



National Diet and Nutrition Survey Nutrient Databank: Pre-version 1

User Guide

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1 Background

The National Diet and Nutrition Survey Rolling Programme (NDNS RP) is a cross-sectional survey with a continuous programme of fieldwork, designed to assess the diet, nutrient intake and nutritional status of the general population aged 1.5 years and over living in private households in the UK. The core NDNS RP is funded by UK government, currently delivered through the Office for Health Improvement and Disparities, Department of Health and Social Care in England (OHID, DHSC), and the UK Food Standards Agency (FSA). The NDNS RP is currently carried out by a consortium comprising NatCen Social Research (NatCen) and the Medical Research Council (MRC) Epidemiology Unit at the University of Cambridge. Interviewer fieldwork in Northern Ireland is carried out by the Northern Ireland Statistics and Research Agency (NISRA).

The NDNS provides the only source of nationally representative UK data on the types and quantities of foods consumed by individuals, from which estimates of nutrient intake for the population are derived and on their nutritional status from analysis of blood and urinary biomarkers. Results are used by government to monitor progress toward diet and nutrition objectives of UK Health Departments and develop policy interventions, for example to monitor progress towards a healthy, balanced diet as visually depicted in the Eatwell Guide. The NDNS is an important source of evidence underpinning work of the Scientific Advisory Committee on Nutrition (SACN) and their advice to UK governments on nutrition related matters. The food consumption data is also used by the FSA to assess exposure to chemicals in food, as part of the risk assessment and communication process in response to a food emergency or to inform negotiations on setting regulatory limits for contaminants.

The NDNS programme began in 1992 as a series of cross-sectional surveys designed to be representative of the UK population, each covering a different age group. Since 2008, the NDNS has run continuously as a rolling programme (RP) covering adults and children aged 1.5 years and over. Methods used in the NDNS are kept under review to ensure they remain the best practical methods available.

For Years 1 to 11 of the NDNS RP (2008/09 -2018/19), the UK Nutrient Databank (NDB) has been saved as a survey year specific file i.e. NDNS_Y11_NutrientDatabank. With the change in diet method from a paper diary to the online automated 24-hour recall tool (Intake24) at the start of Year 12 in 2019 and the disruption of fieldwork for some survey years as a result of the COVID-19 pandemic, the NDB datasets are now given a version number and can be cross-referred to the dates of data collection in the NDNS RP. This means a version of the NDB may apply to more than one survey year.

The UK_NDB_pre1 is the version of the NDB used for data collected in the NDNS RP between October 2019 and October 2020. This includes all of the data for Year 12 and the diet and physical activity during COVID-19 follow-up study.

2 Introduction to the NDB

The food level datasets from Intake24 provide nutrients for the foods in amounts as consumed whilst the NDB dataset provides nutrient information per 100g.

The NDB contains extensive information on the nutrient content of foods commonly consumed in the UK and enables nutrient intakes to be calculated from consumption data. Details on the history of the NDB can be found in Appendix A of the NDNS RP Years 9 to 11 report.²

The NDB is compiled with information from the UK Composition of Foods Integrated Dataset (CoFID),³ supplemented by manufacturers' data gathered through food labels and web information and from the FSA Food Recipes Database⁴ and manufacturers' data gathered through food labels and web information. In order to estimate nutrient intakes, values are assigned for all nutrients in all foods (no missing values). Where reliable information is not available for some nutrients, data is obtained by extrapolating estimates from similar foods. All data is carefully evaluated before being incorporated into the databank.

2.1 Rationalisation of the NDB for Intake24

Each year a programme of updates and revisions are made to the NDB including the addition of new food codes as well as the revision of data for existing food codes so that the databank is up-to-date and, as far as possible, reflects the nutrient composition of the food supply for each survey year reported. These are carried out by the MRC Epidemiology Unit in conjunction with OHID.⁵

To date, updates have been carried out annually with priorities based on reported consumed foods for each survey year in the NDNS RP, and to reflect changes in the UK food system. As a result, at the time of introducing Intake24 in Year 12, the NDB and had grown unsystematically to contain over 5,500 food codes with many duplicative and redundant foods. Furthermore, there were differences in the way recipes were reported and coded between the paper diary and Intake24 and the NDB needed to be adapted to accommodate this difference. Therefore, the NDB required both a significant update and downsizing to enable efficient data management and application within Intake24. Details of the review and rationalisation process and an evaluation of the impact of these changes on the NDNS RP dietary data are described in the first stage of the evaluation of the changes in dietary methodology for the NDNS RP.⁶ This resulted in the UK_NDB_pre1 version of the NDB which has around 2,500 food codes including new generic food codes created to allow a single code to represent a range of similar foods. These are mainly new generic codes for sandwiches and salads which were not required before the introduction of Intake24 as these items were previously coded as individual components.

3 Description of the NDB fields and variables

3.1 Food name and food code

All foods are assigned a food code and a clear name is given to describe the code. The name may include specific qualities of the food, informing the user it is a fortified food, or from a specific brand. The food codes in the NDB cannot be linked directly to foods in McCance and Widdowson's Composition of Foods.³

3.2 Food code markers

Each food code is assigned as an 'F' or 'R' code. 'F' indicates that the code exists as an atomic food and 'R' denotes a recipe code usually comprising 2 or more food codes. Details of the recipes held in the 'R' codes are not provided in this dataset.

3.3 Sub food group name and code

Each food code is assigned to a subsidiary (sub) food group, expressed as an integer with an alphabetical suffix, which is a food group level of greater detail than the main food groups. A full breakdown of the NDNS main and sub food groups is provided in the Appendix.

3.4 Water and vitamin loss

Recipe 'R' food codes may have water and vitamin loss assigned, which provides a correction to the nutrient data for associated cooking losses.

3.5 Base and unit (F codes only)

These fields describe how the nutrient data are expressed. For most foods the nutrients are entered per 100 grams (base = 100, unit = grams). For vitamin and mineral supplements, nutrients are entered per tablet, capsule, teaspoon or drop (base = 1, unit = tablet, capsule, teaspoon or drop). The base and unit of a food code must match the form in which items are recorded in the dietary assessment method.

3.6 Dilution

The majority of food codes have a dilution of 1. Concentrated soft drinks and dried products that are made up have a dilution factor greater than 1. For example, if a concentrated drink is usually made up 1 part concentrate to 4 parts water the dilution factor would be 5. This provides the user with additional detail regarding the food in its unconcentrated form; however this is not used in calculating nutrient intakes.

3.7 Edible portion

The majority of food codes have an edible portion of 1; however this will be less than 1 for foods that include waste, such as meat weighed with bones.

3.8 Comments and descriptions

The comments box provides details on when the food code was created, including any updates and the data source. The description box provides details on the number and brand names of products included in calculating the nutrient information, or the food codes used in collating the recipe. Some food codes (particularly dietary supplements) contain nutritional compounds not measured in the NDB (e.g. vitamin K or lutein).

3.9 Nutrition data

Each food code in the NDB has a value assigned for 56 nutrients, including energy, provided in specific units of measurement (see table 1). Additionally, to ensure accurate reporting of specific food types in NDNS, each food code present in the NDB has been disaggregated into 28 specific food components (see table 2). Disaggregation values (g amount in per base unit, e.g. 75g 'fruit' in 100g 'fruit pie') are assigned into the NDB. Nutrient values reported as 'trace' are assumed as zero in the NDB. Some data will have been rounded into the appropriate number of decimal places.

4 Quality assurance

The NDB is designed to perform automated quality assurance checks to nutrient data,8 when food codes are added or updated:

kcal (protein x 4) + (fat x 9) + (carbohydrate x 3.75) + (alcohol x 7)

kJ (protein x 17) + (fat x 37) + (carbohydrate x 16) + (alcohol x 29)

Carbohydrate total sugars + starch

Total sugars sum of all individual sugars

Total iron haem iron + non haem iron

Total carotene β -carotene + (α -carotene x 0.5) + (β -cryptoxanthin x 0.5)

Vitamin A Retinol + (total carotene/6)

Total N Protein/Nitrogen Conversion Factor (NCF)

Total fat should be ≥ the sum of fatty acids

Fatty acids 0.6 X total fat is \leq the sum of the fatty acids.

5 Nutrient fields and disaggregation categories in the NDB

Table 1 Nutrient fields available in the NDB

Nutrient (unit of measure)		
Water (g)	Saturated fatty acids (g)	Vitamin B12 (μg)
Total Nitrogen (g)	Cis-monounsaturated fatty acids (g)	Folate (µg)
Nitrogen conversion factor	Cis-n3 fatty acids (g)	Pantothenic acid (mg)
Protein (g)	Cis-n6 fatty acids (g)	Biotin (µg)
Fat (g)	Total trans fatty acids (g)	Sodium (mg)
Carbohydrate (g)^	Cholesterol (mg)	Potassium (mg)
Energy (kcal)	Retinol (μg) ^^	Calcium (mg)
Energy (kJ)	Total carotene (μg) ^^	Magnesium (mg)
Alcohol (g)	Alpha-carotene (μg) ^^	Phosphorus (mg)
Starch (g)^	Beta-carotene (μg) ^^	Iron (mg)
Total sugars (g)^	Beta cryptoxanthin (μg) ^^	Haem iron^ (mg)
AOAC fibre (g)*	Vitamin A (retinol equivalents) (μg) ^^	Non-haem iron (mg)
Glucose (g) ^	Vitamin D (μg)	Copper (mg)
Fructose (g) ^	Thiamin (mg)	Zinc (mg)
Sucrose (g) ^	Riboflavin (mg)	Chloride (mg)
Maltose (g) ^	Niacin equivalent (mg)	lodine (µg)
Lactose (g) ^	Vitamin C (mg)	Manganese (mg)
Other sugars^ (g)	Vitamin E (mg)	Selenium (µg)
Free sugars (g) ^ **	Vitamin B6 (mg)	
	I .	

[^] Carbohydrate is expressed as monosaccharide equivalents. Other sugars include oligosaccharides, where data is available on their levels. Haem iron is calculated as 40% of the iron in fish and meat.

Table 2 Disaggregation categories used in the NDNS RP

Disaggregation category (g)	
Fruit (Fresh and canned fruit)	Other Red Meat
Dried Fruit	Burgers (Burgers and grill steaks)
Fruit Juice	Sausages
Smoothie Fruit	Offal
Tomatoes	Poultry (white meat)

^{*} Includes resistant starch, lignin and non-starch polysaccharides captured by AOAC method.

^{**} Includes all monosaccharides and disaccharides added to foods by the manufacturer, cook or consumer, plus sugars naturally present in honey, syrups, unsweetened fruit juices, unsweetened vegetables juices, fruit purees and vegetable purees.

[^] Vitamin A retinol equivalent is calculated as Retinol + (total carotene/6) where, Total carotene is β-carotene

⁺ $(\frac{1}{2}\alpha$ -carotene) + $(\frac{1}{2}\beta$ -cryptoxanthin). Fortified sources of vitamin A are entered as retinol in the NDB.

Tomato puree	Processed Poultry
Brassicaceae	Game Birds
Yellow red Green (Yellow, Red & Dark Green Leafy Vegetables)	White Fish
Other Vegetables	Oily Fish
Beans (Beans and pulses)	Canned Tuna
Nuts	Shellfish
Beef (red meat)	Cottage cheese
Lamb (red meat)	Cheddar Cheese
Pork (red meat)	Other Cheese
Processed Red Meat	

Appendix: Main and subsidiary food groups

Food groups are expressed as integers. Subsidiary food groups are integers with an alphabetical suffix

1	rasia, fice and other cerears
1C	PIZZA
1D	PASTA MANUFACTURED PRODUCTS & READY MEALS
1E	OTHER PASTA INCLUDING HOMEMADE DISHES
1F	RICE MANUFACTURED PRODUCTS & READY MEALS
1G	OTHER RICE INCLUDING HOMEMADE DISHES
1R	OTHER CEREALS
2	White bread
2R	WHITE BREAD (NOT HIGH FIBRE; NOT MULTISEED BREAD)
3	Wholemeal bread
3R	WHOLEMEAL BREAD
4	Other bread
4R	OTHER BREAD
5	High fibre breakfast cereals
5R	HIGH FIBRE BREAKFAST CEREALS
•	Other breakfast samels
6	Other breakfast cereals
6R	OTHER BREAKFAST CEREALS (NOT HIGH FIBRE)
7	Biscuits
7A	BISCUITS MANUFACTURED / RETAIL

BISCUITS HOMEMADE

8	Buns, cakes, pastries and fruit pies
8B	FRUIT PIES MANUFACTURED
8C	FRUIT PIES HOMEMADE
8D	BUNS CAKES & PASTRIES MANUFACTURED
8E	BUNS CAKES & PASTRIES HOMEMADE
9	Puddings
9C	CEREAL BASED MILK PUDDINGS - MANUFACTURED
9D	CEREAL BASED MILK PUDDINGS - HOMEMADE
9E	SPONGE PUDDINGS - MANUFACTURED
9F	SPONGE PUDDINGS - HOMEMADE
9G	OTHER CEREAL BASED PUDDINGS - MANUFACTURED
9H	OTHER CEREAL BASED PUDDINGS - HOMEMADE
10	Whole milk
10R	WHOLE MILK
11	Semi-skimmed milk
11 11R	Semi-skimmed milk SEMI SKIMMED MILK
11R	SEMI SKIMMED MILK Skimmed milk
11R 12	SEMI SKIMMED MILK Skimmed milk
11R 12	SEMI SKIMMED MILK Skimmed milk
11R 12 12R	SEMI SKIMMED MILK Skimmed milk SKIMMED MILK
11R 12 12R 13	Skimmed milk Skimmed milk SKIMMED MILK Other milk and cream
11R 12 12R 13 13A	Skimmed milk Skimmed milk SKIMMED MILK Other milk and cream INFANT FORMULA

Cheese

14A	COTTAGE CHEESE
14B	CHEDDAR CHEESE
14R	OTHER CHEESE
15	Yogurt, fromage frais and other dairy desserts
15B	YOGURT
15C	FROMAGE FRAIS AND DAIRY DESSERTS MANUFACTURED
15D	DAIRY DESSERTS HOMEMADE
16	Eggs and egg dishes
16C	MANUFACTURED EGG PRODUCTS INCLUDING READY MEALS
16D	OTHER EGGS AND EGG DISHES INCLUDING HOMEMADE
17	Butter
17R	BUTTER
18	Polyunsaturated margarine and oils
18A	POLYUNSATURATED MARGARINE
18B	POLYUNSATURATED OILS
19	Low fat spread
19A	POLYUNSATURATED LOW FAT SPREAD
19R	LOW FAT SPREAD NOT POLYUNSATURATED
20	Margarine and other cooking fats and oils NOT polyunsaturated
20A	BLOCK MARGARINE
20B	SOFT MARGARINE NOT POLYUNSATURATED
20C	OTHER COOKING FATS AND OILS NOT PUFA
21	Reduced fat spread

21A	REDUCED FAT SPREAD (POLYUNSATURATED)
21B	REDUCED FAT SPREAD (NOT POLYUNSATURATED)
22	Bacon and ham
22A	READY MEALS / MEAL CENTRES BASED ON BACON AND HAM
22B	OTHER BACON AND HAM INCLUDING HOMEMADE DISHES
23	Beef, veal and dishes
23A	MANUFACTURED BEEF PRODUCTS INCLUDING READY MEALS
23B	OTHER BEEF & VEAL INCLUDING HOMEMADE RECIPE DISHES
24	Lamb and dishes
24A	MANUFACTURED LAMB PRODUCTS INCLUDING READY MEALS
24B	OTHER LAMB INCLUDING HOMEMADE RECIPE DISHES
25	Pork and dishes
25A	MANUFACTURED PORK PRODUCTS INCLUDING READY MEALS
25B	OTHER PORK INCLUDING HOMEMADE RECIPE DISHES
26	Coated chicken
26A	MANUFACTURED COATED CHICKEN / TURKEY PRODUCTS
27	Chicken and turkey dishes
27A	MANUFACTURED CHICKEN PRODUCTS INCL READY MEALS
27B	OTHER CHICKEN / TURKEY INCL HOMEMADE RECIPE DISHES
28	Liver, products and dishes
28R	LIVER AND DISHES

Burgers and kebabs

29R	BURGERS AND KEBABS PURCHASED
30	Sausages
30A	READY MEALS BASED ON SAUSAGES
30B	OTHER SAUSAGES INCLUDING HOMEMADE DISHES
31	Meat pies and pastries
31A	MANUFACTURED MEAT PIES AND PASTRIES
31B	HOMEMADE MEAT PIES AND PASTRIES
32	Other meat and meat products
32A	OTHER MEAT PRODUCTS MANUFACTURED INCL READY MEALS
32B	OTHER MEAT INCLUDING HOMEMADE RECIPE DISHES
33	White fish coated or fried
33R	WHITE FISH COATED OR FRIED
34	Other white fish, shellfish and fish dishes
34C	MANUFACTURED WHITE FISH PRODUCTS INCL READY MEALS
34D	OTHER WHITE FISH INCLUDING HOMEMADE DISHES
34E	MANUFACTURED SHELLFISH PRODUCTS INCL READY MEALS
34F	OTHER SHELLFISH INCLUDING HOMEMADE DISHES
34G	MANUFACTURED CANNED TUNA PRODUCTS INCL READY MEALS
34H	OTHER CANNED TUNA INCLUDING HOMEMADE DISHES
35	Oily fish
35A	MANUFACTURED OILY FISH PRODUCTS INCL READY MEALS
35B	OTHER OILY FISH INCLUDING HOMEMADE DISHES

Salad and other raw vegetables

36

36A	CARROTS RAW
36B	SALAD AND OTHER RAW VEGETABLES
36C	TOMATOES RAW
37	Vegetables (not raw)
37A	PEAS NOT RAW
37B	GREEN BEANS NOT RAW
37C	BAKED BEANS
37D	LEAFY GREEN VEGETABLES NOT RAW
37E	CARROTS NOT RAW
37F	TOMATOES NOT RAW
371	BEANS AND PULSES INCL READY MEAL & HOMEMADE DISHES
37K	MEAT ALTERNATIVES INCL READY MEALS & HOMEMADE DISH
37L	OTHER MANUFACTURED VEGETABLE PRODUCTS INCL RM
37M	OTHER VEGETABLES INCLUDING HOMEMADE DISHES
38	Chips, fried and roast potatoes and potato products
38A	CHIPS PURCHASED INCLUDING TAKEAWAY
38C	OTHER MANUFACTURED POTATO PRODUCTS FRIED/BAKED
38D	OTHER FRIED / ROAST POTATOES INCL HOMEMADE DISHES
39	Other potatoes, potato salads and dishes
39A	OTHER POTATO PRODUCTS & DISHES - MANUFACTURED
39B	OTHER POTATOES INCLUDING HOMEMADE DISHES
40	Fruit
40A	APPLES AND PEARS NOT CANNED
40B	CITRUS FRUIT NOT CANNED
40C	BANANAS
40D	CANNED FRUIT IN JUICE

40E	CANNED FRUIT IN SYRUP
40R	OTHER FRUIT NOT CANNED
41	Sugars, preserves and sweet spreads
41A	SUGAR
41B	PRESERVES
41R	SWEET SPREADS FILLINGS AND ICING
42	Crisps and savoury snacks
42R	CRISPS AND SAVOURY SNACKS
43	Sugar confectionery
43R	SUGAR CONFECTIONERY
44	Chocolate confectionery
44R	CHOCOLATE CONFECTIONERY
45	Fruit juice
45R	FRUIT JUICE
47	Spirits and liqueurs
47A	LIQUEURS
47B	SPIRITS
48	Wine
48A	WINE
48B	FORTIFIED WINE
48C	LOW ALCOHOL AND ALCOHOL FREE WINE

Beer lager cider and perry

49

49A	BEERS AND LAGERS
49B	LOW ALCOHOL & ALCOHOL FREE BEER & LAGER
49C	CIDER AND PERRY
49D	LOW ALCOHOL & ALCOHOL FREE CIDER & PERRY
49E	ALCOHOLIC SOFT DRINKS
50	Miscellaneous
50A	BEVERAGES DRY WEIGHT
50C	SOUP MANUFACTURED/ RETAIL
50D	SOUP HOMEMADE
50E	NUTRITION POWDERS AND DRINKS
50R	SAVOURY SAUCES PICKLES GRAVIES & CONDIMENTS
51	Tea, coffee and water
51A	COFFEE (MADE-UP WEIGHT)
51B	TEA (MADE-UP WEIGHT)
51C	HERBAL TEA (MADE-UP WEIGHT)
51D	BOTTLED WATER STILL OR CARBONATED
51R	TAP WATER ONLY
52	Commercial toddlers foods and drinks
52A	COMMERCIAL TODDLERS DRINKS
52R	COMMERCIAL TODDLERS FOODS
53	Ice cream
53R	ICE CREAM
54	Dietary supplements
54B	EVENING PRIMROSE OIL AND OTHER PLANT OILS
54D	FOLIC ACID

54E	IRON ONLY OR WITH VITAMIN C
54F	CALCIUM ONLY OR WITH VITAMIN D
54G	VITAMINS (TWO OR MORE INCL MULTIVITS) NO MINERALS
54H	MINERALS (TWO OR MORE INCL MULTIVITS & MINERALS)
541	VITAMINS AND MINERALS (INCL MULTIVITS & MINERALS)
54J	NON-NUTRIENT SUPPLEMENTS (INCL HERBAL)
54K	OTHER NUTRIENT SUPPLEMENTS
54L	VITAMIN C ONLY
54M	SINGLE VITS OR MINS NOT Folic acid, Fe, Ca, Vit C
54N	COD LIVER OIL AND OTHER FISH OILS (INCL VIT A,D,E)
54P	MULTIVITAMIN AND/OR MINERALS WITH OMEGA 3
55	Artificial sweeteners
55R	ARTIFICIAL SWEETENERS
56	Nuts and seeds
56 56R	Nuts and seeds NUTS AND SEEDS
56R	NUTS AND SEEDS
56R 57	NUTS AND SEEDS Soft drinks, not low calorie
56R 57 57A	NUTS AND SEEDS Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED
56R 57 57A 57B	NUTS AND SEEDS Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED
56R 57 57A 57B	NUTS AND SEEDS Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED
56R 57 57A 57B 57C	NUTS AND SEEDS Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED SOFT DRINKS NOT LOW CALORIE RTD STILL
56R 57 57A 57B 57C	Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED SOFT DRINKS NOT LOW CALORIE RTD STILL Soft drinks, low calorie
56R 57 57A 57B 57C 58 58A	SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED SOFT DRINKS NOT LOW CALORIE RTD STILL Soft drinks, low calorie SOFT DRINKS LOW CALORIE CONCENTRATED
56R 57 57A 57B 57C 58 58A 58B	Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED SOFT DRINKS NOT LOW CALORIE RTD STILL Soft drinks, low calorie SOFT DRINKS LOW CALORIE CONCENTRATED SOFT DRINKS LOW CALORIE CARBONATED
56R 57 57A 57B 57C 58 58A 58B	Soft drinks, not low calorie SOFT DRINKS NOT LOW CALORIE CONCENTRATED SOFT DRINKS NOT LOW CALORIE CARBONATED SOFT DRINKS NOT LOW CALORIE RTD STILL Soft drinks, low calorie SOFT DRINKS LOW CALORIE CONCENTRATED SOFT DRINKS LOW CALORIE CARBONATED

60 1% fat milk

60R 1% Fat Milk

61 Smoothies 100% fruit and/or juice

61R SMOOTHIES 100% FRUIT AND/OR JUICE

62 Sandwiches

62R SANDWICHES

References

¹ The Eatwell Guide (2016) [Internet]. Available from: www.gov.uk/government/publications/the-eatwell-guide

² 'National Diet and Nutrition Survey: Results from Years 9 to 11 (combined) 2016/2017 to 2018/2019' (viewed on 17 August 2022)

³ McCance and Widdowson's composition of foods integrated dataset. 2019. https://www.gov.uk/government/publications/composition-of-foods-integrated-dataset-cofid (viewed on 22 March 2022)

⁴ MRC Human Nutrition Research. Food Standards Agency Standard Recipes Database, 1992-2012. [data collection]. UK Data Service. SN: 8159. 2017. Available from: http://doi.org/10.5255/UKDA-SN-8159-1 (viewed on 22 March 2022)

⁵ Previously FSA, Department of Health or Public Health England when ownership of the NDB lay with them and the MRC Elsie Widdowson Laboratory.

⁶ 'Evaluation of changes in the dietary methodology in the National Diet and Nutrition Survey Rolling Programme from Year 12 (2019 to 2020): Stage 1' (viewed 17 August 2022)

⁷ Fitt E, Mak TN, Stephen AM, Prynne C, Roberts C, Swan G & Farron-Wilson M. (2010) Disaggregating composite food codes in the UK National Diet and Nutrition Survey food composition databank. Eur J Clin Nutr 64: S32-S36

⁸ Results from these calculations may not match the final values exactly (especially when comparing against analytical data) as a small margin of difference is acceptable in food composition.