	3.5, 4.5		
carcary chacks	15	12	13	12	13	0.071	<0.001
n Households	14, 15 <i>1750</i>	11, 13 1733	12, 14 <i>15</i> 37	12, 13 1436	13, 14 <i>1266</i>		
n People	4022	3979	3373	3181	2825		
n People Weighted <sup>6</sup>	14934	14792	15364	15337	15679		

¹Household and eating out consumption combined; ²See appendices 1 & 3 for methodology; ³From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2004-2006 results; ⁴Meat portion only – see appendices 1 & 3 of Wrieden and Barton, (2015) for methodology; ⁵Other processed red meat products includes the meat portion of sausages, meat pies, corned beef, burgers and pate and is a component of total red meat; ⁶The results are weighted to the Scottish population - the number provided is approximately 1000¹h of the Scottish population

## 3.1.3.2 Food Consumption by SIMD

#### Bread

There was no significant association between total bread consumption and SIMD quintile for 2013 to 2015 (**Table 10**). Consumption of brown/wholemeal bread was highest in the least deprived quintile of SIMD (Quintile 5) at 24g/day compared to 16g/day in the most deprived quintile (Quintile 1) for 2013 to 2015 (P-value for linear association = 0.003) (**Table 10**).

#### Breakfast Cereals

Consumption of high fibre breakfast cereal and total breakfast cereal was highest in the least deprived quintile of SIMD (Quintile 5), at 15 and 25 g/day respectively compared to 7.1 and 16 g/day in the most deprived quintile (Quintile 1) for 2013 to 2015 (P-values for linear association <0.001) (**Table 10**).

Cakes, Sweet Biscuits and Pastries; Sugar and Preserves; Confectionery and Ice Cream and Dairy Desserts There was no significant association between SIMD quintile and cakes, sweet biscuits and pastries; sweet biscuits; ice cream and dairy desserts; or confectionery for 2013 to 2015 (**Table 10**).

There was no significant association between total soft drink or sugar free soft drink consumption and SIMD quintile for 2013 to 2015 (**Table 10**). However, consumption of sugar containing soft drinks was lowest in the least deprived quintile of SIMD (Quintile 5) at 172g/day compared to 263g/day in the most deprived quintile (Quintile 1) for 2013 to 2015 (P-value for linear association = 0.006) (**Table 10** and **Figure 9**). However, the reduction over time in soft drink consumption appears to be greater in the more deprived quintiles (Figure 18).

### Processed Red Meat Products

There was no statistical association between consumption of bacon and ham and SIMD quintile for 2013 to 2015 (**Table 11**). However, a statistically significant association was found with other processed red meat products, with consumption higher in the most deprived quintile (Quintile 1) at 33g/day compared to 23g/day in the least deprived quintile (Quintile 5) for 2013 to 2015 (P-value for linear association = 0.002) (this includes the meat content of savoury pies). A significant association between SIMD quintile and savoury meat pies (based on total pie weight) was found, with an intake of 12g/day in the most deprived quintile compared to 7.9g/day in the least deprived quintile for 2013 to 2015 (P-value for linear association = 0.002) (**Table 11**).

# Dairy Products and Fat

Mean consumption of whole milk was more than double in the most deprived SIMD quintile (Quintile 1) compared to the least deprived quintile (Quintile 5), (88g/day compared to 39g/day) for 2013 to 2015 (P-value for linear association <0.001) (**Table 11**). The least deprived quintile of SIMD (Quintile 5) had significantly higher intakes compared to the most deprived quintile (Quintile 1) of skimmed milk (18g/day compared to 10g/day), cheese (17g/day compared to 12g/day), and cream (4.5g/day compared to 1.5g/day) (P-values for linear association = 0.010, 0.004 and <0.001 respectively) (**Table 11**).

#### White Fish

Consumption of white fish was highest in the least deprived quintile of SIMD (Quintile 5) at 101g/week, compared to 70g/week in the most deprived quintile (Quintile 1) for 2013 to 2015 (P-value for linear association <0.001) (**Table 11**).

#### Potatoes, Nuts and Savoury Snacks

No significant association with SIMD quintile was found for consumption of fresh potatoes, processed potatoes, or savoury snacks for 2013 to 2015, however a significant association was found with consumption of nuts (**Table 11**). Mean nut consumption was 4.2g/day in the least deprived quintile (Quintile 5) compared to 1.9g/day in the most deprived quintile (Quintile 1) for 2013 to 2015 (P-value for linear association <0.001).

# Absolute and Relative Inequality

Analysis by SII and RII confirm the above differences by SIMD in absolute and relative terms. **Appendix 9** provides the results for the SII and RII analysis for food consumption over time with regards to deprivation showing that there has been no significant change in inequalities from 2001 to 2015 for the majority of foods / drinks and that absolute and relative inequalities in food/nutrient intakes have not changed appreciably between 2001 and 2015.

Table 10: Mean Consumption<sup>1</sup> of Additional Foods and Drinks Indicative of Diet Quality by SIMD (Table A), 2013 to 2015 Combined - LCFS data (g/person/day)

Food <sup>2</sup>	SIMD Quintile 1* Mean 95% CI	SIMD Quintile 2 Mean 95% CI	SIMD Quintile 3 Mean 95% CI	SIMD Quintile 4 Mean 95% CI	SIMD Quintile 5* Mean 95% CI	P-value for Linear Association	P-value for Overall Association	SII <sup>3,4**</sup> 95% CI	RII <sup>4***</sup> 95% CI
Brown/Wholemeal Bread	16	19	21	23	24	0.003	0.027	7.6	0.41
	15, 18	17, 20	20, 23	21, 24	23, 25			2.8, 12	0.15, 0.67
Total Bread	100	97	96	95	90	0.692	0.054	-1.9	-0.02
	96, 103	94, 100	92, 100	92, 98	88, 93			-12, 8.3	-0.15, 0.10
High Fibre Breakfast Cereal	7.1	10	11	14	15	<0.001	<0.001	11	0.91
	6.2, 8.0	8.9, 11	10, 13	12, 15	14, 16			7.3, 14	0.63, 1.18
Total Breakfast Cereal	16	18	20	23	25	<0.001	0.008	10	0.49
	14, 17	17, 19	19, 22	22, 25	24, 26			5.0, 15	0.25, 0.74
Cakes and Pastries	15	16	17	18	18	0.028	0.278	5.5	0.33
	14, 16	15, 17	16, 18	17, 19	17, 19			0.6, 10	0.04, 0.63
Sweet Biscuits	21	21	24	23	22	0.812	0.076	0.5	0.02
	19, 22	19, 22	22, 25	22, 24	20, 23			-4.5, 5.5	-0.21, 0.25
Cakes, Sweet Biscuits and Pastries	35	37	41	41	40	0.061	0.120	5.9	0.16
·	33, 37	35, 38	39, 43	39, 43	38, 42			-0.4, 12	-0.01, 0.32
Ice Cream and Dairy Desserts	31	34	33	33	31	0.322	0.562	4.7	0.14
•	27, 34	31, 37	30, 36	30, 36	28, 34			-5.2, 15	-0.16, 0.44
Sugar and Preserves	17	17	18	19	15	0.026	0.183	4.8	0.31
S .	15, 19	15, 19	16, 20	17, 20	14, 16			0.6, 9.0	0.04, 0.58
Chocolate Confectionery	13	14	15	14	14	0.906	0.965	0.2	0.01
•	12, 14	13, 15	14, 16	13, 15	13, 15			-3.4, 3.8	-0.25, 0.28
Sugar Confectionery	7.7	7.2	7.7	7.3	6.4	0.321	0.822	-1.3	-0.17
,	7.0, 8.5	6.5, 7.8	6.9, 8.4	6.5, 8.1	5.8, 6.9			-3.8, 1.2	-0.49, 0.16
Total Confectionery	21	21	23	22	21	0.637	0.925	-1.1	-0.05
·	20, 22	20, 23	21, 25	20, 23	19, 22			-5.6, 3.4	-0.26, 0.16
Sugar Containing Soft Drinks	263	214	203	184	172	0.006	0.020	-73	-0.47
	243, 282	201, 227	188, 217	172, 196	158, 185			-125, -21	-0.80, -0.14
Sugar Free Soft Drinks	100	106	112	119	101	0.325	0.755	25	0.19
-	90, 110	96, 117	99, 124	106, 133	91, 110			-26, 76	-0.19, 0.57
Total Soft Drinks	363	320	314	303	272	0.198	0.180	-48	-0.17
	343, 384	303, 338	296, 333	287, 319	256, 289			-122, 27	-0.42, 0.09
n Households n People n People Weighted⁵	221 459 2515	255 556 3075	258 568 3131	269 631 3588	263 611 3370			1266 2825 15679	1266 2825 15679

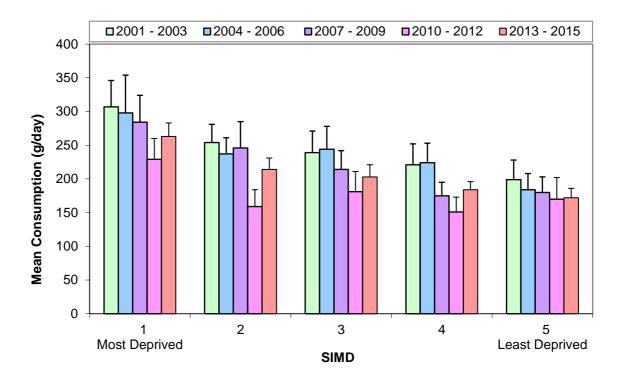
<sup>1</sup>Household and eating out intakes combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); <sup>4</sup>A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; <sup>5</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population; \*Scottish Index of Multiple Deprivation (SIMD) Quintiles: 1=Most Deprived; \*SII=Slope Index of Inequality; \*\*\*RII=Relative Index of Inequality

Table 11: Mean Consumption<sup>1</sup> of Additional Foods and Drinks Indicative of Diet Quality by SIMD (Table B), 2013 to 2015 Combined - LCFS data (g/person/day)

Food <sup>2</sup>	SIMD Quintile 1* Mean 95% CI	SIMD Quintile 2 Mean 95% CI	SIMD Quintile 3 Mean 95% CI	SIMD Quintile 4 Mean 95% CI	SIMD Quintile 5* Mean 95% CI	P-value for Linear Association	P-value for Overall Association	SII <sup>3,4**</sup> 95% CI	RII <sup>4***</sup> 95% CI
Bacon and Ham	12 11, 13	12 11, 12	12 11, 13	13 12, 13	12 11, 12	0.632	0.014	-0.7 -3.7, 2.3	-0.06 -0.33, 0.21
Other Processed Red Meat Products <sup>5,6</sup>	33 31, 35	29 28, 31	27 25, 28	25 24, 27	23 22, 24	0.002	0.016	-8.3 -13, -3.3	-0.32 -0.51, -0.13
Savoury Meat Pies	12 11, 12	11 10, 12	10 10, 11	8.7 8.1, 9.3	7.9 7.3, 8.6	0.002	0.048	-4.9 -7.9, -1.9	-0.56 -0.91, -0.22
Butter	5.6 5.0, 6.2	6.0 5.4, 6.6	7.7 7.0, 8.5	7.4 6.7, 8.2	7.3, 6.6 7.1 6.4, 7.8	0.008	0.035	2.9 0.8, 5.0	0.38 0.10, 0.65
Soft Margarine	1.8 1.4, 2.1	2.1 1.7, 2.5	1.7 1.4, 2.1	1.9 1.5, 2.3	1.5 1.1, 1.8	0.937	0.982	0.6, 3.0 0.1 -1.6, 1.7	0.04
Low Fat Spread	7.3 6.5, 8.1	7.4 6.7, 8.1	6.9 6.3, 7.6	6.4 5.8, 7.0	6.4 5.8, 7.0	0.013	0.091	-1.0, 1.7 -2.8 -4.9, -0.7	-0.96, 0.98 -0.56 -0.98, -0.13
Total Spreading Fats	15 14, 16	16 15, 16	16 15, 17	16 15, 17	15 14, 16	0.891	0.959	0.2	0.01
Cooking Oil	7.0 6.0, 8.0	6.5 5.6, 7.5	6.0 5.2, 6.8	6.3 5.2, 7.4	5.0 4.1, 5.8	0.048	0.207	-4.4 -8.7, -0.1	-0.70 -1.38, -0.01
Cream	1.5 1.2, 1.8	2.4 2.1, 2.6	3.0 2.6, 3.4	3.8 3.4, 4.2	4.5 4.1, 4.9	<0.001	<0.001	4.2 2.6, 5.8	1.17 0.72, 1.62
Cheese	12 11, 12	13 12, 14	15 14, 16	16 15, 17	17	0.004	0.002	4.8 1.6, 8.0	0.33 0.11, 0.55
Whole Milk	88 78, 98	66 59, 72	60 53, 67	46 40, 51	39 33, 46	<0.001	0.002	-37 -54, -21	-0.98 -1.42, -0.55
Semi-skimmed Milk	120 110, 129	123 116, 131	136 128, 145	137 129, 146	140 133, 148	0.036	0.315	39 2.7, 75	0.30 0.02, 0.57
Skimmed Milk	10 7.4, 13	11 8.9, 13	18 13, 22	13 10, 16	18 15, 20	0.010	0.112	12 3.0, 21	1.02 0.25, 1.78
Total Milk	240 230, 250	219 209, 229	229 219, 239	215 205, 224	216 206, 226	0.950	0.966	1.3 -32, 35	0.01
White Fish	70 64, 77	77 70, 84	86 80, 92	90 85, 96	101 94, 108	<0.001	0.003	50 27, 73	0.67 0.36, 0.98
Fresh Potatoes	50 46, 55	51 48, 54	52 48, 56	54 51, 58	48 45, 50	0.994	0.876	0.0 -12, 12	0.00
Processed Potatoes	35 33, 37	32 30, 34	29 28, 31	28 26, 29	24 23, 25	0.020	0.060	-8.7 -16, -1.5	-0.30 -0.54, -0.05
Nuts	1.9 1.6, 2.3	2.4 2.1, 2.7	3.3 2.8, 3.8	3.5 3.0, 3.9	4.2 3.7, 4.8	<0.001	0.001	3.3 1.8, 4.7	0.82 0.46, 1.19
Savoury Snacks	14 13, 15	13 12, 14	13 12, 14	14 13, 14	12 12, 13	0.514	0.591	-1.0 -4.1, 2.1	-0.08 -0.31, 0.16
n Households n People	221 459	255 556	258 568	269 631	263 611			1266 2825	1266 2825
n People Weighted <sup>7</sup>	2515	3075	3131	3588	3370			15679	15679

¹Household and eating out intakes combined; ²See appendices 1 & 3 for methodology; ³Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); ⁴A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; follows figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the least depriv

Figure 9: Mean [95% CI] sugar-containing soft drink consumption by SIMD quintile



2013-2015 P (linear association) = 0.006; P (overall association) = 0.020

# 3.2 Contribution of Foods to Intakes of Energy, Fat, Saturated Fat, NMES and Fibre

# 3.2.1 Differences in Contributing Foods over Time

Results are presented for food groupings (foods / drinks within these food groupings are presented in **Appendix 8**), which contribute more than 1% of energy, fat, saturated fat, NMES and NSP. Results are provided for population data (i.e. includes consumers and non-consumers) for the contribution of each food grouping to the total nutrient intake for energy in kcal, and for fat, saturated fat, NMES and NSP in grams. The tables presenting results for 2001-2003 to 2013-2015 have been ordered in descending order for the highest overall contributor of energy, fat, saturated fat, NMES and NSP, for 2013-2015. The tables also provide results on percentage contribution to household and eating out consumption for time periods 2013-2015. P-values were calculated for linear and overall association over time of the contributing amount in kcal or g rather than the % contribution, and p-values ≤0.01 are highlighted in bold to indicate significance at the 1% level.

## Contribution to Energy Intake

As presented in **Table 5**, mean food energy intakes reduced significantly between 2001-2003 and 2013-2015 from 2052 kcal/day to 1889 kcal/day respectively (P<0.001). For 2013-2015, 88% of energy intake was from household food purchases and 12% was from eating out purchases. The proportion of energy obtained from household purchases has increased steadily from 85% for 2001-2003 while the proportion of energy obtained from eating out purchases has reduced steadily from 15% for 2001-2003.

**Table 12** shows that the highest contributors to energy were total processed red meat (7.5%), bread and rolls (6.7%), unclassified foods<sup>1</sup> (5.9%), sweet biscuits (5.3%) and total milk (5.3%). With the exception of unclassified foods<sup>1</sup> and sandwiches, household consumption provided the greatest proportion of total energy for each of the food groupings. The highest contributors to total energy from eating out foods and drinks were unclassified foods<sup>1</sup> (3.9%), sandwiches (1.0%), alcoholic drinks (0.8%), total processed red meat (0.7%), processed potatoes (0.7%) and sugar containing soft drinks (0.6%). On the whole, foods for which there was a significant decrease in the absolute amount over time also had a decreasing percentage contribution to energy over time. These foods were bread and rolls, total milk, sugar containing soft drinks, unprocessed red meat, sugar and sandwiches. Conversely the contribution from savoury sauces and dressings, other baked goods, ready meals and pizza to energy increased over the five 3 year periods (**Table 12**).

## Contribution to Fat Intake

**Table 13** shows that the highest contributors to fat were total spreading fats (12.4%), total processed red meat (12.0%), unclassified foods<sup>1</sup> (6.9%), cooking oil (6.8%), sweet biscuits (5.9%), total milk (5.2%) and total cheese (5.1%). With the exception of unclassified foods<sup>1</sup>, sandwiches and eating out main meal components, household consumption provided the greatest proportion of fat for each of the food groupings. The highest contributors to fat from eating out foods and drinks were unclassified foods<sup>1</sup> (4.9%), sandwiches (1.2%), eating out main meal components (1.2%), total processed red meat (1.0%), processed potatoes (0.7%), and cakes, pastries and puddings (0.5%). On the whole, foods for which there was a significant decrease in the absolute amount over time also had a decreasing percentage contribution to energy over time. These foods were total milk, crisps and savoury snacks unprocessed red meat, sandwiches, bread and rolls, and eggs. In contrast,

<sup>&</sup>lt;sup>1</sup>Includes unspecified foods, mainly eaten out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 3 for details of all foods included in this food grouping

contribution from savoury sauces and dressings, ready meals, nuts, cream, pizza, and total breakfast cereal increased over the five 3 year periods (**Table 13**).

#### Contribution to Saturated Fat Intake

**Table 14** shows that the highest contributors to saturated fat were total spreading fats (16.0%), total processed red meat (12.0%), total milk (8.5%), total cheese (8.4%), sweet biscuits (7.7%), total confectionery (6.3%) and unclassified foods¹ (5.8%). With the exception of unclassified foods¹ and sandwiches, household consumption provided the greatest proportion of saturated fat for each of the food groupings. The highest contributors to saturated fat from eating out foods and drinks were unclassified foods¹ (3.5%), total processed red meat (1.0%), sandwiches (0.9%), and cakes, pastries and puddings (0.5%). On the whole, foods for which there was a significant decrease in the absolute amount over time also had a decreasing percentage contribution to energy over time. These foods were total milk, unprocessed red meat, crisps and savoury snacks, sandwiches, processed potatoes and eggs. In contrast, contribution from cream, pizza and nuts increased (**Table 14**).

#### Contribution to NMES Intake

**Table 15** shows that the highest contributors to NMES were sugar containing soft drinks (20.8%), total confectionery (17.9%), sugar (13.3%), sweet biscuits (8.0%) total fruit and vegetables (6.8%), cakes, pastries and puddings (6.2%) and ice cream and dairy desserts (5.1%). For all food groupings, except alcoholic drinks, household consumption provided the greatest proportion of NMES. The highest contributors to NMES from eating out foods and drinks were sugar-containing soft drinks (3.8%), alcoholic drinks (1.5%), total confectionery (0.9%) and cakes, pastries and puddings (0.6%). Sugar containing soft drinks contributed an average of 22.5g (25.8% of total NMES) in 2001-2003 but this decreased to 14.9g (20.8%) by 2013-2015. The percentage contribution from sugar, and alcoholic drinks decreased between 2001-2003 and 2013-2015 and percentage contribution from ice cream and dairy desserts increased (**Table 15**).

## Contribution to NSP Intake

**Table 16** shows that the highest contributors to NSP were total fruit and vegetables (24.1%), bread and rolls (13.5%), total breakfast cereals (9.7%), unclassified foods¹ (9.2%) and processed potatoes (5.2%). With the exception of unclassified foods¹, eating out main meal components and sandwiches, household consumption provided the greatest proportion of NSP for each of the food groupings. The highest contributors to NSP from eating out foods and drinks were unclassified foods¹ (6.5%), eating out main meal component (1.4%), processed potatoes (1.2%), sandwiches (0.9%) and fruit and vegetables (0.7%). A significant decrease in the contribution of bread and rolls, crisps and savoury snacks, potatoes, and sandwiches to NSP was seen in absolute terms, which was reflected in a decreasing percentage contributed. However, a small significant increase in the contribution from pasta, rice and noodles, other baked goods (i.e. items such as non-standard breads such as garlic bread, teacakes etc.), total confectionery, cakes pastries and puddings, ready meals, savoury sauces and dressings, nuts, and savoury biscuits was observed (**Table 16**).

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<sup>&</sup>lt;sup>1</sup> Includes unspecified foods, mainly eaten out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 3 for details of all foods included in this food grouping

Table 12: Mean contribution of foods providing more than 1% of energy (2001-2015 data)

	% Co	ntribution to To	tal kcal		kcal (% C	ontribution to	Total kcal)		P-Value for	P-value for
Food Grouping <sup>1</sup>	A.II	2013-2015	F # 0 :	2001-2003 All	2004-2006 All	2007-2009 All	2010-2012 All	2013-2015 All	Linear Association <sup>2</sup>	Overall Association <sup>3</sup>
	All	Household	Eating Out							
Total Processed Red Meat <sup>4</sup>	7.5	6.8	0.7	163 (7.7)	152 (7.4)	152 (7.2)	151 (7.5)	146 (7.5)	0.004	0.012
Bread and Rolls	6.7	6.6	0.1	189 (8.9)	172 (8.3)	157 (7.5)	147 (7.3)	130 (6.7)	<0.001	<0.001
Unclassified Foods⁵	5.9	1.9	3.9	130 (6.1)	108 (5.2)	116 (5.5)	112 (5.6)	115 (5.9)	0.261	0.207
Sweet Biscuits	5.3	5.2	0.1	110 (5.2)	104 (5.0)	114 (5.4)	98.8 (4.9)	103 (5.3)	0.048	0.028
Total Milk	5.3	5.2	0.1	139 (6.5)	125 (6.0)	124 (5.9)	113 (5.6)	104 (5.3)	<0.001	<0.001
Total Spreading Fats	4.8	4.8	0.0	102 (4.8)	97.0 (4.7)	95.5 (4.5)	96.8 (4.8)	93.9 (4.8)	0.097	0.406
Total Fruit and Vegetables	4.7	4.6	0.1	93.7 (4.4)	102 (5.0)	106 (5.0)	98.1 (4.9)	91.9 (4.7)	0.289	0.001
Total Confectionery	4.7	4.5	0.2	97.5 (4.6)	90.9 (4.4)	96.7 (4.6)	92.0 (4.6)	92.2 (4.7)	0.364	0.540
Total Breakfast Cereal	3.8	3.8	0.0	69.8 (3.3)	70.5 (3.4)	82.4 (3.9)	77.9 (3.9)	73.8 (3.8)	0.105	0.024
Alcoholic Drinks	3.6	2.8	0.8	82.3 (3.9)	83.3 (4.0)	76.5 (3.6)	79.6 (4.0)	71.1 (3.6)	0.019	0.122
Crisps and Savoury Snacks	3.4	3.2	0.2	75.1 (3.5)	63.4 (3.1)	67.5 (3.2)	61.9 (3.1)	67.1 (3.4)	0.005	<0.001
Pasta, Rice and Noodles	3.2	3.0	0.2	56.7 (2.7)	53.8 (2.6)	58.1 (2.8)	62.4 (3.1)	61.8 (3.2)	0.233	0.686
Cakes, Pastries and Puddings	3.1	2.6	0.4	64.1 (3.0)	64.1 (3.1)	63.7 (3.0)	59.6 (3.0)	59.7 (3.1)	0.046	0.201
Sugar Containing Soft Drinks	2.9	2.4	0.6	87.3 (4.1)	81.5 (3.9)	75.5 (3.6)	65.4 (3.3)	57.0 (2.9)	<0.001	<0.001
Cooking Oil	2.6	2.6	0.0	44.2 (2.1)	50.5 (2.4)	54.2 (2.6)	52.0 (2.6)	51.6 (2.6)	0.167	0.274
Processed Potatoes	2.6	1.9	0.7	55.5 (2.6)	47.7 (2.3)	47.9 (2.3)	49.9 (2.5)	50.6 (2.6)	0.155	0.002
Total Cheese	2.6	2.6	0.0	51.6 (2.4)	51.6 (2.5)	56.1 (2.7)	52.8 (2.6)	51.4 (2.6)	0.914	0.229
Unprocessed Red Meat	2.2	2.1	0.1	55.6 (2.6)	51.4 (2.5)	52.2 (2.5)	50.2 (2.5)	43.7 (2.2)	<0.001	0.003
Ice Cream and Dairy Desserts	1.9	1.8	0.1	34.8 (1.6)	34.5 (1.7)	34.5 (1.6)	34.3 (1.7)	36.8 (1.9)	0.403	0.812
Poultry	1.9	1.7	0.2	37.0 (1.7)	38.3 (1.9)	37.4 (1.8)	39.1 (1.9)	36.6 (1.9)	0.998	0.775
Savoury Sauces and Dressings	1.8	1.8	0.1	29.8 (1.4)	33.2 (1.6)	39.4 (1.9)	37.6 (1.9)	35.9 (1.8)	<0.001	<0.001
Sugar	1.8	1.8	0.0	51.3 (2.4)	41.9 (2.0)	42.4 (2.0)	43.3 (2.2)	35.7 (1.8)	0.001	0.005
Other Baked Goods	1.7	1.6	0.1	24.6 (1.2)	28.4 (1.4)	32.7 (1.6)	31.2 (1.6)	33.0 (1.7)	<0.001	<0.001
Ready Meals	1.7	1.7	0.0	28.0 (1.3)	31.2 (1.5)	32.1 (1.5)	33.1 (1.6)	32.9 (1.7)	<0.001	0.003
Potatoes	1.5	1.3	0.1	26.0 (1.2)	36.2 (1.8)	33.6 (1.6)	30.7 (1.5)	28.7 (1.5)	0.933	<0.001
Pizza	1.4	1.3	0.2	21.7 (1.0)	23.1 (1.1)	23.1 (1.1)	28.8 (1.4)	27.8 (1.4)	<0.001	<0.001
Sandwiches	1.3	0.2	1.0	31.3 (1.5)	30.1 (1.5)	29.4 (1.4)	27.4 (1.4)	24.5 (1.3)	<0.001	0.004
Yoghurt and Fromage Frais	1.1	1.1	0.0	18.3 (0.9)	23.1 (1.1)	23.5 (1.1)	23.3 (1.2)	21.3 (1.1)	0.043	<0.001
Other Food Groupings <sup>6</sup>	8.6	7.1	1.6	156 (7.3)	175 (8.4)	183 (8.7)	161 (7.9)	174 (8.6)	-	-

<sup>1</sup>See Appendix 8 for details of foods in each food grouping; <sup>2</sup>P-values are for the linear association over time of the contributing amount in kcal; <sup>4</sup>May include starch component e.g. pastry / potato / bread; <sup>5</sup>Includes unspecified foods, mainly eating out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 3 for details of all foods included in this food grouping; <sup>6</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 13: Mean contribution of foods providing more than 1% of fat (2001-2015 data)

	% Co	ntribution to To	tal Fat		Fat g (%	Contribution to	Total Fat)		P-Value for	P-value for
Food Grouping <sup>1</sup>		2013-2015		2001-2003	2004-2006	2007-2009	2010-2012	2013-2015	Linear	Overall
	All	Household	Eating Out	All	All	All	All	All	Association <sup>2</sup>	Association <sup>3</sup>
Total Spreading Fats	12.4	12.3	0.1	11.1 (12.5)	10.6 (12.3)	10.5 (11.8)	10.7 (12.6)	10.4 (12.4)	0.139	0.502
Total Processed Red Meat <sup>4</sup>	12.0	11.0	1.0	11.3 (12.7)	10.5 (12.1)	10.5 (11.7)	10.4 (12.3)	10.1 (12.0)	0.002	0.007
Unclassified Foods <sup>5</sup>	6.9	1.9	4.9	6.7 (7.5)	5.5 (6.3)	5.9 (6.6)	5.6 (6.6)	5.8 (6.9)	0.171	0.157
Cooking Oil	6.8	6.8	0.0	4.9 (5.5)	5.6 (6.5)	6.0 (6.8)	5.8 (6.8)	5.7 (6.8)	0.167	0.274
Sweet Biscuits	5.9	5.8	0.1	5.3 (6.0)	5.0 (5.7)	5.4 (6.0)	4.7 (5.6)	4.9 (5.9)	0.027	0.029
Total Milk	5.2	5.1	0.1	6.5 (7.3)	5.6 (6.5)	5.4 (6.0)	4.8 (5.7)	4.4 (5.2)	<0.001	<0.001
Total Cheese	5.1	5.0	0.0	4.3 (4.8)	4.3 (4.9)	4.6 (5.2)	4.3 (5.1)	4.2 (5.1)	0.998	0.184
Crisps and Savoury Snacks	4.5	4.1	0.3	4.6 (5.1)	3.9 (4.5)	4.0 (4.5)	3.5 (4.1)	3.8 (4.5)	<0.001	<0.001
Total Confectionery	4.5	4.3	0.2	3.8 (4.3)	3.7 (4.2)	4.0 (4.5)	3.8 (4.5)	3.7 (4.5)	0.951	0.645
Unprocessed Red Meat	3.4	3.3	0.1	3.7 (4.1)	3.3 (3.9)	3.5 (3.9)	3.3 (3.8)	2.8 (3.4)	<0.001	0.002
Cakes, Pastries and Puddings	3.3	2.8	0.5	2.9 (3.2)	2.9 (3.3)	3.0 (3.3)	2.8 (3.3)	2.8 (3.3)	0.332	0.511
Savoury Sauces and Dressings	3.0	2.8	0.2	1.9 (2.2)	2.3 (2.6)	2.8 (3.1)	2.6 (3.1)	2.5 (3.0)	<0.001	<0.001
Poultry	2.4	2.2	0.2	2.0 (2.2)	2.1 (2.4)	2.0 (2.2)	2.1 (2.5)	2.0 (2.4)	0.591	0.628
Processed Potatoes	2.3	1.6	0.7	2.2 (2.5)	1.9 (2.2)	1.8 (2.1)	1.8 (2.2)	1.9 (2.3)	0.002	<0.001
Ice Cream and Dairy Desserts	2.1	2.0	0.2	1.9 (2.1)	1.9 (2.2)	1.8 (2.0)	1.7 (2.0)	1.8 (2.1)	0.060	0.140
Ready Meals	2.0	2.0	0.0	1.3 (1.5)	1.5 (1.8)	1.6 (1.8)	1.6 (1.9)	1.6 (2.0)	<0.001	<0.001
Nuts	1.9	1.9	0.0	0.7 (0.8)	1.2 (1.4)	1.4 (1.6)	1.2 (1.4)	1.6 (1.9)	<0.001	<0.001
Cream	1.6	1.5	0.0	0.9 (1.0)	1.1 (1.3)	1.1 (1.3)	1.2 (1.4)	1.3 (1.6)	<0.001	0.001
Sandwiches	1.5	0.3	1.2	1.6 (1.8)	1.5 (1.8)	1.5 (1.7)	1.4 (1.6)	1.2 (1.5)	<0.001	0.004
Bread and Rolls	1.4	1.3	0.0	1.7 (1.9)	1.6 (1.9)	1.5 (1.7)	1.4 (1.6)	1.2 (1.4)	<0.001	<0.001
Eggs	1.3	1.2	0.1	1.5 (1.7)	1.3 (1.5)	1.4 (1.6)	1.2 (1.4)	1.1 (1.3)	<0.001	<0.001
Pizza	1.3	1.1	0.2	0.8 (0.9)	0.9 (1.0)	0.8 (1.0)	1.1 (1.3)	1.1 (1.3)	<0.001	<0.001
Eating Out Main Meal Component	1.2	0.0	1.2	0.6 (0.7)	1.0 (1.2)	0.9 (1.0)	0.8 (0.9)	1.0 (1.2)	0.096	0.002
Total Breakfast Cereal	1.0	1.0	0.0	0.6 (0.7)	0.7 (0.8)	0.9 (1.0)	0.8 (1.0)	0.8 (1.0)	<0.001	<0.001
Other Food Groupings <sup>6</sup>	7.0	6.3	1.1	6.4 (7.0)	6.5 (7.7)	6.8 (7.6)	6.1 (7.3)	6.1 (7.0)	-	-

<sup>&</sup>lt;sup>1</sup>See Appendix 8 for details of foods in each food grouping; <sup>2</sup>P-values are for the linear association over time of the contributing amount in g; <sup>3</sup>P-values are for the overall association over time of the contributing amount in g; <sup>4</sup>May include starch component e.g. pastry / potato / bread; <sup>5</sup>Includes unspecified foods, mainly eating out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 8 for details of all foods included in this food grouping; <sup>6</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 14: Mean contribution of foods providing more than 1% of saturated fat (2001-2015 data)

	% Cont	ribution to Satu	rated Fat	Sa	aturated Fat g (	% Contribution	to Saturated Fa	at)	P-Value for	
Food Grouping <sup>1</sup>		2013-2015		2001-2003	2004-2006	2007-2009	2010-2012	2013-2015	Linear Association <sup>2</sup>	Overall Association <sup>3</sup>
	All	Household	Eating Out	All	All	All	All	All	ASSOCIATION	Association
Total Spreading Fats	16.0	15.9	0.1	4.6 (13.0)	4.9 (14.2)	4.7 (13.8)	5.0 (15.5)	5.1 (16.0)	0.057	0.331
Total Processed Red Meat <sup>4</sup>	12.0	11.0	1.0	4.4 (12.3)	4.0 (11.8)	4.0 (11.6)	4.0 (12.3)	3.8 (12.0)	0.001	0.003
Total Milk	8.5	8.3	0.2	4.1 (11.5)	3.5 (10.2)	3.4 (9.7)	3.0 (9.2)	2.7 (8.5)	<0.001	<0.001
Total Cheese	8.4	8.3	0.0	2.7 (7.6)	2.7 (7.9)	3.0 (8.6)	2.7 (8.5)	2.7 (8.4)	0.860	0.161
Sweet Biscuits	7.7	7.6	0.1	2.8 (7.9)	2.6 (7.5)	2.7 (7.8)	2.4 (7.4)	2.5 (7.7)	0.001	0.003
Total Confectionery	6.3	6.0	0.3	2.1 (6.1)	2.0 (6.0)	2.2 (6.5)	2.1 (6.4)	2.0 (6.3)	0.359	0.434
Unclassified Foods <sup>5</sup>	5.8	2.3	3.5	2.0 (5.7)	1.7 (5.0)	1.9 (5.5)	1.8 (5.5)	1.8 (5.8)	0.419	0.260
Cakes, Pastries and Puddings	3.7	3.1	0.5	1.2 (3.5)	1.2 (3.6)	1.3 (3.6)	1.2 (3.6)	1.2 (3.7)	0.076	0.250
Ice Cream and Dairy Desserts	3.7	3.5	0.2	1.2 (3.5)	1.2 (3.6)	1.2 (3.5)	1.1 (3.4)	1.2 (3.7)	0.155	0.311
Unprocessed Red Meat	3.7	3.6	0.1	1.5 (4.4)	1.4 (4.2)	1.5 (4.2)	1.4 (4.3)	1.2 (3.7)	<0.001	0.002
Cream	2.6	2.6	0.0	0.6 (1.6)	0.7 (2.0)	0.7 (2.1)	0.8 (2.4)	0.8 (2.6)	<0.001	0.001
Cooking Oil	2.1	2.1	0.0	0.6 (1.6)	0.6 (1.9)	0.7 (2.0)	0.7 (2.1)	0.7 (2.1)	0.103	0.135
Poultry	1.8	1.6	0.2	0.6 (1.6)	0.6 (1.7)	0.6 (1.6)	0.6 (1.8)	0.6 (1.8)	0.589	0.634
Crisps and Savoury Snacks	1.6	1.2	0.4	1.8 (5.1)	1.5 (4.4)	1.2 (3.3)	0.5 (1.5)	0.5 (1.6)	<0.001	<0.001
Pizza	1.4	1.2	0.2	0.3 (0.9)	0.4 (1.0)	0.3 (1.0)	0.4 (1.4)	0.4 (1.4)	<0.001	<0.001
Ready Meals	1.2	1.2	0.0	0.4 (1.1)	0.4 (1.3)	0.4 (1.2)	0.4 (1.2)	0.4 (1.2)	0.261	0.367
Sandwiches	1.2	0.3	0.9	0.5 (1.3)	0.4 (1.3)	0.5 (1.3)	0.4 (1.3)	0.4 (1.2)	0.001	0.003
Processed Potatoes	1.1	0.9	0.2	0.4 (1.2)	0.4 (1.1)	0.3 (0.9)	0.3 (1.0)	0.3 (1.1)	<0.001	<0.001
Eggs	1.0	0.9	0.1	0.4 (1.2)	0.4 (1.1)	0.4 (1.1)	0.3 (1.0)	0.3 (1.0)	<0.001	<0.001
Nuts	1.0	1.0	0.0	0.2 (0.4)	0.2 (0.7)	0.3 (0.9)	0.2 (0.8)	0.3 (1.0)	<0.001	<0.001
Savoury Sauces and Dressings	1.0	0.9	0.1	0.3 (0.9)	0.4 (1.1)	0.4 (1.2)	0.3 (1.1)	0.3 (1.0)	0.679	<0.001
Other Food Groupings <sup>6</sup>	8.2	6.8	1.6	2.7 (7.6)	3.0 (8.4)	2.8 (8.6)	2.7 (8.3)	2.7 (8.2)	-	-

<sup>&</sup>lt;sup>1</sup>See Appendix 8 for details of foods in each food grouping; <sup>2</sup>P-values are for the linear association over time of the contributing amount in g; <sup>3</sup>P-values are for the overall association over time of the contributing amount in g; <sup>4</sup>May include starch component e.g. pastry / potato / bread; <sup>5</sup>Includes unspecified foods, mainly eating out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 8 for details of all foods included in this food grouping; <sup>6</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 15: Mean contribution of foods providing more than 1% of NMES (2001-2015 data)

	% C	ontribution to N	IMES		NMES g (	% Contribution	to NMES)		P-Value for	P-value for
Food Grouping <sup>1</sup>		2013-2015		2001-2003	2004-2006	2007-2009	2010-2012	2013-2015	Linear	Overall
	All	Household	Eating Out	All	All	All	All	All	Association <sup>2</sup>	Association <sup>3</sup>
Sugar Containing Soft Drinks	20.8	17.0	3.8	22.5 (25.8)	21.1 (25.6)	19.5 (23.7)	17.0 (22.2)	14.9 (20.8)	<0.001	<0.001
Total Confectionery	17.9	16.9	0.9	13.9 (16.0)	12.8 (15.5)	13.3 (16.1)	12.6 (16.5)	12.8 (17.9)	0.131	0.248
Sugar	13.3	13.2	0.0	13.7 (15.7)	11.2 (13.6)	11.3 (13.7)	11.5 (15.1)	9.5 (13.3)	0.001	0.005
Sweet Biscuits	8.0	7.9	0.1	6.3 (7.3)	5.8 (7.1)	6.4 (7.8)	5.5 (7.2)	5.7 (8.0)	0.007	0.006
Total Fruit and Vegetables	6.8	6.4	0.4	5.7 (6.6)	6.1 (7.4)	6.4 (7.8)	5.9 (7.7)	4.9 (6.8)	0.030	0.011
Cakes, Pastries and Puddings	6.2	5.6	0.6	4.9 (5.6)	4.9 (6.0)	4.8 (5.8)	4.4 (5.8)	4.4 (6.2)	0.009	0.042
Ice Cream and Dairy Desserts	5.1	4.9	0.2	2.9 (3.3)	2.8 (3.4)	3.0 (3.6)	3.3 (4.4)	3.7 (5.1)	<0.001	<0.001
Jam, Marmalade, Honey and Sweet Spreads	4.9	4.9	0.1	3.2 (3.7)	3.5 (4.3)	3.9 (4.7)	3.5 (4.6)	3.5 (4.9)	0.424	0.276
Total Breakfast Cereal	3.5	3.5	0.0	2.9 (3.3)	2.6 (3.1)	2.9 (3.6)	2.5 (3.2)	2.5 (3.5)	0.042	0.027
Savoury Sauces and Dressings	2.6	2.6	0.0	2.0 (2.3)	1.9 (2.4)	2.0 (2.4)	2.0 (2.6)	1.9 (2.6)	0.242	0.474
Alcoholic Drinks	2.5	1.0	1.5	2.7 (3.1)	2.7 (3.3)	2.3 (2.7)	2.2 (2.9)	1.8 (2.5)	<0.001	<0.001
Yoghurt and Fromage Frais	2.4	2.4	0.0	1.5 (1.7)	1.8 (2.2)	1.9 (2.3)	1.9 (2.4)	1.7 (2.4)	0.038	<0.001
Unclassified Foods⁴	1.0	0.7	0.4	0.9 (1.0)	0.9 (1.0)	0.9 (1.1)	0.8 (1.0)	0.7 (1.0)	0.023	0.229
Other Food Groupings <sup>5</sup>	5.0	4.1	0.9	4.1 (4.6)	4.2 (5.1)	3.8 (4.7)	3.5 (4.4)	3.7 (5.0)	-	-

<sup>&</sup>lt;sup>1</sup>See Appendix 8 for details of foods in each food grouping; <sup>2</sup>P-values are for the linear association over time of the contributing amount in g; <sup>3</sup>P-values are for the overall association over time of the contributing amount in g; <sup>4</sup>Includes unspecified foods, mainly eating out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 8 for details of all foods included in this food grouping; <sup>5</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 16: Mean contribution of foods providing more than 1% of NSP (2001-2015 data)

	% (	Contribution to I	NSP		NSP g (	% Contribution	to NSP)		P-Value for	P-value for
Food Grouping <sup>1</sup>		2013-2015		2001-2003	2004-2006	2007-2009	2010-2012	2013-2015	Linear Association <sup>2</sup>	Overall Association <sup>3</sup>
	All	Household	Eating Out	All	All	All	All	All	ASSOCIATION	Association
Total Fruit and Vegetables	24.1	23.4	0.7	2.9 (23.5)	3.1 (25.1)	3.2 (25.1)	2.9 (24.1)	2.9 (24.1)	0.306	0.006
Bread and Rolls	13.5	13.4	0.1	2.0 (16.3)	2.0 (16.2)	1.9 (14.7)	1.8 (14.4)	1.6 (13.5)	<0.001	<0.001
Total Breakfast Cereal	9.7	9.7	0.0	1.3 (10.5)	1.2 (9.5)	1.3 (10.3)	1.2 (10.0)	1.2 (9.7)	0.192	0.091
Unclassified Foods <sup>4</sup>	9.2	2.7	6.5	1.3 (10.4)	1.0 (8.4)	1.1 (8.7)	1.1 (8.7)	1.1 (9.2)	0.167	0.137
Processed Potatoes	5.2	4.1	1.2	0.6 (5.1)	0.5 (4.3)	0.6 (4.4)	0.6 (5.1)	0.6 (5.2)	0.287	0.001
Pasta, Rice and Noodles	3.8	3.6	0.2	0.4 (3.0)	0.4 (3.3)	0.5 (3.7)	0.5 (3.8)	0.4 (3.8)	0.007	<0.001
Sweet Biscuits	3.7	3.7	0.1	0.4 (3.5)	0.4 (3.3)	0.5 (3.6)	0.4 (3.5)	0.4 (3.7)	0.362	0.055
Crisps and Savoury Snacks	3.6	3.3	0.4	0.7 (5.4)	0.6 (4.5)	0.5 (3.7)	0.4 (3.5)	0.4 (3.6)	<0.001	<0.001
Total Processed Red Meat⁵	2.8	2.4	0.4	0.3 (2.5)	0.3 (2.4)	0.3 (2.3)	0.3 (2.8)	0.3 (2.8)	0.003	0.003
Potatoes	2.6	2.3	0.3	0.4 (3.2)	0.6 (4.8)	0.5 (4.3)	0.4 (3.6)	0.3 (2.6)	<0.001	<0.001
Other Baked Goods	2.5	2.3	0.1	0.2 (1.6)	0.2 (2.0)	0.3 (2.2)	0.3 (2.3)	0.3 (2.5)	<0.001	<0.001
Total Confectionery	2.2	2.2	0.0	0.1 (1.1)	0.1 (1.1)	0.2 (1.2)	0.3 (2.2)	0.3 (2.2)	<0.001	<0.001
Cakes, Pastries and Puddings	1.9	1.6	0.3	0.2 (1.5)	0.2 (1.5)	0.2 (1.6)	0.2 (1.8)	0.2 (1.9)	<0.001	<0.001
Ready Meals	1.9	1.9	0.0	0.2 (1.4)	0.2 (1.5)	0.2 (1.5)	0.2 (1.8)	0.2 (1.9)	<0.001	<0.001
Flour	1.6	1.6	0.0	0.1 (1.0)	0.2 (1.2)	0.2 (1.6)	0.2 (1.3)	0.2 (1.6)	0.015	0.017
Nuts	1.6	1.6	0.0	0.1 (0.7)	0.1 (1.2)	0.2 (1.4)	0.1 (1.2)	0.2 (1.6)	<0.001	<0.001
Pizza	1.6	1.3	0.2	0.2 (1.4)	0.2 (1.5)	0.2 (1.3)	0.2 (1.6)	0.2 (1.6)	0.080	0.110
Savoury Sauces and Dressings	1.6	1.5	0.1	0.2 (1.3)	0.2 (1.5)	0.2 (1.6)	0.2 (1.6)	0.2 (1.6)	0.001	<0.001
Eating Out Main Meal Component	1.4	0.0	1.4	0.1 (0.8)	0.2 (1.3)	0.1 (1.2)	0.1 (1.1)	0.2 (1.4)	0.084	0.003
Sandwiches	1.2	0.2	0.9	0.2 (1.4)	0.2 (1.4)	0.2 (1.3)	0.2 (1.3)	0.1 (1.2)	0.001	0.005
Savoury Biscuits	1.2	1.2	0.0	0.1 (0.8)	0.1 (0.9)	0.1 (1.0)	0.1 (1.1)	0.1 (1.2)	<0.001	0.004
Soup	1.0	0.6	0.4	0.1 (1.1)	0.1 (1.1)	0.1 (1.0)	0.1 (1.2)	0.1 (1.0)	0.244	0.153
Other Food Groupings <sup>6</sup>	2.1	1.9	0.2	0.2 (2.5)	0.3 (2.0)	0.2 (2.3)	0.4 (2.0)	0.4 (2.1)	-	-

<sup>1</sup>Please see Appendix 8 for details of foods in each food grouping; <sup>2</sup>P-values are for the linear association over time of the contributing amount in g; <sup>3</sup>P-values are for the overall association over time of the contributing amount in g; <sup>4</sup>Includes unspecified foods, mainly eating out such as 'meal', 'school meal' or 'meal at work', and unspecified meals on wheels - see Appendix 8 for details of all foods included in this food grouping; <sup>5</sup>May include starch component e.g. pastry / potato / bread; <sup>5</sup>Full list of food groupings are provided in Appendix 2; <sup>6</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

# 3.2.2 Differences in Contributing Foods over Time by SIMD

Tables 17-21 present the contribution of foods to intakes of energy, fat, saturated fat, NMES and NSP by SIMD quintile for 2013 to 2015. The tables have been arranged in descending order of the greatest absolute difference between SIMD quintile 1 and SIMD quintile 5 for energy, fat, saturated fat, NMES and NSP. A pragmatic decision was taken to present only the results for food groupings where there was both a significant difference for linear association at p<0.05 and an absolute difference between SIMD quintile 1 and SIMD quintile 5 which was greater than or equal to 10kcal or 0.1g. Percentage contributions presented are based on the total intake for the SIMD quintile rather than that of the overall population. P-values were calculated for linear and overall association with the contributing amount in kcal or g rather than the % contribution, with p-values ≤0.01 highlighted in bold to indicate significance at the 1% level. The absolute difference column is the absolute difference between the most and the least deprived quintile and is a simple measure of inequality. A positive figure shows that contribution of the food grouping is greater in the most deprived quintile and a negative figure shows that contribution of the food grouping is greater in the least deprived quintile.

## Energy

**Table 17** shows that the foods, contributing to energy intake, for which there were absolute differences greater than or equal to 25kcal between SIMD quintiles were total processed red meat, cooking oil, and bread and rolls (consumed more in the most deprived) and alcoholic drinks, total fruit and vegetables, and total breakfast cereals (consumed more in the least deprived).

#### Fat

**Table 18** shows that the foods, contributing to fat intake, for which there were absolute differences greater than or equal to one gram between SIMD quintiles were total processed red meat, cooking oil and whole milk (consumed more in the most deprived) and cream, butter, and nuts (consumed more in the least deprived).

#### Saturated Fat

**Table 19** shows that the foods, contributing to saturated fat intake, for which there were absolute differences greater than or equal to 0.5 grams between SIMD quintiles were total processed red meat and whole milk (consumed more in the most deprived) and cream, butter, and total cheese (consumed more in the least deprived).

# **NMES**

**Table 20** shows that the foods, contributing to NMES intake, for which there were absolute differences greater than or equal to 0.5 grams between SIMD quintiles were sugar containing soft drinks (consumed more in the most deprived) and total fruit and vegetables; jam, marmalade honey and sweet spreads; cakes pastries and puddings; alcoholic drinks; yoghurt and fromage frais; and wholegrain/high fibre breakfast cereal (consumed more in the least deprived). It should be noted that sugar containing soft drinks contributed 6.6g more NMES in the most deprived than in the least deprived.

#### NSP

**Table 21** shows that the foods, contributing to NSP intake, for which there were absolute differences greater than or equal to 0.5 grams between SIMD quintiles were total fruit and vegetables and total breakfast cereal. They contributed the majority of the additional NSP consumed by the least deprived compared to the most deprived and as such fruit and vegetables and breakfast cereals that are high in fibre and low in NMES continue to be two key food groupings to be targeted in healthy eating messages to consumers and policy makers.

Table 17: Mean contribution to energy from selected foods<sup>1</sup> by SIMD (LCFS Household and Eating Out Data for 2013 to 2015 combined)

	Overall kcal (%)			SIMD Quintile kcal (%)	)		Absolute difference between SIMD 1 and SIMD 5	P-value for linear association	P-value for overall association
		1 Most Deprived	2	3	4	5 Least Deprived	kcal (%)		
Foods with greater contribution in most deprived									
Total Processed Red Meat <sup>2</sup>	146 (7.5)	172 (9.1)	155 (8.5)	136 (6.8)	148 (7.2)	125 (6.4)	46.6 (2.8)	0.001	0.005
Cooking Oil	51.6 (2.6)	66.3 (3.0)	67.8 (3.2)	41.5 (1.8)	48.1 (2.0)	39.2 (1.8)	27.1 (1.2)	0.047	0.204
Bread and Rolls	130 (6.7)	143 (6.4)	135 (6.3)	124 (5.4)	135 (5.7)	117 (5.3)	26.0 (1.1)	0.014	0.003
Sugar Containing Soft Drinks	57.0 (2.9)	71.6 (3.8)	63.6 (3.5)	50.5 (2.5)	56.4 (2.7)	46.9 (2.4)	24.7 (1.4)	0.006	0.017
Whole Milk	25.9 (1.3)	35.9 (1.9)	34.9 (1.9)	25.9 (1.3)	17.8 (0.9)	18.8 (1.0)	17.1 (1.0)	<0.001	0.002
Processed Potatoes	50.6 (2.6)	57.4 (3.1)	55.0 (3.0)	50.2 (2.5)	49.2 (2.4)	43.5 (2.2)	13.9 (0.8)	0.007	0.033
Foods with greater contribution in least deprived									
Alcoholic Drinks	71.1 (3.6)	54.3 (2.9)	67.3 (3.7)	74.2 (3.7)	66.5 (3.2)	89.2 (4.5)	-34.9 (-1.6)	0.016	0.088
Total Fruit and Vegetables	91.9 (4.7)	74.4 (4.0)	71.2 (3.9)	102 (5.1)	99.9 (4.9)	106 (5.4)	-31.8 (-1.4)	<0.001	<0.001
Total Breakfast Cereal	73.8 (3.8)	59.2 (3.1)	61.9 (3.4)	73.1 (3.7)	83.8 (4.1)	85.5 (4.3)	-26.3 (-1.2)	<0.001	0.006
Cakes, Pastries and Puddings	59.7 (3.1)	50.8 (2.7)	54.1 (3.0)	61.0 (3.1)	63.7 (3.1)	65.7 (3.3)	-15.0 (-0.6)	0.031	0.262
Semi-skimmed Milk	64.3 (3.3)	56.5 (3.0)	57.7 (3.2)	64.8 (3.2)	69.9 (3.4)	69.6 (3.5)	-13.1 (-0.5)	0.036	0.315
Other Baked Goods	33.0 (1.7)	26.7 (1.4)	26.3 (1.4)	32.8 (1.6)	37.1 (1.8)	39.7 (2.0)	-13.0 (-0.6)	<0.001	<0.001
Cream	12.4 (0.6)	5.7 (0.3)	8.9 (0.5)	13.1 (0.7)	14.5 (0.7)	17.8 (0.9)	-12.1 (-0.6)	<0.001	<0.001
Nuts	18.5 (0.9)	11.2 (0.6)	13.5 (0.7)	18.1 (0.9)	24.0 (1.2)	22.8 (1.2)	-11.6 (-0.6)	<0.001	0.004
Jam, Marmalade, Honey and Sweet Spreads	17.2 (0.9)	10.8 (0.6)	14.2 (0.8)	16.1 (0.8)	20.2 (1.0)	22.4 (1.1)	-11.6 (-0.6)	0.001	0.016
Unprocessed Fish	13.1 (0.7)	7.1 (0.4)	9.2 (0.5)	14.3 (0.7)	14.9 (0.7)	18.3 (0.9)	-11.1 (-0.6)	<0.001	<0.001
Other Food Groupings <sup>3</sup>	1035 (53.1)	979 (56.5)	923 (54.9)	1103 (57.9)	1106 (56.6)	1039 (55.3)	-60.2 (-1.2)	-	-
Total Energy	1951	1881	1818	2000	2056	1966	-85.0	-	-

<sup>&</sup>lt;sup>1</sup>The selected foods presented are those where there is a 10kcal or above absolute difference between SIMD 1 and SIMD 5 and where there is a significant difference at 0.05, please see Appendix 8 for details of foods in each food grouping; 2May include starch component e.g. pastry / potato / bread; 3Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 18: Mean contribution to fat from selected foods<sup>1</sup> by SIMD (LCF Household and Eating Out Data for 2013 to 2015 combined)

	Overall g (%)			SIMD Quintile g (%)	•		Absolute difference between SIMD 1 and SIMD 5	P-value for linear association	P-value for overall association
		1 Most Deprived	2	3	4	5 Least Deprived	g (%)		
Foods with greater contribution in most deprived									
Total Processed Red Meat <sup>2</sup>	10.4 (12.4)	11.8 (12.4)	10.7 (11.8)	9.4 (10.3)	10.3 (10.7)	8.6 (9.7)	3.2 (2.7)	0.002	0.009
Cooking Oil	5.7 (6.8)	7.4 (7.8)	7.5 (8.3)	4.6 (5.0)	5.3 (5.6)	4.4 (4.9)	3.0 (2.9)	0.047	0.204
Whole Milk	1.6 (1.9)	2.2 (2.3)	2.1 (2.3)	1.6 (1.7)	1.1 (1.1)	1.1 (1.3)	1.0 (1.0)	<0.001	0.002
Reduced and Low Fat Spread	2.8 (3.4)	3.1 (3.3)	3.7 (4.1)	2.6 (2.9)	2.5 (2.6)	2.2 (2.4)	0.9 (0.8)	0.010	0.102
Processed Potatoes	1.9 (2.3)	2.2 (2.3)	2.1 (2.3)	1.8 (2.0)	1.9 (1.9)	1.7 (1.9)	0.5 (0.4)	0.006	0.053
Foods with greater contribution in least deprived									
Cream	1.3 (1.6)	0.6 (0.6)	0.9 (1.0)	1.4 (1.5)	1.5 (1.6)	1.9 (2.1)	-1.3 (-1.5)	<0.001	<0.001
Butter	6.3 (7.6)	5.7 (6.1)	4.6 (5.1)	6.9 (7.6)	7.2 (7.5)	6.8 (7.6)	-1.0 (-1.6)	0.008	0.035
Nuts	1.6 (1.9)	1.0 (1.0)	1.2 (1.3)	1.5 (1.7)	2.0 (2.1)	1.9 (2.2)	-1.0 (-1.2)	<0.001	0.004
Total Cheese	4.2 (5.1)	3.5 (3.7)	3.6 (3.9)	4.8 (5.2)	4.9 (5.1)	4.2 (4.8)	-0.8 (-1.1)	0.005	0.004
Cakes, Pastries and Puddings	2.8 (3.3)	2.3 (2.5)	2.5 (2.8)	2.8 (3.1)	2.9 (3.1)	3.1 (3.4)	-0.7 (-1.0)	0.030	0.253
Total Breakfast Cereal	0.8 (1.0)	0.5 (0.5)	0.6 (0.7)	0.8 (0.9)	1.0 (1.0)	1.1 (1.2)	-0.6 (-0.7)	<0.001	<0.001
Unprocessed Fish	0.7 (0.8)	0.4 (0.4)	0.4 (0.5)	0.7 (0.8)	0.8 (0.8)	0.9 (1.0)	-0.6 (-0.7)	<0.001	<0.001
Sandwiches	1.2 (1.5)	1.0 (1.0)	1.1 (1.2)	1.4 (1.5)	1.4 (1.4)	1.4 (1.5)	-0.4 (-0.5)	0.003	0.031
Total Fruit and Vegetables	0.8 (1.0)	0.6 (0.6)	0.6 (0.6)	0.8 (0.9)	0.8 (0.9)	0.9 (1.0)	-0.3 (-0.4)	<0.001	<0.001
Other Baked Goods	0.8 (1.0)	0.6 (0.7)	0.6 (0.7)	0.8 (0.8)	0.9 (0.9)	0.9 (1.0)	-0.3 (-0.4)	<0.001	<0.001
Jam, Marmalade, Honey and Sweet Spreads	0.3 (0.4)	0.2 (0.2)	0.2 (0.2)	0.3 (0.3)	0.4 (0.4)	0.5 (0.5)	-0.3 (-0.3)	0.021	0.167
Yoghurt and Fromage Frais	0.4 (0.5)	0.3 (0.4)	0.4 (0.5)	0.4 (0.4)	0.5 (0.5)	0.5 (0.6)	-0.2 (-0.2)	0.001	0.006
Savoury Biscuits	0.3 (0.4)	0.2 (0.2)	0.2 (0.2)	0.4 (0.4)	0.4 (0.4)	0.3 (0.4)	-0.1 (-0.2)	0.010	0.011
Other Food Groupings <sup>3</sup>	39.4 (47.1)	38.8 (54.0)	37.0 (52.5)	41.1 (53.0)	42.7 (52.4)	40.3 (52.5)	-1.5 (1.5)	-	-
Total Fat	83.3	82.4	80.0	84.1	88.5	82.7	-0.3	-	-

<sup>&</sup>lt;sup>1</sup>The selected foods presented are those where there is a 0.1g or above absolute difference between SIMD 1 and SIMD 5 and where there is a significant difference at 0.05, please see Appendix 8 for details of foods in each food grouping; <sup>2</sup>May include starch component e.g. pastry / potato / bread; <sup>3</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 19: Mean contribution to saturated fat from selected foods1 by SIMD (LCF Household and Eating Out Data for 2013 to 2015 combined)

	Overall g (%)			SIMD Quintile g (%)			Absolute difference between SIMD 1 and SIMD 5	P-value for linear association	P-value for overall association
		1 Most Deprived	2	3	4	5 Least Deprived	g (%)		
Foods with greater contribution in mos	t deprived					•			
Total Processed Red Meat <sup>2</sup>	3.8 (12.0)	4.5 (10.9)	4.1 (10.5)	3.6 (8.6)	3.9 (9.1)	3.3 (8.2)	1.2 (2.7)	0.002	0.010
Whole Milk	1.0 (3.2)	1.4 (3.4)	1.3 (3.4)	1.0 (2.4)	0.7 (1.6)	0.7 (1.8)	0.7 (1.6)	<0.001	0.002
Reduced and Low Fat Spread	0.6 (1.9)	0.7 (1.7)	0.9 (2.2)	0.6 (1.5)	0.6 (1.3)	0.5 (1.3)	0.2 (0.5)	0.010	0.101
Processed Potatoes	0.3 (1.1)	0.4 (1.0)	0.4 (1.0)	0.3 (0.8)	0.3 (0.7)	0.3 (0.7)	0.1 (0.3)	0.001	0.010
Foods with greater contribution in leas	t deprived								
Cream	0.8 (2.6)	0.4 (0.9)	0.6 (1.5)	0.9 (2.1)	1.0 (2.3)	1.2 (3.0)	-0.8 (-2.0)	<0.001	<0.001
Butter	4.0 (12.6)	3.7 (8.9)	3.0 (7.6)	4.4 (10.6)	4.6 (10.7)	4.3 (10.8)	-0.7 (-1.9)	0.008	0.035
Total Cheese	2.7 (8.4)	2.2 (5.3)	2.3 (5.8)	3.0 (7.2)	3.1 (7.2)	2.7 (6.7)	-0.5 (-1.3)	0.006	0.004
Semi-skimmed Milk	1.5 (4.7)	1.3 (3.1)	1.3 (3.4)	1.5 (3.5)	1.6 (3.7)	1.6 (4.0)	-0.3 (-0.8)	0.036	0.315
Cakes, Pastries and Puddings	1.2 (3.7)	1.0 (2.4)	1.1 (2.7)	1.2 (2.9)	1.2 (2.9)	1.3 (3.2)	-0.3 (-0.8)	0.029	0.241
Nuts	0.3 (1.0)	0.2 (0.5)	0.2 (0.6)	0.3 (0.7)	0.4 (1.0)	0.4 (1.0)	-0.2 (-0.5)	<0.001	0.004
Unprocessed Fish	0.1 (0.3)	0.1 (0.2)	0.1 (0.2)	0.1 (0.3)	0.1 (0.3)	0.2 (0.4)	-0.1 (-0.3)	<0.001	<0.001
Other Baked Goods	0.3 (0.9)	0.2 (0.5)	0.2 (0.6)	0.3 (0.7)	0.3 (0.7)	0.3 (0.8)	-0.1 (-0.3)	<0.001	<0.001
Sandwiches	0.4 (1.2)	0.3 (0.7)	0.3 (0.8)	0.4 (1.0)	0.4 (0.9)	0.4 (1.0)	-0.1 (-0.3)	0.006	0.053
Total Breakfast Cereal	0.2 (0.6)	0.1 (0.3)	0.1 (0.4)	0.2 (0.4)	0.2 (0.5)	0.2 (0.6)	-0.1 (-0.3)	<0.001	<0.001
Eating Out Main Meal Component	0.2 (0.6)	0.2 (0.4)	0.1 (0.4)	0.2 (0.5)	0.2 (0.6)	0.3 (0.8)	-0.1 (-0.3)	0.047	0.281
Yoghurt and Fromage Frais	0.3 (0.9)	0.2 (0.6)	0.3 (0.7)	0.3 (0.6)	0.3 (0.8)	0.4 (0.9)	-0.1 (-0.3)	0.001	0.006
Savoury Biscuits	0.1 (0.3)	0.1 (0.2)	0.1 (0.3)	0.2 (0.4)	0.2 (0.4)	0.2 (0.4)	-0.1 (-0.2)	0.016	0.024
Jam, Marmalade, Honey and Sweet Spreads	0.1 (0.3)	0.0 (0.1)	0.0 (0.1)	0.1 (0.1)	0.1 (0.2)	0.1 (0.3)	-0.1 (-0.2)	0.021	0.168
Total Fruit and Vegetables	0.2 (0.6)	0.2 (0.4)	0.2 (0.4)	0.2 (0.6)	0.2 (0.5)	0.2 (0.6)	-0.1 (-0.2)	<0.001	<0.001
Other Food Groupings <sup>3</sup>	13.5 (43.1)	13.3 (58.5)	13.1 (57.4)	14.0 (55.1)	14.3 (54.6)	13.3 (53.5)	0.0 (5.0)	-	-
Total Saturated Fat	31.6	30.5	29.7	32.8	33.7	31.9	-1.4	-	-
·	1	1		1					1

<sup>&</sup>lt;sup>1</sup>The selected foods presented are those where there is a 0.1g or above absolute difference between SIMD 1 and SIMD 5 and where there is a significant difference at 0.05, please see Appendix 8 for details of foods in each food grouping; <sup>2</sup>May include starch component e.g. pastry / potato / bread; <sup>3</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 20: Mean contribution to NMES from selected foods<sup>1</sup> by SIMD (LCF Household and Eating Out Data for 2013 to 2015 combined)

	Overall g (%)	SIMD Quintile g (%)					Absolute difference between SIMD 1 and SIMD 5	P-value for linear association	P-value for overall association
		1 Most Deprived	2	3	4	5 Least Deprived	g (%)		
Foods with greater contribution in mos	st deprived								
Sugar Containing Soft Drinks	14.9 (20.8)	18.8 (26.2)	16.6 (23.1)	13.2 (18.0)	14.7 (19.0)	12.2 (17.1)	6.6 (9.0)	0.005	0.017
Foods with greater contribution in leas	st deprived								
Total Fruit and Vegetables	4.9 (6.8)	3.4 (4.8)	3.6 (5.1)	5.4 (7.3)	5.2 (6.7)	6.4 (9.1)	-3.0 (-4.3)	<0.001	<0.001
Jam, Marmalade, Honey and Sweet Spreads	3.5 (4.9)	2.3 (3.2)	3.1 (4.2)	3.4 (4.7)	4.1 (5.2)	4.5 (6.3)	-2.2 (-3.1)	<0.001	0.006
Cakes, Pastries and Puddings	4.4 (6.2)	3.8 (5.2)	4.0 (5.6)	4.5 (6.2)	4.7 (6.1)	4.8 (6.8)	-1.1 (-1.6)	0.041	0.338
Alcoholic Drinks	1.8 (2.5)	1.1 (1.6)	1.9 (2.6)	1.8 (2.5)	1.7 (2.2)	2.3 (3.2)	-1.1 (-1.6)	0.011	0.002
Yoghurt and Fromage Frais	1.7 (2.4)	1.3 (1.8)	1.6 (2.2)	1.5 (2.1)	1.9 (2.4)	2.1 (2.9)	-0.8 (-1.1)	0.001	0.003
Wholegrain/ High Fibre Breakfast Cereal	0.8 (1.1)	0.5 (0.7)	0.6 (0.8)	0.8 (1.1)	0.9 (1.2)	1.0 (1.5)	-0.5 (-0.8)	<0.001	<0.001
Other Baked Goods	0.5 (0.7)	0.4 (0.6)	0.4 (0.5)	0.5 (0.7)	0.5 (0.7)	0.5 (0.7)	-0.1 (-0.1)	0.021	0.069
Nuts	0.2 (0.3)	0.1 (0.1)	0.1 (0.2)	0.1 (0.2)	0.2 (0.3)	0.2 (0.3)	-0.1 (-0.1)	<0.001	0.004
Other Food Groupings <sup>2</sup>	38.7 (54.3)	40.3 (55.8)	40.2 (55.7)	42.0 (57.2)	43.5 (56.2)	37.1 (52.1)	3.2 (3.7)	-	-
Total NMES	71.4	72.0	72.1	73.2	77.4	71.1	0.9	-	-

The selected foods presented are those where there is a 0.1g or above absolute difference between SIMD 1 and SIMD 5 and where there is a significant difference at 0.05, please see Appendix 8 for details of foods in each food grouping; <sup>2</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

Table 21: Mean contribution to NSP from selected foods<sup>1</sup> by SIMD (LCF Household and Eating Out Data for 2013 to 2015 combined)

	Overall g (%)		SIMD Quintile g (%)					P-value for linear association	P-value for overall association
		1 Most Deprived	2	3	4	5 Least Deprived	and SIMD 5 g (%)		
Foods with greater contributi	on in most depri	ived							
Processed Potatoes	0.6 (5.2)	0.7 (6.5)	0.7 (6.4)	0.6 (5.1)	0.6 (4.5)	0.5 (4.2)	0.2 (2.4)	0.006	0.014
Total Processed Red Meat	0.3 (2.8)	0.4 (3.7)	0.4 (3.4)	0.3 (2.6)	0.3 (2.5)	0.3 (2.2)	0.1 (1.5)	<0.001	0.004
Foods with greater contributi	on in least depri	ived							
Total Fruit and Vegetables	2.9 (24.1)	2.4 (21.6)	2.3 (21.6)	3.1 (25.5)	3.1 (24.0)	3.2 (25.4)	-0.8 (-3.8)	<0.001	<0.001
Total Breakfast Cereal	1.2 (9.7)	0.8 (7.2)	1.0 (8.9)	1.2 (9.4)	1.3 (10.1)	1.4 (11.3)	-0.6 (-4.1)	<0.001	<0.001
Nuts	0.2 (1.6)	0.1 (1.0)	0.1 (1.3)	0.2 (1.5)	0.2 (1.9)	0.2 (1.9)	-0.1 (-0.8)	<0.001	0.004
Other Baked Goods	0.3 (2.5)	0.2 (2.1)	0.2 (2.2)	0.3 (2.3)	0.3 (2.6)	0.4 (2.8)	-0.1 (-0.8)	<0.001	<0.001
Savoury Biscuits	0.1 (1.2)	0.1 (0.7)	0.1 (0.9)	0.2 (1.3)	0.2 (1.8)	0.2 (1.2)	-0.1 (-0.5)	<0.001	<0.001
Cakes, Pastries and Puddings	0.2 (1.9)	0.2 (1.7)	0.2 (1.9)	0.2 (1.8)	0.2 (1.8)	0.2 (2.0)	-0.1 (-0.3)	0.028	0.306
Other Food Groupings <sup>2</sup>	6.1 (51.0)	5.8 (55.5)	5.3 (53.4)	6.3 (50.5)	6.7 (50.8)	6.2 (49.0)	-0.4 (6.5)	-	-
Total NSP	11.9	10.7	10.3	12.4	12.9	12.6	-1.9	-	-

<sup>&</sup>lt;sup>1</sup>The selected foods presented are those where there is a 0.1g or above absolute difference between SIMD 1 and SIMD 5 and where there is a significant difference at 0.05, please see Appendix 8 for details of foods in each food grouping; <sup>2</sup>Includes all food groupings not already listed - a full list of food groupings is provided in Appendix 7

# 4. Discussion

Monitoring of Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality
Estimates of mean food consumption and nutrient intake for Scotland, calculated using the household and eating out data from LCFS purchase data, and described previously (Barton and Wrieden, 2012, Barton et al., 2010, Wrieden and Barton, 2011, Wrieden and Barton, 2015) were updated by the addition of the years 2013, 2014 and 2015 to give trend data from 2001 through to 2015; this has been related to the Scotlish Dietary Goals. This is currently the only method of monitoring the complete diet over time in Scotland. Advantages and disadvantages of using the LCFS to estimate food consumption and nutrient intake are presented in Appendix 2.

A summary of the results for the goals measured here are presented in **Table 22**. Although there have been fluctuations over the 15 years, little change was found in intakes of foods and nutrients between 2001 and 2015.

Table 22: Mean food and nutrient intakes in relation to the Scottish Dietary Goals from 2001 to 2015

Food / Nutrient	Scottish Dietary Goal	2001- 2003	2013- 2015	Change between 2001- 2003 and 2013-2015 <sup>1</sup>	Highest consumption by SIMD in 2013-2015 <sup>1,2</sup>
Energy density (kcal/100g)	Average energy density of the diet to be lowered to 125 kcal/100g	171	175	<b>↑</b>	No Difference
Fruit and Vegetables (g/day)	At least 5 portions per person per day (> 400 g/day)	256	258	No Change	Least Deprived
Oil rich fish (g/week)	Increase to one portion per person (140g) per week	29	29	No Change	Least Deprived
Red Meat (g/day)	Average intake of red and processed meat to be pegged at around 70g per person per day	65	56	<b>↓</b>	No Difference
Fat (% food energy)	≤35% food energy	38.8	39.3	No Change	No Difference
Saturated Fat (% food energy)	≤11% of food energy	15.6	15.3	<b>↓</b>	No Difference
Sugar (% food energy)	NMES <sup>3</sup> to reduce to less than 11% of food energy in children and adults	15.7	14.3	<b>\</b>	No Difference
<b>Fibre</b> (g/day)	Increase in average consumption of fibre <sup>4</sup> to 18g/day	12	12	No Change	Least Deprived

<sup>&</sup>lt;sup>1</sup>Based on P-value for Linear Association ≤0.010; <sup>2</sup>SIMD = Scottish Index of Multiple Deprivation; <sup>3</sup>Non-milk extrinsic sugars - sugars, excluding those in milk and milk products that are not incorporated into the cellular structure of foods, such as fruit and vegetables e.g. sugar released from fruit when it is blended or juiced, table sugar, honey and added sugar in cakes, biscuit, sweets, breakfast cereals and soft drinks; <sup>4</sup>Non starch polysaccharide (NSP) as measured by Englyst method.

Results from the LCFS suggest lack of progress towards the Scottish Dietary Goals. Little or no change was found in the trends of consumption of the food-based goals over the period 2001-2015. The small, but statistically significant, increase in mean consumption of fruit and vegetables, found in the 10-year period from 2001 to 2010 stalled, with mean consumption for 2013-2015 being similar to that for 2001-2003. Mean fruit and vegetable consumption remains almost 2 portions below the population target of 5 portions per day. No change has been found in oil rich fish consumption. Red and processed meat

consumption reduced significantly between 2001-2003 and 2013-2015 with mean consumption meeting the goals. There were significant associations between deprivation level (measured using SIMD quintile) for fruit and vegetables, and oily fish, with consumption being greatest in the least deprived, however still well below the goals.

The mean energy density of the diet increased significantly between 2001-2003 and 2013-2015. Intakes of fat as a percentage of food energy for 2013-2015 were similar to those for 2001-2003, however a significant decrease was found for saturated fat when observing the trend between 2001-2003 and 2013-2015 despite increases in some saturated fat containing foods such as butter and cream. The significant decrease in the percentage of energy from NMES observed in previous reports continued to 2013-2015; this was in line with the significant reduction in sugar-containing soft drink consumption. The observation that sugar-containing soft drink consumption mirrored the trend in NMES is important, as a key part of strategies to reduce the prevalence of obesity is reducing consumption of sugar-containing soft drinks (Scottish Government, 2017a). No association was found between intakes of fat, saturated fat or NMES and deprivation level, and intakes remain well above the Scottish Dietary Goals. Intakes of NSP remain unchanged since 2001-2003, with intakes higher in the least deprived, but still considerably below the goals. This finding is not surprising given the higher intakes of fruit and vegetables, brown/wholemeal bread and high fibre breakfast cereal in the least deprived.

Discretionary foods that are high in sugar and fat, namely sweet biscuits; confectionery; crisps and savoury snacks; cakes, pastries and puddings; and sugar sweetened beverages are significant contributors to energy in the diet. In the current analysis, these five food groupings contributed almost 20% of energy, fat and saturated fat intakes and more than 50% of NMES intake as is shown in **Table 23**. In the recently revised Eatwell Guide (Public Health England, 2016) discretionary foods/drinks were excluded in order to highlight that these foods/drinks are not needed in the diet.

Table 23: Mean contribution of selected discretionary foods and drinks to energy, fat, saturated fat and NMES intake in 2013-2015 (intake (percentage) per person per day)

	Weight g	Energy kcal (%)	Fat g (%)	Saturated Fat g (%)	NMES g (%)
Sweet Biscuits	21.6	103 (5.3)	4.9 (5.9)	2.5 (7.7)	5.7 (8.0)
Total Confectionery	21.2	92.2 (4.7)	3.7 (4.5)	2.0 (6.3)	12.8 (17.9)
Crisps and Savoury Snacks	13.4	67.1 (3.4)	3.8 (4.5)	0.5 (1.6)	0.02 (0.02)
Cakes, Pastries and Puddings	16.5	59.7 (3.1)	2.8 (3.3)	1.2 (3.7)	4.4 (6.2)
Sugar Containing Soft Drinks	156	57.0 (2.9)	Nil	Nil	14.9 (20.8)
Total		379 (19.4)	15.2 (18.2)	6.2 (19.3)	37.8 (52.9)

# Comparison with the National Diet and Nutrition Survey

Unlike NDNS data for 2008/09-2011/12 (Bates *et al.*, 2014a) results from the NDNS for 2012/13-2013/14 (years 5 and 6) (Bates *et al.*, 2016) and 2014/15-15/16 (Bates *et al.*, 2016, Bates *et al.*, 2014b, Public Health England and Food Standards Agency, 2014, Roberts *et al.*, 2018) are not available separately for Scotland as there was no boosted sample for Scotland for these years. Therefore, any comparison against recent NDNS results has to be made against UK data. Despite differences in the methods used to collect this data, figures relevant to the food based Scottish Dietary Goals are comparable given the proportion of the different age groups in the population - see summary **Table 24** 

of key measures from both surveys related to the goals. Possible reasons for the differences in percentage of food energy from the macronutrients presented have been discussed previously (Barton and Wrieden, 2012, Barton *et al.*, 2010, Wrieden and Barton, 2011, Wrieden and Barton, 2015).

Table 24: Comparison of mean food/nutrient intakes in relation to the 2013 Scottish Dietary Goals between LCFS 2013-2015 and 19-64y NDNS 2012/13-2013/14 and 2014/15-2015/16

		LCFS 20	13-2015	NDNS 2 2013		NDNS 2014/15- 2015/16	
Food / Nutrient	Scottish Dietary Goal (SDG)	Populatio n	SDG	19-64 years	SDG	19-64 years	SDG
Fruit and Vegetables (g/day)	More than 400g/day	258	Goal not met	278	Goal not met	298	Goal not met
Oil rich fish (g/week)	Increase to one portion per person (140g) per week	29	Goal not met	8	Goal not met	8	Goal not met
Red Meat (g/day)	Average intake of red and processed meat to be pegged at around 70g per person per day	56	Goal met	65	Goal met	62	Goal met
Fat (% food energy)	≤35% food energy	39.3	Goal not met	34.2	Goal met	34.7	Goal met
Saturated Fat (% food energy)	≤11% of food energy	15.3	Goal not met	12.7	Goal not met	12.5	Goal not met
Sugar (% food energy)	NMES to reduce to less than 11% of food energy in children and adults	14.3	Goal not met	12.3	Goal not met	12.1*	Goal not met
<b>Fibre</b> (g/day)	Increase in average consumption of fibre to 18g/day	12	Goal not met	14.0	Goal not met	14.6**	Goal not met

<sup>\*</sup>Calculated from free sugar figure; \*\* Calculated from AOAC figure

Comparison of earlier NDNS Scottish data (2008/09-2011/12) (Bates *et al.*, 2014a) with 2013-2015 LCFS data found similar food consumption patterns when comparing the two sets of data in relation to SIMD, with higher intakes of fruit and vegetables and oil rich fish in the least deprived quintiles and little difference in total red meat consumption. Results in relation to fat and saturated fat intake by SIMD showed a similar trend in both surveys, with no difference between levels of deprivation. However the percentage of energy from NMES was lower, and fibre (in terms of g of NSP) was higher, in the least deprived quintiles in both the NDNS (except for NMES in children) and the LCFS.

Despite some similarities being found in food consumption and nutrient intake between the two surveys, it must be appreciated that that the LCFS results are based on purchase data and are expressed per capita, i.e. are an average of all ages, so comparison of the results with other studies should be carried out with caution. In addition, the figures for waste used to adjust the purchase data are from a UK WRAP survey of 2008 (Waste and Resource Action Programme Survey (WRAP), 2008) and do not account for reductions in waste over recent years (WRAP, 2014). WRAP waste figures for Scotland were published in 2009 (WRAP Scotland, 2009), but these could not be used in the current analysis as data was not available as a percentage of individual foods/food groups, and therefore no mapping to Defra food codes could be carried out using this data. Nevertheless, the fact that the LCFS provides a continuous survey of a representative sample of households in Scotland allows both comparison to be

made over time and the ability to consider any inconsistencies in the data, enabling a clearer assessment to be made of any dietary change.

# Future monitoring of the Scottish Dietary Goals

The Scottish Dietary Goals were revised in 2016 (Scottish Government, 2016), in order to reflect recommendations on total carbohydrate, sugar and fibre intakes from the Scientific Advisory Committee on Nutrition (SACN) published in 2015 (Scientific Advisory Committee on Nutrition (SACN), 2015). The recommended intake of sugar has halved, and the recommended intake of fibre has increased, and the terminology for sugar and fibre have both been revised. An additional 2016 goal specifies that total carbohydrate should "be maintained at an average population intake of approximately 50% of total dietary energy", with the term "total dietary energy" referring to the energy provided by protein, carbohydrate, fat and alcohol. This suggests an increase in total carbohydrate from the previous dietary reference value of a population average intake of 47% total energy (50% food energy) (Department of Health, 1991).

The 2013 Scottish Dietary Goals for "average intake of NMES to reduce to less than 11% of food energy in children and adults" has been replaced with the 2016 goal for "average intake of free sugars not to exceed 5% of total energy in adults and children over 2 years". Replacing the term "NMES" with "free sugars" will result in a slightly lower mean intake since NMES includes 50% of the fruit sugars from canned, dried or stewed fruit, and free sugars includes none (Scientific Advisory Committee on Nutrition (SACN), 2015). Nevertheless, current free sugar intakes are likely still to be more than twice the recommended intake, based on findings from the current report. In order to monitor the 2016 goal for free sugars, food composition databases will need to be updated.

The 2016 Scottish Dietary Goals specify that fibre be measured using the AOAC method rather than the Englyst method which measures NSP only, and that average intake of AOAC fibre should be 30g/day in adults. This goal represents an increase in the recommended fibre intake, since the 2013 goal of 18g/day for NSP equates to around 23-24g/day of AOAC fibre. In order to allow monitoring of this goal, new analyses of foods and drinks should ideally be carried out to ensure that AOAC fibre data are available for key contributing food groups, as AOAC fibre data is incomplete in the current food composition tables.

# Conclusion

In summary, there was little progress towards meeting the Scottish Dietary Goals over the period 2001 to 2015; this was apparent even within the lowest deprivation quintiles. Despite evidence of progress towards the goal for fruit and vegetables up to 2010, by 2015 this trend was no longer evident. A slight but significant decreasing trend in the percentage of energy from NMES and saturated fat was apparent, but mean intakes still exceed the goals. The goal for total red and processed meat intake was met, with no difference in consumption between levels of deprivation. It is of concern that the energy density of the diet is increasing rather than reducing, and that foods targeted for increased consumption (fruit and vegetables, and oily fish) were significantly lower in the most deprived groups of the population.

However, no evidence was found to suggest that the gap between the most and least deprived is increasing, with the same very small improvements being found across all quintiles of SIMD. This work continues to be an important part of Food Standards Scotland's dietary surveillance programme.

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# **6. APPENDICES**

- Appendix 1: Further Detail on Methodology of Monitoring Work
- Appendix 2: Advantages and Disadvantages of the LCFS
- Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame
- Appendix 4: Energy Density Coding Frame
- Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste
- Appendix 6: Flowchart of Data Handling Process
- Appendix 7: Food Groupings Used for Contributing Foods Analysis
- Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis
- Appendix 9: Slope Index of Inequality and Relative Index of Inequality
- Appendix 10: Mean Food Consumption and Nutrient Intake Results by Year

# Appendix 1: Further Detail on Methodology of Monitoring Work The Living Costs and Food Survey / Expenditure and Food Survey

The Living Costs and Food Survey (LCFS) (before 2008 known as the Expenditure and Food Survey (EFS)) is a continuous survey of households in the UK commissioned jointly by the Office for National Statistics (ONS) and the Department for Environment and Rural Affairs (Defra). The LCFS is an annual household budget survey designed to collect information about household food and expenditure. It provides a valuable source of information about food purchases of the population, which can be translated into estimates of food consumption and nutrient intake (Wrieden et al., 2006). The survey however is not designed to measure intakes of specific individuals. The LCFS collects household food purchase and eating out data from every person over 7 years of age in each household over a 14-day period. However, LCFS data requires considerable secondary analysis to group the foods relevant to the Scottish Dietary Goals and calculate statistically meaningful figures. Due to the nature of household food purchase data, the LCFS cannot be used to give information on median intakes or classify consumption by age or gender (further advantages and disadvantages of the LCFS are discussed in Appendix 2). Therefore, the prevalence of individuals who are particularly high or low consumers of specific foods cannot be determined. The calculation of mean per capita consumption and nutrient intakes, with 95% confidence intervals, is not straightforward and requires a series of factors to be applied to the data. This process is essential if any meaningful comparisons are to be made between years and socio-economic factors such as deprivation (using the Scottish Index of Multiple Deprivation (SIMD)) (Scottish Government, 2012).

# **Changes to Methodology over Time**

Methods for the secondary analysis of the food purchase data of the LCFS and its predecessor (the EFS) have been further developed and improved since the original report (Wrieden *et al.*, 2006). For example, in the original analysis all food purchase data was adjusted by subtracting 10% to take account of wastage following a similar procedure used by Defra in their analysis of the National Food Survey (NFS) and EFS and LCFS data. Following the publication of the Waste and Resource Action Programme (WRAP) survey (Waste and Resource Action Programme Survey (WRAP), 2008), Defra provided new figures which were based on more recent estimations of waste which varied according to food group. The data from 2001 onwards was subsequently revised to incorporate improvements to the methodology as follows:

- Account for free food (e.g. from school meals, meals on wheels etc.). Defra adjusted the EFS
  data since the results of the secondary analysis published in 2006 (Wrieden et al., 2006) and
  have backdated these changes to 2001.
- 2. Adjust for waste using new factors following the publication of the 2008 WRAP report (Waste and Resource Action Programme Survey (WRAP), 2008).
- 3. Include factors to account for the LCFS sampling methodology.
- 4. Make use of a refined coding frame to allocate specific proportions of foods to appropriate food groupings.

# **Coding Frames**

The detailed coding frame reported by Barton et al. (2010) compiled for both household and eating out food purchases was re-ordered in line with the Scottish Dietary Goals and used for the analysis (Appendix 3). This was based on that reported by Wrieden et al. (2006) which provides further detail on its derivation and on the disaggregation of foods where appropriate. The coding frame is based on 522 food codes allocated by Defra to household or eating out food purchases. It lists groupings of foods (and codes) which form part of each dietary goal (or food group of interest) and gives details of conversion factors applied to the food weights. Conversion factors are necessary to apply the proportion of the food code applicable to the target food - for example, the vegetable contribution of vegetarian dishes is x0.4, a factor calculated from the NDNS adults 19-64 (Henderson et al., 2002). Where no factor was necessary, a factor of 1.0 was applied. Due to the type of data it is not possible to put a ceiling on the contribution that fruit juice and baked beans make to total fruit and vegetable intake and "5-a-day" as often happens in dietary survey reporting. It was decided following the Wrieden et al. (2006) report to only report total fruit and vegetable intake rather than with and without fruit juice and baked beans. This decision was based on the fact that average fruit juice intake from 2001-2003 was 42g/day and average baked bean consumption was 12g/day, therefore well below the ceilings usually applied to fruit juice and baked beans of one 80g portion per day.

The coding frame for energy density (Appendix 4) was compiled in a similar way (Wrieden and Barton, 2011); it indicates which foods/drinks were included within the food and milk method of calculating energy density and lists conversion factors. Foods which may not be consumed in their purchased state e.g. flour, stock cubes, jelly cubes were given a conversion factor of 1 as it was not possible to tell how these foods may be prepared and subsequently consumed.

#### Categorisation of Foods

The Defra EFS coding frames for household and eating out food purchases were examined and foods forming part of each dietary goal (or additional foods and drinks indicative of diet quality) were selected and categorised accordingly.

## Conversion Factors

The conversion factors are applied to food purchases to estimate the actual amount of each food that is consumed. A conversion factor was calculated (for each food code, for household and eating out purchases); for the proportion of fruit, vegetable, meat etc. in a composite food; for the proportion of food in a food grouping (where it bridges more than one food grouping); raw to cooked weight (where appropriate); proportion of inedible waste; and estimate of edible waste. Data for these conversion factors were taken from the 1st, 2nd, 5th and 6th supplements of the 5<sup>th</sup> edition of McCance and Widdowson's composition of foods (Chan *et al.*, 1996, Chan *et al.*, 1995, Holland *et al.*, 1992a, Holland *et al.*, 1992b). Where this data was not available from the above sources, information was sought from manufacturers' label data or market share data supplied by the Food Standards Agency. For details see Appendices 3 and 4.

#### Edible Waste

Estimates of waste for the UK population were first published by WRAP in 2008. The annex of the report on the 2007 EFS (Department for Environment Food & Rural Affairs (Defra), 2008) expands on the information available in the WRAP report and provides waste information at a more detailed level. Defra have mapped waste figures, based on those in the WRAP report, to each of the food codes used in the LCFS. This information was obtained from Defra and used to assign a waste factor to each food code. The waste figures were provided for single and multiple adult households and were linked to the appropriate type of household prior to analysis. The figures published by WRAP account for edible waste; inedible waste (i.e. bone) was taken into account when calculating the conversion factor for each food code. WRAP waste figures for Scotland were published in 2009 (WRAP Scotland, 2009), however these could not be used in the current analysis as data was not available as a percentage of individual foods/food groups and therefore no mapping to Defra food codes could be carried out on this regional data. Likewise, the UK 2009 update (WRAP, 2009) did not provide waste as a percentage of individual foods/food groups. For details see Appendix 5.

# **Data Handling**

LCFS data for each year, in its raw form, was obtained from the UK Data Archive, University of Essex (or from Defra and ONS ahead of it being made available from the UK Data Archive). The data comprised 3 files for each year – an Access (Microsoft Corporation) database containing raw data (at the household level) for food and drink purchases; and 2 SPSS (IBM Corporation) files – one containing information on each household (HH file) and the other containing information on each person within each household (PP file). Appendix 6 provides a flowchart which illustrates the data handling process for data from each year, which are then merged in SPSS to obtain one working data file. The Scottish sample of the LCFS for each year was extracted from the Access database and the HH and PP SPSS files. Each household was allocated a new ID due to overlap in Case IDs between years.

Data on sampling strata and clusters, household income and SIMD quintile were obtained from the UK ONS. Data on SIMD by postcode were initially obtained from Scottish Neighbourhood Statistics and sent to ONS to link to anonymised case ID's.

# Food Purchase Data

The Access database containing the Scottish food purchase data was linked to a table constructed from the coding frame, which listed each food grouping, each food within these groupings and the appropriate conversion factor to be applied to the calculations (where no factor was necessary 1.0 was applied). This table also contained data on waste for single and multiple adult households. Single and multiple adult households were selected in turn, the appropriate adjustment was then made for waste and the databases re-joined.

For foods: household and eating out consumption data minus waste (based on purchases) for each food code was multiplied by the appropriate conversion factor and summed by food grouping. This was then divided by the number of individuals in the household and divided by 14 to obtain the mean daily consumption per person.

For nutrients: household consumption data minus waste (based on purchases) for each food code was multiplied by the appropriate nutrient content per gram (provided by Defra) to provide the nutrient intake per food. Household, eating out and combined nutrient intakes for foods were then summed for each household. These were then divided by the number of individuals in the household and divided by 14 to obtain the mean daily intake per person for each nutrient.

Energy density for food and milk was calculated using the methodology developed by Wrieden *et al.* (2014) in three stages in MS Access and quintiles of energy density were calculated in SPSS by year (to negate any difference in energy density quintile over time).

- Calculating weight of food/milk the total weight of food/milk for each household was calculated by summing the weights of each food after making adjustments for waste and multiplying by the conversion factors described previously.
- Calculating energy content of food/milk the total energy from food/milk for each household was
  calculated by summing the energy content of each food after making adjustments for waste
  only, as the nutrient values in the database are based on the foods in their purchased form and
  not in the form, they are consumed.
- 3. Calculating energy density the energy density values per 100g for each household were calculated by dividing the total household energy content for food/milk (2) by the total household weight for food/milk (1) and multiplying by 100.

Derivation of Household Variables Required for Analysis Purposes

Descriptive variables for each household were extracted from the two SPSS files described previously and merged with data on sampling strata and clusters, household income and SIMD, to form a SPSS file containing all household variables.

# **Analysis of Data**

The food consumption and nutrient intake data were exported to SPSS and merged with the household variables file. Due to the multi-staged stratified sampling procedure of the LCFS, data were analysed using Descriptive Statistics and General Linear Models within the Complex Samples module of SPSS and weighted according to the Scottish population. The data were weighted so that estimates obtained for mean food consumption and nutrient intake more accurately reflected that of the Scottish population. The weights were provided by Defra.

Linear associations between food consumption/ nutrient intake/ energy density and year or SIMD quintile were assessed by general linear modelling which was used to obtain estimates of the means with 95% confidence intervals (95% CI) and associated p-values. Overall associations between food consumption/ nutrient intake/ energy density, and year or SIMD quintile were assessed by adjusted Wald tests. The adjusted Wald test was used within regression analyses to test whether the value for all years or SIMD categories was equal or whether there was at least one difference between year or SIMD quintile. P-values ≤0.01 are highlighted in bold to indicate significance at the 1% level.

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# Appendix 2: Advantages and Disadvantages of the LCFS

The EFS/LCFS and their predecessor, the NFS, are annual household budget surveys designed to collect information about household food and expenditure. Further details about the design of the EFS/NFS are discussed in an earlier report (Wrieden *et al.*, 2003). The EFS/LCFS provide a valuable source of information about the food purchases of the population, which can be translated into estimates of food consumption and nutrient intake (Wrieden *et al.*, 2006). The survey however is not designed to measure intakes of specific individuals. The LCFS collects household food purchase data from every person over 7 years of age in each household for a 14-day period. The length of time the food diaries are kept (14 days) is a major strength of this study, as for most foods and nutrients the balance of intake is over more than 7-10 days. Methods that assess diet over shorter periods of time, e.g. three to four or less days, are less likely to give an accurate measure of intake. Due to the nature of the data collected in household budget surveys it is not possible to produce median intakes. Therefore, the prevalence of individuals who are particularly high or low consumers of a food, food group or nutrient cannot be determined.

# Advantages

- The LCFS includes around 550 households (approximately 1,300 people) per year in mainland Scotland.
- It collects information over a period of 14 days on food and drink purchases and includes foods eaten within the household and those eaten out.
- The LCFS records food acquisitions rather than consumption and is therefore possibly less susceptible to under-reporting and non-response bias than weighed intake dietary surveys (Chesher, 1997).
- The LCFS is one of the few publically available sources of information on food purchased out of the home. This can be compared with consumption in the home.
- It can be used to assess all the Scottish Dietary Goals (except salt and NMES in children), using the varieties and composition of food groups which were developed for the Barton *et al.* (2010) report.
- Data is collected continuously and published annually; it is possible to merge datasets over a number of years.
- Further information can be gained by linkage of data from the LCFS to the SIMD (for more information see (Scottish Executive, 2004, Scottish Government, 2012) respectively).

# Disadvantages

- The information collected is based on food purchased rather than actually eaten, so specific wastage factors are incorporated for different food groups, based on recent research by WRAP (2008). Although this is an improvement on the previously used 10% estimation of waste for all foods, the figures are based on research carried out in England and do not include flat dwelling households.
- Results obtained are an estimate of the consumption of a typical average household member so
  no information can be derived regarding the consumption by specific sub-groups e.g. children.

Median and other distributional characteristics relating to consumption cannot be estimated.

# References

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Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

# Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

This updated and simplified coding frame is based on that reported by Wrieden *et al.*, (2006), which provides information on the disaggregation of foods where appropriate. **Appendix 1** provides further detail on the coding frame.

# 1. Dietary Goal: Average intake of a variety of fruit and vegetables to reach at least 5 portions per day (>400g per day)

- 1. Fruit and Vegetables including fruit (and vegetable) juice and baked beans (addition of 2 and 4)
- 2. Fruit including fruit (and vegetable) juice
- 3. Fruit (and vegetable juice)
- 4. Vegetables including baked beans

#### Household Fruit - including fruit (and vegetable) juice

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
19603	Vegetable juices e.g. tomato juice, carrot juice	1	0.1	0.1
21001	Fresh oranges	1	0.3382	0.2325
21401	Other fresh citrus fruits	1	0.0536	0.041
21701	Fresh apples	1	0.6627	0.2772
21801	Fresh pears	1	0.1442	0.1929
22101	Fresh stone fruit	1	0.2036	0.1797
22201	Fresh grapes	1	0.0833	0.0778
22701	Other fresh soft fruit	1	0.433	0.2521
22801	Fresh bananas	1	0.1545	0.082
22901	Fresh melon	1	0.2848	0.1797
23101	Other fresh fruit	1	0.1404	0.0938
23301	Tinned peaches, pears & pineapples	0.6	0.0806	0.0899
23601	All other tinned or bottled fruit	0.52	0.0806	0.0899
24001	Dried fruit	3.71	0.0806	0.0899
24101	Frozen strawberries, apple slices, peach halves, oranges and other frozen fruits	1	0.0806	0.0899
24801	Pure fruit juices	1	0.1	0.1

## Household Fruit (and vegetable) juice

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
19603	Vegetable juices e.g. tomato juice, carrot juice	1	0.1	0.1
24801	Pure fruit juices	1	0.1	0.1

# Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

## Eating Out Fruit - including fruit (and vegetable) juice

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
200101	All citrus fruit, fresh e.g. orange, grapefruit	1	0	0
200102	Banana, fresh	1	0	0
200103	Apples, fresh	1	0	0
200104	Pears, fresh	1	0	0
200105	Stone fruit, fresh e.g. apricot, plum, peach, cherry, avocado	1	0	0
200106	Grapes, fresh	1	0	0
200107	Soft fruit/berries, fresh e.g. strawberries, blackberries - no cream/ice cream	1	0	0
200108	Melon, fresh	1	0	0
200109	Pineapple, fresh	1	0	0
200110	Fresh fruit salad, without cream/ice cream	1	0	0
200111	Other fresh fruit (kiwi, passion) & 'fruit', type not specified	1	0	0
200112	Free school fruit	1	0	0
200201	Dried fruit e.g. sultanas, raisins	3.71	0	0
200301	Tinned, stewed/baked or processed fruit - without cream/ice cream	1	0	0
240301	Fruit filling e.g. peaches for pancakes	1	0	0
260204	PURE fruit juices	1	0	0
260205	Vegetable juices e.g. tomato juice, carrot juice	1	0	0
290205	Fruit and other pies/pastries	0.5	0	0

## Eating Out Fruit (and vegetable) juice

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
260204	PURE fruit juices	1	0	0
260205	Vegetable juices e.g. tomato juice, carrot juice	1	0	0

Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

## Household Vegetables - including baked beans

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
16201	Cabbages, fresh	1	0.7014	0.4155
16301	Brussels sprouts, fresh	1	0.1701	0.0794
16401	Cauliflower, fresh	1	0.1449	0.1019
16701	Lettuce & leafy salads	1	0.5069	0.3519
16702	Prepared lettuce salads	1	0.6023	0.4633
16801	Peas, fresh	1	0.0917	0.0417
16901	Beans, fresh	1	0.5589	0.3071
17101	Other fresh green vegetables	1	0.2589	0.1589
17201	Carrots, fresh	1	0.3835	0.1681
17301	Turnips & swede, fresh	1	0.1231	0.0669
17401	Other root vegetable, fresh	1	0.225	0.1511
17501	Onions, leeks, shallots, fresh	1	0.2143	0.1408
17601	Cucumbers, fresh	1	0.3717	0.2357
17701	Mushrooms, fresh	1	0.1483	0.104
17801	Tomatoes, fresh	1	0.1582	0.0926
18301	Stewpack, stirfry pack, pack of mixed vegetables	1	0.3429	0.2301
18302	Stem vegetables	1	0.6075	0.453
18303	Marrow, courgettes, aubergine, pumpkin and other fresh vegetables	1	0.1691	0.1147
18304	Fresh herbs	1	0.1267	0.091
18401	Tomatoes, canned or bottled	1	0.1582	0.0926
18501	Peas, canned	1	0.0917	0.0417
18802	Baked beans in sauce	1	0.0828	0.0309
18803	Other canned beans & pulses	1	0.2589	0.1589
19101	Other canned vegetables	1	0.2589	0.1589
19201	Dried pulses other than air-dried	6.19	0.2589	0.1589
19501	Air-dried vegetables	14.39	0.3429	0.2301
19602	Tomato puree and vegetable purees	5.2	0.1267	0.091
20301	Peas, frozen	1	0.0917	0.0417
20401	Beans, frozen	1	0.5589	0.3071
20601	Ready meals & other vegetable products - frozen or not frozen	0.4	0.2563	0.29
20604	All vegetable takeaway products	0.4	0.2563	0.29
20801	Other frozen vegetables	1	0.2589	0.1589
29601	Pizzas - frozen and not frozen	0.16	0.2563	0.29
29602	Takeaway pizza	0.16	0.2563	0.29
31801	Soups - canned or cartons	0.3	0.2563	0.29
32001	Soups - from takeaway	0.3	0.2563	0.29
32201	Meals on wheels - items not specified	0.2	0.2563	0.29

Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

## Eating Out Vegetables - including baked beans

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
100103	Vegetable or fruit based curry	0.4	0	0
100104	Dhal & Dhal dishes	0.4	0	0
100106	Other Indian dishes	0.4	0	0
100108	Indian buffet or shared meal or unspecified Indian meal	0.2	0	0
100201	Chinese or Thai meat or fish based dishes excluding curry	0.2	0	0
100202	Chop suey and fu yung dishes	0.2	0	0
100203	Chinese or Thai vegetable based main course dishes	0.4	0	0
100204	Chinese or Thai curry	0.2	0	0
100206	Other Chinese or Thai dishes	0.2	0	0
100207	Chinese or Thai buffet or shared meal or unspecified Chinese or Thai meal	0.2	0	0
100301	All other ethnic meals	0.2	0	0
110601	Meat and vegetable stews, casseroles or hotpots	0.2	0	0
110602	Chicken or turkey stews, casseroles or hotpots	0.2	0	0
110603	Meat lasagne, cannelloni, moussaka and other meat-based oven baked dishes	0.2	0	0
130201	Pizza - cheese & tomato, vegetable; incl Pizza, type not specified	0.4	0	0
130202	Pizza - meat, fish or poultry	0.16	0	0
150101	Lettuce & cress	1	0	0
150102	Other green vegetables e.g. spinach, cabbage, sprouts	1	0	0
150201	Peppers - raw/cooked	1	0	0
150202	Courgettes, marrow, aubergine, pumpkin, plantain, cucumbers	1	0	0
150203	Peas & sweetcorn	1	0	0
150204	Baked Beans and other beans (not green beans) & pulses	1	0	0
150205	Tomato - fresh, raw	1	0	0
150206	Tomato - cooked or processed	1	0	0
150301	Carrots	1	0	0
150302	Onions - raw or cooked incl 'onions' type not specified	1	0	0
150303	Onions - fried	1	0	0
150304	Other root vegetables/ tubers e.g. turnip, parsnip, radish, beetroot	1	0	0
150401	Mushrooms - raw or cooked	1	0	0
150501	Mixed vegetables and 'veg' type not specified.	1	0	0
150502	Other vegetables e.g. artichoke, asparagus	1	0	0
150503	Vegetables in batter or breadcrumbs and deep fried veg e.g. onion rings	0.4	0	0
150504	Onion and other vegetable bhajis & pakora	0.4	0	0
150601	Veggie burger, bean burger, veggie sausage, nut roast	0.4	0	0

Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

## Eating Out Vegetables - including baked beans (continued)

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
150602	Vegetable lasagne, veg cannelloni, veg moussaka and other oven baked vegetable based dishes	0.4	0	0
150603	Stuffed vegetables (e.g. stuffed pepper) and vegetable based starter	0.4	0	0
150604	Vegetable based stews & casseroles and veg-based pies	0.4	0	0
160101	Mixed salad, main course - without dressing	1	0	0
160102	Mixed salad, side dish - without dressing; incl 'salad' type not specified	1	0	0
160103	Green salad - without dressing	1	0	0
160201	Vegetable/ fruit and nut salad - with dressing	0.4	0	0
160301	Meat salad e.g. beef, lamb salads	0.2	0	0
160302	Chicken or turkey salad	0.2	0	0
160303	Fish salad e.g. tuna, salmon salads	0.2	0	0
160401	Cheese salad including ploughman's	0.2	0	0
160402	Egg salad	0.2	0	0
160501	Other salads e.g. Greek, Florida, Russian	0.2	0	0
160601	Salad buffet or buffet meal where items not specified	0.2	0	0
170105	Noodles with meat, vegetables etc.	0.2	0	0
180102	Vegetable-based soups	0.3	0	0
180104	Soups, other; incl soup not specified	0.3	0	0
230207	Vegetarian based sandwich on white bread or roll	0.4	0	0
230208	Vegetarian based sandwich on brown bread or roll	0.4	0	0
230209	Vegetarian based sandwich bread not specified	0.4	0	0
240102	Meat-based sauce e.g. Bolognese, chilli con carne	0.2	0	0
240104	Tomato-based sauce containing vegetables, incl ratatouille	0.4	0	0
240203	Coleslaw	0.4	0	0
240302	Vegetable filling	0.4	0	0
240701	Unspecified meal e.g. 'meal', 'school meal' or 'meal at work'	0.2	0	0

Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

# 2. Dietary Goal: Oil rich fish consumption to increase to one portion per person (140g) per week

NB: Factors are multiplied by 7 in order that fish calculations can be carried out alongside those for other foods as the fish target is in grams per week and the other targets are in grams per day

#### **Household Oil Rich Fish**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
10601	Herring & other blue fish, fresh or chilled	7	0.096	0.0418
10602	Herring & other blue fish, frozen	7	0.096	0.0418
10701	Salmon, fresh or chilled	7	0.096	0.0418
10702	Salmon, frozen	7	0.096	0.0418
10801	Blue fish, dried or salted or smoked	7	0.096	0.0418
11901	Tinned salmon	7	0.096	0.0418
12001	Other tinned or bottled fish	1.33	0.096	0.0418
12103	Ready meals & other fish products - frozen or not frozen	1.05	0.2563	0.29

#### **Eating Out Oil Rich Fish**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
120201	Trout, tuna and salmon only - fresh - without sauce/dressing	7	0	0
120202	Other fatty fish - without sauce/dressing e.g. herring, mackerel, sardines	7	0	0
120401	Kippers and other smoked fish e.g. smoked salmon	7	0	0
120603	Fish based pie or other dish e.g. paella, kedgeree, tuna	1.05	0	0
160303	Fish salad e.g. tuna, salmon salads	0.7	0	0

# 3. Dietary Goal: Average intake of red and processed meat to be pegged at around 70g per person per day. Average intake of the very highest consumers of red and processed meat (90g per person per day) not to increase

#### **Household Total Red Meat**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
5502	Bacon and ham joints, uncooked	0.69104	0.2041	0.133
5505	Bacon and ham rashers, uncooked	0.65825	0.2041	0.133
5801	Cooked ham & bacon	1	0.2041	0.133
3102	Beef: joints (including sides) on the bone	0.561	0.0815	0.0457
3103	Beef: joints (boned)	0.632697	0.0815	0.0457
3104	Beef steak (less expensive)	0.636751	0.0815	0.0457
3105	Beef steak (more expensive)	0.728463	0.0815	0.0457
3106	Beef, minced	0.82	0.0815	0.0457
3107	All other beef and veal	0.62	0.0815	0.0457
3601	Mutton	0.617767	0.0224	0.0262
3602	Lamb joints	0.589275	0.0224	0.0262
3603	Lamb chops	0.549128	0.0224	0.0262
3604	All other lamb	0.714897	0.0224	0.0262
4101	Pork joints	0.570298	0.2041	0.133
4102	Pork chops – uncooked	0.588	0.2041	0.133
4103	Pork fillets and steak	0.65	0.2041	0.133
4104	All other pork – uncooked	0.625934	0.2041	0.133
4603	Ox liver	0.91	0.0815	0.0457
4604	Lambs liver	0.78	0.0224	0.0262
4605	Pigs liver	0.88	0.2041	0.133
4607	All other liver	0.884907	0.0584	0.0401
5101	All offals other than liver	0.56119	0.0584	0.0401
6201	Corned beef/ corned meat (canned or sliced)	1	0.0815	0.0457
6601	Other cooked meat	0.954007	0.0584	0.0401
7102	Other canned meat and canned meat products	0.532811	0.0584	0.0401
7801	Other meat (rabbit, venison, etc) – uncooked	0.594	0.0584	0.0401
7901	Sausages (uncooked) - pork	0.78	0.0584	0.0401
8001	Sausages (uncooked) - beef	0.779	0.0584	0.0401
8302	Meat pies	0.271562	0.2563	0.29
8303	Sausage rolls	0.28	0.2563	0.29
8401	Meat pies, pasties and puddings	0.27445	0.2563	0.29
8501	Burgers	0.73	0.0584	0.0401
8901	COMPLETE meat-based ready meals	0.144783	0.2563	0.29
8902	Other convenience meat products	0.240481	0.2563	0.29
9301	Pâté	1	0.1324	0.0755
9302	Delicatessen type sausages: cooked or cured	1	0.0584	0.0401
9403	Meat pastes and spreads	1	0.1324	0.0755
9501	Takeaway meat pies & pasties	0.266316	0.2563	0.29
9502	Burger & bun eg hamburger	0.485	0.2563	0.29
9503	Kebabs	0.5	0.2563	0.29
9504	Sausages & saveloys	1	0.2563	0.29
9505	MEAT- based meals incl Indian & Chinese takeaways	0.208303	0.2563	0.29
9506	Miscellaneous meats	0.649653	0.2563	0.29

Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

## **Eating Out Total Red Meat**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
100101	Meat or fish based curry with sauce	0.0928	0	0
100102	Meat or fish based curry without sauce	0.5	0	0
100201	Chinese or Thai meat or fish based dishes excluding curry	0.17	0	0
100202	Chop suey and fu yung dishes	0.09	0	0
110101	Steak - without sauce e.g. braised, sirloin	1	0	0
110102	Roast meat with sauce or gravy	0.64	0	0
110103	Pork chops with sauce or gravy	0.81	0	0
110104	Lamb chops with sauce or gravy	0.67	0	0
110105	Spare ribs	1	0	0
110106	Bacon	1	0	0
110107	Gammon or ham	1	0	0
110108	All offal including liver, kidney, tongue	1	0	0
110204	Game with sauce or gravy	0.71	0	0
110301	Small or single burgers	0.39	0	0
110302	Large or double burgers	0.58	0	0
110401	Kebabs - all types including chicken	0.5	0	0
110402	Plain sausages e.g. beef, pork	1	0	0
110403	Other sausages	1	0	0
110404	Hot dogs and sausage sandwiches	0.1769	0	0
110501	Meat pies (pastry topped) and pasties	0.16	0	0
110502	Meat pies (potato topped e.g. shepherd's pie)	0.1963	0	0
110503	Sausage roll (pastry)	0.28	0	0
110601	Meat and vegetable stews, casseroles or hotpots	0.0529	0	0
110603	Meat lasagne, cannelloni, moussaka and other meat-based oven baked dishes	0.2041	0	0
110701	All pates	0.5	0	0
110801	Other meat products or dishes	0.2592	0	0
130202	Pizza - meat, fish or poultry	0.0337	0	0
160301	Meat salad e.g. beef, lamb salads	0.314	0	0
170105	Noodles with meat, vegetables etc.	0.2	0	0
230101	Meat based sandwich on white bread or roll	0.242	0	0
230102	Meat based sandwich on brown bread or roll	0.242	0	0
230103	Meat based sandwich bread not specified	0.242	0	0
230107	Bacon and egg based sandwich on white bread or roll including Bacon and Egg McMuffin	0.25	0	0
230108	Bacon and egg based sandwich on brown bread or roll	0.25	0	0
230109	Bacon and egg based sandwich bread not specified	0.25	0	0
240102	Meat-based sauce e.g. bolognese, chilli con carne	0.3366	0	0

## **Additional Foods and Drinks Indicative of Diet Quality**

## Brown/Wholemeal and Total Bread (addition of white and brown/wholemeal)

#### **Household White Bread**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
9502	Takeaway burger & bun	0.55	0.2563	0.29
25102	White bread, standard, unsliced	1	0.3335	0.2399
25202	White bread, standard, sliced	1	0.3335	0.2399
25701	White bread, premium, sliced and unsliced	1	0.3335	0.2399
25801	White bread, soft grain, sliced and unsliced	1	0.3335	0.2399
26302	Rolls - white, brown or wholemeal	0.78	0.3942	0.1718
26303	Malt bread and fruit loaves	1	0.0861	0.0241
26304	Vienna & French bread	1	0.3942	0.1718
26305	Starch reduced bread & rolls	1	0.3335	0.2399
26308	Other breads	1	0.3349	0.4585
26309	Sandwiches	0.3744	0.2563	0.29
26310	Sandwiches from takeaway	0.3744	0.2563	0.29
26311	Takeaway breads	1	0.3349	0.4585
26701	Buns, scones & teacakes	1	0.1239	0.1163
29601	Pizzas - frozen and not frozen	0.57	0.2563	0.29
29602	Takeaway pizza	0.57	0.2563	0.29

#### **Eating Out White Bread**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
100107	Indian breads	1	0	0
110301	Small or single burgers	0.66	0	0
110302	Large or double burgers	0.39	0	0
110303	Chicken burger	0.46	0	0
110404	Hot dogs and sausage sandwiches	0.54	0	0
120602	Fish burgers (in bun)	0.49	0	0
130201	Pizza - cheese & tomato, vegetable; incl pizza, type not spec	0.57	0	0
130202	Pizza - meat, fish or poultry	0.57	0	0
220101	White bread, with or w/o butter/marg (toasted or untoasted)	1	0	0
220103	White, without butter/marg (or butter/marg not spec)	1	0	0
220105	Garlic bread	1	0	0
220106	Croissant	1	0	0
220107	Continental breads e.g. pitta, ciabatta, focaccia	1	0	0
220108	Muffins/ crumpets	1	0	0
220109	Fried bread, incl croutons	1	0	0
220110	Bread/ rolls/ toast etc, type not specified	0.78	0	0
230101	Meat-based, white bread/roll	0.52	0	0
230103	Meat-based, bread not specified	0.4056	0	0
230104	Chicken/turkey-based, white bread/roll	0.52	0	0
230106	Chicken/turkey-based, bread not specified	0.4056	0	0

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230107	Bacon and egg, white bread/roll incl Bacon & Egg McMuffin	0.52	0	0
230109	Bacon and egg, bread not specified	0.4056	0	0
230110	Fish-based, white bread/roll	0.52	0	0
230112	Fish-based, bread not specified	0.4056	0	0
230201	Cheese-based, white bread/roll	0.52	0	0
230203	Cheese-based, bread not specified	0.4056	0	0
230204	Egg-based, white bread/roll incl Egg McMuffin	0.52	0	0
230206	Egg-based, bread not specified	0.4056	0	0
230207	Vegetarian-based, white bread/roll	0.52	0	0
230209	Vegetarian-based, bread not specified	0.4056	0	0
230210	Sweet-filled sandwich	0.4056	0	0
230211	Unspecified sandwiches or rolls	0.4056	0	0
290301	Waffles & pancakes	0.5	0	0
290401	Teacakes, scones, currant bun, iced bun	0.5	0	0

## Household Brown/Wholemeal Bread

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
25901	Brown bread, sliced and unsliced	1	0.3335	0.2399
26001	Wholemeal & granary bread, sliced and unsliced	1	0.3335	0.2399
26302	Rolls - white, brown or wholemeal	0.22	0.3942	0.1718
26309	Sandwiches	0.1056	0.2563	0.29
26310	Sandwiches from takeaway	0.1056	0.2563	0.29

## **Eating Out Brown/Wholemeal Bread**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
220102	Brown or w/m bread, with or w/o butter/marg (inc toast)	1	0	0
220104	Brown/ wholemeal, without butter/margarine	1	0	0
220110	Bread/ rolls/ toast etc, type not specified	0.22	0	0
230102	Meat-based, brown bread/roll	0.52	0	0
230103	Meat-based, bread not specified	0.1144	0	0
230105	Chicken/turkey-based, brown bread/roll	0.52	0	0
230106	Chicken/turkey-based, bread not specified	0.1144	0	0
230108	Bacon and egg, brown bread/roll	0.52	0	0
230109	Bacon and egg, bread not specified	0.1144	0	0
230111	Fish-based, brown bread/roll	0.52	0	0
230112	Fish-based, bread not specified	0.1144	0	0
230202	Cheese-based, brown bread/roll	0.52	0	0
230203	Cheese-based, bread not specified	0.1144	0	0
230205	Egg-based, brown bread/roll	0.52	0	0
230206	Egg-based, bread not specified	0.1144	0	0
230208	Vegetarian-based, brown bread/roll	0.52	0	0
230209	Vegetarian-based, bread not specified	0.1144	0	0
230210	Sweet-filled sandwich	0.1144	0	0
230211	Unspecified sandwiches or rolls	0.1144	0	0

#### **Breakfast Cereals**

## High Fibre and Total Breakfast Cereal (addition of high and low fibre cereals)

### Household Wholegrain/High Fibre Breakfast Cereals

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
28101	Oatmeal and oat products	1	0.0275	0.0224
28202	Muesli	1	0.0275	0.0224
28203	High fibre breakfast cereals	1	0.0275	0.0224

#### **Eating Out Wholegrain/High Fibre Breakfast Cereals**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
190101	Muesli and Oat Crunch Cereals	1	0	0
190102	Other high fibre breakfast cereals e.g. Allbran, Weetabix	1	0	0
190104	Hot breakfast cereals e.g. porridge, Ready Brek	1	0	0

## Household Low Fibre or High NMES Breakfast Cereal

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
28204	Sweetened breakfast cereals	1	0.0275	0.0224

#### **Eating Out Low Fibre or High NMES Breakfast Cereal**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
190103	Sweetened breakfast cereals e.g. Frosties, Sugar Puffs	1	0	0

#### Household Low fibre and Lower NMES Breakfast Cereal

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
28205	Other breakfast cereals	1	0.0275	0.0224

#### Eating Out Low Fibre and Lower NMES Breakfast Cereal

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
190105	Other breakfast cereals and type not specified e.g. Cornflakes, Rice Krispies, Special K	1	0	0

## **Cakes, Sweet Biscuits and Pastries**

## Cakes and Pastries; Sweet Biscuits; and Cakes, Sweet Biscuits and Pastries

#### **Household Cakes and Pastries**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
27001	Cakes & pastries, not frozen	1	0.2802	0.1703
27002	Takeaway pastries	1	0.2802	0.1703
28601	Puddings	1	0.0638	0.0283
29402	Cakes & pastries - frozen	1	0.2802	0.1703

## **Eating Out Cakes and Pastries**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
290201	Doughnut	1	0	0
290202	Cream pastries e.g. chocolate éclairs, profiteroles	1	0	0
290203	Cream sponge/ gateau (not chocolate) e.g.Victoria sandwich	1	0	0
290204	Rich chocolate cake & chocolate gateau e.g. Death by Chocolate	1	0	0
290205	Fruit and other pies/pastries	1	0	0
290206	Fruit cake	1	0	0
290207	Other sponge cakes/desserts (not cream cakes)	1	0	0
290209	Meringue desserts incl Pavlova	1	0	0
290210	Cheesecake	1	0	0
290214	Other cakes and desserts incl not specified	1	0	0
290301	Waffles & pancakes	0.5	0	0
290401	Teacakes, scones, currant bun, iced bun	0.5	0	0

#### **Household Sweet Biscuits**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
27402	Sweet biscuits (not chocolate) & cereal bars	1	0.0539	0.0438
27702	Chocolate biscuits	1	0.0539	0.0438

#### **Eating Out Sweet Biscuits**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
300101	Fully-coated chocolate biscuits/ wafers	1	0	0
300102	Sweet biscuits incl half- coated chocolate biscuits	1	0	0
300103	Cereal bars and cereal based cakes	1	0	0

## **Ice Cream and Dairy Desserts**

## **Household Ice Cream and Dairy Desserts**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
1603	Dairy desserts - not frozen	1	0.1	0.1
33203	Ice cream tub or block	1	0.0638	0.0283
33302	Ice Iollies, sorbet, frozen mousse, frozen yoghurt	1	0.0638	0.0283
33303	Ice lollies, sorbet, frozen mousse, frozen yoghurt	1	0.0638	0.0283
33304	Takeaway ice cream, ice cream products, milkshakes	1	0.0638	0.0283

## **Eating Out Ice Cream and Dairy Desserts**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
290101	Ice cream in a cone, cornet or wafer and ice cream desserts	1	0	0
290103	Ice cream scoop or tub including ice cream served with dessert	1	0	0
290104	Iced Iollies and sorbets	1	0	0
290211	Fool, trifle and mousse desserts	1	0	0

## **Sugar and Preserves**

## **Household Sugar and Preserves**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
15001	Sugar	1	0.1267	0.091
15101	Jams & fruit curds	1	0.1267	0.091
15201	Marmalade	1	0.1267	0.091
15301	Syrup, treacle	1	0.1267	0.091
15401	Honey	1	0.1267	0.091
32303	Other spreads & dressings	1	0.1267	0.091
32901	Jelly squares or crystals	1	0.0638	0.0283

## **Eating Out Sugar and Preserves**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
240106	Sweet sauce e.g. syrup, treacle, chocolate sauce	1	0	0
240402	Jam, marmalade & honey	1	0	0
240405	Sugar (as an addition to tea, coffee etc)	1	0	0
290212	Jelly	1	0	0

## Confectionery

## **Chocolate Confectionery, Sugar Confectionery and Total Confectionery**

## **Household Chocolate Confectionery**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
35001	Chocolate bars - solid	1	0.0958	0.0575
35101	Chocolate bars - filled	1	0.0958	0.0575

## **Eating Out Chocolate Confectionery**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
280101	Chocolate bars & sweets – solid, unfilled incl 'chocolate', type not specified	1	0	0
280102	Chocolate-coated bars & sweets - filled e.g. Mars, Snickers, Minstrels	1	0	0
280103	Single chocolate (after dinner)	1	0	0

## **Household Sugar Confectionery**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
35301	Mints	1	0.0958	0.0575
35302	Boiled sweets	1	0.0958	0.0575
35401	Fudges, toffees, caramels	1	0.0958	0.0575
35501	Takeaway confectionery	1	0.0958	0.0575

## **Eating Out Sugar Confectionery**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
280105	Mints e.g. Polo, Extra Strong	1	0	0
280106	Boiled sweets, jellies e.g. fruit gums incl 'sweets', type not specified	1	0	0
280107	Toffee/fudge, uncoated eg Toffos, Choc Eclairs, caramels	1	0	0
280108	Pick n mix, nougat, liquorice and other sweets	1	0	0

## **Soft Drinks**

## Sugar Containing Soft Drinks, Sugar Free Soft Drinks, and Total Soft Drinks

## **Household Sugar Containing Soft Drinks**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
34001	Soft drinks, concentrated, not low calorie	1	0.1	0.1
34101	Soft drinks, not concentrated, not low calorie	1	0.1	0.1

#### **Eating Out Sugar Containing Soft Drinks**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
260203	Soft drink (incl carbonates & still), not low calorie incl low calorie/ not low cal not specified	1	0	0
260206	Soft drink where pure juice or juice drink not specified	1	0	0

## **Household Sugar Free Soft Drinks**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
34301	Soft drinks, concentrated, low calorie	1	0.1	0.1
34401	Soft drinks, not concentrated, low calorie	1	0.1	0.1

#### **Eating Out Sugar Free Soft Drinks**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
260202	Soft drink (incl carbonates & still), low calorie	1	0	0

## **Meat Products**

#### **Household Bacon and Ham**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
5502	Bacon and ham joints, uncooked	0.69104	0.2041	0.133
5505	Bacon and ham rashers, uncooked	0.65825	0.2041	0.133
5801	Cooked ham & bacon	1	0.2041	0.133

## **Eating Out Bacon and Ham**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
110106	Bacon	1	0	0
110107	Gammon or ham	1	0	0
230107	Bacon and egg based sandwich on white bread or roll including Bacon and Egg McMuffin	0.25	0	0
230108	Bacon and egg based sandwich on brown bread or roll	0.25	0	0
230109	Bacon and egg based sandwich bread not specified	0.25	0	0

## **Household Other Processed Red Meat Products**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
6201	Corned beef/ corned meat (canned or sliced)	1	0.0815	0.0457
6601	Other cooked meat	0.954007	0.0584	0.0401
7102	Other canned meat and canned meat products	0.532811	0.0584	0.0401
7901	Sausages (uncooked) - pork	0.78	0.0584	0.0401
8001	Sausages (uncooked) - beef	0.779	0.0584	0.0401
8302	Meat pies	0.271562	0.2563	0.29
8303	Sausage rolls	0.28	0.2563	0.29
8401	Meat pies, pasties and puddings	0.27445	0.2563	0.29
8501	Burgers	0.73	0.0584	0.0401
8902	Other convenience meat products	0.240481	0.2563	0.29
9301	Pâté	1	0.1324	0.0755
9302	Delicatessen type sausages: cooked or cured	1	0.0584	0.0401
9403	Meat pastes and spreads	1	0.1324	0.0755
9501	Takeaway meat pies & pasties	0.266316	0.2563	0.29
9502	Burger & bun e.g. hamburger	0.485	0.2563	0.29
9503	Kebabs	0.5	0.2563	0.29
9504	Sausages & saveloys	1	0.2563	0.29
9506	Miscellaneous meats	0.649653	0.2563	0.29

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## **Eating Out Other Processed Red Meat Products**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
110301	Small or single burgers	0.39	0	0
110302	Large or double burgers	0.58	0	0
110401	Kebabs - all types including chicken	0.5	0	0
110402	Plain sausages e.g. beef, pork	1	0	0
110403	Other sausages	1	0	0
110404	Hot dogs and sausage sandwiches	0.1769	0	0
110501	Meat pies (pastry topped) and pasties	0.16	0	0
110502	Meat pies (potato topped e.g. shepherd's pie)	0.1963	0	0
110503	Sausage roll (pastry)	0.28	0	0
110701	All pates	0.5	0	0
110801	Other meat products or dishes	0.2592	0	0
130202	Pizza - meat, fish or poultry	0.0337	0	0
160301	Meat salad e.g. beef, lamb salads	0.314	0	0
230101	Meat based sandwich on white bread or roll	0.242	0	0
230102	Meat based sandwich on brown bread or roll	0.242	0	0
230103	Meat based sandwich bread not specified	0.242	0	0

## **Household Savoury Meat Pies**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
8302	Meat pies	1	0.2563	0.29
8303	Sausage rolls	1	0.2563	0.29
8401	Meat pies, pasties and puddings	1	0.2563	0.29
9501	Takeaway meat pies & pasties	1	0.2563	0.29

## **Eating Out Savoury Meat Pies**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
110501	Meat pies (pastry topped) and pasties	1	0	0
110503	Sausage roll (pastry)	1	0	0

# Spreading Fats – Butter, Soft Margarine, Low Fat Spread and Total (addition of others)

#### **Household Butter**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
13501	Butter	1	0.0386	0.0176

#### **Household Soft Margarine**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
13801	Soft margarine	1	0.0386	0.0176

### **Household Low Fat Spread**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
14802	Reduced fat spreads	1	0.0386	0.0176
14802	Low fat spreads	1	0.0386	0.0176

## **Cooking Oil**

## **Household Cooking Oil**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
14304	Olive oil	1	0.1267	0.091
14305	Other vegetable & salad oils	1	0.1267	0.091

#### Cream

#### **Household Cream**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
1701	Cream	1	0.1222	0.096

## **Eating Out Cream**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
240403	Cream - single, double, sour etc.	1	0	0

#### Cheese

#### **Household Cheese**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
2201	Hard cheese - Cheddar type	1	0.0883	0.0829
2202	Hard cheese - Other UK or foreign equivalent	1	0.0883	0.0829
2203	Hard cheese - Edam or other foreign	1	0.0883	0.0829
2205	Cottage cheese	1	0.0883	0.0829
2206	Soft natural cheese	1	0.0883	0.0829
2301	Processed cheese	1	0.0883	0.0829

## **Eating Out Cheese**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
130101	Cottage cheese including with pineapple	1	0	0
130102	Soft, continental or processed cheese e.g. brie	1	0	0
130103	Cheddar, blue or other hard cheese and unspecified	1	0	0

## Milk

#### **Household Whole Milk**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
402	UHT milk	1	0.1	0.1
403	Sterilised	1	0.1	0.1
404	Pasteurised/ homogenised	1	0.1	0.1

## **Household Semi-skimmed Milk**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
1503	Semi-skimmed milk	1	0.1	0.1

#### **Household Skimmed Milk**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
1502	Fully skimmed milk	1	0.1	0.1

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#### **Household Total Milk**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
402	UHT milk	1	0.1	0.1
403	Sterilised	1	0.1	0.1
404	Pasteurised/ homogenised	1	0.1	0.1
501	School milk	1	0.1	0.1
601	Welfare milk	1	0.1	0.1
901	Condensed or evaporated milk	2.6	0.1	0.1
1102	Infant or baby milks - ready to drink	1	0.1	0.1
1103	Infant or baby milks - dried	1	0.1	0.1
1201	Instant dried milk	1	0.1	0.1
1502	Fully skimmed milk	1	0.1	0.1
1503	Semi-skimmed milk	1	0.1	0.1
1605	Dried milk products	1	0.1	0.1
1606	Milk drinks & other milks (replaced 200405 onwards)	1	0.1	0.1
1607	Milk drinks & other milks	1	0.1	0.1

#### **Eating Out Total Milk**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
260301	Milk as a drink	1	0	0
260302	Milk on cereal	1	0	0
260303	Milkshake and flavoured milk	1	0	0
260304	Free school milk	1	0	0

## White Fish

NB: Factors are multiplied by 7 in order that fish calculations can be carried out alongside those for other foods as the fish target is in grams per week and the other targets are in grams per day

#### **Household White Fish**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
10201	White fish, fresh or chilled	7	0.096	0.0418
10202	White fish, frozen	7	0.096	0.0418
11401	White fish, dried or salted or smoked	7	0.096	0.0418
11702	Shellfish, fresh or chilled	7	0.2178	0.0621
11703	Shellfish, frozen	7	0.2178	0.0621
11801	Takeaway fish	3.85	0.096	0.0418
12001	Other tinned or bottled fish	5.67	0.096	0.0418
12103	Ready meals & other fish products - frozen or not frozen	2.45	0.2563	0.29
12304	Takeaway fish products	3.5	0.2563	0.29
12305	Takeaway fish based meals	3.5	0.2563	0.29

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## **Eating Out White Fish**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
100101	Meat or fish based curry with sauce	1.75	0	0
100102	Meat or fish based curry without sauce	1.75	0	0
100201	Chinese or Thai meat or fish based dishes excluding curry	1.75	0	0
120101	White fish - grilled, steamed, baked or boiled - no sauce	7	0	0
120102	White fish - fried (incl in batter/breadcrumbs) - no sauce	3.85	0	0
120301	Shellfish - without sauce or dressing e.g. prawns, shrimps, oysters, crab	7	0	0
120501	Other fish products and unspecified 'fish' e.g. squid, sushi, crabsticks	7	0	0
120601	Fish, processed, in breadcrumbs (fish fingers, fish cakes, scampi) - without sauce/dressing	3.5	0	0
120602	Fish burgers [in bun]	1.575	0	0
120603	Fish based pie or other dish e.g. paella, kedgeree, tuna pasta bake	2.45	0	0
130202	Pizza - meat, fish or poultry	0.175	0	0
160303	Fish salad e.g. tuna, salmon salads	0.7	0	0
230110	Fish based sandwich on white bread or roll	2.31	0	0
230111	Fish based sandwich on brown bread or roll	2.31	0	0
230112	Fish based sandwich bread not specified	2.31	0	0
240103	Fish or seafood based sauce	3.43	0	0
240304	Fish-based filling e.g. tuna mayonnaise	4.55	0	0

## **Fresh Potatoes**

#### **Household Fresh Potatoes**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
15501	Potatoes	1	0.3718	0.2416
15502	Potatoes	1	0.3718	0.2416
15503	Potatoes	1	0.3718	0.2416
15504	Fresh potatoes not specified elsewhere	1	0.3718	0.2416
15505	Fresh new potatoes	1	0.3718	0.2416
15506	Fresh baking potatoes	1	0.3718	0.2416

## **Eating Out Fresh Potatoes**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
140103	Potatoes - boiled & type not specified	1	0	0
140104	Potatoes - mashed	1	0	0
140105	Potatoes - roast	1	0	0
140106	Sautéed potatoes/ potato croquettes/ hash browns	1	0	0
140107	Baked/ jacket potatoes - no filling	1	0	0
140108	Other potato dishes (e.g. wedges, potato salad) & not specified	1	0	0

## **Processed Potatoes**

#### **Household Processed Potatoes**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
19702	Chips - frozen or not frozen	1	0.3718	0.2416
19703	Takeaway chips	1	0.3718	0.2416
19801	Instant potato	1	0.3718	0.2416
19901	Canned potatoes	1	0.3718	0.2416
20101	Other potato products - frozen or not frozen	1	0.3718	0.2416

## **Eating Out Processed Potatoes**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
14010	Chips & French fries - from fast food outlet e.g. McDonalds	1	0	0
14010	Chips - served with meal e.g. from restaurant, chip shop	1	0	0

#### Nuts

#### **Household Nuts**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
24502	Nuts & edible seeds	1	0.0228	0.043
24503	Peanut butter	1	0.0228	0.043

## **Eating Out Nuts**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
310101	Nuts, nut products and seeds	1	0	0

## **Savoury Snacks**

## **Household Savoury Snacks**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
20002	Crisps & potato snacks	1	0.1239	0.0809
29909	Cereal snacks	1	0.0275	0.0224
29916	Takeaway crisps, savoury snacks, popcorn, popadums, prawn crackers	1	0.1239	0.0809

# Appendix 3: Monitoring Scottish Dietary Goals and Additional Foods and Drinks Indicative of Diet Quality Coding Frame

## **Eating Out Savoury Snacks**

Defra Code	Food Description	Factor	Single Adult HH Waste	Multiple Adult HH Waste
310102	Potato crisps or snacks including unspecified 'crisps', prawn crackers	1	0	0
310103	Corn snacks, based on maize	1	0	0
310104	Wheat-based savoury snack	1	0	0

## **Appendix 4: Energy Density Coding Frame**

Food Code	Description	HH / EO	Food & Milk	Factor
402	UHT whole milk	HH	✓	1
403	Sterilised whole milk	HH	✓	1
404	Pasteurised or homogenised whole milk	HH	✓	1
501	School milk	HH	✓	1
601	Welfare milk	HH	<b>√</b>	1
901	Condensed or evaporated milk	HH	<b>√</b>	1
1102	Infant or baby milks - ready to drink	HH	<b>√</b>	1
1103	Infant or baby milks - dried (reconstituted)	HH	✓ ✓	1
1201	Instant dried milk (reconstituted)	HH	✓ ✓	1
1301 1302	Yoghurt Samuel Control of the Contro	HH	<b>∨</b> ✓	1
1502	Fromage frais Fully skimmed milk	HH	<b>✓</b>	1
1502	Semi-skimmed milk	HH	<b>√</b>	1
1603	Dairy desserts - not frozen	HH	<b>√</b>	1
1605	Dried milk products (reconstituted)	НН	<b>✓</b>	1
1606	Milk drinks & other milks	HH	<b>√</b>	1
1607	Milk drinks & other milks	НН	· ✓	1
1608	Non-dairy milk substitutes	HH	<b>√</b>	1
1701	Cream	HH	<b>√</b>	1
2201	Hard cheese - Cheddar type	HH	<b>✓</b>	1
2201	Hard cheese - Other	HH	· ✓	1
2203	Hard cheese - Edam	HH	<b>✓</b>	1
2205	Cottage cheese	НН	<b>✓</b>	1
2206	Soft natural cheese	НН	<b>✓</b>	1
2301	Processed cheese	НН	<b>√</b>	1
3102	Beef joints - on the bone	НН	✓	0.56
3103	Beef joints - boned	НН	✓	0.63
3104	Beef steak - less expensive	НН	✓	0.64
3105	Beef steak - more expensive	НН	✓	0.73
3106	Minced beef	НН	✓	0.82
3107	All other beef and veal	НН	✓	0.62
3601	Mutton	НН	✓	0.62
3602	Lamb joints	НН	✓	0.59
3603	Lamb chops	НН	✓	0.55
3604	All other lamb	НН	✓	0.71
4101	Pork joints	HH	✓	0.57
4102	Pork chops	НН	✓	0.59
4103	Pork fillets and steaks	HH	✓	0.65
4104	All other pork	HH	✓	0.63
4603	Ox liver	HH	✓	0.91
4604	Lambs liver	HH	✓	0.78
4605	Pigs liver	HH	✓	0.88
4607	All other liver	HH	✓	0.88
5101	All offal other than liver	HH	✓	0.56
5502	Bacon and ham joints, uncooked	HH	<b>√</b>	0.69
5505	Bacon and ham rashers, uncooked	HH	<b>√</b>	0.66
5801	Ham and bacon (cooked)	HH	<b>√</b>	1
5903	Cooked chicken and turkey	HH	<b>√</b>	1
5904	Takeaway chicken	HH	<b>√</b>	1
6201	Corned beef - canned or sliced	НН	✓ ✓	1
6601 7102	Other cooked meat and meat products	НН	✓ ✓	
7102	Other canned meat and meat products  Chicken - whole or part	HH	<b>√</b>	0.54
7703	Turkey - whole or part	HH	<b>✓</b>	0.54
7703	Poultry other than chicken or turkey	HH	<b>✓</b>	0.55
7704	Other fresh, chilled or frozen meat	НН	<b>√</b>	0.40
7901	Sausages, uncooked - pork	HH	<b>✓</b>	0.59
8001	Sausages, uncooked - pork Sausages, uncooked - beef etc.	HH	<b>√</b>	0.78
8302	Meat pies - ready to eat	НН	<b>√</b>	1
8303	Sausage rolls - ready to eat	HH	<b>✓</b>	1
8401	Meat pies, pasties and puddings	HH	<b>✓</b>	1
8501	Burgers - frozen or not frozen	НН	<b>√</b>	0.73
8901	Complete meat-based ready meals	НН	<b>√</b>	1
2301				

8902	Other convenience meat products	НН	<b>√</b>	1
9301	Pate	HH	<b>√</b>	1
9302	Delicatessen type sausages	HH	<b>√</b>	1
9403	Meat pastes and spreads	НН	<b>√</b>	1
9501	Takeaway meat pies and pasties	НН	<b>√</b>	1
9502	Takeaway burger and bun	НН	✓	1
9503	Takeaway kebabs	НН	✓	1
9504	Takeaway sausages and saveloys	НН	✓	1
9505	Takeaway meat based meals	НН	✓	1
9506	Takeaway miscellaneous meats	НН	✓	1
10201	White fish, fresh or chilled	HH	✓	0.94
10202	White fish, frozen	HH	✓	0.94
10601	Herrings and other blue fish, fresh/chilled	HH	✓	0.89
10602	Herrings and other blue fish, frozen	НН	✓	0.89
10701	Salmon, fresh or chilled	НН	✓	0.94
10702	Salmon, frozen	НН	✓	0.94
10801	Blue fish, dried or salted or smoked	НН	✓	0.71
11401	White fish, dried or salted or smoked	НН	✓	0.97
11702	Shellfish, fresh or chilled	HH	✓	1
11703	Shellfish, frozen	HH	✓	1
11801	Takeaway fish	HH	✓	1
11901	Tinned salmon	HH	✓	1
12001	Other tinned or bottled fish	HH	✓	1
12103	Ready meals and other fish products	HH	✓	1
12304	Takeaway fish products	HH	✓	1
12305	Takeaway fish based meals	HH	✓	1
12901	Eggs	HH	✓	50
13501	Butter	HH	✓	1
13801	Soft margarine	HH	✓	1
13802	Other margarine	HH	✓	1
13901	Lard, cooking fat	HH	✓	1
14304	Olive Oil	HH	✓	1
14305	Other vegetable and salad oils	HH	✓	1
14802	Reduced fat spreads	HH	✓	1
14803	Low fat spreads	HH	✓	1
14805	Suet and dripping	HH	✓	1
14807	Imitation cream	HH	✓	1
15001	Sugar	HH	✓	1
15101	Jams and fruit curds	HH	✓	1
15201	Marmalade	HH	✓	1
15301	Syrup, treacle	HH	✓	1
15401	Honey	HH	✓	1
15501	Potatoes	HH	✓	1
15502	Potatoes	HH	✓	1
15503	Potatoes	HH	✓	1
15504	Fresh potatoes not specified elsewhere	HH	✓	1
15505	Fresh new potatoes	HH	✓	1
15506	Fresh baking potatoes	HH	✓	1
16201	Fresh cabbages	HH	✓	1
16301	Fresh Brussels sprouts	HH	✓	1
16401	Fresh cauliflower	HH	✓	1
16701	Lettuce and leafy salads	HH	✓	1
16702	Prepared lettuce salads	HH	✓	1
16801	Fresh peas	НН	✓	1
16901	Fresh beans	HH	✓	1
17101	Other fresh green vegetables	HH	✓	1
17201	Fresh carrots	НН	✓	1
17301	Fresh turnips and swede	НН	✓	1
17401	Other fresh root vegetables	HH	✓	1
17501	Fresh onions, leeks and shallots	HH	✓	1
17601	Fresh cucumbers	НН	✓	1
17701	Fresh mushrooms	HH	✓	1
17801	Fresh tomatoes	HH	✓	1
18301	Fresh vegetable stewpack, stirfry pack etc.	HH	✓	1
18302	Fresh stem vegetables	НН	✓	1
18303	Fresh marrow, courgettes, aubergine, pumpkin and other veg	НН	✓	1
18304	Fresh herbs	HH	✓	1

18401	Tomatoes, canned or bottled	НН	✓	1
18501	Peas, canned	НН	✓	1
18802	Baked beans in sauce	HH	✓	1
18803	Other canned beans and pulses	HH	✓	1
19101	Other canned vegetables	HH	✓	1
19201	Dried pulses, other than air-dried	НН	✓	6.19
19501	Air-dried vegetables	HH	✓	14.39
19602	Tomato puree and vegetable purees	НН	✓	1
19603	Vegetable juices e.g. tomato, carrot	HH	×	1
19702	Chips - frozen or not frozen	HH	✓	1
19703	Takeaway chips	HH	✓	1
19801	Instant potato	HH	✓	1
19901	Canned potatoes	HH	✓	1
20002	Crisps and potato snacks	НН	✓	1
20101	Other potato products	НН	✓	1
20301	Peas, frozen	HH	✓	1
20401	Beans, frozen	НН	✓	1
20601	Ready meals & other vegetable products	HH	✓	1
20604	All vegetable takeaway products	HH	✓	1
20801	Other frozen vegetables	HH	✓	1
21001	Fresh oranges	НН	✓	1
21401	Other fresh citrus fruits	HH	✓	1
21701	Fresh apples	НН	<b>√</b>	1
21801	Fresh pears	НН	<b>√</b>	1
22101	Fresh stone fruit	НН	✓	1
22201	Fresh grapes	НН	<b>√</b>	1
22701	Other fresh soft fruit	НН	<b>√</b>	1
22801	Fresh bananas	НН	<b>√</b>	1
22901	Fresh melons	НН	<b>√</b>	1
23101	Other fresh fruit	HH		1
23301	Tinned peaches, pears and pineapples	HH		1
23601	All other tinned or bottled fruit	HH	<u> </u>	1
24001	Dried fruit	HH	<u>·</u> ✓	1
24101	Frozen strawberries, apples, peach halves, oranges & other fruits	HH	<b>-</b> ✓	1
24502	Nuts & edible seeds	HH	<b>-</b> ✓	1
24503	Peanut butter	HH		1
24801		HH	×	1
25102	Pure fruit juices  White broad standard unalized	HH	<b>×</b>	
25202	White bread, standard, unsliced	HH		1 1
	White bread, standard, sliced		<b>~</b> ✓	
25701	White bread, premium, sliced and unsliced	HH		1
25801	White bread, soft grain, sliced and unsliced	HH	<b>√</b>	1
25901	Brown bread, sliced and unsliced	HH	<b>√</b>	1
26001	Wholemeal and granary bread	HH	<b>√</b>	1
26302	Rolls - white, brown or wholemeal	HH	<b>√</b>	1
26303	Malt bread and fruit loaves	HH	<b>√</b>	1
26304	Vienna and French bread	HH	<b>√</b>	1
26305	Starch reduced bread and rolls	HH	<b>√</b>	1
26308	Other breads	HH	<b>√</b>	1
26309	Sandwiches	HH	<b>√</b>	1
26310	Sandwiches from takeaway	HH	✓	1
26311	Takeaway breads	HH	<b>√</b>	1
26401	Flour	HH	<b>√</b>	1
26701	Buns, scones and teacakes	HH	✓	1
27001	Cakes and pastries, not frozen	НН	✓	1
27002	Takeaway pastries	НН	✓	1
27101	Crispbread	НН	✓	1
27402	Sweet biscuits (not choc) and cereal bars	НН	✓	1
27403	Cream crackers & other unsweetened biscuits	HH	✓	1
27702	Chocolate biscuits	HH	✓	1
28101	Oatmeal and oat products	НН	✓	1
28202	Muesli	НН	✓	1
28203	High fibre breakfast cereals	НН	✓	1
28204	Sweetened breakfast cereals	НН	✓	1
28205	Other breakfast cereals	НН	✓	1
28502	Canned or fresh carton custard	НН	✓	1
28503	All canned milk puddings	НН	✓	1
	Puddings	НН	<b>√</b>	1

				1
28702	Dried rice	HH	✓	2.77
28703	Cooked rice	HH	✓	1
28704	Takeaway rice	HH	✓	1
29001	Invalid, slimming and sports foods	HH	✓	1
29101	Infant cereal foods	HH	✓	1
29402	Cakes and pastries - frozen	HH	✓	1
29501	Canned pasta	HH	✓	1
29502	Dried and fresh pasta	HH	✓	2.27
29503	Takeaway pasta and noodles	HH	✓	1
29601	Pizzas - frozen and not frozen	HH	✓	1
29602	Takeaway pizza	HH	✓	1
29907	Cake, pudding and dessert mixes	НН	✓	8.50
29909	Cereal snacks	НН	✓	1
29915	Quiches and flans - frozen and not frozen	НН	✓	1
29916	T/A crisps, savoury snacks, popcorn, popadums, prawn crackers	НН	✓	1
29919	Other cereal foods - frozen and not frozen	НН	<b>√</b>	1
30101	Other cereals	НН	✓	1
30401	Tea	НН	×	83
30701	Coffee beans and ground coffee	НН	×	52
30801	Instant coffee	НН	×	173
30901	Coffee essences	НН	×	20.8
31001	Tea and coffee from takeaway	HH	×	1
31201	Cocoa and chocolate drinks	НН	<b>~</b>	1
	Malt drinks and chocolate versions of malted drinks	HH	<b>∨</b> ✓	
31301				1
31401	Mineral or spring waters	HH	×	1
31501	Baby foods	HH	<b>✓</b>	1
31801	Soups - canned or cartons	HH	<b>√</b>	1
31901	Soups - dehydrated or powdered	HH	✓	9.40
32001	Soups - from takeaway	HH	✓	1
32101	Other takeaway food brought home	HH	×	
32201	Meals on wheels - items not specified	HH	✓	1
32302	Salad dressings	HH	✓	1
32303	Other spreads and dressings	HH	✓	1
32702	Pickles	HH	✓	1
32703	Sauces	HH	✓	1
32704	Takeaway sauces and mayonnaise	HH	✓	1
32801	Stock cubes and meat and yeast extracts	НН	✓	1
32901	Jelly squares or crystals	НН	✓	1
33203	Ice cream tub or block	НН	✓	1
33302	Ice cream cornets, choc-ices, lollies with ice cream	НН	✓	1
33303	Ice Iollies, sorbet, frozen mousse, frozen yoghurt	НН	✓	1
33304	Takeaway ice cream, ice cream products, milkshakes	НН	<b>✓</b>	1
33401	Salt	НН	×	
33501	Artificial sweeteners	НН	×	
33602	Vinegar	НН	×	
33603	Spices and dried herbs	НН	×	
33604	Bisto, gravy granules, stuffing mix, baking powder, yeast	НН	×	
33605	Wine and beer making kits	НН	×	
33606	Fruit teas, instant tea, herbal tea, rosehip tea	НН	×	
33607	Payment for food, type not specified	НН		
			*	1
33901	Soya and novel protein foods	HH	<b>√</b>	1
34001	Soft drinks, concentrated, not low calorie (reconstituted)	HH	×	1
34101	Soft drinks, not concentrated, not low calorie (reconstituted)	HH	×	1
34301	Soft drinks, concentrated, low calorie	HH	×	1
34401	Soft drinks, not concentrated, low calorie	HH	×	1
35001	Chocolate bars - solid	HH	✓	1
35101	Chocolate bars - filled	HH	✓	1
35202	Chewing gum	HH	✓	1
35301	Mints	HH	✓	1
35302	Boiled sweets	НН	✓	1
35401	Fudges, toffees, caramels	НН	✓	1
35501	Takeaway confectionery	HH	✓	1
38102	Beers	НН	×	1
38202	Lagers and continental beers	НН	×	1
38302	Ciders and perry	нн	×	1
38402	Champagne, sparkling wines & wine with mixer	НН	×	1
38403	Table wine	НН	×	1

20504				_
38501	Spirits with mixer	HH	ж	1
38601	Fortified wines	HH	*	1
38701	Spirits	HH	*	1
38801	Liqueurs and cocktails	HH	×	1
38901 100101	Alcopops  Meat or fish based curry with sauce	HH EO	<b>×</b> ✓	1
100101	Meat or fish based curry with sauce	EO		1
100102	Vegetable or fruit based curry	EO	<b>~</b>	1
	Dhal and dhal dishes	EO	<b>~</b> ✓	1
100104 100105	Samosas	EO		1
100105	Other Indian dishes	EO		1
100100	Indian breads	EO	<b>~</b>	1
100107	Indian buffet or shared meal or unspecified Indian meal	EO		1
100108		EO		1
100201	Chinese or Thai meat or fish based dishes excluding curry Chop suey and fu yung dishes	EO		1
100202	Chinese or Thai vegetable based main course dishes ex. curry	EO	<b>✓</b>	1
100203	Chinese or Thai vegetable based main course dishes ex. curry  Chinese or Thai curry	EO	<b>-</b> ✓	1
100204	Spring rolls	EO		1
100203	Other Chinese or Thai dishes	EO	<b>~</b>	1
100206	Chinese or Thai buffet or shared meal or unspecified meal	EO	<b>~</b>	1
100207	All other ethnic meals	EO	<b>~</b> ✓	1
110101		EO		1
110101	Steak - without sauce e.g. braised, sirloin  Roast meat with sauce or gravy	EO		1
	Pork chops with sauce or gravy	EO	<b>~</b>	1
110103 110104	1 0 7	EO	<b>~</b> ✓	1
110104	Lamb chops with sauce or gravy		<b>~</b>	
110105	Spare ribs Bacon	EO EO	<b>~</b>	1
	***	EO	<b>~</b> ✓	1
110107 110108	Gammon or ham	EO		1
110108	All offal including liver, kidney, tongue Chicken or turkey with sauce or gravy	EO		1
110201	Chicken or turkey in breadcrumbs or batter	EO		1
110202	Duck with sauce or gravy	EO		1
110203	<u> </u>	EO		1
110204	Game with sauce or gravy Small or single burgers	EO	<b>~</b>	1
110301	Large or double burgers	EO	<b>~</b>	1
110302	Chicken burger	EO		1
110303	Kebabs - all types including chicken	EO	<b>-</b> ✓	1
110401	Plain sausages e.g. beef, pork	EO	<b>-</b> ✓	1
110402	Other sausages	EO	<b>-</b> ✓	1
110403	Hot dogs and sausage sandwiches	EO		1
110404	Meat pies (pastry topped) and pasties	EO	<b>-</b> ✓	1
110501	Meat pies (potato topped e.g. shepherd's pie)	EO	<b>✓</b>	1
	- ",		<b>✓</b>	1
110503	Sausage roll (pastry)  Meat and vegetable stews, casseroles or hotpots	EO	<b>✓</b>	1
110601	Chicken or turkey stews, casseroles or hotpots	EO	<b>✓</b>	1
110602	Lasagne, cannelloni, moussaka & other meat-based oven baked dishes	EO	<b>✓</b>	1
110701	All pates	EO	<b>✓</b>	1
110701	Other meat products or dishes	EO	<b>✓</b>	1
120101	White fish - grilled, steamed, baked or boiled - without sauce	EO	<b>→</b>	1
120101	White fish - fried (incl in batter/breadcrumbs) - without sauce	EO	<b>✓</b>	1
120102	Trout, tuna and salmon only - fresh - without sauce or dressing	EO	<b>✓</b>	1
120201	Other fatty fish – w/o sauce or dressing e.g. herring, mackerel, sardines	EO	<b>✓</b>	1
120202	Shellfish w/o sauce or dressing e.g. prawns, shrimps, oysters, crab	EO	<b>✓</b>	
120301	Kippers and other smoked fish e.g. salmon	EO	<b>✓</b>	1 1
120401	Other fish products and unspecified 'fish' e.g. squid, sushi, crabsticks	EO	<b>✓</b>	1
120601	Fish processed in breadcrumbs (fish fingers, fish cakes, scampi)	EO	<b>✓</b>	1
			<b>✓</b>	
120602 120603	Fish burgers (in bun) Fish based pie or other dish e.g. paella, kedgeree, tuna pasta bake	EO EO	<b>✓</b>	1 1
130101	Cottage cheese including with pineapple	EO	<b>~</b>	1
130101	Soft, continental or proc cheese e.g. brie	EO	<b>✓</b>	1
	Cheddar, blue or other hard cheese and unspecified 'cheese'		<b>✓</b>	
130103	· · · · · · · · · · · · · · · · · · ·	EO EO	<b>✓</b>	1
130104	Quiche and cheese pies or pasties  Other chaese diches a g. Welch variabit, chaese and hissuits	EO	<b>✓</b>	1
130105	Other cheese dishes e.g. Welsh rarebit, cheese and biscuits	EO		1
130201	Pizza - cheese and tomato, vegetable or unspecified 'pizza'	EO	<b>√</b>	1
130202 130301	Pizza - meat, fish or poultry Eggs - boiled or poached	EO EO	<b>✓</b>	1 1
	<del></del>		<b>✓</b>	
130302	Eggs - scrambled, fried, omelettes or unspecified 'egg'	EO	<b>v</b>	1

130303	Other egg dishes e.g. egg mayonnaise	EO	<b>√</b>	1
140101	Chips and French fries - from fast food outlet e.g. McDonalds	EO EO	<b>√</b>	1
140102	Chips - served with meal e.g. from restaurant or chip shop	EO	<b>√</b>	1
140103	Potatoes - boiled or unspecified 'potato'	EO	<b>√</b>	1
140104	Potatoes - mashed	EO	<b>√</b>	1
140105	Potatoes - roast	EO	<b>√</b>	1
140106	Sautéed potatoes, potato croquettes, hash browns etc.	EO	<b>√</b>	1
140107	Baked or jacket potatoes - without filling	EO	<b>√</b>	1
140108	Other potato dishes (e.g. wedges, potato salad) including unspecified	EO	<b>√</b>	1
150101	Lettuce and cress	EO	<b>√</b>	1
150102	Other green vegetables e.g. spinach, cabbage, sprouts	EO	<b>√</b>	1
150201	Peppers - raw or cooked	EO	<b>√</b>	1
150202	Courgettes, marrow, aubergine, pumpkin, plantain, cucumbers	EO	<b>√</b>	1
150203	Peas and sweetcorn	EO EO	<b>√</b>	1
150204	Baked beans and other beans (not green beans) and pulses	EO	<b>√</b>	1
150205	Tomato - fresh or raw	EO	<b>√</b>	1
150206	Tomato - cooked or processed	EO EO	<b>√</b>	1
150301	Carrots Opions raw cooked or unspecified 'opions'	EO		1
150302	Onions - raw, cooked or unspecified 'onions' Onions - fried	EO	<b>√</b>	1
150303		EO	<b>√</b>	1
150304	Other root vegetables or tubers e.g. turnip, parsnip, radish, beetroot	EO	<b>✓</b>	1
150401	Mushrooms - raw or cooked  Mixed vegetables or usenedified begetable	EO EO	<b>✓</b>	1
150501	Mixed vegetables or unspecified 'vegetable'	EO		1
150502	Other vegetables e.g. artichoke, asparagus	EO	<b>√</b>	1
150503	Veg in batter or breadcrumbs and deep fried vegetables e.g. onion rings	EO		1
150504 150601	Onion and other vegetable bhajis and pakora	EO EO	<b>√</b>	1
	Veggie burger, bean burger, veggie sausage, nut roast		<b>✓</b>	
150602	Veg lasagne, cannelloni, moussaka & other oven baked veg dishes	EO		1
150603	Stuffed vegetables (e.g. stuffed pepper) and vegetable based starter	EO		1
150604	Vegetable based stews and casseroles and vegetable based pies	EO		1
160101	Mixed salad, main course - without dressing	EO	<b>√</b>	1
160102	Mixed salad, side dish - without dressing - including unspecified 'salad'	EO	<b>✓</b>	1
160103	Green salad - without dressing	EO EO	<b>✓</b>	1
160201 160202	Vegetable or fruit and nut salad - with dressing  Pasta, rice, mixed bean or cereal-based salads - with dressing	EO EO	<b>✓</b>	1
160202	Meat salad e.g. beef, lamb salads	EO		1
160301	Chicken or turkey salad	EO		1
160302	Fish salad e.g. tuna, salmon salads	EO		1
160303	Cheese salad including ploughmans	EO		1
160401	Egg salad	EO		1
160501	Other salads e.g. Greek, Florida, Russian	EO	<u> </u>	1
160601	Salad buffet or buffet meal items not spec	EO	<u> </u>	1
170101	Fried rice and risotto	EO	<u> </u>	1
170101	All cooked rice excluding fried rice e.g. boiled, pilau, savoury	EO		1
170102	Pasta - not filled and plain noodles (inc. pot noodle) – w/o sauce	EO	<b>~</b>	1
170103	Pasta - filled e.g. ravioli, tortellini - w/o sauce	EO	<b>~</b>	1
170104	Noodles with meat, vegetables etc.	EO	<b>~</b>	1
180101	Meat & fish soups	EO	<b>✓</b>	1
180101	Vegetable based soups	EO	<b>▼</b>	1
180102	Chinese soups, consommé	EO	<b>▼</b>	1
180103	Other soups including unspecified 'soup'	EO	<b>~</b>	1
190101	Muesli and oat crunch cereals	EO	<b>✓</b>	1
190101	Other high fibre breakfast cereals e.g. Allbran, Weetabix	EO	<u> </u>	1
190102	Sweetened breakfast cereals e.g. Frosties, Sugar Puffs	EO	<b>▼</b>	1
190103	Hot breakfast cereals e.g. porridge, Ready Brek	EO	<b>✓</b>	1
190104	Other break cereals / unspecified e.g. Cornflakes, Rice Krispies, Special K	EO		1
200101	All citrus fruit, fresh e.g. orange, grapefruit	EO	<u> </u>	1
200101	Banana, fresh	EO	<u> </u>	1
200102	Apples, fresh	EO	<b>~</b>	1
200103	Pears, fresh	EO	<b>✓</b>	1
200104	Stone fruit, fresh e.g. apricot, plum, peach, cherry, avocado	EO	<b>▼</b>	1
200103	Grapes, fresh	EO	<b>~</b>	1
200100	Soft fruit or berries, fresh e.g. strawberries – w/o cream or ice cream	EO	<u> </u>	1
200107	Melon, fresh	EO	<b>✓</b>	1
200108	Pineapple, fresh	EO	<u>√</u>	1
200109	Fresh fruit salad	EO	<u> </u>	1
200110	Other fresh fruit (kiwi, passion) and unspec	EO	<u> </u>	1
200111	other restriction (kive), passion, and unspec	LO	•	1

200112	Free school fruit	EO	<b>✓</b>	1
200112	Dried fruit e.g. sultanas, raisins	EO		1
200201	Tinned, stewed, baked or processed fruit w/o cream or ice cream	EO		1
210101	Yoghurt and fromage frais	EO	<u>√</u>	1
220101	White bread, with or w/o butter or margarine (toasted or untoasted)	EO		1
220101	Brown/w/meal bread, with or w/o butter or marg (toasted/untoasted)	EO		1
220102	White rolls, baguettes etc. w/o butter/ margarine (or not spec.)	EO		1
220103	Brown or w'meal rolls, baguettes w/o butter/marg (or not spec.)	EO		1
220104	Garlic bread	EO		1
220103	Croissant	EO	<u> </u>	1
220100	Continental breads e.g. pitta, ciabatta, focaccio	EO		1
220107	Muffins, crumpets	EO	<u>√</u>	1
220108	• •	EO		1
	Fried bread, including croutons			
220110	Other bread, rolls, toast, unspec 'bread' etc.  Meat based sandwich on white bread/roll	EO	✓	1
230101	·	EO	✓	1
230102	Meat based sandwich on brown bread/roll	EO	✓	1
230103	Meat based sandwich bread not specified	EO	<b>✓</b>	1
230104	Chicken/turkey s'wich on white bread/roll	EO	•	1
230105	Chicken/ turkey s'wich on brown bread/ roll	EO	<b>√</b>	1
230106	Chicken/ turkey s'wich bread not specified	EO	<b>√</b>	1
230107	Bacon & egg based sandwich on white bread/roll inc McMuffin	EO	<b>√</b>	1
230108	Bacon & egg sandwich - brown bread or roll	EO	✓	1
230109	Bacon & egg sandwich bread not specified	EO	✓	1
230110	Fish based sandwich on white bread or roll	EO	✓	1
230111	Fish based sandwich on brown bread or roll	EO	✓	1
230112	Fish based sandwich bread not specified	EO	✓	1
230201	Cheese sandwich on white bread or roll	EO	✓	1
230202	Cheese sandwich on brown bread or roll	EO	✓	1
230203	Cheese based sandwich bread not specified	EO	✓	1
230204	Egg based sandwich on white bread or roll inc. Egg McMuffin	EO	✓	1
230205	Egg based sandwich on brown bread or roll	EO	✓	1
230206	Egg based sandwich bread not specified	EO	✓	1
230207	Vegetarian sandwich on white bread or roll	EO	✓	1
230208	Vegetarian sandwich on brown bread or roll	EO	✓	1
230209	Vegetarian sandwich bread not specified	EO	✓	1
230210	Sweet-filled sandwich	EO	✓	1
230211	Unspecified sandwiches or rolls	EO	✓	1
240101	Cheese or cream based sauce e.g. carbonara, cauliflower cheese	EO	✓	1
240102	Meat-based sauce e.g. bolognese, chilli	EO	<b>√</b>	1
240103	Fish or seafood based sauce	EO	<b>√</b>	1
240104	Tomato based sauce cont veg inc ratatouille	EO	<b>√</b>	1
240105	Other savoury sauce or unspecified 'sauce'	EO	<b>√</b>	1
240106	Sweet sauce e.g. syrup, treacle, chocolate	EO	<b>√</b>	1
240107	Fruit or vegetable based condiments	EO	<b>√</b>	1
240108	Other condiments or sauces	EO	<b>√</b>	1
240201	Salad dressings and dips	EO	<u> </u>	1
240201	Mayonnaise	EO	<u>√</u>	1
240202	Coleslaw	EO		1
240203	Fruit filling e.g. peaches for pancakes	EO	<u> </u>	1
240301	Vegetable filling	EO	<b>▼</b>	1
240302	3			
	Cheese filling inc cheddar / cottage cheese	EO	<b>√</b>	1
240304	Fish based filling e.g. tuna mayonnaise	EO		1
240401	Butter and margarine	EO	<b>√</b>	1
240402	Jam, marmalade and honey	EO	<b>√</b>	1
240403	Cream - single, double, sour etc.	EO	<b>√</b>	1
240404	Custard	EO	<b>√</b>	1
240405	Sugar (as an addition to tea, coffee etc.)	EO	<b>√</b>	1
240501	Commercial baby food in a jar or can	EO	✓	1
240601	Yorkshire puddings and dumplings	EO	<b>√</b>	1
240701	Unspec meal e.g. school meal / meal at work	EO	✓	1
250101	Coffee, black including espresso	EO	×	1
250102	Coffee, white including cappuccino, latte	EO	×	1
250103	Coffee, black or white not specified	EO	×	1
250104	Tea, white	EO	×	1
250105	Tea, black	EO	×	1
250106	Hot chocolate or cocoa, with milk or water	EO	✓	1
260201	Mineral water	EO	×	1

260202	Soft drink (incl carbonates and still) - low calorie	EO	×	1
260203	Soft drink (incl carbonates & still) - not low calorie /calories unspecified	EO	×	1
260204	Pure fruit juices	EO	×	1
260205	Vegetable juices e.g. tomato, carrot juice	EO	×	1
260206	Soft drink - pure juice or juice drink not spec	EO	×	1
260301	Milk as a drink	EO	✓	1
260302	Milk on cereal	EO	✓	1
260303	Milkshake and flavoured milk	EO	✓	1
260304	Free school milk	EO	✓	1
270101	Spirits	EO	×	1
270102	Liqueurs	EO	×	1
270103	Cocktails	EO	×	1
270104	Spirits or liqueurs with mixer e.g. gin & tonic, Bacardi & coke	EO	×	1
270201	Wine (not sparkling) including unspec 'wine'	EO	×	1
270202	Sparkling wines (e.g. Champagne) and wine with mixer (e.g. Bucks Fizz)	EO	×	1
270203	Fortified wine e.g. sherry, port, vermouth	EO	×	1
270204	Cider or perry - half pint or bottle	EO	×	1
270205	Cider or perry - pint / can / size not spec	EO	×	1
270206	Alcoholic soft drinks (alcopops), and ready-mixed bottled drinks	EO	×	1
270301	Bitter - half pint or bottle	EO	×	1
270302	Bitter - pint or can or size not specified	EO	×	1
270303	Lager or other beers - half pint or bottle	EO	×	1
270304	Lager or other beers - pint/can/size not spec	EO	×	1
270401	Round of drinks, alcohol specified	EO	×	1
280101	Solid, unfilled chocolate bars and sweets & unspecified chocolate	EO	✓	1
280102	Filled chocolate-coated bars and sweets e.g. Mars, Snickers, Minstrels	EO	✓	1
280103	Single chocolate (after dinner)	EO	✓	1
280104	Chewing gum and bubble gum	EO	✓	1
280105	Mints e.g. Polo, Extra Strong	EO	✓	1
280106	Boiled sweets, jellies and unspecified 'sweets' e.g. fruit gums	EO	✓	1
280107	Uncoated toffee or fudge e.g. Toffos, chocolate eclairs, caramels	EO	✓	1
280108	Pick 'n' mix, nougat, liquorice & other sweets	EO	✓	1
290101	Ice cream in a cone, cornet or wafer and ice cream desserts	EO	✓	1
290103	Ice cream scoop or tub including ice cream served with dessert	EO	✓	1
290104	Iced Iollies and sorbets	EO	✓	1
290201	Doughnut	EO	✓	1
290202	Cream pastries e.g. choc eclairs, profiteroles	EO	✓	1
290203	Cream sponge or gateau (not chocolate)	EO	✓	1
290204	Rich chocolate cake or chocolate gateau	EO	✓	1
290205	Fruit and other pies or pastries	EO	✓	1
290206	Fruit cake	EO	✓	1
290207	Other sponge cakes or desserts (not cream)	EO	✓	1
290208	Custard desserts or sweet soufflé	EO	✓	1
290209	Meringue desserts including pavlova	EO	✓	1
290210	Cheesecake	EO	✓	1
290211	Fool, trifle and mousse desserts	EO	✓	1
290212	Jelly	EO	✓	1
290213	Milk and rice puddings inc tapioca, semolina	EO	✓	1
290214	Other cakes and desserts	EO	✓	1
290301	Waffles and pancakes	EO	✓	1
290401	Teacakes, scones, currant buns, iced buns	EO	✓	1
300101	Fully-coated chocolate biscuits or wafers	EO	✓	1
300102	Sweet biscuits including half-coated choc	EO	✓	1
300103	Cereal bars and cereal based cakes	EO	✓	1
300104	Savoury biscuits	EO	✓	1
310101	Nuts, nut products and seeds	EO	✓	1
310102	Potato crisps or savoury snacks	EO	✓	1
310103	Cornsnacks, based on maize	EO	✓	1
310104	Wheat based savoury snack	EO	✓	1
310201	Popcorn	EO	✓	1
310301	Other savoury snacks (inc hors d'oeuvres)	EO	✓	1

HH = Household; EO = Eating Out

Кеу
Food - no factor required
Food - cooked edible weight factor
Food - dried weight factor & eggs

## Appendix 4: Energy Density Coding Frame

## No nutritional information

Milk

Other energy containing NA drinks

No / low energy drinks

Alcohol

## Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

The following figures for estimated waste are from the Waste and Resource Action Programme Survey (WRAP) (2008). The incorporation of these figures in the estimation of food and nutrient intakes from the EFS were discussed in the Annex of the 2007 Family Food report (Department for Environment Food & Rural Affairs (Defra), 2008) and were mapped to the EFS food codes for this purpose by Defra (personal communication).

Defra Code	Description	Single Adult Waste	Multiple Adult Waste
402	UHT whole milk	0.1	0.1
403	Sterilised whole milk	0.1	0.1
404	Pasteurised or homogenised whole milk	0.1	0.1
501	School Milk	0.1	0.1
601	Welfare milk	0.1	0.1
901	Condensed or evaporated milk	0.1	0.1
1102	Infant or baby milks - ready to drink	0.1	0.1
1103	Infant or baby milks - dried	0.1	0.1
1201	Instant dried milk	0.1	0.1
1301	Yoghurt	0.1146	0.0802
1302	Fromage frais	0.1	0.1
1502	Fully skimmed milk	0.1	0.1
1503	Semi-skimmed milk	0.1	0.1
1603	Dairy desserts - not frozen	0.1	0.1
1605	Dried milk products	0.1	0.1
1606	Milk drinks & other milks (replaced 200405 onwards)	0.1	0.1
1607	Milk drinks & other milks (replaced 200403 onwards)	0.1	0.1
1608	Non-dairy milk substitutes	0.1	0.1
1701	Cream	0.1222	0.096
2201	Hard cheese - Cheddar type	0.1222	0.096
2201			
	Hard cheese - Other UK or foreign equivalent	0.0883	0.0829
2203	Hard cheese - Edam or other foreign	0.0883	0.0829
2205	Cottage cheese	0.0883	0.0829
2206	Soft natural cheese	0.0883	0.0829
2301	Processed cheese	0.0883	0.0829
3102	Beef joints - on the bone	0.0815	0.0457
3103	Beef joints - boned	0.0815	0.0457
3104	Beef steak - less expensive	0.0815	0.0457
3105	Beef steak - more expensive	0.0815	0.0457
3106	Minced beef	0.0815	0.0457
3107	All other beef and veal	0.0815	0.0457
3601	Mutton	0.0224	0.0262
3602	Lamb joints	0.0224	0.0262
3603	Lamb chops	0.0224	0.0262
3604	All other lamb	0.0224	0.0262
4101	Pork joints	0.2041	0.133
4102	Pork chops	0.2041	0.133
4103	Pork fillets and steaks	0.2041	0.133
4104	All other pork	0.2041	0.133
4603	Ox liver	0.0815	0.0457
4604	Lambs liver	0.0224	0.0262
4605	Pigs liver	0.2041	0.133
4607	All other liver	0.0584	0.0401
5101	All offal other than liver	0.0584	0.0401
5502	Bacon and ham joints, uncooked	0.2041	0.133
5505	Bacon and ham rashers, uncooked	0.2041	0.133
5801	Ham and bacon	0.2041	0.133
5903	Cooked chicken and turkey	0.1855	0.0837
5904	Takeaway chicken	0.1855	0.0837
6201	Corned beef - canned or sliced	0.0815	0.0457

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

6601	Other cooked meat	0.0584	0.0401
7102	Other canned meat and canned meat products	0.0584	0.0401
7401	Chicken - whole or part	0.1855	0.0837
7703	Turkey - whole or part	0.1855	0.0837
7704	Poultry other than chicken or turkey	0.1855	0.0837
7801	Other fresh, chilled or frozen meat	0.0584	0.0401
7901	Sausages, uncooked - pork	0.0584	0.0401
8001	Sausages, uncooked - beef etc.	0.0584	0.0401
8302	Meat pies - ready to eat	0.2563	0.29
8303	Sausage rolls - ready to eat	0.2563	0.29
8401	Meat pies, pasties and puddings - frozen or not frozen	0.2563	0.29
8501	Burgers - frozen or not frozen	0.0584	0.0401
8901	Complete meat-based ready meals - frozen or not frozen	0.2563	0.0401
8902	Other convenience meat products - frozen or not frozen	0.2563	0.29
9301	Pate	0.1324	0.23
9302	Delicatessen type sausages	0.0584	0.0733
9403	Meat pastes and spreads	0.0384	0.0401
9 <del>4</del> 03 9501	Takeaway meat pies and pasties	0.1324	0.0755
9501			
9502	Takeaway burger and bun	0.2563	0.29
	Takeaway kebabs	0.2563	0.29
9504	Takeaway sausages and saveloys	0.2563	0.29
9505	Takeaway meat based meals	0.2563	0.29
9506	Takeaway miscellaneous meats	0.2563	0.29
10201	White fish, fresh or chilled	0.096	0.0418
10202	White fish, frozen	0.096	0.0418
10601	Herrings and other blue fish, fresh or chilled	0.096	0.0418
10602	Herrings and other blue fish, frozen	0.096	0.0418
10701	Salmon, fresh or chilled	0.096	0.0418
10702	Salmon, frozen	0.096	0.0418
10801	Blue fish, dried or salted or smoked	0.096	0.0418
11401	White fish, dried or salted or smoked	0.096	0.0418
11702	Shellfish, fresh or chilled	0.2178	0.0621
11703	Shellfish, frozen	0.2178	0.0621
11801	Takeaway fish	0.096	0.0418
11901	Tinned salmon	0.096	0.0418
12001	Other tinned or bottled fish	0.096	0.0418
12103	Ready meals and other fish products - frozen or not frozen	0.2563	0.29
12304	Takeaway fish products	0.2563	0.29
12305	Takeaway fish based meals	0.2563	0.29
12901	Eggs	0.073	0.0463
13501	Butter	0.0386	0.0176
13801	Soft margarine	0.0386	0.0176
13802	Other margarine	0.0386	0.0176
13901	Lard, cooking fat	0.1267	0.091
14304	Olive Oil	0.1267	0.091
14305	Other vegetable and salad oils	0.1267	0.091
14802	Reduced fat spreads	0.0386	0.0176
14803	Low fat spreads	0.0386	0.0176
14805	Suet and dripping	0.0584	0.0401
14807	Imitation cream	0.1	0.1
15001	Sugar	0.1267	0.091
15101	Jams and fruit curds	0.1267	0.091
15201	Marmalade	0.1267	0.091
15301	Syrup, treacle	0.1267	0.091
15401	Honey	0.1267	0.091
15501	Potatoes - bought Jan-Aug, previous year's crop	0.3718	0.2416
15502	Potatoes - bought Jan-Aug, this year's crop	0.3718	0.2416
15503	Potatoes - bought Sep-Dec, current crop or new imported	0.3718	0.2416
15504	Fresh potatoes not specified elsewhere	0.3718	0.2416
15505	Fresh new potatoes	0.3718	0.2416
15506	Fresh baking potatoes	0.3718	0.2416

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

16201	Fresh cabbages	0.7014	0.4155
16301	Fresh brussels sprouts	0.1701	0.0794
16401	Fresh cauliflower	0.1449	0.1019
16701	Lettuce and leafy salads	0.5069	0.3519
16702	Prepared lettuce salads	0.6023	0.4633
16801	Fresh peas	0.0917	0.0417
16901	Fresh beans	0.5589	0.3071
17101	Other fresh green vegetables	0.2589	0.1589
17201	Fresh carrots	0.3835	0.1681
17301	Fresh turnips and swede	0.1231	0.0669
17401	Other fresh root vegetables	0.225	0.1511
17501	Fresh onions, leeks and shallots	0.2143	0.1408
17601	Fresh cucumbers	0.3717	0.2357
17701	Fresh mushrooms	0.1483	0.104
17801	Fresh tomatoes	0.1582	0.0926
18301	Fresh vegetable stew pack, stir-fry pack etc.	0.3429	0.2301
18302	Fresh stem vegetables	0.6075	0.453
18303	Fresh marrow, courgettes, aubergine, pumpkin and other vegetables	0.1691	0.1147
18304	Fresh herbs	0.1267	0.091
18401	Tomatoes, canned or bottled	0.1582	0.0926
18501	Peas, canned	0.0917	0.0417
18802	Baked beans in sauce	0.0828	0.0309
18803	Other canned beans and pulses	0.2589	0.1589
19101	Other canned vegetables	0.2589	0.1589
19201	Dried pulses, other than air-dried	0.2589	0.1589
19501	Air-dried vegetables	0.3429	0.2301
19602	Tomato puree and vegetable purees	0.1267	0.2301
19603	Vegetable juices e.g. tomato juice, carrot juice	0.1207	0.031
19702	Chips - frozen or not frozen	0.3718	0.2416
19702	Takeaway chips	0.3718	0.2416
19801	Instant potato	0.3718	0.2416
19901	Canned potatoes	0.3718	0.2416
20002	Crisps and potato snacks	0.3718	
20002	Other potato products - frozen or not frozen		0.0809
		0.3718	0.2416
20301	Peas, frozen	0.0917	0.0417
20401	Beans, frozen	0.5589	0.3071
20601	Ready meals and other vegetable products - frozen or not frozen	0.2563	0.29
20604	All vegetable takeaway products	0.2563	0.29
20801	Other frozen vegetables	0.2589	0.1589
21001	Fresh oranges	0.3382	0.2325
21401	Other fresh citrus fruits	0.0536	0.041
21701	Fresh apples	0.6627	0.2772
21801	Fresh pears	0.1442	0.1929
22101	Fresh stone fruit	0.2036	0.1797
22201	Fresh grapes	0.0833	0.0778
22701	Other fresh soft fruit	0.433	0.2521
22801	Fresh bananas	0.1545	0.082
22901	Fresh melons	0.2848	0.1797
23101	Other fresh fruit	0.1404	0.0938
23301	Tinned peaches, pears and pineapples	0.0806	0.0899
23601	All other tinned or bottled fruit	0.0806	0.0899
24001	Dried fruit	0.0806	0.0899
24101	Frozen strawberries, apple slices, peach halves, oranges and other frozen fruits	0.0806	0.0899
24502	Nuts & edible seeds	0.0228	0.043
24503	Peanut butter	0.0228	0.043
24801	Pure fruit juices	0.0228	0.043
25102	White bread, standard, unsliced	0.3335	0.1
25202	White bread, standard, sliced	0.3335	0.2399
25701	White bread, premium, sliced and unsliced	0.3335	0.2399
25801	White bread, soft grain, sliced and unsliced	0.3335	0.2399

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

25901 Brown bread, sliced and unsliced	0.3335	0.2399
26001 Wholemeal and granary bread, sliced and unsliced	0.3335	0.2399
	0.3942	0.1718
·	0.0861	0.0241
	0.3942	0.0241
	0.3335	0.1710
	0.3349	
		0.4585
	0.2563	0.29
,	0.2563	0.29
,	0.3349	0.4585
	0.0677	0.0641
·	0.1239	0.1163
	0.2802	0.1703
7 1	0.2802	0.1703
·	0.0539	0.0438
27402 Sweet biscuits (not chocolate) and cereal bars	0.0539	0.0438
27403 Cream crackers and other unsweetened biscuits	0.0539	0.0438
27702 Chocolate biscuits	0.0539	0.0438
28101 Oatmeal and oat products	0.0275	0.0224
·	0.0275	0.0224
	0.0275	0.0224
-	0.0275	0.0224
	0.0275	0.0224
	0.0638	0.0283
	0.0638	0.0283
	0.0638	0.0283
	0.2335	
		0.1402
	0.2335	0.1402
·	0.2335	0.1402
• • •	0.0448	0.0656
	0.1	0.1
·	0.2802	0.1703
•	0.2563	0.29
·	0.1848	0.1595
7 1	0.2563	0.29
	0.2563	0.29
, ,	0.2563	0.29
29907 Cake, pudding and dessert mixes	0.298	0.4353
29909 Cereal snacks	0.0275	0.0224
29915 Quiches and flans - frozen and not frozen	0.2563	0.29
29916 Takeaway crisps, savoury snacks, popcorn, poppadums, prawn crackers	0.1239	0.0809
29919 Other cereal foods - frozen and not frozen	0.0275	0.0224
	0	0
	0.1	0.1
	0.1	0.1
	0.1	0.1
	0.1	0.1
	0.1	0.1
-	0.0448	0.0656
	0.0448	0.0656
	0.0448	0.0030
	0.1	0.1
·	0.2563	0.29
	0.0448	0.0656
·	0.2563	0.29
·	0.2563	0.29
32201 Meals on wheels - items not specified	0.2563	0.29
	0.1267	0.091

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

32303	Other spreads and dressings	0.1267	0.091
32702	Pickles	0.1267	0.091
32703	Sauces	0.1267	0.091
32704	Takeaway sauces and mayonnaise	0.1267	0.091
32801	Stock cubes and meat and yeast extracts	0.298	0.4353
32901	Jelly squares or crystals	0.0638	0.0283
33203	Ice cream tub or block	0.0638	0.0283
33302	Ice cream cornets, choc-ices, lollies with ice cream	0.0638	0.0283
33303	Ice Iollies, sorbet, frozen mousse, frozen yoghurt	0.0638	0.0283
33304	Takeaway ice cream, ice cream products, milkshakes	0.0638	0.0283
33401	Salt	0.1267	0.091
33501	Artificial sweeteners	0.1267	0.091
33602	Vinegar	0.1267	0.091
33603	Spices and dried herbs	0.1267	0.091
33604	Bisto, gravy granules, stuffing mix, baking powder, yeast	0.298	0.4353
33605	Wine and beer making kits	0.1	0.1
33606	Fruit teas, instant tea, herbal tea, rosehip tea	0.1	0.1
33607	Payment for food, type not specified	0.1	0.1
33901	Soya and novel protein foods	0.2589	0.1589
34001	Soft drinks, concentrated, not low calorie	0.1	0.1
34101	Soft drinks, not concentrated, not low calorie	0.1	0.1
34301	Soft drinks, concentrated, low calorie	0.1	0.1
34401	Soft drinks, not concentrated, low calorie	0.1	0.1
35001	Chocolate bars - solid	0.0958	0.0575
35101	Chocolate bars - filled	0.0958	0.0575
35202	Chewing gum	0.1239	0.0809
35301	Mints	0.0958	0.0575
35302	Boiled sweets	0.0958	0.0575
35401	Fudges, toffees, caramels	0.0958	0.0575
35501	Takeaway confectionery	0.0958	0.0575
38102	Beers	0.1	0.1
38202	Lagers and continental beers	0.1	0.1
38302	Ciders and perry	0.1	0.1
38402	Champagne, sparkling wines and wine with mixer	0.1	0.1
38403	Table wine	0.1	0.1
38501	Spirits with mixer	0.1	0.1
38601	Fortified wines	0.1	0.1
38701	Spirits	0.1	0.1
38801	Liqueurs and cocktails	0.1	0.1
38901	Alcopops	0.1	0.1
100101	Meat or fish based curry with sauce	0	0
100102	Meat or fish based curry without sauce	0	0
100103	Vegetable or fruit based curry	0	0
100104	Dhal and dhal dishes	0	0
100105	Samosas	0	0
100106	Other Indian dishes	0	0
100107	Indian breads	0	0
100108	Indian buffet or shared meal or unspecified Indian meal	0	0
100201	Chinese or Thai meat or fish based dishes excluding curry	0	0
100202	Chop suey and fu yung dishes	0	0
100203	Chinese or Thai vegetable based main course dishes excluding curry	0	0
100204	Chinese or Thai curry	0	0
100205	Spring rolls	0	0
100205	Other Chinese or Thai dishes	0	0
100207	Chinese or Thai buffet or shared meal or unspecified Chinese or Thai meal	0	0
100301	All other ethnic meals	0	0
IUCOUI		-	-
110101	Steak - without sauce e.g. braised, sirloin	0	0

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

440400			
110103	Pork chops with sauce or gravy	0	0
110104	Lamb chops with sauce or gravy	0	0
110105	Spare ribs	0	0
110106	Bacon	0	0
110107	Gammon or ham	0	0
110108	All offal including liver, kidney, tongue	0	0
110201	Chicken or turkey with sauce or gravy	0	0
110202	Chicken or turkey in breadcrumbs or batter	0	0
110203	Duck with sauce or gravy	0	0
110204	Game with sauce or gravy	0	0
110301	Small or single burgers	0	0
110302	Large or double burgers	0	0
110303	Chicken burger	0	0
110401	Kebabs - all types including chicken	0	0
110402	Plain sausages e.g. beef, pork	0	0
110403	Other sausages	0	0
110404	Hot dogs and sausage sandwiches	0	0
110501	Meat pies (pastry topped) and pasties	0	0
110502	Meat pies (potato topped e.g. shepherd's pie)	0	0
110503	Sausage roll (pastry)	0	0
110601	Meat and vegetable stews, casseroles or hotpots	0	0
110602	Chicken or turkey stews, casseroles or hotpots	0	0
110602	Meat lasagne, cannelloni, moussaka and other meat-based oven baked	0	0
110003	dishes	U	U
110701	All pates	0	0
	•	0	0
110801	Other meat products or dishes	-	
120101	White fish - grilled, steamed, baked or boiled - without sauce	0	0
120102	White fish - fried (incl. in batter/breadcrumbs) - without sauce	0	0
120201	Trout, tuna and salmon only - fresh - without sauce or dressing	0	0
120202	Other fatty fish - without sauce or dressing e.g. herring, mackerel, sardines	0	0
120301	Shellfish - without sauce or dressing e.g. prawns, shrimps, oysters, crab	0	0
120401	Kippers and other smoked fish e.g. smoked salmon	0	0
120501	Other fish products and unspecified 'fish' e.g. squid, sushi, crabsticks	0	0
120601	Fish, processed, in breadcrumbs (fish fingers, fish cakes, scampi) - without sauce or dressing	0	0
120602	Fish burgers (in bun)	0	0
120603	Fish based pie or other dish e.g. paella, kedgeree, tuna pasta bake	0	0
130101	Cottage cheese including with pineapple	0	0
130102	Soft, continental or processed cheese e.g. brie	0	0
130103	Cheddar, blue or other hard cheese and unspecified 'cheese'	0	0
130104	Quiche and cheese pies or pasties	0	0
130105	Other cheese dishes e.g. Welsh rarebit, cheese and biscuits	0	0
130201	Pizza - cheese and tomato, vegetable or unspecified 'pizza'	0	0
130201	Pizza - meat, fish or poultry	0	0
130301	Eggs - boiled or poached	0	0
130301	Eggs - scrambled, fried, omelettes or unspecified 'egg'	0	0
130302	Other egg dishes e.g. egg mayonnaise	0	0
140101	Chips and French fries - from fast food outlet e.g. McDonalds		0
		0	
140102	Chips - served with meal e.g. from restaurant or chip shop	0	0
140103	Potatoes - boiled or unspecified 'potato'	0	0
140104	Potatoes - mashed	0	0
140105	Potatoes - roast	0	0
140106	Sautéed potatoes, potato croquettes, hash browns etc.	0	0
140107	Baked or jacket potatoes - without filling	0	0
140108	Other potato dishes (e.g. wedges, potato salad) including unspecified 'potato dish'	0	0
150101	Lettuce and cress	0	0

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

150102	Other green vegetables e.g. spinach, cabbage, sprouts	0	0
150102	Peppers - raw or cooked	0	0
150201	Courgettes, marrow, aubergine, pumpkin, plantain, cucumbers	0	0
150202	Peas and sweetcorn	0	0
150203	Baked beans and other beans (not green beans) and pulses	0	0
150204	Tomato - fresh or raw	0	0
		-	-
150206	Tomato - cooked or processed	0	0
150301	Carrots	_	-
150302	Onions - raw, cooked or unspecified 'onions'	0	0
150303	Onions - fried	0	0
150304	Other root vegetables or tubers e.g. turnip, parsnip, radish, beetroot	0	0
150401	Mushrooms - raw or cooked	0	0
150501	Mixed vegetables or unspecified 'vegetable'	0	0
150502	Other vegetables e.g. artichoke, asparagus	0	0
150503	Vegetables in batter or breadcrumbs and deep fried vegetables e.g. onion rings	0	0
150504	Onion and other vegetable bhajis and pakora	0	0
150601	Veggie burger, bean burger, veggie sausage, nut roast	0	0
150602	Vegetable lasagne, vegetable cannelloni, vegetable moussaka and other oven baked vegetable based dishes	0	0
150603	Stuffed vegetables (e.g. stuffed pepper) and vegetable based starter	0	0
150604	Vegetable based stews and casseroles and vegetable based pies	0	0
160101	Mixed salad, main course - without dressing	0	0
160102	Mixed salad, side dish - without dressing - including unspecified 'salad'	0	0
160103	Green salad - without dressing	0	0
160201	Vegetable or fruit and nut salad - with dressing	0	0
160202	Pasta, rice, mixed bean or cereal-based salads - with dressing	0	0
160301	Meat salad e.g. beef, lamb salads	0	0
160302	Chicken or turkey salad	0	0
160303	Fish salad e.g. tuna, salmon salads	0	0
160401	Cheese salad including ploughman's	0	0
160402	Egg salad	0	0
160501	Other salads e.g. Greek, Florida, Russian	0	0
160601	Salad buffet or buffet meal where items not specified	0	0
170101	Fried rice and risotto	0	0
170102	All cooked rice excluding fried rice e.g. boiled, pilau, savoury	0	0
170103	Pasta - not filled and plain noodles (including pot noodle) - without	0	0
	sauce		
170104	Pasta - filled e.g. ravioli, tortellini - without sauce	0	0
170105	Noodles with meat, vegetables etc.	0	0
180101	Meat & fish soups	0	0
180102	Vegetable based soups	0	0
180103	Chinese soups, consommé (meat, fish or veg)	0	0
180104	Other soups including unspecified 'soup'	0	0
190101	Muesli and oat crunch cereals	0	0
190102	Other high fibre breakfast cereals e.g. Allbran, Weetabix	0	0
190103	Sweetened breakfast cereals e.g. Frosties, Sugar Puffs	0	0
190104	Hot breakfast cereals e.g. porridge, Ready Brek	0	0
190105	Other breakfast cereals and unspecified 'cereal' e.g. Cornflakes, Rice Krispies, Special K	0	0
200101	All citrus fruit, fresh e.g. orange, grapefruit	0	0
200102	Banana, fresh	0	0
200103	Apples, fresh	0	0
200104	Pears, fresh	0	0
200105	Stone fruit, fresh e.g. apricot, plum, peach, cherry, avocado	0	0
200106	Grapes, fresh	0	0
200107	Soft fruit or berries, fresh e.g. strawberries, blackberries - without cream or ice cream	0	0
200108	Melon, fresh	0	0
	,		1 -

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

200109	Pineapple, fresh	0	0
200110	Fresh fruit salad - without cream or ice cream	0	0
200111	Other fresh fruit (kiwi, passion) and unspecified 'fruit'	0	0
200112	Free school fruit	0	0
200201	Dried fruit e.g. sultanas, raisins	0	0
200301	Tinned, stewed, baked or processed fruit - without cream or ice cream	0	0
210101	Yoghurt and fromage frais	0	0
220101	White bread, with or without butter or margarine (toasted or untoasted)	0	0
220102	Brown or wholemeal bread, with or without butter or margarine (toasted or untoasted)	0	0
220103	White rolls, baguettes etc. without butter or margarine (or butter or margarine not specified)	0	0
220104	Brown or wholemeal rolls, baguettes etc. without butter or margarine (or butter or margarine not specified)	0	0
220105	Garlic bread	0	0
220106	Croissant	0	0
220107	Continental breads e.g. pitta, ciabatta, focaccia	0	0
220108	Muffins, crumpets	0	0
220109	Fried bread, including croutons	0	0
220110	Other bread, rolls, toast, unspecified 'bread' etc.	0	0
230101	Meat based sandwich on white bread or roll	0	0
230102	Meat based sandwich on brown bread or roll	0	0
230103	Meat based sandwich bread not specified	0	0
230104	Chicken or turkey based sandwich on white bread or roll	0	0
230105	Chicken or turkey based sandwich on brown bread or roll	0	0
230106	Chicken or turkey based sandwich bread not specified	0	0
230107	Bacon and egg based sandwich on white bread or roll including Bacon and Egg McMuffin	0	0
230108	Bacon and egg based sandwich on brown bread or roll	0	0
230109	Bacon and egg based sandwich bread not specified	0	0
230103	Fish based sandwich on white bread not specified	0	0
230110	Fish based sandwich on brown bread or roll	0	0
230111	Fish based sandwich bread not specified	0	0
230201	Cheese based sandwich on white bread or roll	0	0
		-	
230202	Cheese based sandwich on brown bread or roll	0	0
230203	Cheese based sandwich bread not specified	0	0
230204	Egg based sandwich on white bread or roll including Egg McMuffin	0	0
230205	Egg based sandwich on brown bread or roll	0	0
230206	Egg based sandwich bread not specified	0	0
230207	Vegetarian based sandwich on white bread or roll	0	0
230208	Vegetarian based sandwich on brown bread or roll	0	0
230209	Vegetarian based sandwich bread not specified	0	0
230210	Sweet-filled sandwich	0	0
230211	Unspecified sandwiches or rolls	0	0
240101	Cheese or cream based sauce e.g. carbonara, cauliflower cheese	0	0
240102	Meat-based sauce e.g. Bolognese, chilli con carne	0	0
240103	Fish or seafood based sauce	0	0
240104	Tomato based sauce containing vegetables including ratatouille	0	0
240105	Other savoury sauce or unspecified 'sauce'	0	0
240106	Sweet sauce e.g. syrup, treacle, chocolate sauce	0	0
240107	Fruit or vegetable based condiments	0	0
240108	Other condiments or sauces	0	0
240201	Salad dressings and dips	0	0
240202	Mayonnaise	0	0
240203	Coleslaw	0	0
240301	Fruit filling e.g. peaches for pancakes	0	0
240302	Vegetable filling	0	0
	V OGOLADIO IIIII IG	0	0

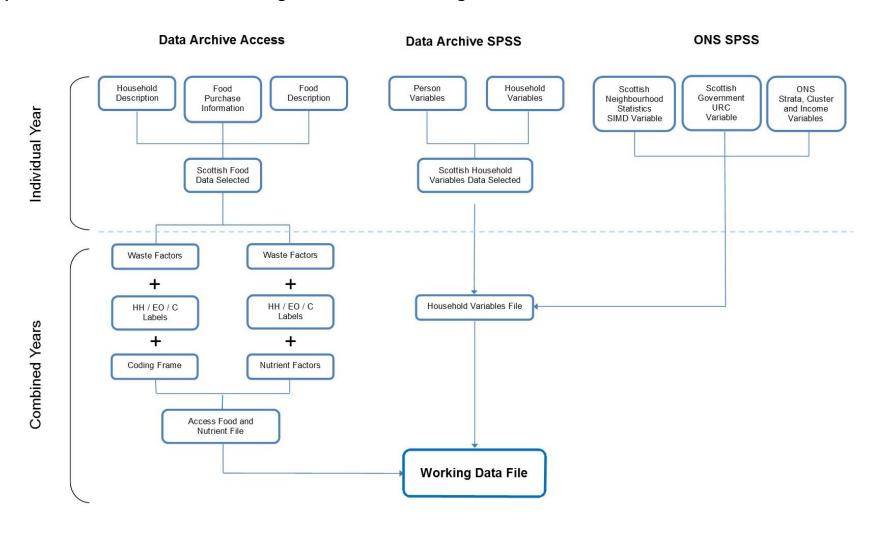
Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

240304	Fish based filling e.g. tuna mayonnaise	0	0
240401	Butter and margarine	0	0
240402	Jam, marmalade and honey	0	0
240403	Cream - single, double, sour etc.	0	0
240404	Custard	0	0
240405	Sugar (as an addition to tea, coffee etc.)	0	0
240501	Commercial baby food in a jar or can	0	0
240601	Yorkshire puddings and dumplings	0	0
240701	Unspecified meal e.g. 'meal', 'school meal' or 'meal at work'	0	0
250101	Coffee, black including espresso	0	0
250102	Coffee, white including cappuccino, latte	0	0
250103	Coffee, black or white not specified	0	0
250104	Tea, white (including black or white not specified)	0	0
250105	Tea, black including Chinese tea, herbal tea, fruit tea	0	0
250106	Hot chocolate or cocoa, with milk or water	0	0
260201	Mineral water	0	0
260201	Soft drink (incl. carbonates and still) - low calorie	0	0
260203	Soft drink (incl. carbonates & still) - not low calorie (including drinks	0	0
200203	where calorie content unspecified)	0	0
260204	Pure fruit juices	0	0
260204	Vegetable juices e.g. tomato juice, carrot juice	0	0
260205	Soft drink where pure juice or juice drink not specified	0	0
260206	Milk as a drink	0	0
260301	Milk on cereal	0	0
260302	Milkshake and flavoured milk	0	0
260303	Free school milk	0	0
270101	Spirits	0	0
270101	Liqueurs	0	0
270102	Cocktails	0	0
270103	Spirits or liqueurs with mixer e.g. gin & tonic, Bacardi & coke	0	0
270104	Wine (not sparkling) including unspecified 'wine'	0	0
	Sparkling wines (e.g. Champagne) and wine with mixer (e.g. Bucks	-	-
270202	Fizz)	0	0
270203	Fortified wine e.g. sherry, port, vermouth	0	0
270204	Cider or perry - half pint or bottle	0	0
270205	Cider or perry - pint or can or size not specified	0	0
270206	Alcoholic soft drinks (alcopops), and ready-mixed bottled drinks	0	0
270301	Bitter - half pint or bottle	0	0
270302	Bitter - pint or can or size not specified	0	0
270303	Lager or other beers including unspecified 'beer' - half pint or bottle	0	0
270304	Lager or other beers including unspecified 'beer' - pint or can or size not specified	0	0
270401	Round of drinks, alcohol not otherwise specified	0	0
280101	Solid, unfilled chocolate bars and sweets and unspecified 'chocolate'	0	0
280102	Filled chocolate-coated bars and sweets e.g. Mars, Snickers, Minstrels	0	0
280103	Single chocolate (after dinner)	0	0
280104	Chewing gum and bubble gum	0	0
280105	Mints e.g. Polo, Extra Strong	0	0
280106	Boiled sweets, jellies and unspecified 'sweets' e.g. fruit gums	0	0
280107	Uncoated toffee or fudge, uncoated e.g. Toffos, chocolate éclairs, caramels	0	0
280108	Pick 'n' mix, nougat, liquorice and other sweets	0	0
290101	Ice cream in a cone, cornet or wafer and ice cream desserts	0	0
290103	Ice cream scoop or tub including ice cream served with dessert	0	0
290104	Iced Iollies and sorbets	0	0
290201	Doughnut	0	0
	-	0	0
290202	Cream pasines e.g. chocolaie eclairs, promercies	U	
290202 290203	Cream pastries e.g. chocolate éclairs, profiteroles Cream sponge or gateau (not chocolate) e.g. Victoria sandwich	0	0

Appendix 5: Defra Food Codes with Recommended Estimates of Edible Food Waste

290205	Fruit and other pies or pastries	0	0
290206	Fruit cake	0	0
290207	Other sponge cakes or desserts (not cream cakes)	0	0
290208	Custard desserts or sweet soufflé	0	0
290209	Meringue desserts including pavlova	0	0
290210	Cheesecake	0	0
290211	Fool, trifle and mousse desserts	0	0
290212	Jelly	0	0
290213	Milk and rice puddings including tapioca, semolina	0	0
290214	Other cakes and desserts, unspecified 'cake' or 'dessert'	0	0
290301	Waffles and pancakes	0	0
290401	Teacakes, scones, currant buns, iced buns	0	0
300101	Fully-coated chocolate biscuits or wafers	0	0
300102	Sweet biscuits including half-coated chocolate biscuits	0	0
300103	Cereal bars and cereal based cakes	0	0
300104	Savoury biscuits	0	0
310101	Nuts, nut products and seeds	0	0
310102	Potato crisps or snacks including unspecified 'crisps', prawn crackers	0	0
310103	Corn snacks, based on maize	0	0
310104	Wheat based savoury snack	0	0
310201	Popcorn	0	0
310301	Other savoury snacks (including hors d'oeuvres)	0	0

### **Appendix 6: Flowchart of Data Handling Process for Monitoring Work**



HH = Household; EO = Eating Out; C = Combined; SIMD = Scottish Index of Multiple Deprivation; URC = Urban Rural Classification; ONS = Office for National Statistics

# Appendix 7: Food Groupings Used for Contributing Foods Analysis<sup>1</sup>

Food Grouping Code	Food Grouping Description	Weight <sup>2</sup>	Secondar y Food Grouping Code	Secondary Food Grouping Description	Weight <sup>2</sup>
48	Semi-skimmed Milk	132	62	Total Milk	197
49	Skimmed Milk	11.8			
67	Whole Milk	37.8			
28	Milk Drinks	1.4			
69	Yoghurt and Fromage Frais	23.8			
11	Cream	3.6			
23	Low Fat Cheese	0.4	60	Total Cheese	14.5
27	Medium Fat Cheese	5.3			
19	Full Fat Cheese	8.9			
3	Block Margarine	0.1			
9	Cooking Fat	0.3			
10	Cooking Oil	6.3			
6	Butter	7.7	52	Total Spreading Fats	14.5
50	Soft Margarine	1.7			
43	Reduced and Low Fat Spread	5.0			
15	Eggs	0.8			
17	Fruit	88.2	61	Total Fruit and Vegetables	230
18	Fruit (and veg) juice	36.8			
66	Vegetables	105			
51	Soup	14.7			
37	Potatoes	40.1			
40	Processed Potatoes	29.0			
65	Unprocessed Red Meat	23.1			
2	Bacon and Ham	13.8	63	Total Processed Red Meat	59.9
5	Burgers and Kebabs	6.0			
26	Meat Filled Pastry	8.7			
45	Sausages	13.7			
33	Other processed meat	17.7			
38	Poultry	28.4			
41	Processed Poultry	1.0			
64	Unprocessed Fish	9.6			
39	Processed Fish	3.7			
30	Non Meat Savoury Pastry	1.3			
34	Pasta, Rice and Noodles	23.8			
36	Pizza	11.1			
16	Flour	5.1			
24	Low fibre and lower NMES Breakfast Cereal	4.4	59	Total Breakfast Cereal	20.4
25	Low fibre or high NMES Breakfast Cereal	4.4	-		
68	Wholegrain/ high fibre Breakfast Cereal	11.6			
4	Bread and Rolls	56.7			
32	Other Baked Goods	12.4			
7	Cakes, Pastries and Puddings	16.5			

Appendix 7: Food Groupings Used for Contributing Foods Analysis

29	Milk Puddings	3.2			
20	Ice Cream and Dairy Desserts	32.9			
22	Jelly, Ice Lollies and Sorbets	0.9			
21	Jam, marmalade, honey and sweet spreads	5.6			
53	Sugar	9.1			
8	Chocolate Confectionery	13.5	70	Total Confectionery	21.2
54	Sugar Confectionery	7.7			
57	Sweet Biscuits	21.6			
46	Savoury Biscuits	2.4			
47	Savoury Sauces and Dressings	22.2			
42	Ready Meals	20.7			
58	Takeaway Main Meal Component	4.6			
13	Eating Out Main Meal Component	6.7			
14	Eating Out Side Dish	0.5			
44	Sandwiches	11.4			
12	Crisps and Savoury Snacks	13.4			
31	Nuts	3.3			
35	Peanut Butter	0.7			
55	Sugar Containing Soft Drinks	156			
56	Sugar Free Soft Drinks	133			
1	Alcoholic Drinks	123			
-8	Unclassified Foods	27.6			
-9	Foods of Little Nutritional Value	68.6			
Total	1	1538			
				The state of the s	1

<sup>&</sup>lt;sup>1</sup>Appendix 8 provides detail on the breakdown of each of these food groupings by food code; <sup>2</sup>Average weight in grams, per food group, per person, per day - 2013-2015 data combined.

# Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

Food Code	Description	Food Grouping Code	Food Grouping Description	Factor
30401	Tea	-9	Foods of Little Nutritional Value	1
30701	Coffee beans and ground coffee	-9	Foods of Little Nutritional Value	1
30801	Instant coffee	-9	Foods of Little Nutritional Value	1
30901	Coffee essences	-9	Foods of Little Nutritional Value	1
31001	Tea and coffee from takeaway	-9	Foods of Little Nutritional Value	1
31401	Mineral or spring waters	-9	Foods of Little Nutritional Value	1
33401	Salt	-9	Foods of Little Nutritional Value	1
250101	Coffee, black including espresso	-9	Foods of Little Nutritional Value	1
250102	Coffee, white including cappuccino, latte	-9	Foods of Little Nutritional Value	1
250103	Coffee, black or white not specified	-9	Foods of Little Nutritional Value	1
250104	Tea, white (including black or white not specified)	-9	Foods of Little Nutritional Value	1
250105	Tea, black including Chinese tea, herbal tea, fruit tea	-9	Foods of Little Nutritional Value	1
260201	Mineral water	-9	Foods of Little Nutritional Value	1
14807	Imitation cream	-8	Unclassified Foods	1
29001	Invalid foods, slimming foods and sports foods	-8	Unclassified Foods	1
29101	Infant cereal foods	-8	Unclassified Foods	1
29919	Other cereal foods - frozen and not frozen	-8	Unclassified Foods	1
30101	Other cereals	-8	Unclassified Foods	1
31501	Baby foods	-8	Unclassified Foods	1
32201	Meals on wheels - items not specified	-8	Unclassified Foods	1
32801	Stock cubes and meat and yeast extracts	-8	Unclassified Foods	1
33901	Soya and novel protein foods	-8	Unclassified Foods	1
35202	Chewing gum	-8	Unclassified Foods	1
240501	Commercial baby food in a jar or can	-8	Unclassified Foods	1
240601	Yorkshire puddings and dumplings	-8	Unclassified Foods	1
240701	Unspecified meal e.g. 'meal', 'school meal' or 'meal at work'	-8	Unclassified Foods	1
280104	Chewing gum and bubble gum	-8	Unclassified Foods	1
310201	Popcorn	-8	Unclassified Foods	1
310301	Other savoury snacks (including hors d'oeuvres)	-8	Unclassified Foods	1
38102	Beers	1	Alcoholic Drinks	1
38202	Lagers and continental beers	1	Alcoholic Drinks	1
38302	Ciders and perry	1	Alcoholic Drinks	1
38402	Champagne, sparkling wines and wine with mixer	1	Alcoholic Drinks	1
38403	Table wine	1	Alcoholic Drinks	1
38501	Spirits with mixer	1	Alcoholic Drinks	0.15
38601	Fortified wines	1	Alcoholic Drinks	1
38701	Spirits	1	Alcoholic Drinks	1
38801	Liqueurs and cocktails	1	Alcoholic Drinks	1
38901	Alcopops	1	Alcoholic Drinks	0.15
270101	Spirits	1	Alcoholic Drinks	1
270102	Liqueurs	1	Alcoholic Drinks	1
270103	Cocktails	1	Alcoholic Drinks	1
270104	Spirits or liqueurs with mixer e.g. gin & tonic, Bacardi & coke	1	Alcoholic Drinks	0.15

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

270201	Wine (not sparkling) including unspecified 'wine'	1	Alcoholic Drinks	1
270202	Sparkling wines (e.g. Champagne) and wine with mixer (e.g. Bucks Fizz)	1	Alcoholic Drinks	1
270203	Fortified wine e.g. sherry, port, vermouth	1	Alcoholic Drinks	1
270204	Cider or perry - half pint or bottle	1	Alcoholic Drinks	1
270205	Cider or perry - pint or can or size not specified	1	Alcoholic Drinks	1
270206	Alcoholic soft drinks (alcopops), and ready-mixed bottled drinks	1	Alcoholic Drinks	0.15
270301	Bitter - half pint or bottle	1	Alcoholic Drinks	1
270302	Bitter - pint or can or size not specified	1	Alcoholic Drinks	1
270303	Lager or other beers including unspecified 'beer' - half pint or bottle	1	Alcoholic Drinks	1
270304	Lager or other beers including unspecified 'beer' - pint can or size not	1	Alcoholic Drinks	1
270401	specified  Round of drinks, alcohol not otherwise specified	1	Alcoholic Drinks	1
5502	Bacon and ham joints, uncooked	2	Bacon and Ham	1
5505	Bacon and ham rashers, uncooked	2	Bacon and Ham	1
5801	Ham and bacon	2	Bacon and Ham	1
110106	Bacon	2	Bacon and Ham	1
110107	Gammon or ham	2	Bacon and Ham	1
13802	Other margarine	3	Block Margarine	1
25102	White bread, standard, unsliced	4	Bread and Rolls	1
25202	White bread, standard, sliced	4	Bread and Rolls	1
25701	White bread, premium, sliced and unsliced	4	Bread and Rolls	1
25801	White bread, soft grain, sliced and unsliced	4	Bread and Rolls	1
25901	Brown bread, sliced and unsliced	4	Bread and Rolls	1
26001	Wholemeal and granary bread, sliced and unsliced	4	Bread and Rolls	1
26302	Rolls - white, brown or wholemeal	4	Bread and Rolls	1
26304	Vienna and French bread	4	Bread and Rolls	1
26305	Starch reduced bread and rolls	4	Bread and Rolls	1
220101	White bread, with or without butter or margarine (toasted or untoasted)	4	Bread and Rolls	1
220102	Brown or wholemeal bread, with or without butter or margarine (toasted or	4	Bread and Rolls	1
	untoasted)			
220103	White rolls, baguettes etc. without butter or margarine (or butter or margarine not specified)	4	Bread and Rolls	1
220104	Brown or wholemeal rolls, baguettes etc. without butter or margarine (or butter or margarine not specified)	4	Bread and Rolls	1
220108	Muffins, crumpets	4	Bread and Rolls	1
220110	Other bread, rolls, toast, unspecified 'bread' etc.	4	Bread and Rolls	1
8501	Burgers - frozen or not frozen	5	Burgers and Kebabs	1
9502	Takeaway burger and bun	5	Burgers and Kebabs	1
9503	Takeaway kebabs	5	Burgers and Kebabs	1
110301	Small or single burgers	5	Burgers and Kebabs	1
110302	Large or double burgers	5	Burgers and Kebabs	1
110401	Kebabs - all types including chicken	5	Burgers and Kebabs	1
13501	Butter	6	Butter	1
27001	Cakes and pastries, not frozen	7	Cakes, Pastries and Puddings	1
27002	Takeaway pastries	7	Cakes, Pastries and Puddings	1
28601	Puddings	7	Cakes, Pastries and Puddings	1
29402	Cakes and pastries - frozen	7	Cakes, Pastries and Puddings	1
29907	Cake, pudding and dessert mixes	7	Cakes, Pastries and Puddings	1
290201	Doughnut	7	Cakes, Pastries and Puddings	1
290202	Cream pastries e.g. chocolate éclairs, profiteroles	7	Cakes, Pastries and Puddings	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

290203	Cream sponge or gateau (not chocolate) e.g. Victoria sandwich	7	Cakes, Pastries and Puddings	1
290204	Rich chocolate cake or chocolate gateau e.g. Death by Chocolate	7	Cakes, Pastries and Puddings	1
290205	Fruit and other pies or pastries	7	Cakes, Pastries and Puddings	1
290206	Fruit cake	7	Cakes, Pastries and Puddings	1
290207	Other sponge cakes or desserts (not cream cakes)	7	Cakes, Pastries and Puddings	1
290209	Meringue desserts including pavlova	7	Cakes, Pastries and Puddings	1
290210	Cheesecake	7	Cakes, Pastries and Puddings	1
290214	Other cakes and desserts, unspecified 'cake' or 'dessert'	7	Cakes, Pastries and Puddings	1
35001	Chocolate bars - solid	8	Chocolate Confectionery	1
35101	Chocolate bars - filled	8	Chocolate Confectionery	1
280101	Solid, unfilled chocolate bars and sweets and unspecified 'chocolate'	8	Chocolate Confectionery	1
280102	Filled chocolate-coated bars and sweets and dispensed di	8	Chocolate Confectionery	1
280103	Single chocolate (after dinner)	8	Chocolate Confectionery	1
13901		9	· ·	1
	Lard, cooking fat		Cooking Fat	
14805	Suet and dripping	9	Cooking Fat	1
14304	Olive Oil	10	Cooking Oil	1
14305	Other vegetable and salad oils	10	Cooking Oil	1
1701	Cream	11	Cream	1
240403	Cream - single, double, sour etc.	11	Cream	1
20002	Crisps and potato snacks	12	Crisps and Savoury Snacks	1
29909	Cereal snacks	12	Crisps and Savoury Snacks	1
29916	Takeaway crisps, savoury snacks, popcorn, poppadums, prawn crackers	12	Crisps and Savoury Snacks	1
310102	Potato crisps or snacks including unspecified 'crisps', prawn crackers	12	Crisps and Savoury Snacks	1
310103	Cornsnacks, based on maize	12	Crisps and Savoury Snacks	1
310104	Wheat based savoury snack	12	Crisps and Savoury Snacks	1
100101	Meat or fish based curry with sauce	13	Eating Out Main Meal Component	1
100102	Meat or fish based curry without sauce	13	Eating Out Main Meal Component	1
100103	Vegetable or fruit based curry	13	Eating Out Main Meal Component	1
100104	Dhal and dhal dishes	13	Eating Out Main Meal Component	1
100108	Indian buffet or shared meal or unspecified Indian meal	13	Eating Out Main Meal Component	1
100201	Chinese or Thai meat or fish based dishes excluding curry	13	Eating Out Main Meal Component	1
100202	Chop suey and fu yung dishes	13	Eating Out Main Meal Component	1
100203	Chinese or Thai vegetable based main course dishes excluding curry	13	Eating Out Main Meal Component	1
100204	Chinese or Thai curry	13	Eating Out Main Meal Component	1
100207	Chinese or Thai buffet or shared meal or unspecified Chinese or Thai meal	13	Eating Out Main Meal Component	1
100301	All other ethnic meals	13	Eating Out Main Meal Component	1
110502	Meat pies (potato topped e.g. shepherd's pie)	13	Eating Out Main Meal Component	1
110601	Meat and vegetable stews, casseroles or hotpots	13	Eating Out Main Meal Component	1
110602	Chicken or turkey stews, casseroles or hotpots	13	Eating Out Main Meal Component	1
110603	Meat lasagne, cannelloni, moussaka and other meat-based oven baked	13	Eating Out Main Meal Component	1
120603	dishes Fish based pie or other dish e.g. paella, kedgeree, tuna pasta bake	13	Eating Out Main Meal Component	1
150601	Veggie burger, bean burger, veggie sausage, nut roast	13	Eating Out Main Meal Component	1
150601	Vegetable lasagne, vegetable cannelloni, vegetable moussaka and other	13	Eating Out Main Meal Component	1
	oven baked vegetable based dishes			
150604	Vegetable based stews and casseroles and vegetable based pies	13	Eating Out Main Meal Component	1
160301	Meat salad e.g. beef, lamb salads	13	Eating Out Main Meal Component	1
160302	Chicken or turkey salad	13	Eating Out Main Meal Component	1
160303	Fish salad e.g. tuna, salmon salads	13	Eating Out Main Meal Component	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

160401	Cheese salad including ploughmans	13	Eating Out Main Meal Component	1
160402	Egg salad	13	Eating Out Main Meal Component	1
160601	Salad buffet or buffet meal where items not specified	13	Eating Out Main Meal Component	1
170105	Noodles with meat, vegetables etc.	13	Eating Out Main Meal Component	1
100105	Samosas	14	Eating Out Side Dish	1
100106	Other Indian dishes	14	Eating Out Side Dish	1
100205	Spring rolls	14	Eating Out Side Dish	1
100206	Other Chinese or Thai dishes	14	Eating Out Side Dish	1
130303	Other egg dishes e.g. egg mayonnaise	14	Eating Out Side Dish	1
150503	Vegetables in batter or breadcrumbs and deep fried vegetables e.g. onion	14	Eating Out Side Dish	1
150504	rings Onion and other vegetable bhajis and pakora	14	Eating Out Side Dish	1
150603	Stuffed vegetables (e.g. stuffed pepper) and vegetable based starter	14	Eating Out Side Dish	1
160201	Vegetable or fruit and nut salad - with dressing	14	Eating Out Side Dish	1
160501	Other salads e.g. Greek, Florida, Russian	14	Eating Out Side Dish	1
12901	Eggs	15	Eggs	1
130301	Eggs - boiled or poached	15	Eggs	1
130302	Eggs - scrambled, fried, omelettes or unspecified 'egg'	15	Eggs	1
26401	Flour	16	Flour	1
21001	Fresh oranges	17	Fruit	1
21401	Other fresh citrus fruits	17	Fruit	1
21701	Fresh apples	17	Fruit	1
21801	Fresh pears	17	Fruit	1
22101	Fresh stone fruit	17	Fruit	1
22201	Fresh grapes	17	Fruit	1
22701	Other fresh soft fruit	17	Fruit	1
22801	Fresh bananas	17	Fruit	1
22901	Fresh melons	17	Fruit	1
23101	Other fresh fruit	17	Fruit	1
23301	Tinned peaches, pears and pineapples	17	Fruit	1
23601	All other tinned or bottled fruit	17	Fruit	1
24001	Dried fruit	17	Fruit	1
24101	Frozen strawberries, apple slices, peach halves, oranges and other frozen	17	Fruit	1
200101	fruits  All citrus fruit, fresh e.g. orange, grapefruit	17	Fruit	1
200102	Banana, fresh	17	Fruit	1
200103	Apples, fresh	17	Fruit	1
200104	Pears, fresh	17	Fruit	1
200105	Stone fruit, fresh e.g. apricot, plum, peach, cherry, avocado	17	Fruit	1
200106	Grapes, fresh	17	Fruit	1
200107	Soft fruit or berries, fresh e.g. strawberries, blackberries - without cream or ice cream	17	Fruit	1
200108	Melon, fresh	17	Fruit	1
200109	Pineapple, fresh	17	Fruit	1
200110	Fresh fruit salad - without cream or ice cream	17	Fruit	1
200111	Other fresh fruit (kiwi, passion) and unspecified 'fruit'	17	Fruit	1
200112	Free school fruit	17	Fruit	1
200201	Dried fruit e.g. sultanas, raisins	17	Fruit	1
200301	Tinned, stewed, baked or processed fruit - without cream or ice cream	17	Fruit	1
		17	Fruit	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

19603	Vegetable juices e.g. tomato juice, carrot juice	18	Fruit (and veg) juice	1
24801	Pure fruit juices	18	Fruit (and veg) juice	1
260204	Pure fruit juices	18	Fruit (and veg) juice	1
260205	Vegetable juices e.g. tomato juice, carrot juice	18	Fruit (and veg) juice	1
2201	Hard cheese - Cheddar type	19	Full Fat Cheese	1
2202	Hard cheese - Other UK or foreign equivalent	19	Full Fat Cheese	1
130103	Cheddar, blue or other hard cheese and unspecified 'cheese'	19	Full Fat Cheese	1
1603	Dairy desserts - not frozen	20	Ice Cream and Dairy Desserts	1
33203	Ice cream tub or block	20	Ice Cream and Dairy Desserts	1
33302	Ice cream cornets, choc-ices, Iollies with ice cream		·	1
	i i	20	Ice Cream and Dairy Desserts	
33303	Ice Iollies, sorbet, frozen mousse, frozen yoghurt	20	Ice Cream and Dairy Desserts	1
33304	Takeaway ice cream, ice cream products, milkshakes	20	Ice Cream and Dairy Desserts	1
290101	Ice cream in a cone, cornet or wafer and ice cream desserts	20	Ice Cream and Dairy Desserts	1
290103	Ice cream scoop or tub including ice cream served with dessert	20	Ice Cream and Dairy Desserts	1
290211	Fool, trifle and mousse desserts	20	Ice Cream and Dairy Desserts	1
15101	Jams and fruit curds	21	Jam, marmalade, honey and sweet spreads	1
15201	Marmalade	21	Jam, marmalade, honey and sweet spreads	1
15301	Syrup, treacle	21	Jam, marmalade, honey and sweet	1
15401	Honey	21	spreads Jam, marmalade, honey and sweet	1
32303	Other spreads and dressings	21	spreads Jam, marmalade, honey and sweet	1
240106		21	spreads	1
	Sweet sauce e.g. syrup, treacle, chocolate sauce		Jam, marmalade, honey and sweet spreads	
240107	Fruit or vegetable based condiments	21	Jam, marmalade, honey and sweet spreads	1
240402	Jam, marmalade and honey	21	Jam, marmalade, honey and sweet spreads	1
32901	Jelly squares or crystals	22	Jelly, Ice Lollies and Sorbets	1
290104	Iced Iollies and sorbets	22	Jelly, Ice Lollies and Sorbets	1
290212	Jelly	22	Jelly, Ice Lollies and Sorbets	1
2205	Cottage cheese	23	Low Fat Cheese	1
130101	Cottage cheese including with pineapple	23	Low Fat Cheese	1
28205	Other breakfast cereals	24	Low fibre and lower NMES Breakfast	1
28204	Sweetened breakfast cereals	25	Cereal   Low fibre or high NMES Breakfast Cereal	1
190103	Sweetened breakfast cereals e.g. Frosties, Sugar Puffs	25	Low fibre or high NMES Breakfast Cereal	1
190105	Other breakfast cereals and unspecified 'cereal' e.g. Cornflakes, Rice	25	Low fibre or high NMES Breakfast Cereal	1
	Krispies, Special K			
8302	Meat pies - ready to eat	26	Meat Filled Pastry	1
8303	Sausage rolls - ready to eat	26	Meat Filled Pastry	1
8401	Meat pies, pasties and puddings - frozen or not frozen	26	Meat Filled Pastry	1
9501	Takeaway meat pies and pasties	26	Meat Filled Pastry	1
110501	Meat pies (pastry topped) and pasties	26	Meat Filled Pastry	1
110503	Sausage roll (pastry)	26	Meat Filled Pastry	1
2203	Hard cheese - Edam or other foreign	27	Medium Fat Cheese	1
2206	Soft natural cheese	27	Medium Fat Cheese	1
2301	Processed cheese	27	Medium Fat Cheese	1
130102	Soft, continental or processed cheese e.g. brie	27	Medium Fat Cheese	1
31201	Cocoa and chocolate drinks	28	Milk Drinks	1
31301	Malt drinks and chocolate versions of malted drinks	28	Milk Drinks	1
250106	Hot chocolate or cocoa, with milk or water	28	Milk Drinks	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

28503	All canned milk puddings	29	Milk Puddings	1
240404	Custard	29	Milk Puddings	1
290208	Custard desserts or sweet soufflé	29	Milk Puddings	1
290213	Milk and rice puddings including tapioca, semolina	29	Milk Puddings	1
29915	Quiches and flans - frozen and not frozen	30	Non Meat Savoury Pastry	1
130104	Quiche and cheese pies or pasties	30	Non Meat Savoury Pastry	1
24502	Nuts & edible seeds	31	Nuts	1
310101	Nuts, nut products and seeds	31	Nuts	1
26303	Malt bread and fruit loaves	32	Other Baked Goods	1
26308	Other breads	32	Other Baked Goods	1
26311	Takeaway breads	32	Other Baked Goods	1
26701	Buns, scones and teacakes	32	Other Baked Goods	1
100107	Indian breads	32	Other Baked Goods	1
220105	Garlic bread	32	Other Baked Goods	1
220106	Croissant	32	Other Baked Goods	1
220107	Continental breads e.g. pitta, ciabatta, focaccia	32	Other Baked Goods	1
220109	Fried bread, including croutons	32	Other Baked Goods	1
290301	Waffles and pancakes	32	Other Baked Goods	1
290401	Teacakes, scones, currant buns, iced buns	32	Other Baked Goods	1
6201	Corned beef - canned or sliced	33	Other processed meat	1
6601	Other cooked meat	33	Other processed meat	1
7102	Other canned meat and canned meat products	33	Other processed meat	1
8902	Other convenience meat products - frozen or not frozen	33	Other processed meat	1
9301	Pate	33	Other processed meat	1
9403	Meat pastes and spreads	33	Other processed meat	1
9506	Takeaway miscellaneous meats	33	Other processed meat	1
110701	All pates	33	Other processed meat	1
110801	Other meat products or dishes	33	Other processed meat	1
28702	Dried rice	34	Pasta, Rice and Noodles	1
28703	Cooked rice	34	Pasta, Rice and Noodles	1
28704	Takeaway rice	34	Pasta, Rice and Noodles	1
29501	Canned pasta	34	Pasta, Rice and Noodles	1
29502	Dried and fresh pasta	34	Pasta, Rice and Noodles	1
29503	Takeaway pasta and noodles	34	Pasta, Rice and Noodles	1
160202	Pasta, rice, mixed bean or cereal-based salads - with dressing	34	Pasta, Rice and Noodles	1
170101	· · ·	34		1
	Fried rice and risotto		Pasta, Rice and Noodles	
170102	All cooked rice excluding fried rice e.g. boiled, pilau, savoury	34	Pasta, Rice and Noodles	1
170103	Pasta - not filled and plain noodles (including pot noodle) - without sauce	34	Pasta, Rice and Noodles	1
170104	Pasta - filled e.g. ravioli, tortellini - without sauce	34	Pasta, Rice and Noodles	1
24503	Peanut butter	35	Peanut Butter	1
29601	Pizzas - frozen and not frozen	36	Pizza	1
29602	Takeaway pizza	36	Pizza	1
130201	Pizza - cheese and tomato, vegetable or unspecified 'pizza'	36	Pizza	1
130202	Pizza - meat, fish or poultry	36	Pizza	1
15501	Potatoes - bought Jan-Aug, previous year's crop	37	Potatoes	1
15502	Potatoes - bought Jan-Aug, this year's crop	37	Potatoes	1
15503	Potatoes - bought Sep-Dec, current crop or new imported	37	Potatoes	1
15504	Fresh potatoes not specified elsewhere	37	Potatoes	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

15505	Fresh new potatoes	37	Potatoes	1
15506	Fresh baking potatoes	37	Potatoes	1
19901	Canned potatoes	37	Potatoes	1
140103	Potatoes - boiled or unspecified 'potato'	37	Potatoes	1
140104	Potatoes - mashed	37	Potatoes	1
140104	Potatoes - roast	37	Potatoes	1
140105		37	Potatoes	1
140107	Sautéed potatoes, potato croquettes, hash browns etc.  Baked or jacket potatoes - without filling	37	Potatoes	1
140107	Other potato dishes (e.g. wedges, potato salad) including unspecified 'potato			1
140108	dish'	37	Potatoes	'
5903	Cooked chicken and turkey	38	Poultry	1
7401	Chicken - whole or part	38	Poultry	1
7703	Turkey - whole or part	38	Poultry	1
7704	Poultry other than chicken or turkey	38	Poultry	1
110201	Chicken or turkey with sauce or gravy	38	Poultry	1
110202	Chicken or turkey in breadcrumbs or batter	38	Poultry	1
110203	Duck with sauce or gravy	38	Poultry	1
11801	Takeaway fish	39	Processed Fish	1
12001	Other tinned or bottled fish	39	Processed Fish	1
12304	Takeaway fish products	39	Processed Fish	1
120601	Fish, processed, in breadcrumbs (fish fingers, fish cakes, scampi) - without sauce or dressing	39	Processed Fish	1
120602	Fish burgers (in bun)	39	Processed Fish	1
240304	Fish based filling e.g. tuna mayonnaise	39	Processed Fish	1
19702	Chips - frozen or not frozen	40	Processed Potatoes	1
19703	Takeaway chips	40	Processed Potatoes	1
19801	Instant potato	40	Processed Potatoes	1
20101	Other potato products - frozen or not frozen	40	Processed Potatoes	1
140101	Chips and French fries - from fast food outlet e.g. McDonalds	40	Processed Potatoes	1
140102	Chips - served with meal e.g. from restaurant or chip shop	40	Processed Potatoes	1
5904	Takeaway chicken	41	Processed Poultry	1
110303	Chicken burger	41	Processed Poultry	1
8901	Complete meat-based ready meals - frozen or not frozen	42	Ready Meals	1
12103	Ready meals and other fish products - frozen or not frozen	42	Ready Meals	1
20601	Ready meals and other vegetable products - frozen or not frozen	42	Ready Meals	1
14802	Reduced fat spreads	43	Reduced and Low Fat Spread	1
14803	' '		·	1
	Low fat spreads	43	Reduced and Low Fat Spread	
26309	Sandwiches  Sandwiches from taken your	44	Sandwiches	1
26310	Sandwiches from takeaway	44	Sandwiches	1
230101	Meat based sandwich on white bread or roll	44	Sandwiches	1
230102	Meat based sandwich on brown bread or roll	44	Sandwiches	1
230103	Meat based sandwich bread not specified	44	Sandwiches	1
230104	Chicken or turkey based sandwich on white bread or roll	44	Sandwiches	1
230105	Chicken or turkey based sandwich on brown bread or roll	44	Sandwiches	1
230106	Chicken or turkey based sandwich bread not specified	44	Sandwiches	1
230107	Bacon and egg based sandwich on white bread or roll including Bacon and Egg McMuffin	44	Sandwiches	1
230108	Bacon and egg based sandwich on brown bread or roll	44	Sandwiches	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

230109	Bacon and egg based sandwich bread not specified	44	Sandwiches	1
230110	Fish based sandwich on white bread or roll	44	Sandwiches	1
230111	Fish based sandwich on brown bread or roll	44	Sandwiches	1
230112	Fish based sandwich bread not specified	44	Sandwiches	1
230201	Cheese based sandwich on white bread or roll	44	Sandwiches	1
230202	Cheese based sandwich on brown bread or roll	44	Sandwiches	1
230203	Cheese based sandwich bread not specified	44	Sandwiches	1
230204	Egg based sandwich on white bread or roll including Egg McMuffin	44	Sandwiches	1
230205	Egg based sandwich on brown bread or roll	44	Sandwiches	1
230206	Egg based sandwich bread not specified	44	Sandwiches	1
230207	Vegetarian based sandwich on white bread or roll	44	Sandwiches	1
230208	Vegetarian based sandwich on brown bread or roll	44	Sandwiches	1
230209	Vegetarian based sandwich bread not specified	44	Sandwiches	1
230210	Sweet-filled sandwich	44	Sandwiches	1
230211	Unspecified sandwiches or rolls	44	Sandwiches	1
7901	Sausages, uncooked - pork	45	Sausages	1
8001	Sausages, uncooked - beef etc.	45	Sausages	1
9302	Delicatessen type sausages	45	Sausages	1
9504	Takeaway sausages and saveloys	45	Sausages	1
110402	Plain sausages e.g. beef, pork	45	Sausages	1
110403	Other sausages	45	Sausages	1
110404	Hot dogs and sausage sandwiches	45	Sausages	1
27101	Crispbread	46	Savoury Biscuits	1
27403	Cream crackers and other unsweetened biscuits	46	Savoury Biscuits	1
300104	Savoury biscuits	46	Savoury Biscuits	1
32302	Salad dressings	47	Savoury Sauces and Dressings	1
32702	Pickles	47	Savoury Sauces and Dressings	1
32703	Sauces	47	Savoury Sauces and Dressings	1
32704	Takeaway sauces and mayonnaise	47	Savoury Sauces and Dressings	1
240101	Cheese or cream based sauce e.g. carbonara, cauliflower cheese	47	Savoury Sauces and Dressings	1
240102	Meat-based sauce e.g. bolognese, chilli con carne	47	Savoury Sauces and Dressings	1
240103	Fish or seafood based sauce	47	Savoury Sauces and Dressings	1
240103	Tomato based sauce containing vegetables including ratatouille	47	Savoury Sauces and Dressings	1
240104	Other savoury sauce or unspecified 'sauce'	47	Savoury Sauces and Dressings	1
240103	Other savoury sauce of unspecified sauce  Other condiments or sauces	47	Savoury Sauces and Dressings	1
240100	Salad dressings and dips	47	Savoury Sauces and Dressings	1
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240202	Mayonnaise	47	Savoury Sauces and Dressings	1
240203	Coleslaw	47	Savoury Sauces and Dressings	1
1503	Semi-skimmed milk	48	Semi-skimmed Milk	1
1502	Fully skimmed milk	49	Skimmed Milk	1
13801	Soft margarine	50	Soft Margarine	1
31801	Soups - canned or cartons	51	Soup	1
31901	Soups - dehydrated or powdered	51	Soup	1
32001	Soups - from takeaway	51	Soup	1
180101	Meat & fish soups	51	Soup	1
180102	Vegetable based soups	51	Soup	1
180103	Chinese soups, consommé (meat, fish or veg)	51	Soup	1
180104	Other soups including unspecified 'soup'	51	Soup	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

40504	D.#		T-4-1 0	14
13501	Butter	52	Total Spreading Fats	1
13801	Soft margarine	52	Total Spreading Fats	1
14802	Reduced fat spreads	52	Total Spreading Fats	1
14803	Low fat spreads	52	Total Spreading Fats	1
240401	Butter and margarine	52	Spreading Fats	1
15001	Sugar	53	Sugar	1
240405	Sugar (as an addition to tea, coffee etc.)	53	Sugar	1
35301	Mints	54	Sugar Confectionery	1
35302	Boiled sweets	54	Sugar Confectionery	1
35401	Fudges, toffees, caramels	54	Sugar Confectionery	1
35501	Takeaway confectionery	54	Sugar Confectionery	1
280105	Mints e.g. Polo, Extra Strong	54	Sugar Confectionery	1
280106	Boiled sweets, jellies and unspecified 'sweets' e.g. fruit gums	54	Sugar Confectionery	1
280107	Uncoated toffee or fudge, uncoated e.g. Toffos, chocolate eclairs, caramels	54	Sugar Confectionery	1
280108	Pick 'n' mix, nougat, liquorice and other sweets	54	Sugar Confectionery	1
34001	Soft drinks, concentrated, not low calorie	55	Sugar Containing Soft Drinks	1
34101	Soft drinks, not concentrated, not low calorie	55	Sugar Containing Soft Drinks	1
38501	Spirits with mixer	55	Sugar Containing Soft Drinks	0.85
38901	Alcopops	55	Sugar Containing Soft Drinks	0.85
260203	Soft drink (incl carbonates & still) - not low calorie (including drinks where calorie content unspecified)	55	Sugar Containing Soft Drinks	1
260206	Soft drink where pure juice or juice drink not specified	55	Sugar Containing Soft Drinks	1
270104	Spirits or liqueurs with mixer e.g. gin & tonic, Bacardi & coke	55	Sugar Containing Soft Drinks	0.85
270206	Alcoholic soft drinks (alcopops), and ready-mixed bottled drinks	55	Sugar Containing Soft Drinks	0.85
34301	Soft drinks, concentrated, low calorie	56	Sugar Free Soft Drinks	1
34401	Soft drinks, not concentrated, low calorie	56	Sugar Free Soft Drinks	1
260202	Soft drink (incl carbonates and still) - low calorie	56	Sugar Free Soft Drinks	1
27402	Sweet biscuits (not chocolate) and cereal bars	57	Sweet Biscuits	1
27702	Chocolate biscuits	57	Sweet Biscuits	1
300101	Fully-coated chocolate biscuits or wafers	57	Sweet Biscuits	1
300102	Sweet biscuits including half-coated chocolate biscuits	57	Sweet Biscuits	1
300103	Cereal bars and cereal based cakes	57	Sweet Biscuits	1
9505	Takeaway meat based meals	58	Takeaway Main Meal Component	1
12305	Takeaway fish based meals	58	Takeaway Main Meal Component	1
20604	All vegetable takeaway products	58	Takeaway Main Meal Component	1
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28101	Oatmeal and oat products	59	Total Breakfast Cereal	1
28202	Muesli	59	Total Breakfast Cereal	1
28203	High fibre breakfast cereals	59	Total Breakfast Cereal	1
28204	Sweetened breakfast cereals	59	Total Breakfast Cereal	1
28205	Other breakfast cereals	59	Total Breakfast Cereal	1
190101	Muesli and oat crunch cereals	59	Total Breakfast Cereal	1
190102	Other high fibre breakfast cereals e.g. Allbran, Weetabix	59	Total Breakfast Cereal	1
190103	Sweetened breakfast cereals e.g. Frosties, Sugar Puffs	59	Total Breakfast Cereal	1
190104	Hot breakfast cereals e.g. porridge, Ready Brek	59	Total Breakfast Cereal	1
190105	Other breakfast cereals and unspecified 'cereal' e.g. Cornflakes, Rice Krispies, Special K	59	Total Breakfast Cereal	1
			Total Cheese	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

2202	Hard cheese - Other UK or foreign equivalent	60	Total Cheese	1
2203	Hard cheese - Edam or other foreign	60	Total Cheese	1
2205	Cottage cheese	60	Total Cheese	1
2206	Soft natural cheese	60	Total Cheese	1
2301	Processed cheese	60	Total Cheese	1
130101	Cottage cheese including with pineapple	60	Total Cheese  Total Cheese	2
130101	Other cheese dishes e.g. Welsh rarebit, cheese and biscuits		Total Cheese  Total Cheese	
	<u> </u>	60		1
240303	Cheese filling including cheddar cheese, cottage cheese	60	Total Cheese	1
16201	Fresh cabbages	61	Total Fruit and Vegetables	1
16301	Fresh Brussels sprouts	61	Total Fruit and Vegetables	1
16401	Fresh cauliflower	61	Total Fruit and Vegetables	1
16701	Lettuce and leafy salads	61	Total Fruit and Vegetables	1
16702	Prepared lettuce salads	61	Total Fruit and Vegetables	1
16801	Fresh peas	61	Total Fruit and Vegetables	1
16901	Fresh beans	61	Total Fruit and Vegetables	1
17101	Other fresh green vegetables	61	Total Fruit and Vegetables	1
17201	Fresh carrots	61	Total Fruit and Vegetables	1
17301	Fresh turnips and swede	61	Total Fruit and Vegetables	1
17401	Other fresh root vegetables	61	Total Fruit and Vegetables	1
17501	Fresh onions, leeks and shallots	61	Total Fruit and Vegetables	1
17601	Fresh cucumbers	61	Total Fruit and Vegetables	1
17701	Fresh mushrooms	61	Total Fruit and Vegetables	1
17801	Fresh tomatoes	61	Total Fruit and Vegetables	1
18301	Fresh vegetable stewpack, stirfry pack etc.	61	Total Fruit and Vegetables	1
18302	Fresh stem vegetables	61	Total Fruit and Vegetables	1
18303	Fresh marrow, courgettes, aubergine, pumpkin and other vegetables	61	Total Fruit and Vegetables	1
18304	Fresh herbs	61	Total Fruit and Vegetables	1
18401	Tomatoes, canned or bottled	61	Total Fruit and Vegetables	1
18501	Peas, canned	61	Total Fruit and Vegetables	1
18802	Baked beans in sauce	61	Total Fruit and Vegetables	1
18803	Other canned beans and pulses	61	Total Fruit and Vegetables	1
19101	Other canned vegetables	61	Total Fruit and Vegetables	1
19201	Dried pulses, other than air-dried	61	Total Fruit and Vegetables	1
19501	Air-dried vegetables	61	Total Fruit and Vegetables	1
19602	Tomato puree and vegetable purees	61	Total Fruit and Vegetables	1
19603	Vegetable juices e.g. tomato juice, carrot juice	61	Total Fruit and Vegetables	1
20301	Peas, frozen	61	Total Fruit and Vegetables	1
20401	Beans, frozen	61	Total Fruit and Vegetables	1
20801	Other frozen vegetables	61	Total Fruit and Vegetables	1
21001	Fresh oranges	61	Total Fruit and Vegetables	1
21401	Other fresh citrus fruits	61	Total Fruit and Vegetables	1
21701	Fresh apples	61	Total Fruit and Vegetables	1
21801	Fresh pears	61	Total Fruit and Vegetables	1
22101	Fresh stone fruit	61	Total Fruit and Vegetables	1
22201	Fresh grapes	61	Total Fruit and Vegetables	1
22701	Other fresh soft fruit	61	Total Fruit and Vegetables	1
22801	Fresh bananas	61	Total Fruit and Vegetables	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

23101	Other fresh fruit	61	Total Fruit and Vegetables	1
23301	Tinned peaches, pears and pineapples	61	Total Fruit and Vegetables	1
23601	All other tinned or bottled fruit	61	Total Fruit and Vegetables	1
24001	Dried fruit	61	Total Fruit and Vegetables	1
24101	Frozen strawberries, apple slices, peach halves, oranges and other frozen	61	Total Fruit and Vegetables	1
	fruits		Ŭ.	
24801	Pure fruit juices	61	Total Fruit and Vegetables	1
150101	Lettuce and cress	61	Total Fruit and Vegetables	1
150102	Other green vegetables e.g. spinach, cabbage, sprouts	61	Total Fruit and Vegetables	1
150201	Peppers - raw or cooked	61	Total Fruit and Vegetables	1
150202	Courgettes, marrow, aubergine, pumpkin, plantain, cucumbers	61	Total Fruit and Vegetables	1
150203	Peas and sweetcorn	61	Total Fruit and Vegetables	1
150204	Baked beans and other beans (not green beans) and pulses	61	Total Fruit and Vegetables	1
150205	Tomato - fresh or raw	61	Total Fruit and Vegetables	1
150206	Tomato - cooked or processed	61	Total Fruit and Vegetables	1
150301	Carrots	61	Total Fruit and Vegetables	1
150302	Onions - raw, cooked or unspecified 'onions'	61	Total Fruit and Vegetables	1
150303	Onions - fried	61	Total Fruit and Vegetables	1
150304	Other root vegetables or tubers e.g. turnip, parsnip, radish, beetroot	61	Total Fruit and Vegetables	1
150401	Mushrooms - raw or cooked	61	Total Fruit and Vegetables	1
150501	Mixed vegetables or unspecified 'vegetable'	61	Total Fruit and Vegetables	1
150502	Other vegetables e.g. artichoke, asparagus	61	Total Fruit and Vegetables	1
160101	Mixed salad, main course - without dressing	61	Total Fruit and Vegetables	1
160102	Mixed salad, side dish - without dressing - including unspecified 'salad'	61	Total Fruit and Vegetables	1
160103	Green salad - without dressing	61	Total Fruit and Vegetables	1
200101	All citrus fruit, fresh e.g. orange, grapefruit	61	Total Fruit and Vegetables	1
200102	Banana, fresh	61	Total Fruit and Vegetables	1
200103	Apples, fresh	61	Total Fruit and Vegetables	1
200103	Pears, fresh	61	Total Fruit and Vegetables	1
200104		61	Total Fruit and Vegetables  Total Fruit and Vegetables	1
	Stone fruit, fresh e.g. apricot, plum, peach, cherry, avocado			
200106	Grapes, fresh	61	Total Fruit and Vegetables	1
200107	Soft fruit or berries, fresh e.g. strawberries, blackberries - without cream or ice cream	61	Total Fruit and Vegetables	1
200108	Melon, fresh	61	Total Fruit and Vegetables	1
200109	Pineapple, fresh	61	Total Fruit and Vegetables	1
200110	Fresh fruit salad - without cream or ice cream	61	Total Fruit and Vegetables	1
200111	Other fresh fruit (kiwi, passion) and unspecified 'fruit'	61	Total Fruit and Vegetables	1
200112	Free school fruit	61	Total Fruit and Vegetables	1
200201	Dried fruit e.g. sultanas, raisins	61	Total Fruit and Vegetables	1
200301	Tinned, stewed, baked or processed fruit - without cream or ice cream	61	Total Fruit and Vegetables	1
240301	Fruit filling e.g. peaches for pancakes	61	Total Fruit and Vegetables	1
240302	Vegetable filling	61	Total Fruit and Vegetables	1
260204	Pure fruit juices	61	Total Fruit and Vegetables	1
260205	Vegetable juices e.g. tomato juice, carrot juice	61	Total Fruit and Vegetables	1
402	UHT whole milk	62	Total Milk	1
403	Sterilised whole milk	62	Total Milk	1
404	Pasteurised or homogenised whole milk	62	Total Milk	1
601	Welfare milk	62	Total Milk	1
901	Condensed or evaporated milk	62	Total Milk	1
301	Condensed of evaporated IIIIIK	02	1 Jiai Iviiik	'

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

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1102	Infant or baby milks - ready to drink	62	Total Milk	1
1103	Infant or baby milks - dried	62	Total Milk	1
1201	Instant dried milk	62	Total Milk	1
1502	Fully skimmed milk	62	Total Milk	1
1503	Semi-skimmed milk	62	Total Milk	1
1605	Dried milk products	62	Total Milk	1
1606	Milk drinks & other milks (replaced 200405 onwards)	62	Total Milk	1
1607	Milk drinks & other milks	62	Total Milk	1
1608	Non-dairy milk substitutes	62	Total Milk	1
260301	Milk as a drink	62	Total Milk	1
260302	Milk on cereal	62	Total Milk	1
260303	Milkshake and flavoured milk	62	Total Milk	1
260304	Free school milk	62	Total Milk	1
5502	Bacon and ham joints, uncooked	63	Total Processed Red Meat	1
5505	Bacon and ham rashers, uncooked	63	Total Processed Red Meat	1
5801	Ham and bacon	63	Total Processed Red Meat	1
6201	Corned beef - canned or sliced	63	Total Processed Red Meat	1
6601	Other cooked meat	63	Total Processed Red Meat	1
7102	Other canned meat and canned meat products	63	Total Processed Red Meat	1
7901	Sausages, uncooked - pork	63	Total Processed Red Meat	1
8001	Sausages, uncooked - beef etc.	63	Total Processed Red Meat	1
3302	Meat pies - ready to eat	63	Total Processed Red Meat	1
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8303	Sausage rolls - ready to eat	63	Total Processed Red Meat	1
8401	Meat pies, pasties and puddings - frozen or not frozen	63	Total Processed Red Meat	1
8501	Burgers - frozen or not frozen	63	Total Processed Red Meat	1
8902	Other convenience meat products - frozen or not frozen	63	Total Processed Red Meat	1
9301	Pate	63	Total Processed Red Meat	1
9302	Delicatessen type sausages	63	Total Processed Red Meat	1
9403	Meat pastes and spreads	63	Total Processed Red Meat	1
9501	Takeaway meat pies and pasties	63	Total Processed Red Meat	1
9502	Takeaway burger and bun	63	Total Processed Red Meat	1
9503	Takeaway kebabs	63	Total Processed Red Meat	1
9504	Takeaway sausages and saveloys	63	Total Processed Red Meat	1
9506	Takeaway miscellaneous meats	63	Total Processed Red Meat	1
110106	Bacon	63	Total Processed Red Meat	1
110107	Gammon or ham	63	Total Processed Red Meat	1
110301	Small or single burgers	63	Total Processed Red Meat	1
110302	Large or double burgers	63	Total Processed Red Meat	1
110401	Kebabs - all types including chicken	63	Total Processed Red Meat	1
110402	Plain sausages e.g. beef, pork	63	Total Processed Red Meat	1
110403	Other sausages	63	Total Processed Red Meat	1
110404	Hot dogs and sausage sandwiches	63	Total Processed Red Meat	1
110501	Meat pies (pastry topped) and pasties	63	Total Processed Red Meat	1
110503	Sausage roll (pastry)	63	Total Processed Red Meat	1
110701	All pates	63	Total Processed Red Meat	1
110801	Other meat products or dishes	63	Total Processed Red Meat	1
	· ·			1
10201	White fish, fresh or chilled	64	Unprocessed Fish	
10202	White fish, frozen	64	Unprocessed Fish	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

10601	Herrings and other blue fish, fresh or chilled	64	Unprocessed Fish	1
10602	Herrings and other blue fish, frozen	64	Unprocessed Fish	1
10701	Salmon, fresh or chilled	64	Unprocessed Fish	1
10702	Salmon, frozen	64	Unprocessed Fish	1
10801	Blue fish, dried or salted or smoked	64	Unprocessed Fish	1
11401	White fish, dried or salted or smoked	64	Unprocessed Fish	1
11702	Shellfish, fresh or chilled	64	Unprocessed Fish	1
11703	Shellfish, frozen	64	Unprocessed Fish	1
11901	Tinned salmon	64	Unprocessed Fish	1
120101	White fish - grilled, steamed, baked or boiled - without sauce	64	Unprocessed Fish	1
120102	White fish - fried (incl in batter/breadcrumbs) - without sauce	64	Unprocessed Fish	1
120201	Trout, tuna and salmon only - fresh - without sauce or dressing	64	Unprocessed Fish	1
120202	Other fatty fish - without sauce or dressing e.g. herring, mackerel, sardines	64	Unprocessed Fish	1
120301	Shellfish - without sauce or dressing e.g. prawns, shrimps, oysters, crab	64	Unprocessed Fish	1
120401	Kippers and other smoked fish e.g. smoked salmon	64	Unprocessed Fish	1
120501	Other fish products and unspecified 'fish' e.g. squid, sushi, crabsticks	64	Unprocessed Fish	1
3102	Beef joints - on the bone	65	Unprocessed Red Meat	1
3103	Beef joints - boned	65	Unprocessed Red Meat	1
3104	Beef steak - less expensive	65	Unprocessed Red Meat	1
3105	Beef steak - more expensive	65	Unprocessed Red Meat	1
3106	Minced beef	65	Unprocessed Red Meat	1
3107	All other beef and veal	65	Unprocessed Red Meat	1
			·	1
3601	Mutton	65	Unprocessed Red Meat	
3602	Lamb joints	65	Unprocessed Red Meat	1
3603	Lamb chops	65	Unprocessed Red Meat	1
3604	All other lamb	65	Unprocessed Red Meat	1
4101	Pork joints	65	Unprocessed Red Meat	1
4102	Pork chops	65	Unprocessed Red Meat	1
4103	Pork fillets and steaks	65	Unprocessed Red Meat	1
4104	All other pork	65	Unprocessed Red Meat	1
4603	Ox liver	65	Unprocessed Red Meat	1
4604	Lambs liver	65	Unprocessed Red Meat	1
4605	Pigs liver	65	Unprocessed Red Meat	1
4607	All other liver	65	Unprocessed Red Meat	1
5101	All offal other than liver	65	Unprocessed Red Meat	1
7801	Other fresh, chilled or frozen meat	65	Unprocessed Red Meat	1
110101	Steak - without sauce e.g. braised, sirloin	65	Unprocessed Red Meat	1
110102	Roast meat with sauce or gravy	65	Unprocessed Red Meat	1
110103	Pork chops with sauce or gravy	65	Unprocessed Red Meat	1
110104	Lamb chops with sauce or gravy	65	Unprocessed Red Meat	1
110105	Spare ribs	65	Unprocessed Red Meat	1
110108	All offal including liver, kidney, tongue	65	Unprocessed Red Meat	1
110204	Game with sauce or gravy	65	Unprocessed Red Meat	1
16201	Fresh cabbages	66	Vegetables	1
16301	Fresh Brussels sprouts	66	Vegetables	1
16401	Fresh cauliflower	66	Vegetables	1
16701	Lettuce and leafy salads	66	Vegetables	1
16702	Prepared lettuce salads	66	Vegetables	1
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Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

16801	Fresh peas	66	Vegetables	1
16901	Fresh beans	66	Vegetables	1
17101	Other fresh green vegetables	66	Vegetables	1
17201	Fresh carrots	66	Vegetables	1
17301	Fresh turnips and swede	66	Vegetables	1
17401	Other fresh root vegetables	66	Vegetables	1
17501	Fresh onions, leeks and shallots	66	Vegetables	1
17601	Fresh cucumbers	66	Vegetables	1
17701	Fresh mushrooms	66	Vegetables	1
17801	Fresh tomatoes	66	Vegetables	1
18301	Fresh vegetable stewpack, stirfry pack etc.	66	Vegetables	1
18302	Fresh stem vegetables	66	Vegetables	1
18303	Fresh marrow, courgettes, aubergine, pumpkin and other vegetables	66	Vegetables	1
18304	Fresh herbs	66	Vegetables	1
18401	Tomatoes, canned or bottled	66	Vegetables	1
18501	Peas, canned	66	Vegetables	1
18802	Baked beans in sauce	66	Vegetables	1
18803	Other canned beans and pulses	66	Vegetables	1
19101	Other canned vegetables	66	Vegetables	1
19201	Dried pulses, other than air-dried	66	Vegetables	1
19501	Air-dried vegetables	66	Vegetables	1
19602	Tomato puree and vegetable purees	66	Vegetables	1
20301	Peas, frozen	66	Vegetables	1
20401	Beans, frozen	66	Vegetables	1
20801	Other frozen vegetables	66	Vegetables	1
150101	Lettuce and cress	66	Vegetables	1
150102	Other green vegetables e.g. spinach, cabbage, sprouts	66	Vegetables	1
150201	Peppers - raw or cooked	66	Vegetables	1
150202	Courgettes, marrow, aubergine, pumpkin, plantain, cucumbers	66	Vegetables	1
150203	Peas and sweetcorn	66	Vegetables	1
150204	Baked beans and other beans (not green beans) and pulses	66	Vegetables	1
150205	Tomato - fresh or raw	66	Vegetables	1
150206	Tomato - cooked or processed	66	Vegetables	1
150301	Carrots	66	Vegetables	1
150302	Onions - raw, cooked or unspecified 'onions'	66	Vegetables	1
150303	Onions - fried	66	Vegetables	1
150304	Other root vegetables or tubers e.g. turnip, parsnip, radish, beetroot	66	Vegetables	1
150401	Mushrooms - raw or cooked	66	Vegetables	1
150501	Mixed vegetables or unspecified 'vegetable'	66	Vegetables	1
150501		66	-	1
	Other vegetables e.g. artichoke, asparagus		Vegetables	
160101	Mixed salad, main course - without dressing	66	Vegetables	1
160102	Mixed salad, side dish - without dressing - including unspecified 'salad'	66	Vegetables	1
160103	Green salad - without dressing	66	Vegetables	1
240302	Vegetable filling	66	Vegetables	1
402	UHT whole milk	67	Whole Milk	1
403	Sterilised whole milk	67	Whole Milk	1
404	Pasteurised or homogenised whole milk	67	Whole Milk	1
601	Welfare milk	67	Whole Milk	1

Appendix 8: Breakdown of Food Groupings by Food Code for Contributing Foods Analysis

28101	Oatmeal and oat products	68	Wholegrain/ HF Breakfast Cereal	1
28202	Muesli	68	Wholegrain/ HF Breakfast Cereal	1
28203	High fibre breakfast cereals	68	Wholegrain/ HF Breakfast Cereal	1
190101	Muesli and oat crunch cereals	68	Wholegrain/ HF Breakfast Cereal	1
190102	Other high fibre breakfast cereals e.g. Allbran, Weetabix	68	Wholegrain/ HF Breakfast Cereal	1
190104	Hot breakfast cereals e.g. porridge, Ready Brek	68	Wholegrain/ HF Breakfast Cereal	1
1301	Yoghurt	69	Yoghurt and Fromage Frais	1
1302	Fromage frais	69	Yoghurt and Fromage Frais	1
210101	Yoghurt and fromage frais	69	Yoghurt and Fromage Frais	1
35001	Chocolate bars - solid	70	Total Confectionery	1
35101	Chocolate bars - filled	70	Total Confectionery	1
35301	Mints	70	Total Confectionery	1
35302	Boiled sweets	70	Total Confectionery	1
35401	Fudges, toffees, caramels	70	Total Confectionery	1
35501	Takeaway confectionery	70	Total Confectionery	1
280101	Solid, unfilled chocolate bars and sweets and unspecified 'chocolate'	70	Total Confectionery	1
280102	Filled chocolate-coated bars and sweets e.g. Mars, Snickers, Minstrels	70	Total Confectionery	1
280103	Single chocolate (after dinner)	70	Total Confectionery	1
280105	Mints e.g. Polo, Extra Strong	70	Total Confectionery	1
280106	Boiled sweets, jellies and unspecified 'sweets' e.g. fruit gums	70	Total Confectionery	1
280107	Uncoated toffee or fudge, uncoated e.g. Toffos, chocolate éclairs, caramels	70	Total Confectionery	1
280108	Pick 'n' mix, nougat, liquorice and other sweets	70	Total Confectionery	1
27402	Sweet biscuits (not chocolate) and cereal bars	71	Total Confectionery and Sweet Biscuits	1
27702	Chocolate biscuits	71	Total Confectionery and Sweet Biscuits	1
35001	Chocolate bars - solid	71	Total Confectionery and Sweet Biscuits	1
35101	Chocolate bars - filled	71	Total Confectionery and Sweet Biscuits	1
35301	Mints	71	Total Confectionery and Sweet Biscuits	1
35302	Boiled sweets	71	Total Confectionery and Sweet Biscuits	1
35401	Fudges, toffees, caramels	71	Total Confectionery and Sweet Biscuits	1
35501	Takeaway confectionery	71	Total Confectionery and Sweet Biscuits	1
280101	Solid, unfilled chocolate bars and sweets and unspecified 'chocolate'	71	Total Confectionery and Sweet Biscuits	1
280102	Filled chocolate-coated bars and sweets e.g. Mars, Snickers, Minstrels	71	Total Confectionery and Sweet Biscuits	1
280103	Single chocolate (after dinner)	71	Total Confectionery and Sweet Biscuits	1
280105	Mints e.g. Polo, Extra Strong	71	Total Confectionery and Sweet Biscuits	1
280106	Boiled sweets, jellies and unspecified 'sweets' e.g. fruit gums	71	Total Confectionery and Sweet Biscuits	1
280107	Uncoated toffee or fudge, uncoated e.g. Toffos, chocolate eclairs, caramels	71	Total Confectionery and Sweet Biscuits	1
280107		71	-	1
	Pick 'n' mix, nougat, liquorice and other sweets		Total Confectionery and Sweet Biscuits	
300101	Fully-coated chocolate biscuits or wafers	71	Total Confectionery and Sweet Biscuits	1
300102	Sweet biscuits including half-coated chocolate biscuits	71	Total Confectionery and Sweet Biscuits	1
300103	Cereal bars and cereal based cakes	71	Total Confectionery and Sweet Biscuits	1

Appendix 9: Slope Index of Inequality and Relative Index of Inequality

#### Appendix 9: Slope Index of Inequality and Relative Index of Inequality

The Slope Index of Inequality (SII) was calculated as a measure of inequality of food consumption and nutrient intake. The SII is a measure of absolute inequality (ScotPHO, 2007) used to assess the absolute difference between the least and most deprived individuals. The SII was derived by ranking each household by SIMD (within the 3-year period SIMD was investigated within i.e. 2001-2003, 2004-2006, 2007-2009, 2010-2012 and 2013-2015). The rank scores obtained were divided by the sample size (for the appropriate 3-year period) to obtain a value between 0 and 1, weighted to the relative distribution across SIMD quintiles. Linear regression analysis (weighted least squares) of the mean intake within each SIMD quintile was used to calculate the SIIs for each food / nutrient. The regression (or slope) coefficient from the regression analysis is the SII. For interpretation purposes the SII is the mean difference in intake between the hypothetically most deprived relative to the hypothetically least deprived person in the population (Shaw et al., 2007).

In order to compare a measure of inequality across populations or years, the relative index of inequality (RII) was calculated, which is the SII divided by the overall population mean food consumption or nutrient intake. This helps when making comparisons of the magnitude of the association between the same socio-economic position measures over time. For both SII and RII, the underlying assumption is that there is a linear gradient across the deprivation variable.

The SII figures provide the absolute difference between the hypothetically most deprived and the hypothetically least deprived person for each of the foods / nutrients. A positive figure indicates that consumption / intake is higher in the least deprived and a negative figure indicates that consumption / intake is greatest in the most deprived.

SII and RII figures with 95% CI were calculated for 2001-2003, 2004-2006, 2007-2009, 2010-2012 and 2013-2015 to allow a comparison to be made over time of absolute and relative differences. Whilst they were calculated for all foods and nutrients, it is acknowledged that a linear difference was not found for all foods and nutrients for each of the 3-year time periods. The results show that absolute and relative inequalities in food/nutrient intakes have not changed appreciably between 2001 and 2015. The magnitude of the inequalities is substantial for some foods, e.g. fruit and vegetables where the mean intake in the most deprived was the equivalent of around 2 portions less than the least deprived.

Appendix 9: Slope Index of Inequality and Relative Index of Inequality

Table A: Slope Index of Inequality (SII) and Relative Index of Inequality (RII) for the relationship between SIMD quintiles and 2013 Scottish Dietary Goal Foods – EFS/LCFS data (g/person/day, with the exception of fish g/person/week)<sup>1</sup>

Food <sup>2</sup>	<b>2001-2003</b> <b>SII</b> <sup>4,5</sup> 95% CI	<b>2004-2006<sup>3</sup></b> SII <sup>4,5</sup> 95% CI	<b>2007-2009</b> <b>SII</b> <sup>4,5</sup> 95% CI	<b>2010-2012</b> <b>SII</b> <sup>4,5</sup> 95% CI	<b>2013-2015</b> <b>SII</b> <sup>4,5</sup> 95% CI	P-value for Linear Association for SSI	<b>2001-2003</b> <b>RII</b> ⁵ 95%CI	<b>2004-2006</b> ³ <b>RII</b> ⁵ 95%CI	<b>2007-2009</b> <b>RII</b> ⁵ 95%CI	<b>2010-2012</b> <b>RII</b> ⁵ 95% CI	<b>2013-2015</b> <b>RII</b> ⁵ 95% CI
Fruit and Vegetables <sup>6, 7</sup>	167	157	166	148	131	0.700	0.65	0.57	0.58	0.55	0.51
	132, 202	124, 190	128, 204	105, 192	90.6, 172	0.733	0.51, 0.79	0.45, 0.69	0.45, 0.72	0.39, 0.72	0.35, 0.67
Fruit <sup>6</sup>	119	104	112	95.2	88.5	0.540	0.90	0.71	0.72	0.68	0.68
	95.5, 143	81.9, 126	85.3, 138	66.6, 124	59.4, 118	0.546	0.72, 1.07	0.56, 0.86	0.55, 0.90	0.48, 0.88	0.46, 0.91
Fruit (and vegetable) Juice	119	104	112	95.2	27.7	0.000	2.80	2.31	2.38	2.15	0.75
	95.5, 143	81.9, 126	85.3, 138	66.6, 124	16.3, 39.0	0.293	2.25, 3.35	1.82, 2.80	1.82, 2.95	1.51, 2.79	0.44, 1.06
Vegetables <sup>7</sup>	47.7	52.9	54.3	53.3	42.8	0.945	0.39	0.41	0.42	0.42	0.33
	31.4, 63.9	34.1, 71.8	35.2, 73.3	27.6, 79.0	20.0, 65.7		0.25, 0.52	0.27, 0.56	0.27, 0.56	0.22, 0.62	0.16, 0.51
Oil Rich Fish	25.4	34.2	25.1	22.6	22.7	0.000	0.81	0.89	0.78	0.77	0.77
	12.8, 38.1	19.0, 49.4	13.7, 36.5	10.9, 34.2	8.2, 37.3	0.830	0.41, 1.22	0.49, 1.28	0.43, 1.14	0.37, 1.16	0.28, 1.27
Total Red Meat <sup>8</sup>	-12.2	-13.9	-8.6	-5.5	-7.8		-0.19	-0.23	-0.14	-0.09	-0.14
	-19.5, -4.9	-22.8, -5.1	-19.3, 2.1	-17.0, 6.0	-18.0, 2.5	0.759	-0.30, -0.08	-0.37, -0.08	-0.31, 0.03	-0.28, 0.10	-0.32, 0.04
n Households	1750	1731	1537	1436	1266		1750	1731	1537	1436	1266
n People	4022	3975	3371	3181	2825		4022	3975	3371	3181	2825
n People Weighted <sup>9</sup>	14935	14776	15356	15336	15679		14935	14776	15356	15336	15679

¹Household and eating out consumption combined; ²See appendices 1 & 3 for methodology; ³From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; ⁴Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); ⁵A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; ⁶Fruit includes fruit and vegetable juice; <sup>7</sup>Vegetables include baked beans; ⁶Meat portion only (includes processed red meat products e.g. sausages, meat pies, burgers, and pate); ⁰The results are weighted to the Scottish population, the number provided is approximately 1000<sup>th</sup> of the Scottish population

Appendix 9: Slope Index of Inequality and Relative Index of Inequality

Table B: Slope Index of Inequality (SII) and Relative Index of Inequality (RII) for the relationship between SIMD quintiles and 2013 Scottish Dietary Goal Nutrients – EFS/LCFS data (units/person/day)<sup>1</sup>

Nutrient <sup>2</sup>	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015	P-value for	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015
	<b>SII</b> <sup>4,5</sup>	<b>SII</b> <sup>4,5</sup>	<b>SII</b> <sup>4,5</sup>	SII <sup>4,5</sup>	SII <sup>4,5</sup>	Linear	RII⁵	RII⁵	RII⁵	RII⁵	RII⁵
	95% CI	95% CI	95% CI	95% CI	95% CI	Association for SSI	95%CI	95%CI	95%CI	95% CI	95% CI
F	-11.4	-16.0	-9.1	-11.4	-11.3	0.740	-0.07	-0.09	-0.05	-0.07	-0.06
Energy Density kcal/100g <sup>6</sup>	-17.3, -5.6	-22.6, -9.4	-16.9, -1.3	-19.8, -3.0	-23.8, 1.2	0.713	-0.10, -0.03	-0.13, -0.06	-0.10, -0.01	-0.11, -0.02	-0.14, 0.01
0/ 5 5-1	-0.2	-0.6	-0.1	0.5	0.0	0.705	-0.01	-0.02	0.00	0.01	0.00
% Food Energy - Fat	-1.4, 1.1	-1.8, 0.5	-1.7, 1.6	-1.0, 2.0	-1.8, 1.7	0.795	-0.04, 0.03	-0.05, 0.01	-0.04, 0.04	-0.02, 0.05	-0.04, 0.04
0/ Food Francy Saturated Fat	0.1	0.2	0.3	0.7	0.0	0.513	0.01	0.01	0.02	0.05	0.00
% Food Energy -Saturated Fat	-0.4, 0.6	-0.5, 0.9	-0.3, 0.9	0.1, 1.4	-0.8, 0.8	0.513	-0.03, 0.04	-0.03, 0.06	-0.02, 0.06	0.00, 0.09	-0.05, 0.05
% Food Energy - NMES	-2.4	-2.2	-1.5	-1.4	-1.6	0.777	-0.15	-0.14	-0.10	-0.10	-0.12
% FOOd Energy - NIVIES	-3.7, -1.1	-3.8, -0.6	-2.6, -0.4	-2.7, -0.1	-3.3, 0.0	0.777	-0.24, -0.07	-0.25, -0.04	-0.17, -0.03	-0.18, -0.01	-0.23, 0.00
NCD ~	2.4	2.6	2.7	2.6	3.2	0.894	0.20	0.21	0.21	0.22	0.27
NSP g	1.3, 3.5	1.6, 3.6	1.5, 3.9	1.5, 3.8	2.0, 4.3	0.694	0.11, 0.28	0.13, 0.29	0.12, 0.30	0.12, 0.31	0.17, 0.36
Food Factory keel	-7.2	25.8	42.7	126	177	0.598	0.00	0.01	0.02	0.06	0.09
Food Energy kcal	-163, 149	-120, 171	-136, 221	-67.0, 319	2.6, 351	0.596	-0.08, 0.07	-0.06, 0.09	-0.07, 0.11	-0.03, 0.16	0.00, 0.19
Food Foorma M.I.	0.0	0.1	0.2	0.5	0.7	0.507	0.00	0.01	0.02	0.06	0.09
Food Energy MJ	-0.7, 0.6	-0.5, 0.7	-0.6, 0.9	-0.3, 1.3	0.0, 1.5	0.597	-0.08, 0.07	-0.06, 0.09	-0.07, 0.11	-0.04, 0.16	0.00, 0.19
O/ Food Foorm: Drotoin	0.7	0.7	0.1	0.7	0.4	0.074	0.05	0.05	0.01	0.05	0.03
% Food Energy Protein	0.2, 1.2	0.2, 1.2	-0.4, 0.5	0.0, 1.4	-0.1, 0.9	0.271	0.02, 0.08	0.01, 0.09	-0.03, 0.04	0.00, 0.10	0.00, 0.06
O/ Farad Faranas Orah alaudus (a	-0.5	-0.1	0.0	-1.3	-0.5	0.705	-0.01	0.00	0.00	-0.03	-0.01
% Food Energy Carbohydrate	-1.8, 0.8	-1.3, 1.2	-1.7, 1.7	-2.8, 0.2	-2.3, 1.3	0.765	-0.04, 0.02	-0.03, 0.03	-0.04, 0.04	-0.06, 0.01	-0.05, 0.03
Total Energy	9.4	46.9	48.1	151	204	0.500	0.00	0.02	0.02	0.07	0.10
kcal	-151, 170	-106, 200	-133, 229	-46.7, 348	16.0, 392	0.588	-0.07, 0.08	-0.05, 0.10	-0.06, 0.11	-0.02, 0.17	0.01, 0.20
Total Cooper, M.I.	0.0	0.2	0.2	0.6	0.9	0.500	0.00	0.02	0.02	0.07	0.10
Total Energy MJ	-0.6, 0.7	-0.4, 0.8	-0.6, 1.0	-0.2, 1.5	0.1, 1.6	0.588	-0.07, 0.08	-0.05, 0.10	-0.06, 0.11	-0.02, 0.17	0.01, 0.20
0/ Total Engravy Alachal	0.9	0.6	-0.3	0.7	0.5	0.557	0.24	0.17	-0.08	0.18	0.15
% Total Energy Alcohol	-0.1, 1.9	-0.6, 1.9	-1.4, 0.8	-0.7, 2.1	-0.7, 1.8	0.557	-0.02, 0.50	-0.17, 0.50	-0.37, 0.21	-0.2, 0.56	-0.20, 0.50
n Households	1750	1731	1537	1436	1266		1750	1731	1537	1436	1266
n People n People Weighted <sup>7</sup>	4022 14935	3975 14776	3371 15356	3181 15336	2825 15679		4022 14935	3975 14776	3371 15356	3181 15336	2825 15679

¹Household and eating out intakes combined; ²See appendices 1, 3 and 4 for methodology; ³From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; ⁴Mean difference in intake (units/person/day) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); ⁵A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; ⁵Calculated from food and milk; ¬The results are weighted to the Scottish population - the number provided is approximately 1000th of the Scottish population

Appendix 9: Slope Index of Inequality and Relative Index of Inequality

Table C: Slope Index of Inequality (SII) and Relative Index of Inequality (RII) for the relationship between SIMD quintiles and Additional Foods and Drinks Indicative of Diet Quality (Table A) – EFS/LCFS data (g/person/day)<sup>1</sup>

Food <sup>2</sup>	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015	P-value for	2001-2003	2004-2006 <sup>3</sup>	2007-2009	2010-2012	2013-2015
	SII <sup>4,5</sup>	SII <sup>4,5</sup>	SII <sup>4,5</sup>	<b>SII</b> <sup>4,5</sup>	<b>SII</b> <sup>4,5</sup>	Linear Association	RII⁵	RII⁵	RII⁵	RII⁵	RII⁵
	95% CI	95% CI	95% CI	95% CI	95% CI	for SSI	95%CI	95%CI	95%CI	95% CI	95% CI
Brown/Wholemeal Bread	12.6	9.6	9.1	9.3	7.6	0.659	0.70	0.42	0.40	0.43	0.41
	8.2, 17.1	4.4, 14.8	4.0, 14.2	3.1, 15.4	2.8, 12.4	0.059	0.46, 0.95	0.19, 0.65	0.18, 0.62	0.14, 0.71	0.15, 0.67
Total Bread	-17.7	-10.8	-14.1	-3.6	-1.9	0.187	-0.16	-0.11	-0.15	-0.04	-0.02
	-28.7, -6.6	-22.6, 1.0	-23.5, -4.7	-17.8, 10.5	-12.2, 8.3	0.107	-0.27, -0.06	-0.22, 0.01	-0.25, -0.05	-0.19, 0.11	-0.15, 0.10
High Fibre Breakfast Cereal	9.5	10.5	11.5	8.8	10.6	0.865	0.92	0.95	0.86	0.74	0.91
	5.9, 13.0	7.1, 13.8	8.3, 14.8	5.5, 12.2	7.3, 13.8	0.805	0.57, 1.26	0.64, 1.24	0.62, 1.10	0.46, 1.02	0.63, 1.18
Total Breakfast Cereal	10.9	13.8	13.4	10.7	10.0	0.726	0.56	0.70	0.60	0.51	0.49
	6.6, 15.3	9.7, 17.9	8.3, 18.4	5.0, 16.3	5.0, 15.1	0.736	0.34, 0.78	0.49, 0.90	0.37, 0.82	0.24, 0.77	0.25, 0.74
Cakes and Pastries	2.6	1.9	6.1	7.1	5.5	0.105	0.15	0.11	0.35	0.43	0.33
	-1.6, 6.9	-2.3, 6.0	1.9, 10.3	3.6, 10.5	0.6, 10.0	0.105	-0.09, 0.40	-0.13, 0.34	0.11, 0.59	0.22, 0.64	0.04, 0.63
Sweet Biscuits	2.7	-0.9	1.0	5.8	0.5	0.400	0.12	-0.04	0.04	0.28	0.02
	-1.6, 7.0	-5.5, 3.7	-3.8, 5.7	1.9, 9.8	-4.5, 5.5	0.129	-0.07, 0.31	-0.26, 0.18	-0.16, 0.24	0.09, 0.47	-0.21, 0.25
Cakes, Sweet Biscuits and	5.4	1.0	7.1	12.9	5.9	0.004	0.14	0.03	0.17	0.35	0.16
Pastries	-1.6, 12.3	-6.2, 8.2	-0.5, 14.6	7.0, 18.8	-0.4, 12.3	0.061	-0.04, 0.31	-0.16, 0.21	-0.01, 0.36	0.19, 0.51	-0.01, 0.32
Ice Cream and Dairy	3.3	0.3	-5.9	-5.2	4.7	0.450	0.10	0.01	-0.18	-0.17	0.14
Desserts	-6.7, 13.2	-10.8, 11.4	-15.3, 3.4	-15.0, 4.6	-5.2, 14.6	0.450	-0.20, 0.41	-0.33, 0.35	-0.47, 0.11	-0.49, 0.15	-0.16, 0.44
Sugar and Preserves	-4.8	-3.4	0.6	-2.6	4.8	0.007	-0.26	-0.20	0.03	-0.15	0.31
	-9.7, 0.1	-10.2, 3.4	-5.0, 6.3	-7.7, 2.5	0.6, 9.0	0.027	-0.52, 0.01	-0.60, 0.20	-0.28, 0.35	-0.45, 0.14	0.04, 0.58
Chocolate Confectionery	1.7	0.8	1.7	0.4	0.2	0.074	0.11	0.06	0.11	0.03	0.01
•	-2.3, 5.7	-2.8, 4.4	-2.7, 6.0	-3.6, 4.4	-3.4, 3.8	0.974	-0.16, 0.39	-0.20, 0.31	-0.18, 0.39	-0.26, 0.31	-0.25, 0.28
Sugar Confectionery	-1.0	-1.1	-1.8	-1.4	-1.3	0.004	-0.13	-0.16	-0.26	-0.20	-0.17
	-2.9, 0.9	-3.3, 1.1	-4.3, 0.7	-3.7, 0.9	-3.8, 1.2	0.991	-0.37, 0.12	-0.49, 0.16	-0.63, 0.10	-0.53, 0.12	-0.49, 0.16
Total Confectionery	0.7	-0.3	-0.1	-1.0	-1.1	0.005	0.03	-0.01	0.00	-0.05	-0.05
	-4.5, 5.8	-5.5, 4.8	-5.6, 5.3	-6.1, 4.0	-5.6, 3.4	0.985	-0.20, 0.26	-0.26, 0.23	-0.25, 0.24	-0.29, 0.19	-0.26, 0.16
Sugar Containing Soft	-123	-124	-134	-66.3	-73.1	0.040	-0.50	-0.53	-0.62	-0.37	-0.47
Drinks	-178, -68.7	-186, -62.5	-185, -82.7	-113, -19.8	-125, -21.4	0.248	-0.73, -0.28	-0.79, -0.27	-0.86, -0.38	-0.63, -0.11	-0.80, -0.14
Sugar Free Soft Drinks	35.6	-40.1	-9.4	19.7	25.2	0.000	0.34	-0.43	-0.11	0.17	0.19
	6.2, 65.1	-73.4, -6.7	-47.8, 29.0	-23.0, 62.5	-25.8, 76.3	0.022	0.06, 0.63	-0.78, -0.07	-0.54, 0.33	-0.19, 0.53	-0.19, 0.57
Total Soft Drinks	-87.8	-164	-143	-46.5	-47.8	0.004	-0.25	-0.50	-0.47	-0.16	-0.17
	-146, -29.4	-238, -90.1	-210, -76.7	-101, 8.1	-122, 27.7	0.034	-0.42, -0.08	-0.73, -0.28	-0.69, -0.25	-0.34, 0.03	-0.42, 0.09
n Households	1750	1731	1537	1436	1266	<u> </u>	1750	1731	1537	1436	1266
n People	4022	3975	3371	3181	2825		4022	3975	3371	3181	2825
n People Weighted <sup>6</sup>	14935	14776	15356	15336	15679		14935	14776	15356	15336	15679

¹Household and eating out consumption combined; ²See appendices 1 & 3 for methodology; ³From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; ⁴Mean difference in intake (g/person/day) in the most deprived relative to the least deprived (slope of the gradient between the most deprived and the least deprived); ⁵A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; ⁶The results are weighted to the Scottish population, the number provided is approximately 1000th of the Scottish population

Appendix 9: Slope Index of Inequality and Relative Index of Inequality

Table D: Slope Index of Inequality (SII) and Relative Index of Inequality (RII) for the relation of SIMD quintiles on Additional Foods and Drinks Indicative of

Diet Quality (Table B) - EFS/LCFS data (g/person/day)<sup>1</sup>

Food <sup>2</sup>	<b>2001-2003</b> <b>SII</b> <sup>4,5</sup> 95% CI	<b>2004-2006</b> <sup>3</sup> SII <sup>4,5</sup> 95% CI	<b>2007-2009</b> <b>SII</b> <sup>4,5</sup> 95% CI	<b>2010-2012</b> <b>SII</b> <sup>4,5</sup> 95% CI	<b>2013-2015</b> <b>SII</b> <sup>4,5</sup> 95% CI	P-value for Linear Association for SSI	<b>2001-2003</b> <b>RII</b> ⁵ 95%CI	<b>2004-2006</b> <sup>3</sup> <b>RII</b> <sup>5</sup> 95%CI	<b>2007-2009</b> <b>RII</b> ⁵ 95%CI	<b>2010-2012</b> <b>RII</b> ⁵ 95% CI	<b>2013-2015</b> <b>RII</b> ⁵ 95% CI
Bacon and Ham	-0.6 -3.3, 2.0	0.3 -2.6, 3.3	1.5 -1.3, 4.2	1.3 -1.6, 4.3	-0.7 -3.7, 2.3	0.693	-0.05 -0.27, 0.16	0.03 -0.22, 0.28	0.12 -0.11, 0.34	0.11 -0.13, 0.34	-0.06 -0.33, 0.21
Other Processed Red Meat Products <sup>6,7</sup>	-14.1 -18.0, -10.3	-14.4 -19.2, -9.6	-13.1 -18.3, -7.8	-10.8 -15.4, -6.2	-8.3 -13.2, -3.3	0.374	-0.48 -0.61, -0.35	-0.53 -0.71, -0.35	-0.49 -0.68, -0.29	-0.40 -0.58, -0.23	-0.32 -0.51, -0.13
Savoury Meat Pies	-5.8 -7.9, -3.7	-6.1 -8.8, -3.4	-3.4 -6.4, -0.4	-3.1 -6.1, -0.2	-4.9 -7.9, -1.9	0.392	-0.56 -0.76, -0.35	-0.59 -0.85, -0.33	-0.35 -0.66, -0.04	-0.32 -0.63, -0.02	-0.56 -0.91, -0.22
Butter	1.4 -0.3, 3.2	2.1 -0.5, 4.8	1.6 -0.6, 3.7	2.3 -0.5, 5.0	2.9 0.8, 5.0	0.813	0.24 -0.05, 0.55	0.31 -0.07, 0.72	0.25 -0.09, 0.57	0.32 -0.07, 0.70	0.38 0.10, 0.65
Soft Margarine	-0.8 -1.7, 0.2	-1.5 -2.4, -0.6	-0.2 -1.4, 1.0	-0.2 -1.9, 1.5	0.1 -1.6, 1.7	0.329	-0.60 -1.34, 0.14	-0.91 -1.48, -0.34	-0.10 -0.68, 0.48	-0.09 -0.92, 0.73	0.04 -0.90, 0.98
Low Fat Spread	-0.5 -2.8, 1.8	0.2 -1.9, 2.3	-1.6 -3.8, 0.6	-1.8 -4.5, 1.0	-2.8 -4.9, -0.7	0.402	-0.06 -0.31, 0.20	0.02 -0.26, 0.31	-0.23 -0.54, 0.08	-0.28 -0.73, 0.16	-0.56 -0.98, -0.13
Total Spreading Fats	0.2 -2.7, 3.1	0.8 -2.7, 4.3	-0.2 -2.9, 2.4	0.3 -3.5, 4.1	0.2 -2.3, 2.6	0.993	0.01 -0.17, 0.19	0.05 -0.17, 0.27	-0.01 -0.18, 0.16	0.02 -0.23, 0.27	0.01 -0.16, 0.18
Cooking Oil	-2.1 -4.7, 0.4	-2.3 -6.1, 1.5	-1.8 -5.8, 2.2	-1.0 -5.1, 3.2	-4.4 -8.7, -0.1	0.844	-0.40 -0.87, 0.07	-0.37 -1.00, 0.25	-0.28 -0.89, 0.33	-0.15 -0.81, 0.51	-0.70 -1.38, -0.01
Cream	2.6 1.5, 3.6	3.0 1.9, 4.1	4.5 3.0, 6.0	4.0 2.3, 5.7	4.2 2.6, 5.8	0.083	1.05 0.61, 1.49	1.00 0.64, 1.36	1.45 0.97, 1.93	1.21 0.70, 1.72	1.17 0.72, 1.62
Cheese	7.0 3.4, 10.6	6.5 3.7, 9.3	7.1 4.3, 9.8	7.1 4.9, 9.4	4.8 1.6, 8.0	0.751	0.49 0.24, 0.75	0.46 0.26, 0.66	0.46 0.28, 0.64	0.49 0.33, 0.64	0.33 0.11, 0.55
Whole Milk	-77.7 -109, -46.2	-63.6 -88.6, -38.7	-53.0 -82.1, -23.9	-50.7 -78.4, -23.0	-37.2 -53.6, -20.9	0.189	-0.88 -1.23, -0.52	-0.96 -1.34, -0.58	-0.93 -1.44, -0.42	-1.12 -1.74, -0.51	-0.98 -1.42, -0.55
Semi-skimmed Milk	21.0 -6.7, 48.8	28.7 -1.9, 59.2	10.9 -23.6, 45.3	33.7 1.6, 65.9	38.9 2.7, 75.1	0.796	0.17 -0.05, 0.39	0.22 -0.01, 0.46	0.08 -0.17, 0.33	0.25 0.01, 0.49	0.30 0.02, 0.57
Skimmed Milk	6.5 -2.1, 15.2	12.1 4.1, 20.1	7.2 -2.3, 16.8	4.6 -5.4, 14.6	12.0 3.0, 21.1	0.725	0.53 -0.17, 1.25	0.87 0.29, 1.45	0.43 -0.14, 1.00	0.30 -0.36, 0.96	1.02 0.25, 1.78
Total Milk	-53.2 -90.5, -15.9	-30.4 -70.8, 10.0	-26.2 -58.1, 5.7	-14.2 -48.8, 20.4	1.3 -32.2, 34.7	0.308	-0.21 -0.36, -0.06	-0.13 -0.31, 0.04	-0.11 -0.25, 0.02	-0.07 -0.23, 0.10	0.01 -0.16, 0.18
White Fish	26.1 6.3, 46.0	36.5 19.0, 54.0	39.1 10.9, 67.3	38.1 8.2, 68.0	50.2 27.0, 73.4	0.662	0.28 0.07, 0.49	0.41 0.21, 0.60	0.41 0.12, 0.71	0.47 0.10, 0.84	0.67 0.36, 0.98
Fresh Potatoes	-10.9 -20.7, -1.0	2.8 -9.5, 15.1	5.8 -5.3, 16.8	-3.1 -15.4, 9.3	0.0 -11.6, 11.6	0.214	-0.18 -0.35, -0.02	0.05 -0.17, 0.27	0.11 -0.10, 0.32	-0.07 -0.33, 0.20	0.00 -0.29, 0.29
Processed Potatoes	-12.1 -16.8, -7.4	-17.0 -21.5, -12.5	-15.5 -22.4, -8.6	-13.2 -20.3, -6.0	-8.7 -16.0, -1.5	0.275	-0.37 -0.52, -0.23	-0.61 -0.77, -0.45	-0.55 -0.79, -0.30	-0.45 -0.69, -0.21	-0.30 -0.54, -0.05
Nuts	1.9 0.8, 3.0	2.4 0.9, 3.8	2.5 0.7, 4.3	3.5 1.6, 5.4	3.3 1.8, 4.7	0.489	0.98 0.42, 1.53	0.79 0.29, 1.28	0.69 0.20, 1.19	1.21 0.56, 1.85	0.82 0.46, 1.19
Savoury Snacks	-1.1 -3.6, 1.3	-1.8 -4.5, 1.0	-1.9 -4.8, 0.9	-1.4 -4.2, 1.4	-1.0 -4.1, 2.1	0.989	-0.08 -0.25, 0.09	-0.15 -0.37, 0.08	-0.15 -0.37, 0.07	-0.12 -0.34, 0.11	-0.08 -0.31, 0.16
n Households n People n People Weighted <sup>8</sup>	1750 4022 14935	1731 3975 14776	1537 3371 15356	1436 3181 15336	1266 2825 15679		1750 4022 14935	1731 3975 14776	1537 3371 15356	1436 3181 15336	1266 2825 15679

<sup>1</sup>Household and eating out consumption combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; <sup>4</sup>Mean difference in intake (g/person/day with the exception of fish g/person/week) in the most deprived (slope of the gradient between the most deprived and the least deprived); <sup>5</sup>A positive figure indicates that consumption / intakes are highest in the least deprived and a negative figure indicates that consumption / intakes are highest in the most deprived; <sup>6</sup>Meat portion only; <sup>7</sup>Other processed red meat products includes the meat portion of sausages, meat pies, corned beef, burgers and pate and is a component of total red meat; <sup>6</sup>The results are weighted to the Scottish population, the number provided is approximately 1000th of the Scottish population

## Appendix 10: Mean Food Consumption and Nutrient Intake Results by Year

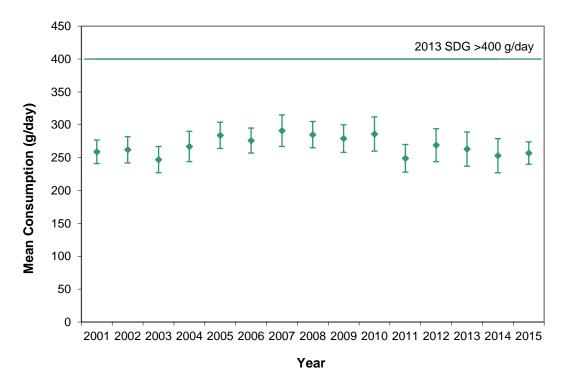
Table A: Mean Consumption<sup>1</sup> of 2013 Scottish Dietary Goal Foods by Year, 2001 to 2015 - EFS / LCFS data (g/person/day with the exception of fish:

g/person/week)

g/pc/30///W	,																	
Food <sup>2</sup>	2013 Scottish Dietary Goal	2001 Mean 95% CI	2002 Mean 95% CI	2003 Mean 95% CI	2004 Mean 95% CI	2005 Mean 95% CI	2006 <sup>3</sup> Mean 95% CI	2007 Mean 95% CI	2008 Mean 95% CI	2009 Mean 95% CI	2010 Mean 95% CI	2011 Mean 95% CI	2012 Mean 95% CI	2013 Mean 95% CI	2014 Mean 95% CI	2015 Mean 95% CI	P-value for Linear Association	P-value for Overall Association
Fruit and Vegetables <sup>4, 5</sup>	>400g per day	259 241, 278	262 242, 282	247 227, 267	267 244, 290	284 264, 304	276 257, 296	291 267, 315	285 265, 304	279 258, 299	286 260, 311	249 228, 270	269 244, 293	263 237, 289	253 228, 279	257 240, 274	0.653	0.061
Fruit <sup>4</sup>		133 119, 146	136 121, 152	129 115, 143	140 126, 154	153 139, 167	148 136, 160	165 148, 183	154 139, 169	145 131, 158	150 133, 166	132 118, 145	140 120, 159	134 116, 151	130 115, 145	124 112, 137	0.234	0.005
Fruit (and vegetable) Juice		44 37, 52	44 37, 51	39 33, 45	38 31, 44	50 43, 57	48 42, 54	53 44, 61	45 39, 51	43 36, 50	48 39, 56	40 34, 47	45 31, 59	43 33, 53	35 29, 41	32 27, 37	0.058	0.001
Vegetables <sup>5</sup>		126 118, 135	126 118, 134	118 109, 127	127 116, 137	131 122, 140	128 117, 139	125 115, 136	131 121, 141	134 122, 146	136 119, 153	117 108, 127	129 120, 139	129 116, 143	123 109, 137	133 126, 140	0.298	0.522
Oil Rich Fish	140g per week	27 23, 31	29 23, 35	31 25, 37	32 25, 38	39 23, 55	34 27, 41	30 25, 36	30 24, 37	28 23, 33	26 22, 30	35 26, 43	28 23, 32	27 22, 31	28 21, 35	34 28, 39	0.688	0.080
Total Red Meat	t <sup>6</sup> ≤70g per day	65 60, 69	65 61, 68	66 62, 70	61 57, 65	62 58, 66	60 56, 64	65 59, 71	58 52, 64	61 57, 65	60 55, 65	62 55, 69	61 57, 66	56 51, 61	55 50, 61	56 52, 61	<0.001	0.012
n Households n People n People Weigl	hted <sup>7</sup>	619 1414 5015	585 1342 4967	546 1266 4952	590 1329 4948	566 1285 4939	577 1365 4906	500 1093 5040	494 1058 5143	543 1222 5181	464 1030 5109	495 1088 5117	477 1063 5111	410 930 5233	433 974 5260	423 921 5186		

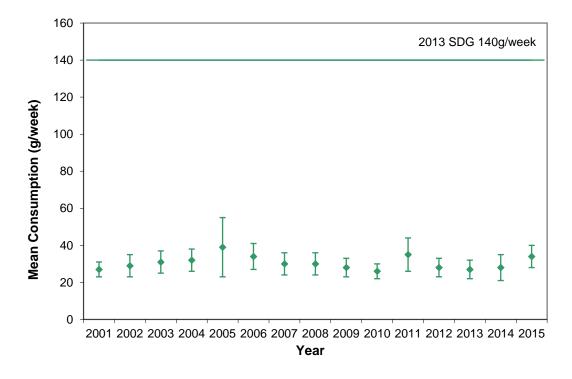
<sup>&</sup>lt;sup>1</sup>Household and eating out consumption combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; <sup>4</sup>Fruit includes fruit and vegetable juice; <sup>5</sup>Vegetables include baked beans; <sup>6</sup>Meat portion only (includes processed red meat products e.g. sausages, meat pies, burgers, and pate); <sup>7</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

Figure A: Mean [95% CI] fruit<sup>1</sup> and vegetable<sup>2</sup> consumption by year 2001-2015 compared to the 2013 Scottish Dietary Goal (>400g/day)



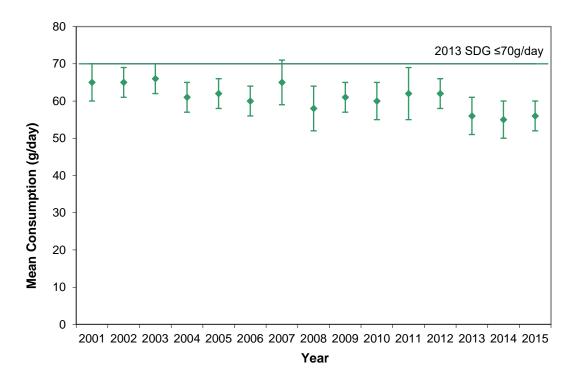
<sup>1</sup>Fruit includes fruit and vegetable juice; <sup>2</sup>Vegetables includes baked beans; P (linear association) = 0.653; P (overall association) = 0.061

Figure B: Mean [95% CI] oil rich fish consumption by year 2001-2015 compared to the 2013 Scottish Dietary Goal (140g/week)



P (linear association) = 0.688; P (overall association) = 0.080

Figure C: Mean [95% CI] total red meat¹ consumption by year 2001-2015 compared to the 2013 Scottish Dietary Goal (≤70g/day)



<sup>1</sup>Meat portion only; P (linear association) <0.001; P (overall association) = 0.012

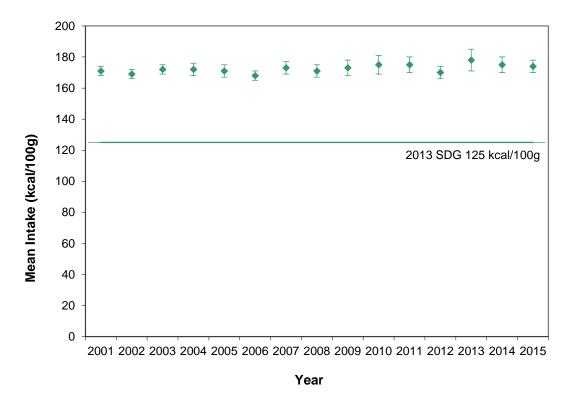
Appendix 10: Mean Food Consumption and Nutrient Intake Results by Year

Table B: Mean Intake<sup>1</sup> of 2013 Scottish Dietary Goal Nutrients and Macronutrients by Year, 2001 to 2015 - EFS / LCFS data (units/person/day)

										,								
	2013	2001	2002	2003	2004	2005	2006³	2007	2008	2009	2010	2011	2012	2013	2014	2015	P-value for	P-value for
Nutrient <sup>2</sup>	Scottish Dietary	Mean	Mean	Mean	Mean	Linear	Overall											
	Goal	95% CI	95% CI	95% CI	95% CI	Association	Association											
Energy Density	125kcal/	171	169	172	172	171	168	173	171	173	175	175	170	178	175	174	0.007	0.440
kcal/100g <sup>4</sup>	100g	168, 175	166, 172	169, 175	168, 176	167, 175	165, 172	169, 176	167, 175	168, 177	171, 178	170, 180	166, 174	171, 184	170, 179	170, 177	0.007	0.146
% Food Energy	<b>-2050</b> /	38.8	38.7	38.9	38.6	38.9	38.7	38.6	39.0	39.0	38.7	39.0	39.4	39.6	39.5	38.9	0.050	0.791
Fat	≥35%	38.1, 39.6	38.1, 39.2	38.2, 39.7	38.0, 39.2	38.2, 39.6	38.0, 39.4	38.0, 39.3	38.3, 39.6	38.4, 39.6	37.8, 39.7	38.4, 39.7	38.5, 40.4	38.7, 40.4	38.5, 40.5	38.2, 39.7	0.053	0.791
% Food Energy		15.5	15.6	15.6	15.4	15.4	15.7	15.3	15.3	15.1	15.0	15.0	15.5	15.4	15.3	15.1	0.014	0.035
Saturated Fat	≥1170	15.2, 15.8	15.3, 15.9	15.2, 16.0	15.1, 15.7	15.1, 15.7	15.3, 16.0	15.0, 15.6	15.0, 15.7	14.8, 15.4	14.5, 15.5	14.7, 15.4	15.1, 15.9	14.9, 15.8	14.8, 15.8	14.7, 15.5	0.014	0.035
% Food Energy		15.5	15.6	16.1	15.5	15.2	15.0	14.9	15.0	14.8	15.4	14.0	14.4	14.5	14.1	14.4	<0.001	0.012
NMES	≥1170	14.9, 16.1	15.1, 16.1	15.3, 16.8	14.8, 16.2	14.6, 15.9	14.4, 15.7	14.4, 15.5	14.4, 15.6	14.2, 15.5	14.7, 16.1	13.2, 14.9	13.7, 15.2	13.6, 15.4	13.5, 14.8	13.4, 15.3	<0.001	0.012
NSP	19a/dov	12	12	12	12	12	12	13	13	13	13	12	12	12	12	12	0.046	0.325
	18g/day	12, 13	12, 13	12, 13	12, 13	12, 13	12, 13	12, 13	12, 14	12, 13	12, 14	11, 13	11, 12	11, 13	11, 12	11, 13	0.040	0.323
Food Energy		2066	2047	2044	1997	1999	1977	2081	2013	2022	2056	1856	1913	1919	1859	1890	<0.001	0.000
kcal		1998, 2134	1983, 2112	1963, 2125	1920, 2074	1916, 2081	1908, 2045	1978, 2184	1890, 2137	1951, 2093	1945, 2167	1752, 1959	1828, 1999	1807, 2030	1764, 1955	1785, 1995	<0.001	0.002
Food Energy		8.7	8.6	8.6	8.4	8.4	8.3	8.7	8.5	8.5	8.5	7.8	8.0	8.0	7.8	7.9	<0.001	0.001
MJ		8.4, 9.0	8.3, 8.9	8.3, 8.9	8.1, 8.7	8.1, 8.7	8.0, 8.6	8.3, 9.2	7.9, 9.0	8.2, 8.8	8.0, 8.9	7.4, 8.2	7.7, 8.4	7.6, 8.5	7.4, 8.2	7.5, 8.4	<0.001	0.001
% Food Energy	,	14.3	14.3	14.3	14.2	14.4	14.3	14.2	14.1	14.2	14.0	14.4	14.3	13.7	14.1	14.4	0.107	0.082
Protein		14.1, 14.6	14.1, 14.6	14.0, 14.5	14.0, 14.5	14.1, 14.7	14.0, 14.6	14.0, 14.4	13.8, 14.4	13.9, 14.6	13.7, 14.3	14.1, 14.8	14.0, 14.5	13.5, 14.0	13.9, 14.4	14.0, 14.7	0.107	0.082
% Food Energy	,	46.9	47.0	46.8	47.2	46.7	47.0	47.1	46.9	46.7	47.1	46.4	46.2	46.6	46.3	46.6	0.071	0.918
Carbohydrate		46.1, 47.6	46.4, 47.6	46.0, 47.6	46.6, 47.8	46.0, 47.4	46.3, 47.7	46.4, 47.9	46.2, 47.5	46.0, 47.3	46.3, 48.0	45.7, 47.1	45.1, 47.2	45.8, 47.5	45.3, 47.3	45.7, 47.4	0.071	0.918
Total Energy		2143	2120	2115	2065	2075	2054	2148	2077	2096	2129	1921	1983	1978	1926	1951	0.004	
kcal		2072, 2214	2052, 2187	2032, 2198	1985, 2145	1990, 2160	1980, 2129	2041, 2254	1949, 2205	2027, 2165	2018, 2239	1816, 2027	1897, 2069	1863, 2093	1824, 2028	1846, 2057	<0.001	0.002
Total Factor M		9.0	8.9	8.8	8.6	8.7	8.6	9.0	8.7	8.8	8.9	8.0	8.3	8.3	8.1	8.2		0.000
Total Energy M.	J	8.7, 9.3	8.6, 9.2	8.5, 9.2	8.3, 9.0	8.3, 9.0	8.3, 8.9	8.5, 9.4	8.2, 9.2	8.5, 9.1	8.4, 9.4	7.6, 8.5	7.9, 8.7	7.8, 8.8	7.6, 8.5	7.7, 8.6	<0.001	0.002
% Total Energy		3.8	3.6	3.9	3.3	3.9	4.0	3.8	3.5	4.2	4.0	3.6	3.5	3.9	3.9	3.7	0.074	0.400
Alcohol		3.3, 4.3	3.1, 4.1	3.4, 4.4	2.9, 3.7	3.5, 4.4	3.5, 4.4	3.2, 4.4	3.1, 3.8	3.7, 4.7	3.4, 4.5	3.0, 4.1	2.7, 4.3	3.1, 4.6	3.1, 4.6	3.2, 4.3		0.436
n Households		619	585	546	590	566	577	500	494	543	464	495	477	410	433	423		
n People n People Weiah	nted⁵	1414 5015	1342 4967	1266 4952	1329 4948	1285 4939	1365 4906	1093 5040	1058 5143	1222 5181	1030 5109	1088 5117	1063 5111	930 5233	974 5260	921 5186		
n People Weigh			4967	4952	4948	4939	4906	5040		5181		5117	5111	5233	5260	5186	the lenger	

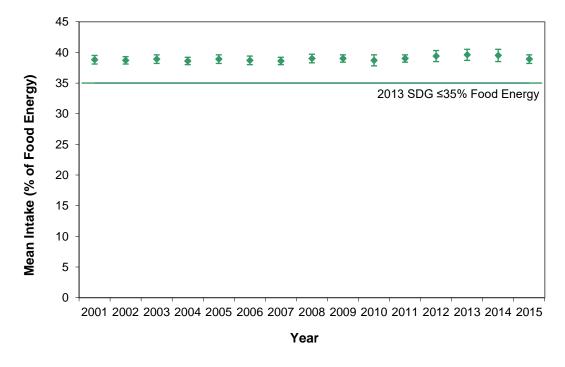
<sup>&</sup>lt;sup>1</sup>Household and eating out intakes combined; <sup>2</sup>See appendices 1, 3 and 4 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; <sup>4</sup>Calculated from food and milk; <sup>5</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

Figure D: Mean [95% CI] energy density (food and milk) by year 2001 - 2015 compared to the 2013 Scottish Dietary Goal (125 kcal/100g)



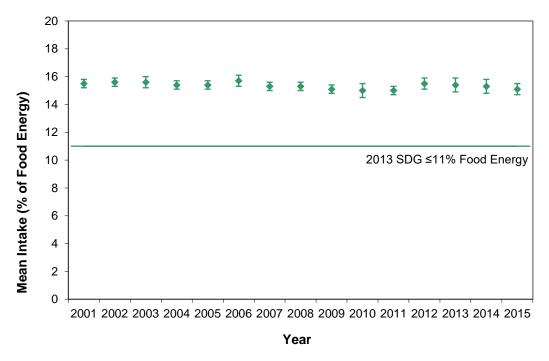
P (linear association) = 0.007; P (overall association) = 0.146

Figure E: Mean [95% CI] fat intake by year 2001 - 2015 compared to the 2013 Scottish Dietary Goal (<35% food energy)



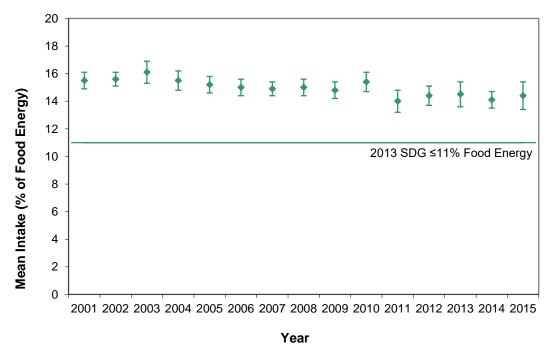
P (linear association) = 0.053; P (overall association) = 0.791

Figure F: Mean [95% CI] saturated fat intake by year 2001 - 2015 compared to the 2013 Scottish Dietary Goal (≤11% food energy)



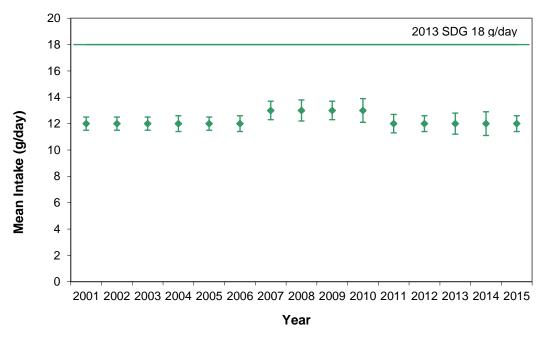
P (linear association) = 0.014; P (overall association) = 0.035

Figure G: Mean [95% CI] NMES intake by year 2001 - 2015 compared to the 2013 Scottish Dietary Goal (≤11% food energy)



P (linear association) < 0.001; P (overall association) = 0.012

Figure H: Mean [95% CI] NSP intake by year 2001 - 2015 compared to the 2013 Scottish Dietary Goal (18g/day)



P (linear association) = 0.046; P (overall association) = 0.325

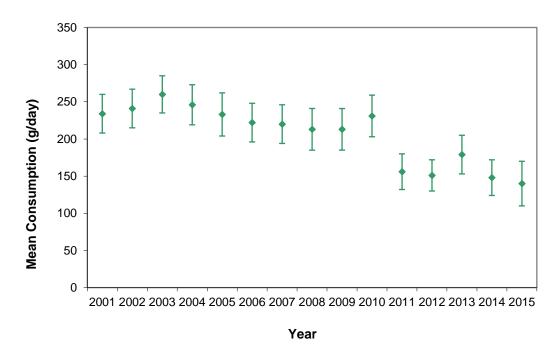
Appendix 10: Mean Food Consumption and Nutrient Intake Results by Year

Table C: Mean Consumption<sup>1</sup> of Additional Foods and Drinks Indicative of Diet Quality by Year (Table A), 2001 to 2015 - EFS / LCF data (g/person/day)

Table C. Mean	Consum	iption o	Auditi	Jilai i U	ous and	פאוווועס	muicat	IVE OIL	iet Qua	IIILY DY	i <del>c</del> ai (ic	IDIE AJ, A	2001 10 21	713 - El 3	LOI date	a (g/person	ruay j
	2001	2002	2003	2004	2005	2006 <sup>3</sup>	2007	2008	2009	2010	2011	2012	2013	2014	2015	P-value for	P-value for
Food <sup>2</sup>	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Mean 95% CI	Linear Association	Overall Association					
Brown/Wholemeal	18	19	17	22	22	24	23	24	21	23	23	20	21	20	15		
Bread	16, 20	16, 21	15, 19	20, 25	19, 25	21, 26	21, 26	21, 26	20, 23	20, 26	19, 26	18, 21	18, 23	18, 22	13, 16	0.471	<0.001
T I.D	111	109	102	100	100	102	98	93	95	94	86	93	90	80	80	0.004	0.004
Total Bread	106, 117	104, 113	96, 109	95, 105	95, 106	96, 108	93, 103	89, 97	90, 100	89, 99	80, 92	87, 99	84, 96	75, 85	75, 84	<0.001	<0.001
High Fibre Breakfast	10	10	10	11	11	11	13	13	14	12	12	11	12	11	12	0.096	0.000
Cereal	8.4, 12	8.7, 12	8.5, 12	9.2, 13	10, 13	9.3, 13	12, 15	10, 15	12, 16	10, 14	10, 15	8.9, 13	10, 14	8.7, 14	11, 13	0.096	0.362
Total Breakfast	20	20	19	21	19	19	22	22	23	22	22	20	21	20	20	0.318	0.627
Cereal	17, 22	17, 22	16, 22	19, 23	17, 22	17, 21	19, 25	19, 25	21, 26	19, 25	19, 24	17, 22	19, 23	18, 23	18, 22	0.316	0.627
Cakes and Pastries	18	17	17	18	16	18	17	19	16	18	15	16	17	15	17	0.083	0.253
Cakes and Pasines	16, 20	15, 19	15, 19	16, 20	15, 18	16, 20	15, 19	17, 21	15, 18	15, 20	14, 17	15, 18	15, 19	13, 18	15, 18	0.083	0.253
Sweet Biscuits	22	23	22	21	20	22	24	24	23	22	19	21	21	23	20	0.250	0.048
Sweet discuits	20, 23	21, 26	20, 24	19, 23	17, 22	20, 25	21, 27	21, 27	21, 25	19, 24	18, 21	18, 23	18, 24	20, 26	19, 22	0.250	0.048
Cakes, Sweet	40	40	39	39	36	41	41	43	39	40	35	37	38	39	37	0.077	0.002
Biscuits and Pastries	37, 43	37, 44	35, 43	36, 42	33, 39	37, 44	37, 45	39, 47	36, 42	36, 43	32, 37	34, 40	35, 41	34, 44	35, 39	0.077	0.083
Ice Cream and Dairy	31	33	34	31	35	33	34	32	32	30	29	33	33	31	35	0.899	0.987
Desserts	27, 35	27, 38	29, 38	25, 37	29, 41	28, 37	28, 40	27, 37	27, 37	25, 35	24, 34	28, 37	26, 40	26, 36	29, 40	0.699	0.967
Sugar and Preserves	19	17	20	18	15	17	19	18	17	18	16	17	16	15	16	0.021	0.096
Sugai and Fleseives	17, 22	15, 19	16, 23	16, 20	13, 18	14, 20	16, 22	15, 21	14, 20	15, 21	13, 19	14, 21	14, 18	12, 18	13, 19	0.02 1	0.090
Chocolate	14	15	16	15	14	14	15	16	15	14	13	14	14	14	13	0.161	0.743
Confectionery	12, 16	13, 17	14, 18	13, 17	12, 15	12, 16	12, 18	13, 18	13, 17	12, 17	12, 15	12, 16	12, 16	12, 16	11, 14	0.101	0.743
Sugar Confectionery	7.6	7.9	7.9	7.1	6.8	6.6	6.8	7.0	7.0	7.1	6.7	7.0	7.5	7.7	7.9	0.963	0.539
Sugar Confectionery	6.5, 8.7	6.6, 9.1	6.9, 8.8	6.2, 8.1	5.5, 8.0	5.4, 7.8	5.9, 7.6	5.0, 8.0	5.9, 8.2	6.1, 8.2	5.7, 7.7	6.0, 8.0	6.0, 9.1	6.6, 8.8	6.5, 9.3	0.903	0.009
Total Confectionery	21	23	24	22	20	20	22	22	22	21	20	21	21	22	21	0.325	0.876
Total Confectionery	19, 24	20, 25	21, 26	19, 24	18, 23	18, 23	18, 25	19, 25	20, 25	18, 25	18, 22	19, 24	18, 24	20, 24	18, 23	0.020	0.070
Sugar-Containing	234	241	260	246	233	222	220	213	213	231	156	151	179	148	140	<0.001	<0.001
Soft Drinks	208, 260	215, 266	235, 284	219, 272	204, 263	196, 248	194, 245	185, 242	185, 241	203, 258	132, 180	130, 172	153, 205	124, 172	110, 170	<b>\0.007</b>	<b>\0.007</b>
Sugar Free Soft	98	108	106	85	85	112	86	100	78	120	98	137	143	121	134	<0.001	<0.001
Drinks	83, 113	89, 126	86, 126	72, 98	67, 102	91, 132	66, 107	81, 119	62, 94	92, 149	78, 118	110, 163	117, 170	97, 146	112, 156	56	<b>\0.007</b>
Total Soft Drinks	332	348	366	331	318	334	306	313	291	351	254	288	322	269	274	<0.001	<0.001
	305, 359	315, 382	337, 395		280, 356	299, 369	269, 342	271, 355	259, 324	317, 386		255, 320	280, 365	246, 293	242, 305	70.001	70.007
n Households	619	585	546	590	566	577	500	494	543	464	495	477	410	433	423		
n People n People Weighted⁴	1414 5015	1342 4967	1266 4952	1329 4948	1285 4939	1365 4906	1093 5040	1058 5143	1222 5181	1030 5109	1088 5117	1063 5111	930 5233	974 5260	921 5186		
ii i eopie weigiited	3013	4307	4302	4340	4333	4900	3040	J143	3101	3109	3117	3111	J233	3200	3100		

<sup>&</sup>lt;sup>1</sup>Household and eating out consumption combined; <sup>2</sup>See appendices 1 & 3 for methodology; <sup>3</sup>From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; <sup>4</sup>The results are weighted to the Scottish population - the number provided is approximately 1000<sup>th</sup> of the Scottish population

Figure I: Mean [95% CI] sugar-containing soft drink consumption by year 2001 - 2015



P (linear association) <0.001; P (overall association) <0.001

Appendix 10: Mean Food Consumption and Nutrient Intake Results by Year

Table D: Mean Consumption<sup>1</sup> of Additional Foods and Drinks Indicative of Diet Quality by Year (Table B), 2001 to 2015 - EFS/ LCF data (g/person/day)

i abie D: M	ean Cor	isumptic	on' of Ac	ditional	Foods a	nd Drini	ks Indica	itive of L	net Qual	ity by Ye	ear (Tabi	e B), 200	1 to 2015	- EFS/ LCI	- data (g	/person/day	y)
	2001	2002	2003	2004	2005	2006 <sup>3</sup>	2007	2008	2009	2010	2011	2012	2013	2014	2015	P-value for	P-value for
Food <sup>2</sup>	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Linear	Overall
	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	95% CI	Association	Association
	12	12	12	11	12	12	12	12	13	12	13	12	12	11	10		
Bacon and Ham	11, 14	10, 13	11, 14	10, 12	11, 13	11, 13	11, 13	11, 13	12, 14	11, 13	12, 15	11, 14	10, 14	9.0, 12	9.4, 12	0.307	0.376
Other Processed	29	29	31	27	29	25	28	25	28	27	25	28	26	25	26		
Red Meat															23, 28	<0.001	0.020
Products <sup>4,5</sup>	26, 32	26, 31	29, 33	25, 29	26, 31	23, 28	26, 31	22, 28	25, 30	24, 29	23, 27	25, 30	24, 29	23, 28			
	11	10	10	10	11	10	11	8.0	10	10	9.3	10	8.7	8.5	9.0	0.000	0.440
Savoury Meat Pies	9.4, 12	9.0, 11	9.0, 12	8.8, 12	10, 12	8.6, 11	10, 13	6.7, 9.4	8.3, 11	8.3, 11	7.8, 11	8.8, 12	7.3, 10	7.0, 10	7.8, 10	0.003	0.112
D //	6.1	5.7	5.6	6.1	6.8	7.3	7.4	6.3	5.7	7.3	7.0	7.4	8.6	7.0	7.4	2 224	2.222
Butter	5.2, 7.1	4.9, 6.6	4.3, 6.9	5.1, 7.0	5.6, 8.0	6.0, 8.5	6.2, 8.6	5.2, 7.4	4.8, 6.7	6.4, 8.2	5.4, 8.7	6.1, 8.7	6.9, 10	5.5, 8.4	6.4, 8.5	<0.001	0.030
O o ft M o man o de o	1.2	1.3	1.3	0.8	2.1	2.0	2.0	2.5	1.8	2.4	1.5	2.4	2.3	1.6	1.2	0.000	0.004
Soft Margarine	0.7, 1.6	0.8, 1.8	0.9, 1.8	0.5, 1.2	1.5, 2.6	1.3, 2.6	1.3, 2.7	1.6, 3.3	1.2, 2.4	1.6, 3.2	0.8, 2.2	1.6, 3.1	1.6, 3.1	1.0, 2.3	0.6, 1.9	0.009	<0.001
Lava Fat Oamaad	10	8.1	9.0	8.9	6.4	6.8	7.3	7.3	6.5	6.0	6.2	6.3	5.9	4.8	4.4	0.004	0.004
Low Fat Spread	8.4, 11	7.0, 9.3	7.8, 10	8.0, 10	5.1, 7.6	5.6, 7.9	6.0, 8.6	5.9, 8.6	5.5, 7.6	4.7, 7.3	5.2, 7.2	4.5, 8.1	4.9, 7.0	3.7, 5.9	3.4, 5.3	<0.001	<0.001
Total Spreading	17	15	16	16	15	16	17	16	14	16	15	16	17	13	13	0.000	0.000
Fats	16, 18	14, 17	14, 18	15, 17	14, 17	14, 18	15, 18	14, 18	13, 15	14, 18	13, 16	14, 18	15, 19	12, 15	12, 14	0.006	0.002
Caalina Oil	6.0	5.0	5.0	6.2	7.0	5.1	6.6	5.9	7.3	6.6	5.9	6.4	6.2	6.2	6.4	0.040	0.500
Cooking Oil	4.4, 7.5	3.9, 6.2	3.8, 6.3	4.7, 7.7	4.8, 9.2	3.6, 6.6	4.5, 8.6	4.2, 7.5	6.0, 8.6	4.6, 8.6	4.6, 7.3	4.2, 8.6	4.4, 8.0	4.5, 7.8	4.4, 8.3	0.218	0.523
O	2.3	2.5	2.4	3.0	2.8	3.2	3.2	2.7	3.3	3.3	3.3	3.4	3.1	4.0	3.6	.0.004	0.045
Cream	1.9, 2.8	1.9, 3.1	1.9, 3.0	2.4, 3.6	2.2, 3.5	2.5, 3.9	2.5, 4.0	2.0, 3.5	2.5, 4.1	2.5, 4.1	2.6, 4.1	2.6, 4.1	2.3, 3.9	3.1, 5.0	2.8, 4.4	<0.001	
Chassa	14	15	14	15	14	13	16	15	15	16	14	14	15	13	15	0.670	0.070
Cheese	13, 16	13, 16	12, 15	14, 16	13, 16	12, 15	14, 17	14, 16	14, 17	15, 18	13, 16	12, 15	13, 17	12, 15	14, 17	0.678	0.079
Whole Milk	92	85	90	68	59	71	59	53	59	45	45	45	44	37	32	-0.004	<0.001
vvriole ivilik	76, 107	73, 97	74, 105	56, 80	47, 71	57, 86	48, 70	38, 68	46, 73	37, 53	31, 59	37, 54	33, 56	29, 46	26, 37	<0.001	<0.001
Semi-skimmed Milk	126	125	125	124	136	127	139	137	138	139	123	143	127	136	132	0.161	0.564
Seriii-Skiiriirieu iviiik	111, 140	113, 138	112, 137	110, 138	122, 150	113, 141	125, 153	121, 154	120, 156	124, 153	104, 141	127, 159	112, 142	121, 151	119, 146	0.101	0.304
Skimmed Milk	15	13	9.2	13	14	14	14	19	18	14	19	12	15	8.7	12	0.953	0.087
Skillilled Wilk	8.9, 21	8.6, 16	6.0, 12	8.6, 18	9.1, 19	11, 18	9.2, 19	14, 24	13, 23	8.3, 19	9.4, 29	7.9, 17	7.2, 23	4.9, 12	9.4, 14	0.955	0.067
Total Milk	250	249	245	227	225	233	234	226	232	218	205	217	202	193	196	<0.001	<0.001
I Olai IVIIIK	235, 266	235, 264	227, 263	210, 243	211, 239	217, 248	220, 248	207, 245	214, 251	201, 235	185, 226	200, 233	179, 226	178, 209	181, 211	<0.001	<0.001
White Fish	94	91	90	85	85	95	96	91	91	91	82	70	75	71	79	<0.001	0.004
WILLIE LISH	85, 104	82, 100	80, 101	76, 94	73, 96	84, 105	83, 110	79, 103	82, 101	76, 106	64, 101	62, 79	65, 86	60, 82	71, 86	₹0.001	0.004
Fresh Potatoes	66	58	56	54	57	60	53	54	50	49	43	47	39	39	42	<0.001	<0.001
	58, 74	52, 64	51, 62	48, 60	52, 63	52, 68	47, 60	47, 61	44, 56	43, 56	37, 48	41, 52	34, 44	34, 45	37, 46	<b>\0.001</b>	<b>\0.001</b>
Processed	33	33	32	28	27	28	29	27	29	29	27	32	29	28	30	0.128	0.068
Potatoes	30, 36	30, 36	29, 35	25, 30	24, 31	25, 31	25, 32	23, 30	26, 32	25, 32	24, 30	27, 37	26, 33	26, 31	27, 33	0.120	0.000
Nuts	2.2	1.8	2.0	2.9	3.0	3.0	3.2	3.7	4.0	3.1	2.6	3.1	4.1	3.6	4.3	3 -0.001	<0.001
INUIO	1.4, 2.9	1.2, 2.3	1.4, 2.5	2.3, 3.6	2.3, 3.8	2.0, 3.9	2.6, 3.9	2.5, 4.9	3.0, 4.9	2.0, 4.2	2.0, 3.3	2.4, 3.8	3.1, 5.1	2.7, 4.5	3.6, 4.9	<b>\0.001</b>	<b>\0.001</b>
Savoury Snacks	15	14	15	12	12	12	14	12	13	14	11	12	14	14	13	0.050	0.003
	13, 16	13, 16	13, 16	11, 13	11, 14	11, 13	12, 15	11, 14	12, 15	12, 15	10, 13	11, 13	12, 16	12, 15	11, 14	0.000	0.003
n Households	619	585	546	590	566	577	500	494	543	464	495	477	410	433	423		
n People	1414	1342	1266	1329	1285	1365	1093	1058	1222	1030	1088	1063	930	974	921		
n People Weighted <sup>6</sup>	5015	4967	4952	4948	4939	4906	5040	5143	5181	5109	5117	5111	5233	5260	5186		

¹Household and eating out consumption combined; ²See appendices 1 & 3 for methodology; ³From 2006 the EFS moved from a financial year to a calendar year basis. As a consequence of this the January to March 2006 data are duplicated in the 2005/2006 and the 2006 results; ⁴Meat portion only; ⁵Other processed red meat products includes the meat portion of sausages, meat pies, corned beef, burgers and pate and is a component of total red meat; ⁵The results are weighted to the Scottish population - the number provided is approximately 1000th of the Scottish population