

# Food and You 2: Northern Ireland

**Wave 1-2 Key Findings** 



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## **Executive Summary**

#### Overview of Food and You 2

Food and You 2 is a biannual representative sample survey, recognised as an official statistic, commissioned by the Food Standards Agency (FSA). The survey measures self-reported consumer knowledge, attitudes and behaviours related to food safety and other food issues amongst adults in Wales, England, and Northern Ireland.

Food and You 2 uses a methodology, known as 'push-to-web', which is primarily carried out online.

Fieldwork for Food and You 2: Wave 1 was conducted between 29<sup>th</sup> July and 6<sup>th</sup> October 2020. In Northern Ireland, 2,079 adults from 1,389 households completed the survey, with 57% of respondents completing the survey online. A total of 9,319 adults from 6,408 households across Northern Ireland, Wales, and England completed the survey.

Fieldwork for Food and You 2: Wave 2 was conducted between 20<sup>th</sup> November 2020 and 21<sup>st</sup> January 2021. In Northern Ireland, 1,566 adults from 997 households completed the survey, with 60% of respondents completing the survey online. A total of 5,900 adults from 3,955 households across Northern Ireland, Wales, and England completed the survey.

This survey was conducted during the Covid-19 pandemic and so it records the reported attitudes and behaviours under unusual circumstances which have had a significant impact on how and where people buy and eat food, and on levels of household food insecurity.

The modules presented in this report include 'Food we can trust', 'Concerns about food', 'Food security', 'Food shopping', 'Eating out and takeaways', 'Food hypersensitivities' and 'Eating at home'.

Findings presented in this report refer to data collected in Northern Ireland unless otherwise specified.

#### **Summary of key findings**

#### Food we can trust

#### Confidence in food safety and authenticity

- More than 9 in 10 (93%) respondents reported that they were confident that the food they buy is safe to eat.
- Almost 9 in 10 (87%) respondents were confident that the information on food labels is accurate.

#### Confidence in the food supply chain

- More than 8 in 10 (81%) respondents reported that they had confidence in the food supply chain.
- Respondents were more likely to report confidence in farmers (89%), shops and supermarkets (86%) than in takeaways (76%), and food delivery services (56%).

#### Awareness, trust and confidence in the FSA

- Over 9 in 10 respondents (93%) had heard of the FSA.
- Almost 9 in 10 (86%) respondents who had at least some knowledge of the FSA
  reported that they trusted the FSA to make sure food is safe and what it says it is.
- Almost 9 in 10 (86%) respondents reported that they were confident that the FSA
   (or the government agency responsible for food safety) can be relied upon to
   protect the public from food-related risks, 82% were confident that the FSA is
   committed to communicating openly with the public about food-related risks, and
   85% were confident that the FSA takes appropriate action if a food-related risk is
   identified.

#### **Concerns about food**

- Most respondents (88%) had no concerns about the food they eat, and only 12% of respondents reported that they had a concern.
- Respondents were asked to briefly explain what their concerns were about the food they eat. The most common concerns related to food safety and hygiene (20%), and food production methods (20%).

Respondents were asked to indicate if they had concerns about a number of food-related issues, from a list of given options. The most common concerns related to the amount of sugar in food (57%), the amount of fat in food (55%), and food waste (55%).

#### **Food security**

Food security levels were comparable across Northern Ireland, England and Wales. Over three quarters of respondents were food secure (i.e. had high or marginal food security) in Northern Ireland (84%), England (85%) and Wales (82%). Approximately 1 in 6 respondents were food insecure (i.e. had low or very low food security) in Northern Ireland (16%), England (15%) and Wales (18%). Food security varied between different types of people.

#### **Food shopping**

#### Where do respondents buy food?

 Most respondents reported that they often (i.e. 'about once a week' or more frequently) have bought food from a supermarket or mini supermarket (87%).
 Local/farmer's markets or farm shops were used by 45% of respondents on an occasional basis (i.e. '2-3 times a month' or less often).

#### What do respondents look for when buying food?

 When shopping, respondents reported they often checked the use-by (87%) or best before date (84%).

#### Confidence in allergen labelling

- Most respondents (77%) who go food shopping and take into consideration a person
  who has a food allergy or intolerance were confident that the information provided on
  food labelling allows them to identify foods that will cause a bad or unpleasant
  physical reaction.
- Respondents who bought food loose were more confident in identifying foods which
  may cause a bad or unpleasant physical reaction when buying foods in-store at a
  supermarket (74%), when shopping at independent food shops (71%) and when

buying food from a supermarket online (66%). However, respondents were less confident when buying food from food markets or stalls (56%).

#### **Eating out and takeaways**

- Almost two thirds (65%) of respondents had eaten food which was ordered from a takeaway either directly (58%) or via an online delivery company (for example, Just Eat, Deliveroo, Uber Eats etc.) (22%) in the previous 4 weeks.
- Over a third (40%) of respondents had eaten eat-in or takeaway food from a fast-food outlet, 38% had eaten from a café, coffee shop or sandwich shop (either to eat in or takeaway) and 21% of respondents had eaten out at a restaurant, pub or bar in the previous 4 weeks.
- Most respondents (90%) reported that they had heard of the <u>Food Hygiene Rating</u>
   <u>Scheme</u> (FHRS). Over half (57%) of respondents reported that they had both
   heard of the FHRS and had at least some knowledge of the FHRS.

#### Food allergy, intolerance, and other hypersensitivities

Most respondents (87%) reported that they did not have a food hypersensitivity.
 Fewer than 1 in 10 (9%) respondents reported that they had a food intolerance,
 2% had a food allergy, 1% had coeliac disease and 1% had multiple food
 hypersensitivities.

#### **Eating at home**

#### **Use-by dates**

- Almost three quarters (71%) of respondents identified the use-by date as the information which shows that food is no longer safe to eat.
- More than 7 in 10 (71%) respondents reported that they always check use-by dates before they cook or prepare food.
- Most respondents reported that they never ate smoked fish (88%), cooked meats (76%), milk (73%), cheese (62%) or bagged salads (61%) past the use-by date.

#### **Best before dates**

Respondents who ate eggs were asked how long after the best before date they
would eat eggs. Most (61%) respondents stated they would eat eggs 1-2 days
after the best before date, 21% would eat eggs between 3 and 7 days after the
best before date and 5% of respondents would eat eggs 1 week or more after the
best before date.

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#### Introduction

# The Food Standards Agency: role, remit, and responsibilities

The Food Standards Agency (FSA) is an independent Government department working to protect public health and consumers' wider interests in relation to food in Northern Ireland, England, and Wales<sup>1</sup>. The FSA's overarching mission is 'food we can trust'. The FSA's goal and vision is to ensure that food is safe, and food is what it says it is, such that consumers can make informed choices about what to eat. In Northern Ireland, the FSA is responsible for nutrition policy and has the additional goal to ensure that consumers have access to an affordable diet, now and in the future.

Food and You 2 is designed to monitor the FSA's progress against these goals and inform policy decisions by measuring self-reported consumers' knowledge, attitudes and behaviours related to food safety and other food issues in Northern Ireland, England, and Wales on a regular basis.

#### Food and You 2

Ipsos MORI were commissioned by the FSA to develop and run a biannual survey, 'Food and You 2', carried out primarily online.

Food and You 2 replaces the FSA's face-to-face Food and You survey (2010-2018)<sup>2</sup>, Public Attitudes Tracker (2010-2019) and Food Hygiene Rating Scheme (FHRS) - Consumer Attitudes Tracker (2014-2019). Due to differences in the question content, presentation and mode of response, direct comparisons should not be made between these earlier surveys and Food and You 2. More information about the history and methodology can be found in Annex A.

<sup>&</sup>lt;sup>1</sup> In Scotland, the non-ministerial office <u>Food Standards Scotland</u>, is responsible for ensuring food is safe to eat, consumers know what they are eating and improving nutrition.

<sup>&</sup>lt;sup>2</sup> The Food and You survey has been an Official Statistic since 2014.

#### Food and You 2: Wave 1 and Wave 2

Fieldwork for Food and You 2: Wave 1 was conducted between 29<sup>th</sup> July and 6<sup>th</sup> October 2020. In Northern Ireland, 2,079 adults from 1,389 households completed the survey, with 57% of respondents completing the survey online. A total of 9,319 adults from 6,408 households across Northern Ireland, Wales, and England completed the survey.

Fieldwork for Food and You 2: Wave 2 was conducted between 20<sup>th</sup> November 2020 and 21<sup>st</sup> January 2021. In Northern Ireland, 1,566 adults from 997 households completed the survey, with 60% of respondents completing the survey online. A total of 5,900 adults from 3,955 households across Northern Ireland, Wales, and England completed the survey.

Fieldwork for Food and You 2: Wave 1 and Food and You 2: Wave 2 data was conducted during the COVID-19 pandemic which had a significant societal and economic impact and an impact on the day-to-day lives of everyone. The COVID-19 pandemic had a widely reported impact on food security in Northern Ireland, England, and Wales. It is expected that the COVID-19 pandemic had an impact on the level of food security reported by respondents in Food and You 2<sup>3</sup>.

Food and You 2 is a modular survey, with 'core' modules being included every wave, 'rotated' modules being repeated annually or biennially, and 'exclusive' modules being asked on a one-off basis. The modules presented in this report include 'Food we can trust' (core), 'Concerns about food' (core), 'Food security' (rotated), 'Food shopping' (rotated), 'Eating out and takeaways' (rotated), 'Food hypersensitivities' (rotated), and 'Eating at home' (brief, rotated)<sup>4</sup>.

<sup>&</sup>lt;sup>3</sup>Covid-19 consumer tracker survey (2021), FSA. <u>Food in a pandemic (2021). FSA.</u> Life under Covid-19: Food waste attitudes and behaviours in 2020 (2021), WRAP. State of hunger: Building the evidence on poverty, destitution, and food insecurity in the UK (2021). The Trussell Trust. Family Resources Survey (FRS): financial year 2021 to 2020 (2021). DWP. The FRS asks respondents to report experiences of food insecurity in the last 30 days so responses cannot be compared with Food and You 2.

<sup>&</sup>lt;sup>4</sup> Two versions of the Eating at Home module have been created, a brief version which includes a limited number of questions, and a full version which includes all related questions. The full version of the module was reported in Wave 1.

This report presents key findings from the Food and You 2: Wave 1 and Food and You 2: Wave 2 survey. Not all questions asked in the surveys are included in the report. The full results are available in the accompanying Food and You 2: Wave 1 data tables and underlaying data set and Food and You 2: Wave 2 data tables and underlaying data set. Findings presented in this report refer to data collected in Northern Ireland unless otherwise specified.

#### Interpreting the findings

To highlight the key differences between socio-demographic and other sub-groups, variation in response profiles are typically reported only where the absolute difference is 10 percentage points or larger and is statistically significant at the 5% level (p<0.05). However, some differences between socio-demographic and other sub-groups are included where the difference is fewer than 10 percentage points, when the finding is notable or judged to be of interest. These differences are indicated with a double asterisk (\*\*).

The report presents trends between some socio-demographic and sub-groups in the population. In some cases, it was not possible to include the data of all sub-groups, however these data are available in the <u>Food and You 2: Wave 1 full data set and tables</u> and <u>Food and You 2: Wave 2 full data set and tables</u>.

Key information is provided for each reported question in the footnotes, including:

- Question wording (question) and response options (response).
- Number of respondents presented with each question and description of the respondents who answered the question (base = N).
- Important information indicates important points to consider when interpreting the results.

# **Chapter 1: Food we can trust**

#### Introduction

The FSA's overarching mission is 'food we can trust'. The FSA was established in 2000 following several high-profile outbreaks of food-related illness. The FSA aims not only to protect people but also to reduce the economic burden of foodborne illnesses and support the economy and trade by ensuring that food has a strong reputation for safety and authenticity in the UK and abroad. The FSA is responsible for the systems that regulate food businesses and is at the forefront of tackling food crime.

This chapter provides an overview of respondents' confidence in food safety and authenticity, and awareness of and trust in the FSA.

#### Confidence in food safety and authenticity

Most respondents reported confidence in food safety and authenticity; 93% of respondents reported that they were confident that the food they buy is safe to eat, and 87% of respondents were confident that the information on food labels is accurate<sup>5</sup>.

<sup>&</sup>lt;sup>5</sup> Question: How confident are you that... A) the food you buy is safe to eat. B) the information on food labels is accurate (for example, ingredients, nutritional information, country of origin). Responses: Very confident, Fairly confident, Not very confident, Not confident at all, It varies, Don't know. Base = 1249, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire. Please note - 'Very confident' or 'Fairly confident' respondents are referred to as confident.

#### Confidence in the food supply chain

More than 8 in 10 respondents (81%) reported that they had confidence in the food supply chain<sup>6</sup>.

Confidence in food supply chain actors

Farmers
Shops and supermarkets
Restaurants
Food manufacturers
Slaughterhouses and dairies
Takeaways

Takeaways

Farmers

89

86

Restaurants
86

Food manufacturers
84

Takeaways

76

56

60

Percentage of respondents (%)

80

100

Figure 1. Most respondents were confident that food supply chain actors ensure food is safe to eat.

Source: Food and You 2: Wave 2

Food delivery services

Respondents were asked to indicate how confident they were that key actors involved in the food supply chain ensure that the food they buy is safe to eat. Respondents were more likely to report confidence in farmers (89%), shops and supermarkets (86%), and

20

40

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<sup>&</sup>lt;sup>6</sup> Question: How confident are you in the food supply chain? That is all the processes involved in bringing food to your table. Responses: Very confident, Somewhat confident, Not very confident, Not at all confident, It varies, Don't know. Base = 1249, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire. Please note - 'Very confident' or 'Fairly confident' respondents are referred to as confident.

restaurants (86%) than in takeaways (76%), and food delivery services (56%) (Figure 1)<sup>7</sup>.

#### Awareness, trust and confidence in the FSA

Over 9 in 10 respondents (93%) had heard of the FSA<sup>8</sup>. Respondents who had at least some knowledge of the FSA were asked how much they trusted the FSA to do its job. Over 8 in 10 respondents (86%) reported that they trust the FSA to make sure food is safe and what it says it is<sup>9</sup>.

Over half of respondents reported some knowledge of the FSA (56%); 6% reported that they knew a lot about the FSA and what it does, and 50% reported that they knew a little about the FSA and what it does. Fewer than half (44%) of respondents reported that they had little or no knowledge of the FSA; 35% had heard of the FSA but knew nothing about it, 5% had not heard of the FSA before being contacted to take part in Food and You 2,

<sup>&</sup>lt;sup>7</sup> Question: How confident are you that... A) Farmers, B) Slaughterhouses and dairies, C) Food manufacturers for example, factories, D) Shops and supermarkets, E) Restaurants, F) Takeaways, G) Food delivery services for example, Just Eat, Deliveroo, Uber Eats...in the UK (and Ireland) ensure the food you buy is safe to eat. Responses: Very confident, Fairly confident, Not very confident, Not at all confident, It varies, Don't know. Base = 1248, Northern Ireland, all online respondents and those who completed the Eating Out postal questionnaire.

<sup>&</sup>lt;sup>8</sup> Question: Which of the following, if any, have you heard of? Please select all that apply. Response: Food Standards Agency (FSA), Public Health Agency (PHA), Department of Agriculture, Environment and Rural Affairs (DAERA), Health and Safety Executive Northern Ireland (HSENI), Safefood, None of these. Base = 931, Northern Ireland, all online respondents. Please note - All consumers taking part in the survey had received an invitation to take part in the survey from Ipsos MORI which mentioned the FSA. An absence of response indicates the organisation had not been heard of by the respondent or a non-response.

<sup>&</sup>lt;sup>9</sup> Question: How much do you trust or distrust the Food Standards Agency to do its job? That is to make sure that food is safe and what it says it is. Responses: I trust it a lot, I trust it, I neither trust nor distrust it, I distrust it, I distrust it a lot, Don't know. Base = 908, Northern Ireland, all respondents who know a lot or a little about the FSA and what it does. Please note - 'I trust it a lot' and 'I trust it' referred to as trust.

and 4% had not heard of the FSA<sup>10</sup>. Knowledge of the FSA varied between different age groups. Respondents aged between 45 and 64 years (for example, 64% of those aged 55-64 years) were more likely to report knowledge of the FSA compared to those aged under 34 years (for example 46% of those aged 16-24 years) and those aged 75 years and over (48%).

Almost 9 in 10 (86%) respondents reported that they were confident that the FSA (or the government agency responsible for food safety) can be relied upon to protect the public from food-related risks (such as food poisoning or allergic reactions from food), 82% were confident that the FSA is committed to communicating openly with the public about food-related risks, and 85% were confident that the FSA takes appropriate action if a food-related risk is identified 11.

#### **Trust in science**

The work of the FSA is underpinned by the latest science and evidence, including independent expert advice, <u>FSA 'Food we can trsut' PDF</u>.

To measure trust in science, respondents were asked how confident they were that scientific research produces accurate conclusions. More than 8 in 10 (85%) respondents

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<sup>&</sup>lt;sup>10</sup> Question: How much, if anything, do you know about the Food Standards Agency, also known as the FSA? Responses: I know a lot about the FSA and what it does, I know a little about the FSA and what it does, I've heard of the FSA but know nothing about it, I hadn't heard of the FSA until I was contacted to take part in this survey, I've never heard of the FSA. Base = 1566, Northern Ireland, all respondents. Please note - All consumers taking part in the survey had received an invitation to take part in the survey which mentioned the FSA.

<sup>11</sup> Question: How confident are you that the Food Standards Agency / the government agency responsible for food safety in England, Wales and Northern Ireland...A) Can be relied upon to protect the public from food-related risks (such as food poisoning or allergic reactions from food). B) Is committed to communicating openly with the public about food-related risks. C) Takes appropriate action if a food related risk is identified? Responses: Very confident, Fairly confident, Not very confident, Not at all confident, Don't know. Base = 1566, Northern Ireland, all respondents. Please note - 'Very confident' and 'Fairly confident' referred to as confident. Respondents little or no knowledge of the FSA were asked about 'the government agency responsible for food safety', those with at least some knowledge of the FSA were asked about the FSA.

reported that they were confident that scientific research produces accurate conclusions <sup>12</sup>.

Respondents were asked if they would trust an organisation more or less if it were to base their decision making and advice on scientific evidence. More than 8 in 10 (82%) respondents reported that they would trust an organisation more if it were to base decisions and advice on scientific evidence <sup>13</sup>.

Respondents were asked if they would trust an organisation more or less if it were to make the scientific evidence underpinning any decisions openly available. More than 8 in 10 (81%) respondents reported that they would trust an organisation more if it were to make the scientific evidence underpinning any decisions openly available <sup>14</sup>.

Respondents were asked if they would trust an organisation more or less if it were to use independent expert advice to inform any decisions. Almost three quarters (73%) of respondents reported that they would trust an organisation more if it were to use independent expert advice to inform any decisions <sup>15</sup>.

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 <sup>12</sup> Question: How confident are you that scientific research produces accurate conclusions? Responses: Very confident, Fairly confident, Not very confident, Not at all confident, Don't know. Base = 931, Northern Ireland, all online respondents. Please note - 'Very confident' and 'Fairly confident' referred to as confident.

<sup>&</sup>lt;sup>13</sup> Question: If an organisation were to base their decision-making and advice on scientific evidence, would this make you...? Responses: Trust the organisation a lot more, Trust the organisation slightly more, Trust the organisation a lot less, Trust the organisation slightly less, It would make no difference, Don't know. Base = 931, Northern Ireland, all online respondents. Please note - 'Trust the organisation a lot more' and 'Trust the organisation slightly more' referred to as would trust more.

<sup>&</sup>lt;sup>14</sup> Question: If an organisation were to make the scientific evidence underpinning any decisions openly available, would this make you...? Responses: Trust the organisation a lot more, Trust the organisation slightly more, Trust the organisation a lot less, Trust the organisation slightly less, It would make no difference, Don't know. Base = 931, Northern Ireland, all online respondents. Please note - 'Trust the organisation a lot more' and 'Trust the organisation slightly more' referred to as would trust more.

<sup>&</sup>lt;sup>15</sup> Question: If an organisation were to use independent expert advice to inform any decisions, would this make you...? Responses: Trust the organisation a lot more, Trust the organisation slightly more, Trust the organisation a lot less, Trust the organisation slightly less, It would make no difference, Don't know. Base = 931, Northern Ireland, all online respondents. Please note - 'Trust the organisation a lot more' and 'Trust the organisation slightly more' referred to as would trust more.

# **Chapter 2: Concerns about food**

#### Introduction

The Food Standards Agency's (FSA) <u>overarching mission</u> is 'food we can trust'. The FSA's goal and vision is to ensure that food is safe to eat and food is what it says it is. The aim of the FSA is to ensure that consumers can make informed choices about what to eat, trust that the food they buy is safe to eat, and have access to an affordable diet, now and in the future <sup>16</sup>.

This chapter provides an overview of respondents' concerns about food and how these vary between different types of people.

#### **Common concerns**

Respondents were asked to report whether they had any concerns about the food they eat. Most respondents (88%) had no concerns about the food they eat, and only 12% of respondents reported that they had a concern<sup>17</sup>.

<sup>&</sup>lt;sup>16</sup> The FSA is not responsible for nutrition policy in England and Wales, only in Northern Ireland.

<sup>&</sup>lt;sup>17</sup> Question: Do you have any concerns about the food you eat? Responses: Yes, No. Base = 931, Northern Ireland, all online respondents.

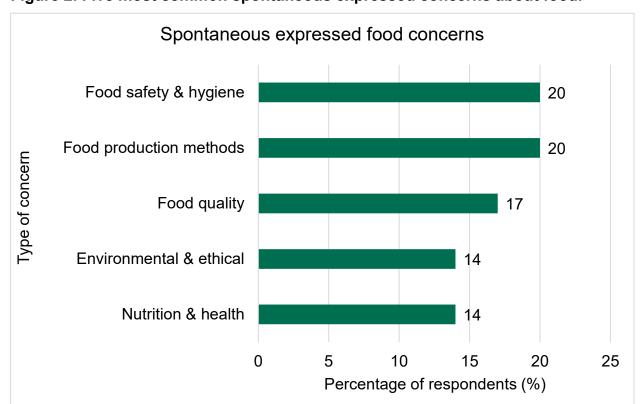


Figure 2. Five most common spontaneous expressed concerns about food.

Source: Food and You 2: Wave 2

Respondents were asked to briefly explain what their concerns were about the food they eat. The most common area of concern related to food safety and hygiene (20%), which included the safety of food (6%) and food being cooked or prepared properly (5%). The second most common concern related to food production methods (20%), which included the use of additives (such as preservatives and colouring) in food products (11%), and the use of pesticides / fertiliser to grow food (6%) (Figure 2)<sup>18</sup>.

<sup>&</sup>lt;sup>18</sup> Question: What are your concerns about the food you eat? Responses: [Open text]. Base = 429, Northern Ireland, all with concerns about the food they eat. Please note - additional responses are available in the data tables and data file, responses were coded by Ipsos MORI, see Technical Report for further details.

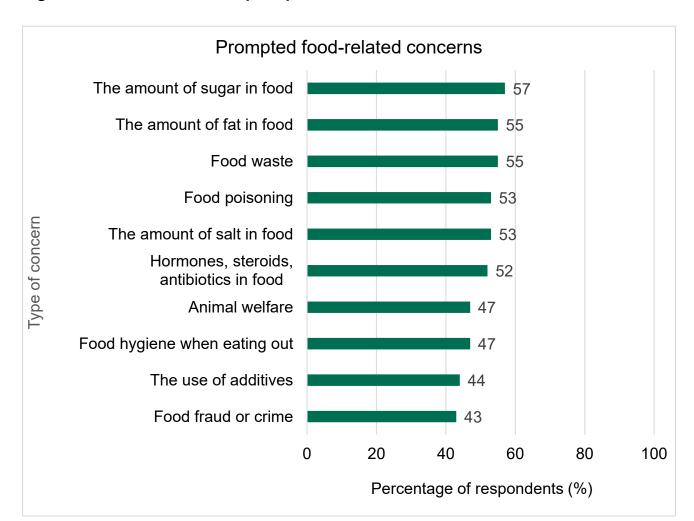


Figure 3. Ten most common prompted food-related concerns.

Source: Food and You 2: Wave 2

Respondents were asked to indicate if they had concerns about a number of food-related issues, from a list of given options. The most common concerns related to the amount of sugar in food (57%), the amount of fat in food (55%), and food waste (55%) (Figure 3)<sup>19</sup>.

<sup>&</sup>lt;sup>19</sup> Question: Do you have concerns about any of the following? Responses (Additional differences): The amount of sugar in food, Food waste, Animal welfare, Hormones, steroids or antibiotics in food, The amount of salt in food, The amount of fat in food, Food poisoning, Food hygiene when eating out, The use of pesticides, Food fraud or crime, The use of additives (for example, preservatives and colouring), Food prices, Genetically modified (GM) foods, Chemical contamination from the environment, Food miles, The number of calories in food, Food allergen information, Cooking safely at home, None of these, Don't know. Base = 931, Northern Ireland, all online respondents.

#### Insight into most common prompted concerns

#### The amount of sugar in food

Over half of respondents (57%) reported that they were concerned about the amount of sugar in food.

Concern about the amount of sugar in food varied between different types of people in the following ways:

- Age group: older adults were more likely to report concern about the amount of sugar in food than younger adults. For example, 72% of respondents aged 65-74 years reported concern about the amount of sugar in food compared to 42% of those aged 25-34 years.
- Employment status: 69% of retired respondents reported concern about the amount of sugar in food compared to 58% of those who were working and 44% of those who were not working.
- Children (under 16 years) in the household: respondents with no children in the household (60%) were more likely to report concern about the amount of sugar in food than those with children in the household (50%).
- Household size: respondents in smaller households were more likely to report
  concern about the amount of sugar in food than those in larger households. For
  example, 67% of respondents in 1-person households reported concern about the
  amount of sugar in food compared to 46% of respondents in 5-person households.

#### The amount of fat in food

Over half of respondents (55%) reported that they were concerned about the amount of fat in food.

Concern about the amount of fat in food varied between different types of people in the following ways:

 Age group: older adults were more likely to report concern about the amount of fat in food than younger adults. For example, 64% of respondents aged 65-74 years reported concern about the amount of fat in food compared to 41% of those aged 25-34 years.

- Employment status: 65% of retired respondents reported concern about the amount of fat in food compared to 52% of those who were working and 55% of those who were not working.
- Children (under 16 years) in the household: respondents with no children in the household (60%) were more likely to report concern about the amount of fat in food than those with children in the household (45%).
- Household size: respondents in smaller households were more likely to report
  concern about the amount of fat in food than those in larger households. For
  example, 65% of respondents in 1-person households reported concern about the
  amount of fat in food compared to 42% of respondents in 5-person households.

#### **Food waste**

Over half of respondents (55%) reported that they were concerned about food waste.

Concern about food waste varied between different types of people in the following ways:

- Age group: older adults were more likely to report concern about food waste than younger adults. For example, 68% of respondents aged 45-54 years reported concern about food waste compared to 42% of those aged 25-34 years.
- Employment status: 63% of respondents who were retired reported concern about food waste compared to 53% of respondents who were working and 51% of respondents who were not working.
- Household size: respondents in smaller households were more likely to report concern about food waste than those in larger households. For example, 63% of respondents in 1-person households reported concern about food waste compared to 43% of respondents in 5-person households.

# **Chapter 3: Food security**

#### Introduction

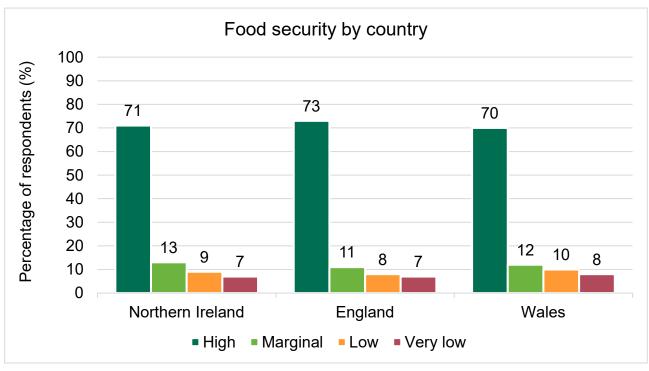
This chapter reports the level of food security in Northern Ireland, England, and Wales, and how food security varied between different types of people.

"Food security exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food that meets their dietary needs and food preferences for an active and healthy life." *World Food Summit, 1996.* 

Food and You 2 uses the <u>U.S. Adult Food Security Survey Module</u> developed by the United States Department of Agriculture (USDA) to measure food security at the level of consumers. More information on how food security is measured can be found in Annex A.

#### **Food security**

Figure 4. Food security is comparable across Northern Ireland, England and Wales.



Source: Food and You 2: Wave 2

Food security levels were comparable across Northern Ireland, England and Wales\*\*. Over three quarters of respondents were food secure (i.e. had high or marginal food security) in Northern Ireland (84%), England (85%) and Wales (82%). Approximately 1 in 6 respondents were food insecure (i.e. had low or very low food security) in Northern Ireland (16%), England (15%) and Wales (18%) (Figure 4).

Food security varied between different types of people<sup>20</sup>.

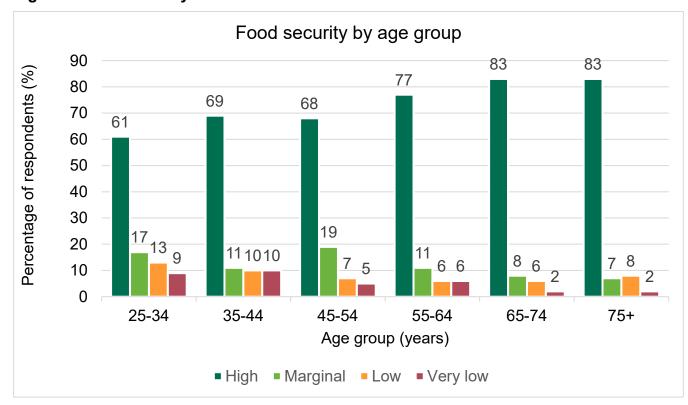


Figure 5. Food security was more common in older adults.

Source: Food and You 2: Wave 2

Food security varied by age group with older adults being more likely to report that they were food secure and less likely to report that they were food insecure than younger adults (Figure 5)<sup>21</sup>.

<sup>&</sup>lt;sup>20</sup> Question: Derived variable, see <u>USDA Food Security guidance</u> and Technical Report. Base = 5900, all respondents.

<sup>&</sup>lt;sup>21</sup> Question: Derived variable, see <u>USDA Food Security guidance</u> and Technical Report. Base = 1566, Northern Ireland, all respondents. Please note - Food security classifications are not reported for respondents aged 16-24 years due to low sample size.

Food security by annual household income Percentage of respondents (%) 20 19 Less than £19,000 £19,000 - £31,999 £32,000 - £63,999 £64,000 - £95,999 Annual household income High Marginal Low Very low

Figure 6. Food security was more common in households with a higher income.

Source: Food and You 2: Wave 2

As expected, food security was associated with household income. Respondents with a higher income were more likely to report food security than those with a lower income. For example, 93% of respondents with an income over £64,000 - £95,999 reported high food security, compared to 45% of those with an income below £19,000, (Figure 6)<sup>22</sup>.

The reported level of food security varied between different types of people:

 Children (under 16 years) in household: households without children under 16 years (86%) and households with children under 16 years (83%) had similar levels of food security\*\*.

<sup>22</sup> Please note - Food security classifications are not reported for respondents with an income over £96,000 due to low sample size.

- Employment status: retired respondents (91%) were more likely to report that they
  were food secure compared to those who were working (85%) and those who were
  not working (73%).
- National Statistics Socio-Economic Classification (NS-SEC): food security was more likely to be reported by respondents in many occupational groups, for example, 90% of managerial, administrative, and professional occupations, compared to those who were lower supervisory and technical occupations (75%) and semi-routine and routine occupations (73%).
- Long term health condition: respondents who did not have a long-term health condition (90%) were more likely to report being food secure compared to those who had a long-term health condition (75%).
- Northern Ireland Multiple Deprevation Measure NIMDM: respondents who lived in less deprived areas (for example, 87% of those in NIMDM 3) and least deprived areas (89% of those in NIMDM 5) were more likely to report being food secure compared to those who lived in the most deprived areas (for example, 71% of those in NIMDM 1).

#### **Changes in eating habits**

Respondents were asked to indicate if and how their eating habits had changed over the last 12 months. Due to the COVID-19 pandemic on the day-to-day lives of consumers, it is expected that eating habits changed more in the last 12 months than in a typical 12-month period.

Changes to eating habits in the last 12 months Eaten out less 62 Eaten at home more 59 Cooked at home more 58 Type of change Eaten fewer take-aways 48 Bought special offer items Prepared food to keep as leftovers 27 Made packed lunches more 26 Changed where you buy food Changed the food you buy Bought food close to use-by date 0 50 100 Percentage of respondents (%)

Figure 7. Ten most common changes in eating habits in the last 12 months.

Source: Food and You 2: Wave 2

Eating habits had changed for most respondents with only 16% of respondents indicating that there had been no change in their eating habits in the last 12 months. The most common changes related to what and where respondents ate (62% eaten out less, 59% eaten at home more, 58% cooked more at home, 48% eaten fewer takeaways), reducing food costs (37% bought items on special offer, 25% changed where you buy food for cheaper alternatives, 23% changed the food you buy for cheaper alternatives) and increased food management behaviours (27% prepared food that could be kept as leftovers, 26% made more packed lunches). In addition, 17% of respondents reported

that they had bought food close to its use-by date more, 10% had eaten food past its use-by date more and 9% kept leftovers for longer before eating (Figure 7)<sup>23, 24</sup>.

Respondents who reported a change in their eating habits in the last 12 months were asked to indicate why their eating habits had changed. The main causes of reported changes in eating habits were COVID-19 and lockdown (77%), health reasons (42%) and financial reasons (33%)<sup>25</sup>.

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Food Foundation.

<sup>&</sup>lt;sup>23</sup> Question: Have you, or has anyone in your household, made any of these changes to your eating habits in the last 12 months? Responses: Eaten at home more, Eaten fewer takeaways, Eaten out less, Made packed lunches more, Bought items that were on special offer more, Changed where you buy food for cheaper alternatives, Changed the food you buy to cheaper alternatives, Prepared food that could be kept as leftovers more, Kept leftovers for longer before eating, Eaten food past its use-by date more, Bought food close to its use-by date more, Used a food bank/emergency food, Other, No, I/we haven't made any changes. Base = 1566, Northern Ireland, all respondents.

<sup>24</sup> Life under Covid-19: Food waste, attitudes, and behaviours in 2020 (2021), WRAP. A Crisis within a crisis: The impact of COVID-19 on household food security (2021). The

<sup>&</sup>lt;sup>25</sup> Question: Thinking about the changes to eating habits that you have made in the last 12 months, why did you make these changes? Responses: Financial reasons, Health reasons, Food safety reasons, Due to the bad or unpleasant physical reaction that certain foods cause, Because of lockdown/covid-19, Other, Prefer not to say. Base = 1320, Northern Ireland, all respondents who have changed their eating habits in the last 12 months.

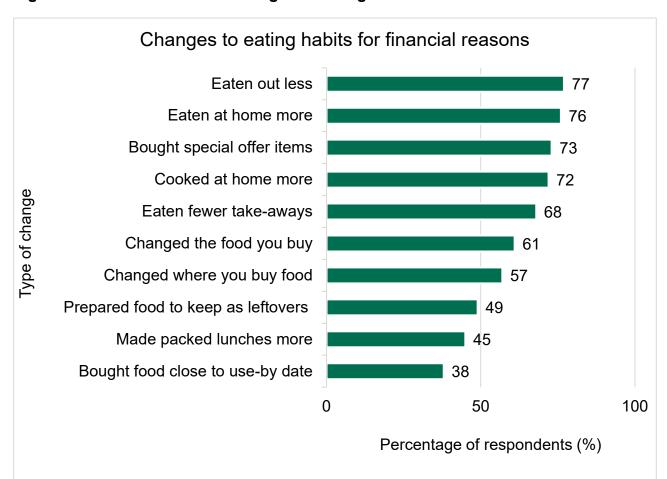


Figure 8. Ten most common changes in eating habits for financial reasons.

Source: Food and You 2: Wave 2

Of the respondents who had changed their eating habits in the last 12 months for financial reasons, the most common changes related to what and where respondents ate (77% eaten out less, 76% eaten at home more, 72% cooked more at home, 68% eaten fewer takeaways) and reducing food costs (73% bought more items on special offer, 61% changed the food you buy for cheaper alternatives, 57% changed where you buy food) (Figure 8). In addition, 22% of respondents reported that they had kept leftovers for

longer before eating, 21% had eaten food past its use-by date more, and 2% reported that they had used a food bank or emergency food<sup>26</sup>.

#### Food bank use

Respondents were asked if they or anyone else in their household had received a free parcel of food from a food bank or other emergency food provider in the last 12 months. Most respondents (90%) reported that they had not used a food bank or other emergency food provider in the last 12 months, with fewer than one in ten respondents (8%) reporting that they had<sup>27</sup>.

#### School meals, meal clubs and Healthy Start vouchers

Respondents with children aged 7-15 years in their household were asked whether these children receive free school meals. Most respondents (83%) who had a child(ren) aged 7-15 years in their household reported that the child(ren) do not receive free school meals. Fewer than one in five (17%) respondents reported that the child or children do receive free school meals<sup>28</sup>.

Respondents with children aged 5-15 years in their household were asked whether these children had attended a school club where a meal was provided in the last 12 months. Most respondents (76%) reported that the child(ren) in their household had not attended one of these clubs in the last 12 months. Fewer than one in five (15%) respondents

<sup>&</sup>lt;sup>26</sup> Question: Have you, or has anyone in your household, made any of these changes to your eating habits in the last 12 months? Responses: Eaten at home more, Eaten fewer takeaways, Eaten out less, Made packed lunches more, Bought items that were on special offer more, Changed where you buy food for cheaper alternatives, Changed the food you buy to cheaper alternatives, Prepared food that could be kept as leftovers more, Kept leftovers for longer before eating, Eaten food past its use-by date more, Bought food close to its use-by date more, Used a food bank/emergency food, Other. Base = 398, Northern Ireland, all respondents who have changed their eating habits in the last 12 months for financial reasons.

<sup>&</sup>lt;sup>27</sup> Question: In the last 12 months, have you, or anyone else in your household, received a free parcel of food from a food bank or other emergency food provider? Responses: Yes, No, Prefer not to say. Base = 1566, Northern Ireland, all respondents.

<sup>&</sup>lt;sup>28</sup> Question: Does any child receive free school meals? Responses: Yes, No, Don't know, Prefer not to say. Base = 308, Northern Ireland, all respondents who had child(ren) aged 7 - 15 living in the household. Please note - Data were collected between 20<sup>th</sup> November 2020 and 21<sup>st</sup> January 2021, partly within the Christmas school holiday period and during the COVID-19 pandemic which may have influenced responses.

reported that the child(ren) in their household had attended a breakfast club before school; 4% reported that the child(ren) had attended a lunch and activity club held during the school holidays and 3% reported that the child(ren) had attended an after-school club where they received a meal<sup>29</sup>.

Respondents who had children aged 0-4 years in their household or who were pregnant were asked whether they receive <u>Healthy Start</u> vouchers. Most respondents (90%) reported that they do not receive Healthy Start vouchers, with 2% of respondents reporting that they do<sup>30</sup>.

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<sup>&</sup>lt;sup>29</sup> Question: Did your child/any of the children in your household attend any of the following in the past 12 months? Responses: A breakfast club before school, An afterschool club where they also received a meal (tea/dinner), A lunch and activity club that ran only during school holidays, None of these, Don't know.Base = 336, Northern Ireland, all respondents with child(ren) aged 5 - 15 in the household.

<sup>&</sup>lt;sup>30</sup> Question: Do you receive Healthy Start vouchers for yourself or your children? Responses: Yes, No, Don't know, Prefer not to say. Base = 127, Northern Ireland, all online respondents who are pregnant or have child(ren) aged 0 - 4 in household, and all those who completed the postal questionnaire and have child(ren) aged 0 - 4 years living in the household.

# **Chapter 4: Food shopping**

#### Introduction

Regulation of food labelling is complex, and the remit of food labelling is held by multiple bodies, which differ between <u>Northern Ireland</u>, <u>Wales and England</u>.

The FSA is responsible for aspects of food labelling which relate to food safety and allergens in Northern Ireland, Wales, and England. In addition, the FSA in Northern Ireland is responsible for food labelling related to food composition standards, country of origin and nutrition<sup>31</sup>. The FSA in Wales is responsible for food labelling related to food composition standards and country of origin.

The Department for Environment, Food and Rural Affairs (Defra) plays a major role in food production. Defra only works directly in England but works closely with the devolved administrations in Northern Ireland, Wales, and Scotland. Defra co-funded questions in this chapter which relate to food provenance, sustainability, and animal welfare.

This chapter provides an overview of food purchasing, what respondents look for when they are shopping and confidence in allergen labelling.

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<sup>&</sup>lt;sup>31</sup> Nutrition standards and nutrition food labelling is the remit of the Department of Health and Social Care in England and the Welsh Government in Wales.

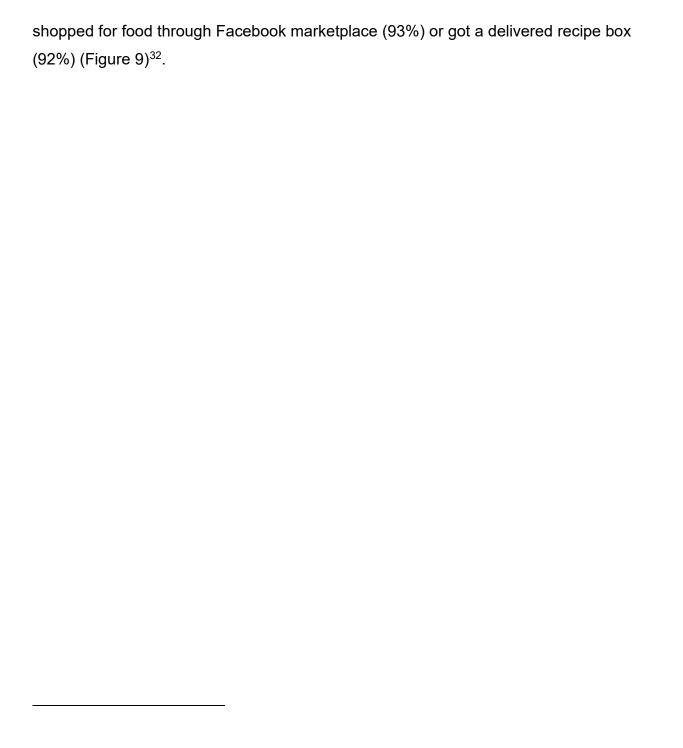
#### Where do respondents buy food?

Where do respondents buy food from? 12 Supermarket, mini-supermarket 69 Local / corner shop, 27 4 newsagent, garage forecourt Method of buying food Independent greengrocer, 37 9 butcher, baker, fishmonger 11 Local / farmer's market, farm shop 9 29 Supermarket 60 home delivery Facebook 93 Marketplace Delivered 92 recipe box ■ Often 0 50 100 Occasionally Percentage of respondents (%) ■ Never

Figure 9. Food is most often bought from supermarkets or mini supermarkets.

Source: Food and You 2: Wave 1

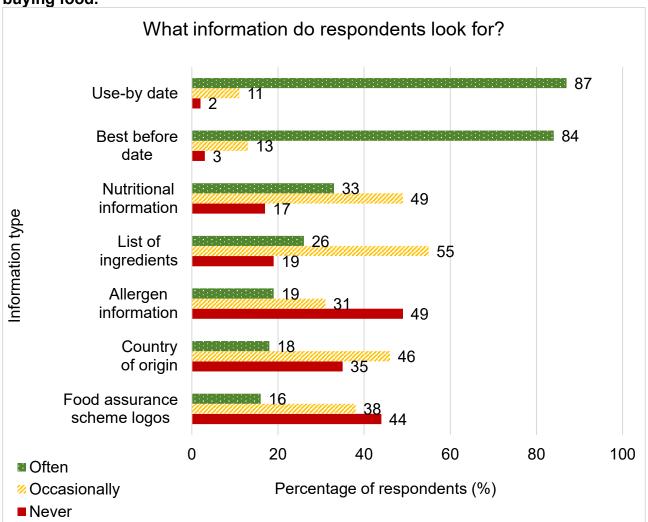
Respondents were asked to indicate where and how often they buy food. Most respondents reported that they often (i.e. 'about once a week' or more frequently) have bought food from a supermarket or mini supermarket (87%). Over two-thirds (69%) of respondents have often bought food from a local / corner shop, newsagent or garage forecourt. Local/farmers markets or farm shops were used by 45% of respondents on an occasional basis (i.e. '2-3 times a month' or less often). Most respondents have never



<sup>&</sup>lt;sup>32</sup> Question: How often, if at all, do you...A) Shop for food in store at a supermarket (including mini supermarkets like Metro/ Local). B) Shop for food at independent greengrocers', butchers', bakers' or fishmongers'. C) Shop for food at local/corner shops, newsagents' or garage forecourts. D) Get a home delivery from a supermarket. E) Shop at a local market, farmer's market or farm shop. F) Get a recipe box delivered (e.g. Hello Fresh, Gousto). G) Shop for food using Facebook Marketplace. Responses: Every day, Most days, 2-3 times a week, About once a week, 2-3 times a month, About once a month, Less than once a month, Never, Can't remember. Base = 1100, Northern Ireland, all online respondents who have at least some responsibility for food shopping for their household. Please note - 'Everyday, Most days, 2-3 times a week, About once a week' referred to as often; '2-3 times a month, About once a month, Less than once a month' referred to as occasional.

# What do respondents look for when buying food?

Figure 10. Use-by and best before information is most often looked for when buying food.



Source: Food and You 2: Wave 1

Respondents were asked to indicate what information they check when buying food. Most respondents reported that they often (i.e. 'always' or 'most of the time') check the use-by (87%) or best before date (84%) when they buy food. Respondents reported that they check the list of ingredients (55%), nutritional information (49%), and country of origin (46%) on an occasional basis (i.e. 'about half the time' or less often). Almost half of

respondents never check allergen information (49%) or food assurance scheme logos (44%) (Figure 10)<sup>33</sup>.

Respondents were asked to spontaneously report what they consider to be important when they choose food to buy. The most common attribute that respondents mentioned when they buy food is price (34%). Other commonly mentioned attributes were freshness (24%), quality (24%), health (19%), taste or appearance (19%), use-by dates (16%) and origin of food (15%)<sup>34</sup>.

When asked what information is used to judge the quality of food from a list of options, respondents reported that they most often used freshness (63%), appearance (44%), and taste (44%) to judge food quality. Fewer respondents reported that they used price (31%), ingredients (28%), country of origin (24%) brand (23%), and animal welfare (17%) to judge food quality. Assurance schemes (11%), environmental impact (7%) and convenience (4%) were reported to be least used by respondents when judging food quality<sup>35</sup>.

Respondents were asked to indicate which, of a given number of factors, were important to them. Most respondents reported that it was important to support UK and Irish farmers and food producers (93%), to buy meat, eggs and dairy which are produced with high

<sup>&</sup>lt;sup>33</sup> Question: When shopping for food, how often, if at all, do you check...A) Use-by dates. B) Best before dates. C) List of ingredients. D) Allergen information. E) Nutritional information. F) Country of origin. G) Food assurance scheme logos. Responses: Always, Most of the time, About half the time, Occasionally, Never, Don't know. Base = 1100, Northern Ireland, all online respondents who have at least some responsibility for food shopping for their household. Please note - 'Always', 'Most of the time' referred to as often, 'About half the time, Occasionally' referred to as occasional.

<sup>&</sup>lt;sup>34</sup> Question: What is most important to you when you are choosing which foods to buy? Responses: [open text]. Base = 2079, Northern Ireland, all respondents. Please note - This question was co-funded by Defra. Additional responses are available in the <u>data</u> tables and data file.

<sup>&</sup>lt;sup>35</sup> Question: What do you use to judge the quality of food? (Please select up to 3 answers). Responses: Taste, Appearance, Country of origin, Convenience, Ingredients, Animal welfare, Freshness, Assurance schemes, Brand, Price, Environmental impact, Other. Base = 2079, Northern Ireland, all respondents. Please note - This question was co-funded by Defra.

standards of animal welfare (93%), and to buy food which has a low environmental impact (85%)<sup>36</sup>.

Respondents were asked how often they check for information about the environmental impact and animal welfare of food when shopping. Over a third (38%) of respondents reported that they checked for information about animal welfare at least most of the time<sup>37</sup>. Thirty-one percent of respondents reported that they checked for information about the environmental impact when purchasing food. However, only 29% of respondents thought that meat, eggs, and dairy products show enough information about animal welfare<sup>38</sup>.

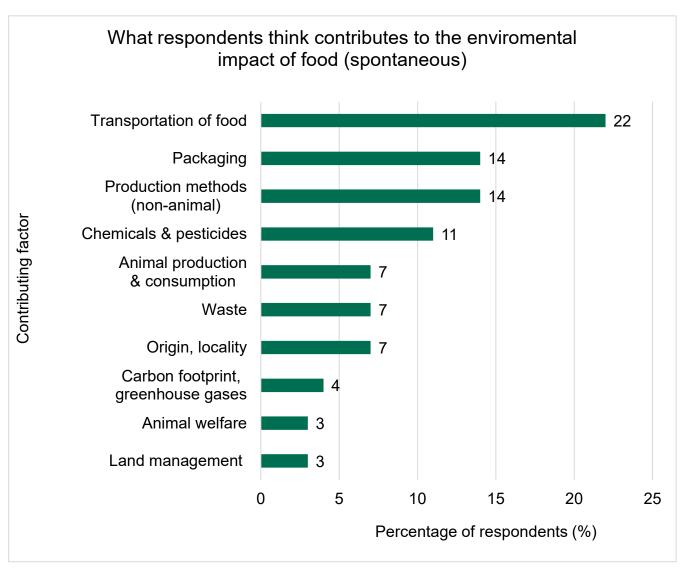
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<sup>&</sup>lt;sup>36</sup> Question: How important is it to you...A) To support British (NI: UK and Irish) farmers and food producers. B) To buy meat, eggs and dairy which are produced with high standards of animal welfare. C) To buy food which has a low environmental impact. Responses: Very important, Somewhat important, Not very important, Not at all important, Don't know. Base = 2079, Northern Ireland, all respondents. Please note - This question was co-funded by Defra.

<sup>&</sup>lt;sup>37</sup> Question: When purchasing food, how often do you do the following...A) Check for information on animal welfare. B) Check for information on environmental impact. Responses: Always, Most of the time, About half the time, Occasionally, Never, Don't know. Base = 2079, Northern Ireland, all respondents. Please note - This question was co-funded by Defra.

<sup>&</sup>lt;sup>38</sup> Question: To what extent do you agree or disagree with the following? Meat, eggs and dairy products show enough information about animal welfare. Responses: Strongly agree, Agree, Neither agree nor disagree, Disagree, Strongly disagree, Don't know. Base = 2079, Northern Ireland, all respondents. Please note - This question was co-funded by Defra.

Figure 11. Transportation is the most common factor thought to contribute to the environmental impact of food.

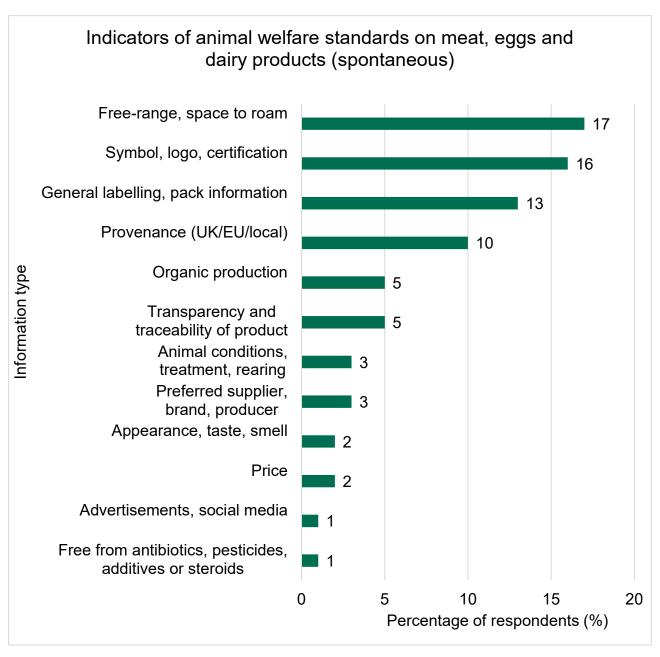


Source: Food and You 2: Wave 1

Respondents were asked to spontaneously report what they think contributes to the environmental impact of food. The most commonly reported contributor was the transportation of food (22%). Packaging (14%), production methods (14%), and chemicals and pesticides (11%) were also suggested as contributors to the environmental impact of food. Fewer respondents reported that animal production/consumption (7%), waste (7%) and origin or locality (7%) are contributing factors to the environmental impact of foods.

Almost half (45%) of respondents reported that they do not know what contributes to the environmental impact of food (Figure 11)<sup>39</sup>.

Figure 12. Free-range, space to roam labelling is most often looked for to indicate high animal welfare standards of meat, eggs, and dairy products.



Source: Food and You 2: Wave 1

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<sup>&</sup>lt;sup>39</sup> Question: What do you think contributes to the environmental impact of food? Responses: [Open text]. Base = 2079, Northern Ireland, all respondents. Please note - This question was co-funded by Defra. Additional responses are available in the <u>data</u> tables and data file.

When respondents were asked what would indicate whether a product containing meat, eggs or dairy had been produced with high standards of animal welfare, the most common indicator mentioned was 'free-range' or space to roam (17%). Other indicators of animal welfare standards were a symbol, logo, or certification (16%), general label or pack information (13%) and provenance (10%). However, 50% of respondents reported that they did not know or were unsure what indicated high standards of animal welfare (Figure 12)<sup>40</sup>.

## Confidence in allergen labelling

Respondents who go food shopping and take into consideration a person who has a food allergy or intolerance were asked how confident they were that the information provided on food labelling allows them to identify foods that will cause a bad or unpleasant physical reaction<sup>41</sup>. Overall, 77% of respondents stated that they were confident in the information provided<sup>42</sup>.

Respondents were asked how confident they were in identifying foods that will cause a bad or unpleasant physical reaction when buying foods which are sold loose, such as at a bakery or deli counter. Respondents who bought food loose were more confident in identifying these foods in-store at a supermarket (74%), when shopping at independent

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<sup>&</sup>lt;sup>40</sup> Question: What would indicate to you whether a product containing meat, eggs or dairy had been produced with high standards of animal welfare? Responses: [Open text]. Base = 2079, Northern Ireland, all respondents. Please note - additional responses are available in the <u>data tables and data file</u>. Please note - This question was co-funded by Defra.

<sup>&</sup>lt;sup>41</sup> A more detailed Food Hypersensitivity report is expected to be released 2021-2022. <sup>42</sup> Question: How confident are you that the information provided on food labelling allows you to identify foods that will cause you, or another member of your household, a bad or unpleasant physical reaction? Responses: Very confident, Fairly confident, Not very confident, Not at all confident, It varies from place to place, Don't know. Base = 813, Northern Ireland, all online who do shopping and live in a household where someone has an allergy/intolerance, and all postal suffering bad/unpleasant physical reaction after consuming certain foods or avoiding certain foods because of the bad/unpleasant physical reaction they might cause. Please note - 'Very confident' and 'Fairly confident' referred to as 'confident'.

respondents were less confident when buying food from food markets or stalls (56%)<sup>43</sup>.

food shops (71%) and when buying food from a supermarket online (66%). However,

<sup>&</sup>lt;sup>43</sup> Question: When buying food that is sold loose (e.g. at a bakery or deli counter), how confident are you that you can identify foods that will cause you or another member of your household a bad or unpleasant physical reaction? Consider food sold loose from the following source...A) Supermarkets in store. B) Supermarkets online. C) Independent food shops. D) Food markets/stalls. Responses: Very confident, Fairly confident, Not very confident, Not at all confident, It varies from place to place, Don't know. Base A=555, B=435, C=534, D=480, Northern Ireland, all online who do shopping and live in a household where someone has an allergy/intolerance, excluding 'I don't buy food from here'/'I don't buy food sold loose'. Please note - 'Very confident' and 'Fairly confident' referred to as confident. 'Not very confident' and 'Not at all confident' referred to as not confident.

# **Chapter 5: Eating out and takeaways**

#### Introduction

The Food Hygiene Rating Scheme (FHRS) helps people make informed choices about where to eat out or shop for food by giving clear information about the businesses' hygiene standards. Ratings are typically given to places where food is supplied, sold or consumed, including restaurants, pubs, cafés, takeaways, food vans and stalls.

The FSA runs the scheme in partnership with district councils in Northern Ireland, Wales, and England. A food safety officer from the district council inspects a business to check that it follows food hygiene law so that the food is safe to eat. Businesses are given a rating from 0 to 5. A rating of 5 indicates that hygiene standards are very good and a rating of 0 indicates that urgent improvement is required.

Food businesses are provided with a sticker which shows their FHRS rating. Northern Ireland and Wales food businesses are legally required to display their FHRS rating <sup>44</sup>, however in England businesses are encouraged to display their FHRS rating but are not legally required to do so. FHRS ratings are also available on the FSA website.

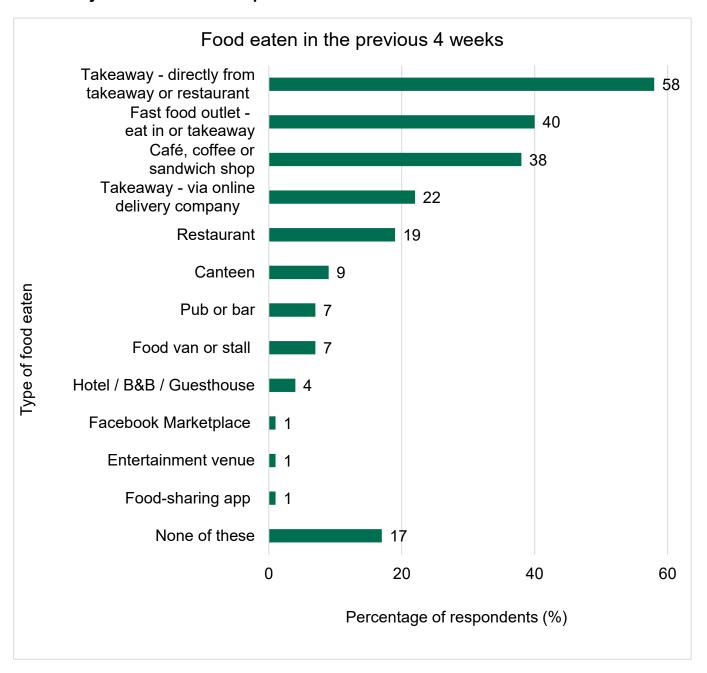
This chapter provides an overview of respondents' eating out and takeaway ordering habits, the factors that are considered when deciding where to order a takeaway from, and recognition and use of the FHRS.

<sup>44</sup> Legislation for the mandatory display of FHRS ratings was introduced in November 2013 in Wales and October 2016 in Northern Ireland.

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# Prevalence of eating out and ordering takeaways

Figure 13. Over half of respondents had eaten takeaway food ordered directly from a takeaway or restaurant in the previous 4 weeks.

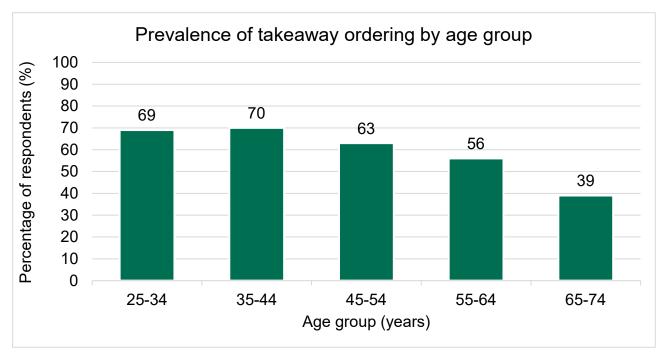


Source: Food & You 2: Wave 2

Respondents were asked where they had eaten out or ordered food from in the previous 4 weeks. Almost two thirds (65%) of respondents had eaten food which was ordered from a takeaway either directly (58%) or via an online delivery company (for example, Just Eat, Deliveroo, Uber Eats etc.) (22%) in the previous 4 weeks. Over a third (40%) of respondents had eaten eat-in or takeaway food from a fast-food outlet, 38% had eaten from a café, coffee shop or sandwich shop (either to eat in or takeaway) and 21% of

respondents had eaten out at a restaurant, pub or bar in the previous 4 weeks. Almost a fifth (17%) of respondents had not eaten at any of the listed food outlets in the previous 4 weeks (Figure 13)<sup>45</sup>.

Figure 14. Younger adults were more likely to have ordered a takeaway than older adults.



Source: Food and You 2: Wave 2

Younger adults were more likely to have eaten food which was ordered from a takeaway, either ordered directly or via an online delivery company, in the previous 4 weeks than

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<sup>&</sup>lt;sup>45</sup> Question: In the last 4 weeks, have you eaten food...? (Select all the apply) Responses: Ordered a takeaway directly from a takeaway shop or restaurant, From a café, coffee shop or sandwich shop (either to eat in or take out), Ordered a takeaway from an online food delivery company (for example, Just Eat, Deliveroo, Uber Eats), From a fast food outlet (either to eat in or take out), In a restaurant, In a pub/ bar, From a canteen (for example, at work, school, university, or hospital), From a mobile food van or stall, In a hotel, B&B or guesthouse, From an entertainment venue (for example, cinema, bowling alley, sports club), From a food-sharing app (for example, Olio or Too Good To Go), From Facebook Marketplace (for example, pre-prepared food or meals), None of these. Base = 1248, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire. Please note - Data for respondents aged 16-24 years and 75+ years is not shown due to low base size. Percentages shown do not add up to 100% as multiple responses could be selected.

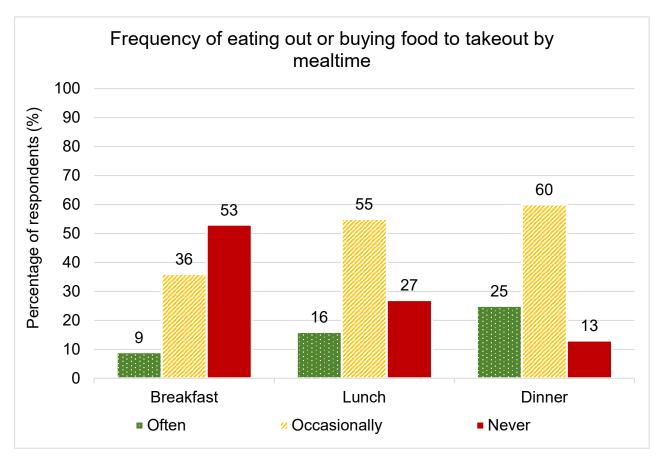
older adults. For example, 70% of respondents aged 35-44 years had eaten food from a takeaway in the previous 4 weeks, compared to 39% of those aged 65-74 years (Figure 14).

The prevalence of ordering takeaways also varied between different types of people in the following ways:

- Annual household income: respondents with a higher household income were
  more likely to have eaten food from a takeaway than those with a lower income.
  For example, 68% of those with an annual household income between £32,000£63,999 had eaten food ordered from a takeaway in the previous 4 weeks,
  compared to 50% of those with an income below £19,000.
- Household size: respondents in larger households were more likely to have eaten food from a takeaway than those in smaller households. For example, 70% of respondents in 5-person households had eaten a takeaway in the previous 4 weeks, compared to 42% of those in 1-person households.
- Children (under 16 years) in the household: 67% of respondents with children under 16 years in the household had eaten food from a takeaway in the previous 4 weeks, compared to 55% of those with no children under 16 years in the household.
- Employment status: respondents who were working (65%) or not working (59%) were more likely to have eaten food from a takeaway in the previous 4 weeks, compared to those who were retired (35%).

# Eating out and takeaways by mealtime

Figure 15. Most respondents never ate out or bought takeout food for breakfast.



Source: Food & You 2: Wave 2

Respondents were asked how often they ate out or bought food to takeout for breakfast, lunch and dinner, at the moment. Respondents were least likely to eat out or buy food to takeout for breakfast, with 53% of respondents never doing this. Over half of respondents (55%) reported that they occasionally ate out or bought takeout food for lunch.

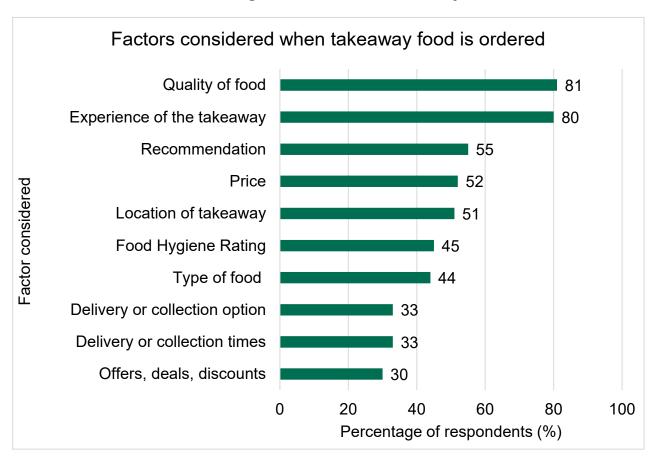
Respondents were most likely to eat out or buy food to takeout for dinner, with 60% doing this occasionally and 25% doing this often (Figure 15)<sup>46</sup>.

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<sup>&</sup>lt;sup>46</sup> Question: At the moment, how often, if at all, do you eat out or buy food to take out for...? A) Breakfast, B) Lunch, C) Dinner. Responses: Several times a week, About once a week, About 2-3 times a month, About once a month, Less than once a month, Never, Can't remember. Base = 1248, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire. Please note - 'Several times a week', 'About once a week' referred to as often; '2-3 times a month', 'About once a month' and 'Less than once a month' referred to as occasional.

# Factors considered when ordering a takeaway

Figure 16. Quality of food and previous experience of the takeaway were most often considered when deciding where to order a takeaway from.



Source: Food & You 2: Wave 2

Respondents were asked which factors, from a given list, they generally considered when deciding where to order a takeaway<sup>47</sup>. Of those who had ordered food from a takeaway, the factors most commonly considered when deciding where to order from were the quality of food (81%) and respondents' previous experience of the takeaway

<sup>&</sup>lt;sup>47</sup> Including takeaway ordered directly from a takeaway shop or restaurant or via an online food delivery company.

(80%). Almost half (45%) of respondents considered the Food Hygiene Rating when deciding where to order a takeaway from (Figure 16)<sup>48</sup>.

# Awareness and recognition of the FHRS

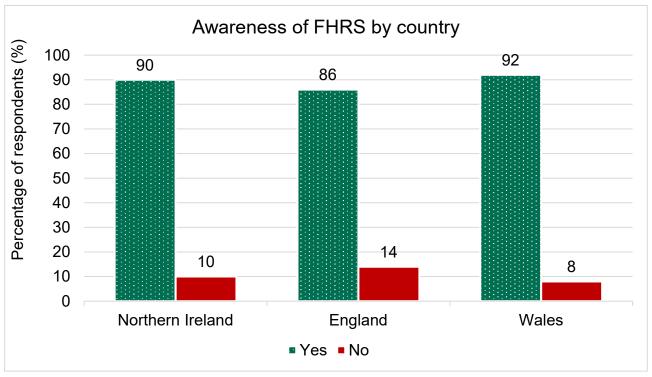
Most respondents (90%) reported that they had heard of the FHRS. Over half (57%) of respondents reported that they had heard of the FHRS and had at least some knowledge of the FHRS<sup>49,50</sup>.

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<sup>&</sup>lt;sup>48</sup> Question: Generally, when ordering food from takeaways (either directly from a takeaway shop or restaurant or from an online food delivery company like Just Eat, Uber Eats or Deliveroo) what do you consider when deciding where to order from? Responses: My previous experience of the takeaway, Quality of food, Price (including cost of delivery), Type of food (for example, cuisine or vegetarian/vegan options), Recommendations from family or friends, Food Hygiene Rating, Location of takeaway, Whether there is a delivery or collection option, Offers, deals or discount available, Delivery/ collection times, Whether food can be ordered online for example, through a website or app, Reviews for example, on TripAdvisor, Google, social media, or in newspapers and magazines, Whether it is an independent business or part of a chain, Whether healthier options are provided, Whether allergen information is provided, Whether information about calories is provided, None of these, Don't know. Base = 1101, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire, who order takeaways.

<sup>&</sup>lt;sup>49</sup> Question: Have you heard of the Food Hygiene Rating Scheme? Responses: Yes, I've heard of it and know quite a lot about it, Yes, I've heard of it and know a bit about it, Yes, I've heard of it but don't know much about it, Yes, I've heard of it but don't know anything about it, No, I've never heard of it. Base = 1248, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire. Please note - 'Yes, I've heard of it and know quite a lot about it', 'Yes, I've heard of it and know a bit about it' and 'Yes, I've heard of it but don't know much about' it referred to as having knowledge of FHRS.
<sup>50</sup> A more detailed FHRS report is expected to be released 2021-2022.

Figure 17. Awareness of the Food Hygiene Rating Scheme (FHRS) is comparable across Northern Ireland, England, and Wales.



Source: Food and You 2: Wave 2

Awareness of the FHRS was comparable across Northern Ireland (90%), England (86%), and Wales (92%) (Figure 17)<sup>51\*\*</sup>.

When shown an image of the FHRS sticker, most (96%) respondents reported that they had seen the FHRS sticker before. Recognition of the FHRS sticker was comparable across Northern Ireland (96%), England (89%), and Wales (96%) <sup>52\*\*</sup>.

<sup>&</sup>lt;sup>51</sup> Question: Have you heard of the Food Hygiene Rating Scheme? Responses: Yes, I've heard of it and know quite a lot about it, Yes, I've heard of it and know a bit about it, Yes, I've heard of it but don't know much about it, Yes, I've heard of it but don't know anything about it, No, I've never heard of it. Base = 1248, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire. Please note - 'Yes, I've heard of it and know quite a lot about it', 'Yes, I've heard of it and know a bit about it' and 'Yes, I've heard of it but don't know much about' it referred to as having knowledge of FHRS.
<sup>52</sup> Question: Have you ever seen this sticker before? Responses: Yes, No, Don't know/ Not sure. Base = 1144, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire.

## FHRS usage

Respondents who were aware of the FHRS were asked if they had checked the Food Hygiene Rating of a food business in the last 12 months. Six in ten (60%) respondents had checked the Food Hygiene Rating of a food business in the previous 12 months<sup>53</sup>.

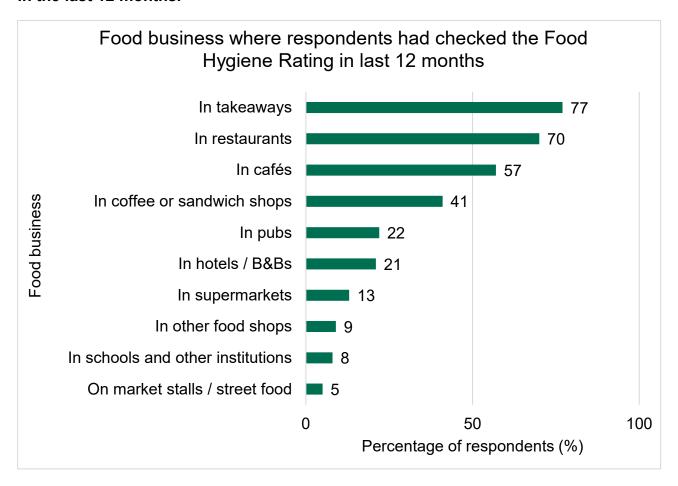
Of the respondents who had heard of the FHRS, those living in Northern Ireland (60%) Wales (64%) and were more likely to have checked the Food Hygiene Rating of a food business in the last 12 months compared to respondents in England (50%)<sup>54</sup>.

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<sup>&</sup>lt;sup>53</sup> Question: In the last 12 months, have you checked the hygiene rating of a food business? You may have checked a rating at the business premises, online, in leaflets or menus whether or not you decided to purchase food from there. Responses: Yes, I have checked the Food Hygiene Rating of a food business, No, I have not checked the Food Hygiene Rating of a food business, Don't know. Base = 1144, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire who had heard of the FHRS.

<sup>&</sup>lt;sup>54</sup> Question: In the last 12 months, have you checked the hygiene rating of a food business? You may have checked a rating at the business premises, online, in leaflets or menus whether or not you decided to purchase food from there. Responses: Yes, I have checked the Food Hygiene Rating of a food business, No, I have not checked the Food Hygiene Rating of a food business, Don't know. Base = 4376, all online respondents and those answering the Eating Out postal questionnaire who had heard of the FHRS.

Figure 18. Most respondents had checked the Food Hygiene Rating of takeaways in the last 12 months.



Source: Food & You 2: Wave 2

Respondents who had checked the Food Hygiene Rating of a food business were asked what kinds of food businesses they had checked the hygiene ratings of in the last 12 months. Most respondents had checked the rating of takeaways (77%) or restaurants (70%) in the last 12 months (Figure 18)<sup>55</sup>.

<sup>&</sup>lt;sup>55</sup> Question: In which of the following kinds of food businesses have you checked the hygiene ratings in the last 12 months? Responses: In takeaways, In restaurants, In cafés, In coffee or sandwich shops, In pubs, In hotels & B&Bs, In supermarkets, In other food shops, In schools and other institutions, On market stalls\street food, Somewhere else, Don't know. Base = 670, Northern Ireland, all online respondents and those answering the Eating Out postal questionnaire who have checked the Food Hygiene Rating of a food business.

# **Chapter 6: Food hypersensitivities**

#### Introduction

Food hypersensitivity is a term that refers to a bad or unpleasant physical reaction which occurs as a result of consuming a specific food. There are different types of food hypersensitivity including, food allergy, food intolerance and coeliac disease<sup>56</sup>.

- A food allergy occurs when the immune system (the body's defence) mistakes
  the proteins in food as a threat. Symptoms of a food allergy can vary from mild to
  very serious symptoms, and can include itching, hives, vomiting, swollen eyes and
  airways, or anaphylaxis which can be life threatening.
- Food intolerance is difficulty in digesting specific foods which causes unpleasant reactions such as stomach pain, bloating, diarrhoea, skin rashes or itching. Food intolerance is not an immune condition and is not life threatening.
- Coeliac disease is an autoimmune condition caused by gluten, a protein found in wheat, barley and rye and products using these as ingredients. The immune system attacks the small intestine which damages the gut and reduces the ability to absorb nutrients. Symptoms of coeliac disease can include diarrhoea, abdominal pain and bloating.

The FSA is responsible for allergen labelling and providing guidance to people with food hypersensitivities. By law<sup>57</sup>, food businesses in the UK must inform customers if they use any of the 14 most potent and prevalent allergens<sup>58</sup> in the food and drink they provide.

<sup>&</sup>lt;sup>56</sup> FSA Explains: Food hypersensitivities. Overview: Food Allergy, NHS. Food Intolerance, NHS. Overview: Coeliac disease, NHS.

<sup>&</sup>lt;sup>57</sup> Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011.

<sup>&</sup>lt;sup>58</sup> Allergens: celery, cereals containing gluten (such as barley and oats), crustaceans (such as prawns, crabs and lobsters), eggs, fish, lupin, milk, molluscs (such as mussels and oysters), mustard, peanuts, sesame, soybeans, sulphur dioxide and sulphites and tree nuts (such as almonds, hazelnuts, walnuts, Brazil nuts, cashews, pecans, pistachios and macadamia nuts).

This chapter provides an overview of respondents' understanding of food allergies and intolerances, the self-reported prevalence and diagnosis of food hypersensitivities, and experiences of eating out or ordering a takeaway with a hypersensitivity<sup>59</sup>.

# Understanding of food allergies and intolerances

All respondents (regardless of whether they had a food hypersensitivity or not) were asked how well they understood the difference between a food allergy and food intolerance. Most respondents (67%) reported that they understood the difference between a food allergy and food intolerance well (i.e. understood the difference very well or fairly well).

Approximately 1 in 5 (22%) respondents reported that they did not understand the difference between a food allergy and food intolerance very well or at all ('I don't understand the difference very well' and 'I don't understand the difference at all well'), and 6% of respondents did not know that there was a difference between the two<sup>60</sup>.

How well respondents understood the difference between a food allergy and a food intolerance varied between different groups of people:

- Age group: younger adults (for example, 71% of those aged 25-34 years) were more likely to report that they understood the difference between a food allergy and food intolerance well compared to adults aged 75 years and over (49%).
- Gender: females (73%) were more likely to report that they understood the difference between a food allergy and food intolerance well compared to males (62%).

very well, I understand the difference fairly well, I don't understand the difference very well, I don't understand the difference at all well, I didn't know there was a difference between food allergies and food intolerances, Don't know. Base =1249, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire.

<sup>&</sup>lt;sup>59</sup> A more detailed Food Hypersensitivities report is expected to be released 2021-2022. <sup>60</sup> Question: How well do you think you understand the difference between a food allergy and a food intolerance? Responses (Additional differences): I understand the difference very well, I understand the difference fairly well, I don't understand the difference at all well. I didn't know there was a difference

• Employment status: respondents who were working (72%) or not working (67%) were more likely to report that they understood the difference between a food allergy and food intolerance well compared to those who were retired (55%).

# Understanding of food allergen regulation

Respondents were asked which organisations, if any, from a given list, they thought were responsible for regulating the information that restaurants and takeaways provide on allergens and intolerances.

Most respondents (80%) thought that the FSA is responsible for regulating the information that restaurants and takeaways provide on allergens and intolerances. Almost a third (32%) of respondents reported that Defra are responsible for regulating the information that restaurants and takeaways provide on allergens and intolerances, and 31% of respondents reported that local authorities are responsible for regulating this information <sup>61</sup>.

## Prevalence and diagnosis of food hypersensitivities

Most respondents (87%) reported that they did not have a food hypersensitivity. Fewer than 1 in 10 (9%) respondents reported that they had a food intolerance, 2% had a food allergy, 1% had coeliac disease and 1% had multiple food hypersensitivities <sup>62</sup>.

<sup>&</sup>lt;sup>61</sup> Question: Which of the following organisations, if any, do you think is responsible for regulating the information that restaurants and takeaways provide on allergies and intolerances? Responses (Additional differences): Food Standards Agency, The Department for Environment, Food and Rural Affairs (Defra), Local Authorities, Allergy charities for example, Allergy UK, They aren't regulated, Some other organisation, Don't know. Base =1249, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire.

<sup>&</sup>lt;sup>62</sup> Questions/Respondents: Derived variable, see data tables (FOOD\_HS) and Technical Report. Base = 1566, Northern Ireland, all respondents.

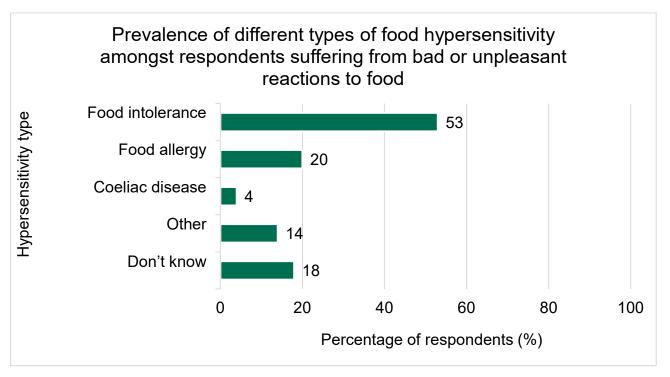
Almost a quarter of respondents (24%) reported that they had suffered from a bad or unpleasant physical reaction after consuming certain foods or avoided certain foods because of the bad or unpleasant physical reaction they might cause <sup>63</sup>.

The prevalence of bad or unpleasant physical reactions to food varied between different groups of people:

- Age group: respondents aged 75 years or over (38%) were more likely to report a
  bad or unpleasant physical reaction to food than younger adults (for example, 20%
  of those aged 45-54 years).
- Annual household income: respondents with an income below £19,000 (31%)
  were more likely to report a bad or unpleasant physical reaction to food than those
  with an income above £19,000 (for example, 19% of those with an income of
  £32,000-£63,999).
- Food security: respondents with low (40%) or very low (38%) food security were more likely to report a bad or unpleasant physical reaction to food than those with marginal (18%) or high food security (21%).
- Dietary need and shopping: respondents who considered a dietary need when shopping (38%) were more likely to report a bad or unpleasant physical reaction to food than those who did not consider a dietary need when shopping (8%).

<sup>&</sup>lt;sup>63</sup> Question: Do you suffer from a bad or unpleasant physical reaction after consuming certain foods, or avoid certain foods because of the bad or unpleasant physical reaction they might cause? Responses (Additional differences): Yes, No, Don't know, Prefer not to say. Base =1566, Northern Ireland, all respondents.

Figure 19. Food intolerance was the most common type of food hypersensitivity reported.



Source: Food and You 2: Wave 2

Respondents who suffered from a bad or unpleasant physical reaction after consuming certain foods or avoided certain foods because of the bad or unpleasant physical reaction they might cause were asked how they would describe their reaction. Over half (53%) of those respondents reported that they had a food intolerance, 20% reported that they had a food allergy and 4% reported that they had coeliac disease (Figure 19)<sup>64</sup>.

Respondents who reported having a food hypersensitivity were asked how they had found out about their condition. Almost 1 in 5 (18%) respondents who had a food hypersensitivity had been diagnosed by an NHS or private medical practitioner and 8% had been diagnosed by alternative or complementary therapist but not NHS/private

<sup>&</sup>lt;sup>64</sup> Questions/Respondents: Derived variable, see data tables (REACTYPE\_1 to REACTYPE\_18 combined) and Technical Report. Base = 374, Northern Ireland, all respondents who suffer from a bad or unpleasant physical reaction after consuming certain foods, or avoid certain foods because of the bad or unpleasant physical reaction they might cause.

medical practitioner. However, most respondents (74%) had not received any diagnosis <sup>65</sup>.

# Eating out with a food hypersensitivity

The FSA provides guidance for food businesses on providing allergen information. Food businesses in the retail and catering sector are required <u>by law</u> to provide allergen information and to follow labelling rules. The type of allergen information which must be provided depends on the type of food business. However, all food business operators must provide allergen information for prepacked and non-prepacked food and drink, <u>Allergen guidance for food businesses FSA</u>.

# How often people check allergen information in advance when eating somewhere new

Respondents who suffer from a bad or unpleasant physical reaction after consuming certain foods were asked how often, if at all, they checked in advance that information was available which would allow them to identify food that might cause them a bad or unpleasant reaction when they are out or ordered a takeaway from somewhere new.

Less than 1 in 5 (16%) respondents always checked in advance that information was available which would allow them to identify food that might cause them a bad or unpleasant reaction, and over a third (38%) checked this information was available less often. However, many respondents (43%) never checked in advance that information was available which would allow them to identify food that might cause them a bad or unpleasant reaction <sup>66</sup>.

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<sup>&</sup>lt;sup>65</sup> Questions/Respondents: Derived variable, see data tables (DIAG\_HS) and Technical Report. Base = 1566, Northern Ireland, all respondents.

<sup>&</sup>lt;sup>66</sup> Question: When eating out or ordering food from somewhere new, how often, if at all, do you check in advance that information is available allowing you to identify food that might cause you a bad or unpleasant physical reaction? Responses: Always, Most of the time, About half of the time, Occasionally, Never, Don't know. Base =352, Northern Ireland, all online respondents who eat out or buy food to takeaway, and all respondents who answered the postal questionnaire, who suffer from a bad or unpleasant physical reaction after consuming certain foods, or avoids certain foods because of the bad or unpleasant physical reaction they might cause who eat out or order takeaways. Please note - 'Most of the time', 'About half of the time' and 'Occasionally' referred to as 'less often'.

# Availability and confidence in allergen information when eating out or ordering takeaways

Respondents who suffer from a bad or unpleasant physical reaction after consuming certain foods were asked how often information which allowed them to identify food that might cause them a bad or unpleasant reaction was readily available when eating out or buying food to takeout.

While more than 1 in 10 (12%) respondents reported that this information was always readily available, over half (57%) of respondents reported that this information was available less often. However, 20% of respondents reported that this information was never readily available when they ate out or bought food to takeaway<sup>67</sup>.

<sup>&</sup>lt;sup>67</sup> Question: When eating out or buying food to takeout, how often, if at all, is the information you need to help you identify food that might cause you a bad or unpleasant physical reaction readily available? Responses (Additional differences): Always, Most of the time, About half of the time, Occasionally, Never, Don't know. Base =362, Northern Ireland, all online respondents who eat out or buy food to takeaway, and all respondents who answered the postal questionnaire, who suffer from a bad or unpleasant physical reaction after consuming certain foods, or avoids certain foods because of the bad or unpleasant physical reaction they might cause. Please note - 'Most of the time', 'About half of the time' and 'Occasionally' referred to as less often.

# **Chapter 7: Eating at home**

#### Introduction

The FSA is responsible for protecting the public from foodborne diseases. This involves working with farmers, food producers and processors, and the retail and hospitality sectors to ensure that the food people buy is safe. Since consumers are responsible for the safe preparation and storage of food in their home, the FSA gives practical guidance and recommendations to consumers on food safety and hygiene in the home.

Food and You 2 asks respondents a series of questions about their knowledge and reported behaviour in relation to five important aspects of food safety: cleaning, cooking, chilling, avoiding cross-contamination and use-by dates.

Two versions of the Eating at Home module have been created, a brief version which includes a limited number of questions, and a full version which includes all related questions. Food and You 2: Wave 2 included the brief Eating at home module. The full Eating at home was reported in the Food and You 2: Wave 1 Key Findings report.

# Cleaning

The <u>FSA recommends</u> that everyone should wash their hands before they prepare, cook or eat food and after touching raw food, and before handling ready-to-eat food.

The majority (80%) of respondents reported that they always wash their hands before preparing or cooking food. However, 20% of respondents reported that they do not always (i.e. most of the time or less often) wash their hands before preparing or cooking food 68. Most respondents (93%) reported that they always wash their hands immediately after handling raw meat, poultry or fish. However, 7% of respondents reported that they

<sup>68</sup> Question: When you are at home, how often, if at all, do you wash

<sup>&</sup>lt;sup>68</sup> Question: When you are at home, how often, if at all, do you wash your hands before starting to prepare or cook food. Responses: Always, Most of the time, About half the time, Occasionally, Never, I don't cook, Don't know. Base = 1173, Northern Ireland, all online respondents who ever do some food preparation or cooking for their household, and all those who completed the Eating at Home postal questionnaire, excluding 'I don't cook / prepare food' and 'not stated'.

do not always (i.e. most of the time or less often) wash their hands immediately after handling raw meat, poultry or fish<sup>69</sup>.

## **Chilling**

The <u>FSA provides guidance</u> on how to chill food properly to help stop harmful bacteria growing.

#### If and how respondents check fridge temperature

When asked what temperature the inside of a fridge should be, 69% of respondents reported that it should be between 0 and 5 degrees Celsius, in line with <u>FSA</u> recommendations. More than 1 in 10 (15%) respondents reported that the temperature should be above 5 degrees and 12% of respondents did not know what temperature the inside of their fridge should be<sup>70</sup>.

Over half of respondents who have a fridge reported that they monitored the temperature, either manually (54%) or via an internal temperature alarm (9%)<sup>71</sup>. Of the

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<sup>&</sup>lt;sup>69</sup> Question: When you are at home, how often, if at all, do you wash your hands immediately after handling raw meat, poultry or fish. Responses: Always, Most of the time, About half the time, Occasionally, Never, Don't know. Base = 1154, Northern Ireland, all online respondents who ever do some food preparation or cooking for their household, and all those who completed the Eating at Home postal questionnaire, excluding 'I don't cook meat, poultry or fish', 'I don't cook / prepare food' and 'not stated'. <sup>70</sup> Question: What do you think the temperature inside your fridge should be? Responses: Less than 0 degrees C (less than 32 degrees F), Between 0 and 5 degrees C (32 to 41 degrees F), More than 5 but less than 8 degrees C (42 to 46 degrees F), 8 to 10 degrees C (47 to 50 degrees F), More than 10 degrees C (over 50 degrees F), Other, Don't know. Base =1244, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire, excluding those who don't have a fridge.

<sup>&</sup>lt;sup>71</sup> Question: Do you, or anyone else in your household, ever check your fridge temperature? Responses: Yes, No, I don't need to - it has an alarm if it is too hot or cold, Don't know. Base = 1245, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire, excluding those who don't have a fridge.

respondents who monitor the temperature of their fridge, 70% reported that they check the temperature of their fridge at least once a month, <u>as recommended by the FSA</u><sup>72</sup>.

## **Defrosting**

The <u>FSA recommends</u> that food is defrosted in the fridge, or, if this is not possible to use a microwave on the defrost setting. Respondents are advised not to defrost foods at room temperature.

Respondents were asked which method they use to defrost meat and fish. Over a third (38%) of respondents reported that they defrost meat or fish in the fridge and 6% reported that they use a microwave, as <u>recommended by the FSA</u>. Over half (51%) of respondents reported that they leave the meat or fish at room temperature and 3% leave the meat or fish in water<sup>73</sup>.

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<sup>&</sup>lt;sup>72</sup> Question: How often, if at all, do you or someone else in your household check the temperature of the fridge? Responses: At least daily, 2-3 times a week, Once a week, Less than once a week but more than once a month, Once a month, Four times a year, Once or twice a year, Never, Don't know. Base = 665, Northern Ireland, all online respondents where someone in household checks fridge temperature, and all who completed the Eating at Home postal questionnaire.

<sup>&</sup>lt;sup>73</sup> Question: Typically, how do you defrost frozen meat or fish? Responses: Place the meat or fish in water, Leave the meat or fish at room temperature (e.g. on the worktop on a plate, in a container or in its packaging), Leave the meat or fish in the fridge, Defrost the meat or fish in the microwave oven, Some other way, Don't know. Base =1469, Northern Ireland, all online who do some food preparation and cooking, and all those who completed the food safety postal questionnaire who defrost meat or fish.

## Cooking

The <u>FSA recommends</u> that cooking food at the right temperature and for the correct length of time will ensure that any harmful bacteria are killed. When cooking pork, poultry, and minced meat products the <u>FSA recommends</u> that the meat is steaming hot and cooked all the way through, that none of the meat is pink and that any juices run clear.

Respondents were asked to indicate how often they cook food until it is steaming hot and cooked all the way through. The majority (85%) of respondents reported that they always cook food until it is steaming hot and cooked all the way through, however 14% reported that they do not always do this <sup>74</sup>.

When respondents were asked to indicate how often they eat chicken or turkey when they are pink or has pink juices, the majority reported that they never do this (93%). However, 6% of respondents reported eating chicken or turkey at least occasionally when it is pink or has pink juices<sup>75</sup>.

Following a review of scientific evidence<sup>76</sup>, the <u>FSA advises that infants, children,</u> pregnant women, elderly adults can now eat British Lion marked hen eggs safely. However, people with a severely weakened immune system should cook eggs thoroughly. This recommendation does not apply to eggs which are from outside the UK, not hen eggs or British Lion marked<sup>77</sup>.

<sup>&</sup>lt;sup>74</sup> Question: How often, if at all, do you cook food until it is steaming hot and cooked all the way through? Responses: Always, Most of the time, About half of the time, Occasionally, Never, Don't know. Base =1168, Northern Ireland, all online respondents who ever do some food preparation or cooking for their household, and all those who completed the Eating at Home postal questionnaire, excluding 'I don't cook food' and 'not stated'.

<sup>&</sup>lt;sup>75</sup> Question: How often, if at all, do you eat chicken or turkey when it is pink or has pink or red juices? Responses: Always, Most of the time, About half of the time, Occasionally, Never, Don't know. Base = 1184, Northern Ireland, all online who are not vegan/ pescatarian/ vegetarian who eat this type of meat and all those who completed the Eating at Home postal questionnaire and eat chicken/turkey.

<sup>&</sup>lt;sup>76</sup> Ad Hoc Group on Eggs. An update on the microbiological risk from shell eggs and their products (2017). Advisory Committee on the Microbiological Safety of Food (ACMSF).

<sup>77</sup> The healthy way to eat eggs (2021). NHS.

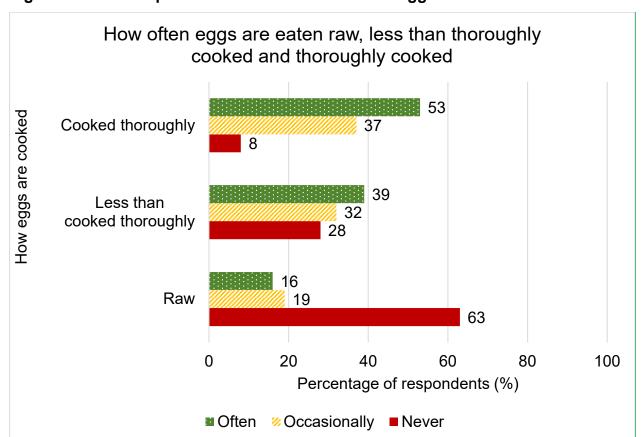


Figure 20. Most respondents have never eaten raw eggs.

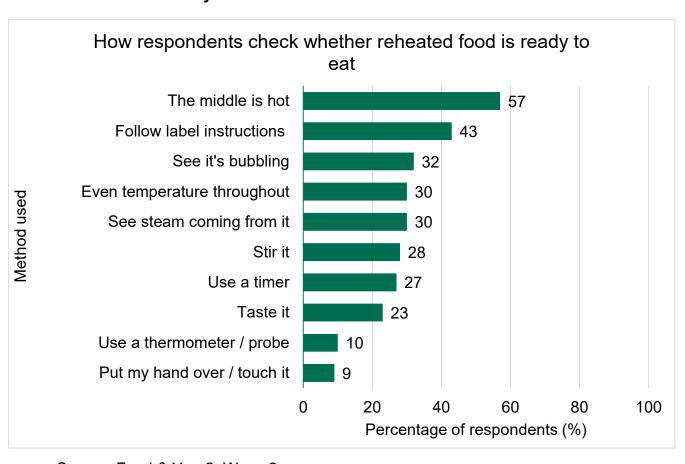
Source: Food & You 2: Wave 2

Respondents who eat eggs at home were asked to indicate how often they eat eggs that are thoroughly cooked, less than thoroughly cooked (have a runny yolk for example, soft boiled) and raw (uncooked for example, in homemade mayonnaise or homemade desserts like mousse or soft meringues). Thoroughly cooked eggs (53%) were eaten

more often than 'less than thoroughly cooked' (39%) or raw eggs (16%). Most respondents (63%) reported that they have never eaten raw eggs (Figure 20)<sup>78</sup>.

# Reheating

Figure 21. Checking that the middle is hot is the most common method to check food is reheated and ready to eat.



Source: Food & You 2: Wave 2

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<sup>&</sup>lt;sup>78</sup> Question: At home, how often, if at all, do you eat eggs that are....A) raw (eggs that are uncooked for example, in homemade mayonnaise or homemade desserts like mousse or soft meringues) B) less than thoroughly cooked (eggs that have a runny yolk for example, soft boiled) C) cooked thoroughly (eggs that have a firm yolk for example, hard boiled). Responses (Additional differences): Everyday, Most days, 2-3 times a week, About once a week, 2-3 times a month, About once a month, Less than once a month, Never, Can't remember. Base = 1479, Northern Ireland, all online respondents and those who completed the postal questionnaires, who eat eggs at home. Please note - 'Everyday', 'Most days', '2-3 times a week' and 'About once a week' referred to as often; '2-3 times a month', 'About once a month' and 'Less than once a month' referred to as occasional.

Respondents were asked to indicate how they check food is ready to eat when they reheat it. The most common method was to check the middle is hot (57%), and the least common method was to use a put a hand over or touch the food (9%) (Figure 21)<sup>79</sup>.

When respondents were asked how many times they would reheat food, the majority reported that they would only reheat food once (84%), 7% would reheat food twice, only 2% would reheat food more than twice, and 6% would not reheat leftovers<sup>80</sup>.

#### Leftovers

Respondents were asked what is the latest that they would consume leftovers stored in the fridge. Seven per cent of respondents said that they would only eat leftover the same day. Most respondents said they would eat leftovers within 1-2 days (69%), or within 3-5 days (18%) and only 1% would eat leftovers after 5 days or longer<sup>81</sup>.

# **Avoiding cross-contamination**

The FSA provides guidelines on <u>how to avoid cross-contamination</u>. The FSA recommends that people <u>do not wash raw meat</u>. Washing raw meat can spread harmful bacteria onto your hands, clothes, utensils, and worktops.

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<sup>&</sup>lt;sup>79</sup> Question: When reheating food, how do you know when it is ready to eat? (Select all that apply). Responses: I check the middle is hot, I follow the instructions on the label, I can see its bubbling, I use a timer to ensure it has been cooked for a certain amount of time, I check it's an even temperature throughout, I can see steam coming from it, I taste it, I stir it, I put my hand over it/touch it, I use a thermometer/probe, None of the above, I don't check. Base = 1134, Northern Ireland, all online respondents who ever do some food preparation or cooking for their household, and all those who completed a postal questionnaire, excluding 'I do not reheat food' and 'not stated'.

<sup>&</sup>lt;sup>80</sup> Question: How many times would you consider reheating food after it was cooked for the first time? Responses: Not at all, Once, Twice, More than twice, Don't know. Base = 1147, Northern Ireland, all online respondents who reheat food using one of the methods in the previous question, and all those who completed the Eating at Home postal questionnaire.

Responses: The same day, Within 1-2 days, Within 3-5 days, More than 5 days later, It varies too much, Don't know. Base =1249, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire.

Over two thirds (69%) of respondents reported that they never wash raw chicken, whilst 29% of respondents wash raw chicken at least occasionally (i.e. 'occasionally' of more often)<sup>82</sup>.

# How and where respondents store raw meat and poultry in the fridge

<u>The FSA recommends</u> that refrigerated raw meat and poultry is kept covered, separately from ready-to-eat foods and stored at the bottom of the fridge to avoid cross-contamination.

Respondents were asked to indicate, from a range of responses, how they store meat and poultry in the fridge. Respondents were most likely to report storing raw meat and poultry away from cooked foods (67%) or in its original packaging (66%). Over a third of respondents reported storing raw meat and poultry in a sealed container (40%) or covered with film/foil (35%), with fewer keeping the product on a plate (16%)<sup>83</sup>.

Almost three quarters (74%) of respondents reported storing raw meat and poultry at the bottom of the fridge, <u>as recommended by the FSA</u>. However, 10% of respondents reported storing raw meat and poultry in the middle of the fridge, 6% at the top of the

<sup>82</sup> Question: How often, if at all, do you do the following? Wash raw chicken. Responses: Always, Most of the time, About half of the time, Occasionally, Never, Don't know. Base =1166, Northern Ireland, all online respondents who ever do some food preparation or cooking for their household, and all those who completed the Eating at Home postal questionnaire, excluding 'I don't cook / prepare food' and 'not stated'.

<sup>&</sup>lt;sup>83</sup> Question: How do you store raw meat and poultry in the fridge? Please select all the apply. Responses: Away from cooked foods, Covered with film/foil, In a sealed container, In its original packaging, On a plate, I don't store raw meat/poultry in the fridge, I don't have a fridge\*, Don't know. Base =1169, Northern Ireland, all respondents except those who don't buy/store meat/poultry, don't store raw meat/poultry in the fridge, do not have a fridge or don't know. Please note - Details about how different types of people store raw meat and poultry in the fridge is available in the <u>Food and You 2: Wave 1 Key Findings</u> report and Food and You 2: Wave 2 data and tables.

fridge, and 14% of respondents reported storing raw meat and poultry wherever there is space in the fridge<sup>84</sup>.

# **Use-by and best before dates**

Respondents were asked about their understanding of the different types of <u>date labels</u> and instructions on food packaging, as storing food for too long or at the wrong temperature can cause food poisoning. Use-by dates relate to food safety. Best before (BBE) dates relate to food quality, not safety.

Respondents were asked to indicate which date shows that food is no longer safe to eat. In accordance with <u>FSA recommendations</u>, 71% of respondents identified the use-by date as the information which shows that food is no longer safe to eat. However, 15% of respondents identified the best before date as the date which shows food is no longer safe to eat.<sup>85</sup>.

More than 7 in 10 (71%) respondents reported that they always check use-by dates before they cook or prepare food. Over a quarter (26%) of respondents reported checking use-by dates at least occasionally (i.e. most of the time, about half of the time, or occasionally) and just 1% reported never checking use-by dates <sup>86</sup>.

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<sup>&</sup>lt;sup>84</sup> Question: Where in the fridge do you store raw meat and poultry? Responses: Wherever there is space, At the top of the fridge, In the middle of the fridge, At the bottom of the fridge, Don't know. Base = 1158, Northern Ireland, all respondents who store raw meat/poultry in the fridge, except those who don't buy meat/poultry, don't store it in the fridge, don't have a fridge.

<sup>&</sup>lt;sup>85</sup> Question: Which of these shows when food is no longer safe to eat? Responses: Use by date, Best before date, Sell by date, Display until date, All of these, It depends, None of these, Don't know. Base =1249, Northern Ireland, all online respondents and those answering the Eating at Home postal questionnaire. Please note - Details of how use-by date knowledge varies between different groups of people available in the <u>Food and You 2: Wave 1 Key Findings</u> report and <u>Food and You 2: Wave 2 data and tables</u>.

<sup>&</sup>lt;sup>86</sup> Question: How often, if at all, do you check use-by dates when you are about to cook or prepare food? Responses: Always, Most of the time, About half of the time, Occasionally, Never, It varies too much, Don't know. Base =1167, Northern Ireland, all online respondents who ever do some food preparation or cooking for their household, and all those who completed the Eating at Home postal questionnaire, excluding I don't cook / prepare food.

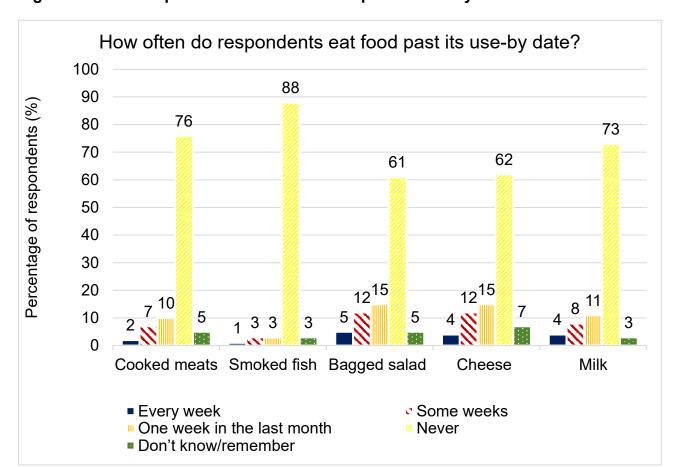


Figure 22. Most respondents do not eat food past its use-by date.

Source: Food & You 2: Wave 2

Respondents who had eaten certain foods in the last month were asked to indicate how often, if at all, they ate the food past the use-by date. Most respondents reported that they never ate smoked fish (88%), cooked meats (76%), milk (73%), cheese (62%) or bagged salads (61%) past the use-by date. Conversely, some respondents reported that they had eaten those foods past the use-by date. For example, 33% of respondents had eaten bagged salad past the use-by date (5% every week, 12% some weeks and 15% just one week in the last month) (Figure 22)<sup>87</sup>.

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<sup>&</sup>lt;sup>87</sup> Question: In the last month have you eaten any of the following foods that has gone past its use-by date? A) Cooked meats B) Smoked fish C) Bagged salads D) Cheese E) Milk. Responses: Yes, this happened every week. Yes, this happened some weeks but not every week. Yes, this happened just one week in the last month. No, never. Don't know. Prefer not to say. Base A= 1158, B= 964, C= 1105, D= 1189, E= 1209, Northern Ireland, all online respondents, and all those who completed the Eating at Home postal questionnaire, who had eaten/drunk the food in the last month.

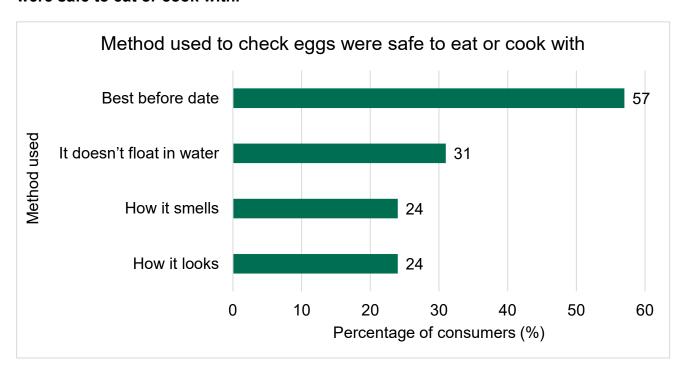
Respondents who had eaten eggs in the last month were asked to indicate how often, if at all, they ate eggs past the best before date in the last month. Most respondents (72%) reported that they had not eaten eggs past the best before date in the last month. Almost 1 in 5 (18%) respondents reported that they had eaten eggs past the best before date in the last month 88.

Respondents who ate eggs were asked how long after the best before date they would eat eggs. Most (61%) respondents stated they would eat eggs 1-2 days after the best before date, 21% would eat eggs between 3 and 7 days after the best before date and 5% of respondents would eat eggs 1 week or more after the best before date<sup>89</sup>.

<sup>&</sup>lt;sup>88</sup> Question: In the last month have you eaten any eggs that have gone past their best before date? Responses: Yes, this happened every week. Yes, this happened some weeks but not every week. Yes, this happened just one week in the last month. No, this has not happened in the last month. Don't know/I don't check the best before date on eggs, Prefer not to say. Base = 1400, Northern Ireland, all online respondents who eat eggs at home and all respondents who completed the postal questionnaires, excluding those who haven't eaten eggs in the last month.

<sup>&</sup>lt;sup>89</sup> Question: When is the latest you would eat eggs after their best before date? Responses: 1-2 days after the best before date, 3-4 days after the best before date, 5-7 days after the best before date, 1-2 weeks after the best before date, More than 2 weeks after the best before date, Don't know/ I don't check the best before date on eggs. Base = 1479, Northern Ireland, all online respondents and those who completed the postal questionnaires, who eat eggs after their best before date?

Figure 23. Most respondents used the best before date to check whether eggs were safe to eat or cook with.



Source: Food & You 2: Wave 2

Respondents were asked to indicate how they tell whether eggs are safe to eat or cook with. Over half (57%) of respondents used the best before date to check whether eggs were safe to eat or cook with. Checking the egg doesn't float in water (31%)<sup>90</sup>, smell (24%) and appearance (24%) were also used to check whether eggs were safe to eat or cook with (Figure 23)<sup>91</sup>.

<sup>&</sup>lt;sup>90</sup> The <u>FSA do not recommend</u> using the float test to check if eggs are safe to eat.

<sup>91</sup> Question: How do you tell whether an egg is safe to eat or cook with? (Select all that

apply). Responses: How it looks; How it smells; Best before date, It doesn't float in water, Some other way, Don't know. Base = 1162, Northern Ireland, all online respondents who eat eggs at home and those who completed the Eating at Home postal questionnaire.

# Annex A: Food and You 2: Wave 2

## **Background**

In 2018 the <u>Advisory Committee for Social Science</u> (ACSS) established a new Food and You Working Group to review the methodology, scope and focus of the Food and You survey. The Food and You Working Group provided a <u>series of recommendations</u> on the future direction of the Food and You survey to the FSA and ACSS in April 2019. Food and You 2 was developed from the recommendations.

The Food and You 2 survey has replaced the biennial Food and You survey (2010-2018), biannual Public Attitudes Tracker (2010-2019) and annual Food Hygiene Rating Scheme (FHRS) Consumer Attitudes Tracker (2014-2019). The Food and You survey has been an Official Statistic since 2014.

The <u>Food and You 2: Wave 1 Key Findings</u> report was published in March 2021. The <u>Food and You 2: Wave 2 Key Findings</u> report was published in July 2021.

# Methodology

The Food and You 2 survey is commissioned by the Food Standards Agency (FSA). The fieldwork is conducted by Ipsos MORI. Food and You 2 is a biannual survey. Fieldwork for Food and You 2: Wave 1 was conducted between 29<sup>th</sup> July and 6<sup>th</sup> October 2020. Fieldwork for Wave 2 was conducted from 20<sup>th</sup> November 2020 to 21<sup>st</sup> January 2021.

Food and You 2 is a sequential mixed-mode 'push-to-web' survey. A random sample of addresses (selected from the Royal Mail's Postcode Address File) received a letter inviting up to two adults (aged 16 or over) in the household to complete the online survey. A first reminder letter was sent to households that had not responded to the initial invitation. A postal version of the survey accompanied the second reminder letter for those who did not have access to the internet or preferred to complete a postal version of the survey. This helps to reduce the response bias that otherwise occurs with online-only surveys. This method is accepted for government surveys and national statistics, including the 2021 Census and 2019/2020 Community Life Survey. A third and final reminder was sent to households if the online survey had not been completed.

Respondents were given a gift voucher for completing the survey. Further details about the methodology are available in the <u>Wave 1 Technical Report</u> and <u>Wave 2 Technical Report</u>. Due to the difference in methodology between the Public Attitudes Tracker, FHRS Consumer Attitudes Tracker and Food and You survey (2010-2018) it is not possible to compare the data collected in Food and You 2 (2020 onward) with these earlier data. Comparisons can be made between the different waves of Food and You 2.

The sample of main and reserve addresses <sup>92</sup> was stratified by region (with Wales and Northern Ireland being treated as separate regions), and within region (or country) by local authority (district council in Northern Ireland) to ensure that the issued sample was spread proportionately across the local authorities. National deprivation scores were used as the final level of stratification within the local authorities - in England the Index of Multiple Deprivation (IMD), in Wales the Welsh Index of Multiple Deprivation (WIMD) and in Northern Ireland, the Northern Ireland Multiple Deprivation Measure (NIMDM).

Due to the length and complexity of the online questionnaire it was not possible to include all questions in the postal version of the questionnaire. The postal version of the questionnaire needed to be shorter and less complex to encourage a high response rate. To make the postal version of the questionnaire shorter and less complex, two versions were produced. All data collected by Food and You 2 are self-reported. The data are the respondents own reported attitudes, knowledge and behaviour relating to food safety and food issues. As a social research survey, Food and You 2 cannot report observed behaviours. Observed behaviour in kitchens has been reported in Kitchen Life, an ethnographic study which used a combination of observation, video observation and interviews to gain insight into domestic kitchen practices. This study will be updated through Kitchen Life 2, which is in progress now and due to report in 2023.

The minimum target sample size for the survey is 4,000 households (2,000 in England, 1,000 in Wales, 1,000 in Northern Ireland), with up to two adults in each household invited to take part as mentioned above. For Wave 1 a total of 9,319 adults from 6,408 households across England (5,140 adults), Northern Ireland (2,079 adults), and Wales

<sup>&</sup>lt;sup>92</sup> A reserve sample of addresses was created to use if the target number of respondents was not achieved from the main sample of addresses.

(2,100 adults), completed the survey. An overall response rate of 30% was achieved (England 33%, Wales 30%, Northern Ireland 26%). Overall, 64% of respondents completed the survey online (England 65%, Wales 67%, Northern Ireland 57%) and 36% completed the postal version of the survey. The postal responses from 47 respondents were removed from the data set as the respondent had completed both the online and postal survey. Further details about the response rates are available in the Wave 1 Technical Report. For Wave 2 a total of 5,900 adults from 3,955 households across England (2,968 adults), Northern Ireland (1,566 adults), and Wales (1,366 adults), completed the survey. An overall response rate of 28% was achieved (England 30%, Wales 29%, Northern Ireland 25%). Overall, 64% of respondents completed the survey online (England 65%, Wales 67%, Northern Ireland 60%) and 36% completed the postal version of the survey. The postal responses from 156 respondents were removed from the data set as the respondent had completed both the online and postal survey. Further details about the response rates are available in the Wave 2 Technical Report.

Weighting was applied to ensure the data are as close as possible to being representative of the socio-demographic and sub-groups in the population, as is usual practice in government surveys. The weighting applied to the Food and You 2 data helps to compensate for variations in within-household individual selection, for response bias, and for the fact that some questions were only asked in one of the postal surveys. Further details about weighting approach used and the weights applied to each wave of the Food and You 2 data are available in the <a href="Wave 1 Technical Report">Wave 2</a> Technical Report.

The data have been checked and verified by six members of Ipsos MORI and two members of the FSA Statistics branch. Descriptive analysis and statistical tests have been performed by Ipsos MORI. Quantum (statistical software) was used by Ipsos MORI to calculate the descriptive analysis and statistical tests (t-tests).

The p-values that test for statistical significance are based on t-tests comparing the weighted proportions for a given response within that socio-demographic and sub-group breakdown. An adjustment has been made for the effective sample size after weighting, but no correction is made for multiple comparisons.

Reported differences between socio-demographic and sub-groups typically have a minimum difference of 10 percentage points between groups and are statistically

significant at the 5% level (p<0.05). However, some differences between respondent groups are included where the difference is fewer than 10 percentage points when the finding is notable or of interest. Percentage calculations are based only on respondents who provided a response. Reported values and calculations are based on weighted totals.

#### **Technical terms and definitions**

- 1. Statistical significance is indicated at the 5% level (p<0.05). This means that where a significant difference is reported, there is reasonable confidence that the reported difference is reflective of a real difference at the population level.
- 2. Food security means that all people always have access to enough food for a healthy and active lifestyle (World Food Summit, 1996). The United States Department of Agriculture (USDA) has created a series of questions which indicate a respondent's level of food security. Food and You 2 incorporates the 10 item U.S. Adult Food Security Survey Module and uses a 12 month time reference period. Respondents are classified as having high food security, marginal food security, low food security and very low food security.
- 3. <u>NS-SEC</u> (The National Statistics Socio-economic classification) is a classification system which provides an indication of socio-economic position based on occupation and employment status.
- 4. Northern Ireland Multiple Deprevation Measure (NIMDM) is the official measure of relative deprivation of a geographical area. WIMD classification is assigned by postcode or place name. WIMD is a multidimensional calculation which is intended to represent the living conditions in the area, including income, employment, health, education, access to services, housing, community safety and physical environment. Small areas are ranked by IMD/WIMD/NIMDM; this is done separately for <a href="England">England</a>, <a href="Wales">Wales</a> and <a href="Northern">Northern</a> Ireland.

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