

**R&D REPORT**  
**NO. 80**

**Barriers to the consumption  
of reduced-fat bakery  
products: a consumer survey**

**1999**

**Campden BRI**



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## **Barriers to the consumption of reduced-fat bakery products: a consumer survey**

JA McEwan

1999

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## EXECUTIVE SUMMARY

This document reports the results of consumer quantitative research undertaken as part of a MAFF funded project to look at technical, economic, legislative and consumer barriers to the consumption of reduced fat bakery products. This follows on from previous qualitative research to identify and explore barriers to consumer acceptance of reduced fat bakery products. The purpose of this stage was to quantify some of the attitudes and perceptions highlighted in the group discussions.

A questionnaire was designed to quantify potential barriers to the consumption of reduced fat bakery products. As well as reflecting attitudes and perceptions elicited from the previous group discussions (McEwan and Clayton, 1999), background information was collected on respondents' age, gender, family and eating habits.

The questionnaire was sent to 3000 households provided by CACI (a provider of addresses for market research work), and 206 completed questionnaires arrived by the deadline. Overall the distribution of male: female was 26:74, with more respondents aged 35 to 54 years. In addition, the regional distribution was weighted towards the South East of the country. The data should be interpreted taking into account that the sample is biased in these respects.

Bakery products tended to be purchased in the supermarket, though bakeries still tended to be used for pastries and fresh cakes. Biscuits tended to be purchased as standard packs, whilst cakes were mainly purchased as individual cakes or cake bars followed by whole family size cakes, whilst pastries tended to be purchased individually.

Most respondents consumed sweet biscuits, with 72% consuming them at least once a week, whilst this figure was 57% for savoury biscuits. Pastries were consumed by 30% of respondents on a weekly basis; this figure was 38% for fresh cakes, 11% for frozen cakes and 28% for pre-packed cakes.

Sweet biscuits tended to be purchased as a snack product or as an indulgence or treat item, whereas savoury biscuits were seen as a snack or part of a meal. Pastries and fresh cakes were most frequently purchased as an indulgence or treat.

Price, quality and family favourite were the most quoted reasons influencing the choice of purchase of bakery products.

In general, respondents considered that biscuits, cakes and pastries were fattening and that they worried about the fat in these items. However, it was equally clear that bakery products played a specific role in the diet as filling a gap or as a treat. However, respondents could be segmented into groups according to their attitudes, and so not all respondents held the same views.

Over half the respondents claimed that, in terms of diet, they tried to live a fairly healthy lifestyle. Factors identified as contributing to a healthy lifestyle included reducing sugar, eating less red meat and controlling/reducing alcohol consumption, and then reducing cholesterol. When asked about measures contributing to watching diet and weight, the most common measure was reducing fat in the diet, followed by reducing sugar. Therefore there seems to be some confusion over living a healthy lifestyle and dieting or weight watching.

In terms of attitudes towards health, respondents felt that treats for the family need not be healthy, but nonetheless most felt that they tried to feed the family a balanced diet. In terms of reduced fat products tried, McVities Go Ahead was most cited across all categories, except pastries.

Respondents perceived that reduced fat bakery products were too expensive, they tasted worse than 'normal fat' products, and that the reduction in fat was small. However, for those buying reduced fat bakery products, the reasons given were to reduce the fat in the diet or as an action towards general health for all the family.

Looking at attitudes towards reduced fat bakery products, respondents tended to agree that they would prefer to cut out cakes completely if on a diet and that reduced fat products were only important if you had special dietary needs.

Considering the purchase of reduced fat bakery products, respondents agreed that they would try new products if they were on special offer, and if they were of equal quality to 'normal fat' products. In terms of reduced fat claims, 'fat free' was most likely to be purchased followed by 'virtually fat free', with the least attractive option being 'less fat than standard'. The most attractive reductions in fat to respondents were cited as 99% and 95%.

It would therefore seem that reduced fat bakery products could be important when dieting, but not necessarily as part of reducing fat in the diet. Price, quality and availability were also issues. In addition, it was clear that bakery products play an important role in the diet, and are seen as a treat or indulgence, particularly with respect to cakes and pastries. Added to this is the perception that the fat reduction available may not be enough to shift behaviour.

In conclusion, for reduced fat bakery products to be more widely consumed, industry must address the amount of fat reduction, and look at better communication strategies to convey benefits to the consumer. However, it should not be forgotten that biscuits, cakes and pastries are frequently indulgence items, and as such may be expected to contain fat.



# CONTENTS

|  |           |
|--|-----------|
| <b>1. INTRODUCTION</b>                             | <b>1</b>  |
| 1.1 Background                                     | 1         |
| 1.2 Project Objectives                             | 2         |
| <b>2. QUESTIONNAIRE DESIGN AND DATA COLLECTION</b> | <b>3</b>  |
| 2.1 The Questionnaire                              | 3         |
| 2.2 The Sampling Method                            | 4         |
| 2.3 Return Rate                                    | 4         |
| <b>3. RESULTS: SAMPLE INFORMATION</b>              | <b>5</b>  |
| 3.1 Age and Gender                                 | 5         |
| 3.2 Marital Status and Family                      | 6         |
| 3.3 Qualifications                                 | 7         |
| 3.4 Region   | 8         |
| <b>4. RESULTS: PURCHASE OF BAKERY PRODUCTS</b>     | <b>9</b>  |
| 4.1 Frequency of Purchase                          | 9         |
| 4.2 Product Format/Packaging                       | 9         |
| 4.3 Reasons for Purchase                           | 10        |
| 4.4 Place of Purchase                              | 11        |
| 4.5 Weekly Spend on Bakery Products                | 13        |
| 4.6 People Purchased For                           | 13        |
| 4.7 Frequency of Consumption                       | 15        |
| <b>5. RESULTS: PURCHASE BEHAVIOUR</b>              | <b>16</b> |
| 5.1 Reasons for Purchase                           | 16        |
| 5.2 Factors Influencing Choice of Purchase         | 17        |
| 5.3 Brand, Own Label or Fresh                      | 18        |

|   |           |
|---|-----------|
| <b>6. RESULTS: ATTITUDES AND LIFESTYLE</b>                | <b>19</b> |
| 6.1 Attitudes Towards Biscuits                            | 19        |
| 6.2 Attitudes Towards Cakes and Pastries                  | 22        |
| 6.3 Healthy Lifestyle and Diet                            | 24        |
| 6.4 Attitudes Towards Health                              | 27        |
| <b>7. RESULTS: REDUCED FAT PRODUCTS</b>                   | <b>29</b> |
| 7.1 Purchase of Reduced Fat Products                      | 29        |
| 7.2 Factors Deterring Purchase of Reduced Fat Products    | 30        |
| 7.3 Reasons for Trying Reduced Fat Bakery Products        | 30        |
| 7.4 Types of Reduced Fat Bakery Products Tried            | 31        |
| 7.5 Reasons for Buying Reduced Fat Bakery Products        | 32        |
| <b>8. RESULTS: ATTITUDES TOWARDS REDUCED FAT PRODUCTS</b> | <b>33</b> |
| 8.1 Behaviour if on a Diet                                | 33        |
| 8.2 Attitudes Towards Reduced Fat Bakery Products         | 34        |
| 8.3 Attitudes to Sensory Attributes                       | 36        |
| 8.4 Product Involvement                                   | 37        |
| 8.5 Reduced Fat Claims                                    | 40        |
| <b>9. RESULTS: CONSUMER GROUPING</b>                      | <b>41</b> |
| 9.1 Attitudes Towards Biscuits                            | 42        |
| 9.2 Attitudes Towards Cakes and Pastries                  | 45        |
| 9.3 Attitudes Towards Health                              | 48        |
| 9.4 Attitudes Towards Reduced Fat Bakery Products         | 50        |
| 9.5 Attitudes to Sensory Attributes                       | 52        |
| 9.6 Attitudes Towards Purchase                            | 54        |
| <b>10. DISCUSSION AND CONCLUSIONS</b>                     | <b>56</b> |
| <b>REFERENCES</b>   | <b>57</b> |
| <b>APPENDIX 1: QUESTIONNAIRE</b>                          | <b>58</b> |

# 1. INTRODUCTION

## 1.1 Background

The substitution of high fat foods by reduced fat alternatives can result in a significant reduction in the amount of energy that consumers derive from fat. While in some product sectors (e.g. spreads and milk) reduced fat alternatives are both widespread and acceptable to the consumer, other sectors such as bakery have had less success. Cereals and cereal products contribute approximately 15.6% of dietary fat in the UK, of which bakery products contribute at least two thirds.

In the bakery sector, technical and economic issues may be barriers to providing quality reduced fat products, whilst consumer barriers could lie in the perception of such products as being indulgences; therefore reduced fat is a contradiction in expectations. In other words, does the product labelling and concept match consumer expectations of this product category, and if not why not? In this respect, both sensory and psychological factors come into play. In addition, legislative issues may be potentially constraining the reduction of fat, as in order to make a fat reduced claim, a 25% reduction is recommended (HMSO, 1991). The strategy for a step-wise reduction in fat may be more attractive from the technical and eating quality point of view and this issue needs to be explored.

This project investigates the barriers to reduced fat bakery products, both from the industrial point of view through a series of one to one interviews (Sharp and Catterall, 1999) and from the consumer's point of view through group discussions (McEwan and Clayton, 1999) and a quantitative survey (current report). Information from all parties will be combined to provide detailed documentation as a starting point to propose strategies for overcoming the barriers identified.

## 1.2 Project Objectives

The objectives for the overall project have been broken down into three main components.

1. To identify the obstacles to the development of reduced fat alternatives for bakery products.
2. To identify the barriers to consumer acceptability of reduced fat bakery products and the extent to which this response is influenced by demographic and other factors, and by the individual's perceptions of the potential health benefits.
  - 2.1 To explore and identify barriers to consumer acceptance of reduced fat bakery products (e.g., eating quality, availability, image/concept, etc.)
  - 2.2 To quantify barriers to establish the extent to which they exist in England, looking at differences between region, age and sex.
3. To assess how the barriers indicated in these two areas might be overcome.

This report follows on from the consumer qualitative research (McEwan and Clayton, 1999), and deals with the development, administration and interpretation of a questionnaire survey to quantify consumer barriers to the consumption of reduced fat bakery products. A report by Sharp and Catterall (1999) deals with identifying the technical, economic and legislative barriers to the production of reduced fat bakery products.

## **2. QUESTIONNAIRE DESIGN AND DATA COLLECTION**

### **2.1 The Questionnaire**

A questionnaire was designed to quantify potential barriers to the consumption of reduced fat bakery products. As well as reflecting attitudes and perceptions elicited from the previous group discussions (McEwan and Clayton, 1999), background information was collected on respondents' age, gender, family and eating habits.

The questionnaire was designed to be completed by one person in a household, who was solely or jointly responsible for the main food shopping. The questionnaire comprised a number of sections, namely:

- ◆ About the products you eat and buy;
- ◆ Your attitudes towards health and dieting;
- ◆ Your usage of reduced fat products;
- ◆ Details about you.

After completing a number of drafts, the questionnaire was piloted on ten respondents from different ages and socio-economic groups. This was to establish if the questions were easy to answer as a self-completion exercise. After filling in the questionnaire, an interviewer discussed any problems raised by the respondent regarding the questionnaire. These were addressed and a final version created (Appendix 1).

The questionnaire was then typeset by DRS Data and Research Services plc in a format suitable for reading with an optical mark reader.

## **2.2 The Sampling Method**

The questionnaire was sent to 3000 households provided by CACI, a provider of addresses for market research work. CACI firstly stratifies all the postcodes in England by Government Standard Region (GSR). The postcodes are ordered by CACI's socio-economic classification (ACORN), and finally one Electoral Roll record is extracted at random from each of the 3000 selected postcodes.

The questionnaires, return envelopes and a letter were distributed by ACORN mailing Services on 7th September 1998, with a return date deadline of Friday 2<sup>nd</sup> October, 1998. An incentive of 25 x £10 WH Smith Vouchers was offered in a prize draw.

By sending out 3000 questionnaires, it was hoped to receive at least 600 returns (20% return rate). This was not considered unreasonable for this type of postal questionnaire.

## **2.3 Return Rate**

A total of 236 questionnaires were returned, of which 27 were returned by respondents without completing, and 3 were received after 12<sup>th</sup> October, the cut-off date for data entry. Therefore a total of 206 questionnaires were decoded and transferred to the Minitab statistical package for data analysis.

This return rate of 7.2% was extremely disappointing, and perhaps partly reflects the lack of interest respondents have with respect to filling in a questionnaire on bakery products. Another aspect was undoubtedly the length of the questionnaire, which took between 30-45 minutes to complete. This is an important learning for future studies in this area, where use of regional central location tests and one-on-one interviews may be more appropriate.

### 3. RESULTS: SAMPLE INFORMATION

In total, 206 respondents returned their completed questionnaires in time for scanning and decoding. Unless otherwise stated, all tables express percentages in relation to this base of 206. Where missing data occurred, the percentage (or count) is either adjusted for this or the percentage missing data are recorded.

This section concentrates on the background information of respondents, thus illustrating the range of respondents replying to the survey.

#### 3.1 Age and Gender

Table 3.1 shows the age and gender distribution of respondents. In all age categories, there was a predominance of female respondents, which is not unexpected given that the recruitment criterion was for those solely or jointly responsible for food shopping. However, in the younger and older age groups there was a slightly greater percentage of males. The distribution of ages tended towards more respondents between 35 and 54 years, with relatively few young respondents (16-24 years).

**Table 3.1:** Age and gender of respondents expressed as a percentage.

| Age   | Distribution by Age (%) |        |     | Distribution by Gender (%) |        |     |
|-------|-------------------------|--------|-----|----------------------------|--------|-----|
|       | Male                    | Female | All | Male                       | Female | All |
| 16-24 | 9                       | 6      | 7   | 33                         | 67     | 100 |
| 25-34 | 15                      | 16     | 15  | 25                         | 75     | 100 |
| 35-44 | 13                      | 23     | 20  | 16                         | 84     | 100 |
| 45-54 | 17                      | 28     | 25  | 17                         | 83     | 100 |
| 55-64 | 21                      | 12     | 14  | 38                         | 62     | 100 |
| 65+   | 26                      | 15     | 18  | 38                         | 63     | 100 |
| All   | 100                     | 100    | 100 | 26                         | 74     | 100 |

Note: Base = 181 due to missing data.

## 3.2 Marital Status and Family

Table 3.2 reveals that the majority of respondents were married (66%). Approximately 20% were single person households, whilst 7% were divorced or separated.

**Table 3.2:** Marital status of respondent, expressed as a percentage.

| Status          | Percent |
|-----------------|---------|
| Single          | 12      |
| Married         | 66      |
| Widowed         | 5       |
| Living together | 6       |
| Divorced        | 3       |
| Separated       | 4       |
| Not answered    | 4       |
|                 | 100     |

**Table 3.3:** Number of people in household, expressed as a percentage.

| Number of<br>People | People | Adults | Children |
|---------------------|--------|--------|----------|
| 0                   | 0      | 0      | 53       |
| 1                   | 12     | 12     | 18       |
| 2                   | 44     | 66     | 24       |
| 3                   | 16     | 12     | 4        |
| 4                   | 19     | 6      | 1        |
| 5                   | 6      | 3      | 0        |
| 6                   | 2      | 1      | 0        |
| 7                   | 1      | 0      | 0        |
|                     | 100    | 100    | 100      |

### 3.3 Qualifications

Half the respondents were educated to O level or GCSE level, with 20% educated to A level standard. However, 24% of respondents appeared not have to any formal qualifications.

**Table 3.5:** Qualifications of respondents expressed as a percentage.

| Qualification                  | Percent |
|--------------------------------|---------|
| O Level or GCSE                | 50%     |
| A Level or Scottish Highers    | 20%     |
| HNC or HND                     | 6%      |
| BSc/BA                         | 12%     |
| Higher Degree (Masters or PhD) | 3%      |
| Other                          | 15%     |
| None of the above              | 24%     |

### 3.4 Region

Table 3.6 shows the percentage of respondents in each of 6 regions. It is clear that the returns were biased towards the South East of England.

**Table 3.6:** Percentage of respondents in each region.

|   | <b>Region</b> | <b>Percent</b> |
|---|---------------|----------------|
| 1 | North West    | 14             |
| 2 | North East    | 16             |
| 3 | West Midlands | 10             |
| 4 | East Midlands | 17             |
| 5 | South West    | 12             |
| 6 | South East    | 31             |

## 4. RESULTS: PURCHASE OF BAKERY PRODUCTS

### 4.1 Frequency of Purchase

Table 4.1 shows the frequency with which respondents consumed different types of bakery products. It was clear that sweet biscuits were the most frequently consumed with 71% of respondents consuming these at least once a fortnight, whilst for savoury biscuits this figure was reduced to 38%. 37% of respondents consumed fresh cakes once a fortnight, whilst 38% consumed pre-packed cakes once a fortnight, but only 11% of respondents consumed frozen cakes this frequently. Pastries were consumed at least once a fortnight by 35% of respondents.

**Table 4.1:** Frequency of consuming different bakery products, expressed as a percentage.

| Frequency             | Sweet Biscuits | Savoury Biscuit | Fresh Cakes | Frozen Cakes | Pre-Packed Cakes | Pastries |
|-----------------------|----------------|-----------------|-------------|--------------|------------------|----------|
| More than once a week | 14             | 3               | 7           | 0            | 5                | 6        |
| Once a week           | 39             | 21              | 20          | 5            | 20               | 17       |
| Once a fortnight      | 18             | 14              | 10          | 6            | 13               | 12       |
| Once a month          | 13             | 23              | 17          | 10           | 10               | 14       |
| Once every 2-3 months | 6              | 11              | 11          | 15           | 10               | 10       |
| Less often            | 5              | 16              | 13          | 22           | 17               | 18       |
| Never                 | 3              | 2               | 10          | 24           | 13               | 9        |
| Missing Data          | 2              | 9               | 12          | 17           | 12               | 15       |
|                       | 100            | 100             | 100         | 100          | 100              | 100      |

### 4.2 Product Format/Packaging

Table 4.2 shows the types of products purchased by respondents in terms of size, format and packaging. The majority of biscuits were bought as standard packets, as opposed to mini/snack packs or family packs. The majority of cakes were purchased as individual cakes or cake bars, followed by large/family size whole cakes, whilst relatively fewer were

purchased as mini/snack packs. Pastries tended to be purchased as individually.

**Table 4.2:** Types of products purchased, expressed as a percentage.

|                                   | <b>Sweet<br/>Biscuits</b> | <b>Savoury<br/>Biscuits</b> | <b>Cakes</b> | <b>Pastries</b> |
|-----------------------------------|---------------------------|-----------------------------|--------------|-----------------|
| Mini-packs / snack packs          | 15                        | 21                          | 16           | n/a             |
| Standard packets                  | 85                        | 72                          | n/a          | n/a             |
| Family selection packs            | 18                        | 15                          | n/a          | n/a             |
| Individual cakes / cake bars      | n/a                       | n/a                         | 63           | n/a             |
| Large / family size cakes (whole) | n/a                       | n/a                         | 41           | n/a             |
| Individual                        | n/a                       | n/a                         | n/a          | 53              |
| Pre-packages                      | n/a                       | n/a                         | n/a          | 38              |
| I do not buy                      | 5                         | 6                           | 13           | 16              |

### 4.3 Reasons for Purchase

Table 4.3 summarises some of the reasons for respondents purchasing bakery products.

Whilst it was clear that biscuits were most commonly purchased as a regular item of shopping, very little else could be drawn from this table, as it was poorly completed by the respondents.

**Table 4.3:** Reasons for purchasing bakery products, where first, second and third choices were allowed. Values are expressed as a percentage of respondents choosing the option.

|                               | Sweet Biscuits |     |     | Savoury Biscuits |     |     | Pastries         |     |     |
|-------------------------------|----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|
|                               | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| As a regular item of shopping | 66             | 4   | 2   | 46               | 4   | 3   | 19               | 4   | 1   |
| As an impulse purchase        | 10             | 10  | 4   | 7                | 7   | 6   | 22               | 9   | 5   |
| For a special occasion        | 4              | 13  | 7   | 13               | 11  | 5   | 6                | 11  | 4   |
| As a planned luxury or treat  | 6              | 6   | 9   | 2                | 3   | 3   | 14               | 5   | 6   |
|                               |                |     |     |                  |     |     |                  |     |     |
|                               | Fresh Cakes    |     |     | Frozen Cakes     |     |     | Pre-Packed Cakes |     |     |
|                               | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| As a regular item of shopping | 15             | 1   | 1   | 7                | 1   | 1   | 34               | 3   | 2   |
| As an impulse purchase        | 26             | 10  | 6   | 13               | 4   | 5   | 17               | 9   | 4   |
| For a special occasion        | 17             | 17  | 4   | 19               | 10  | 3   | 8                | 7   | 5   |
| As a planned luxury or treat  | 16             | 7   | 8   | 11               | 8   | 6   | 16               | 7   | 8   |

#### 4.4 Place of Purchase

Table 4.4 shows where respondents are most likely to purchase bakery products. For all categories, the Supermarket, not surprisingly, was most often used. However, the bakery was commonly used for pastries and fresh cakes.

**Table 4.4:** Locations where bakery products are purchased, where first, second and third choices were allowed. Values are expressed as a percentage of respondents choosing the option.

|                          | Sweet Biscuits |     |     | Savoury Biscuits |     |     | Pastries         |     |     |
|--------------------------|----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|
|                          | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| Supermarket              | 86             | 1   | 0   | 78               | 2   | 0   | 39               | 10  | 2   |
| Convenience / local shop | 2              | 18  | 2   | 2                | 11  | 1   | 4                | 8   | 5   |
| Bakery                   | 2              | 5   | 5   | 1                | 1   | 2   | 21               | 11  | 3   |
| Garage                   | 0              | 1   | 2   | 0                | 2   | 2   | 0                | 0   | 1   |
| Restaurant / Coffee Shop | 0              | 1   | 2   | 0                | 0   | 1   | 2                | 6   | 5   |
|                          |                |     |     |                  |     |     |                  |     |     |
|                          | Fresh Cakes    |     |     | Frozen Cakes     |     |     | Pre-Packed Cakes |     |     |
|                          | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| Supermarket              | 46             | 7   | 3   | 52               | 0   | 2   | 63               | 0   | 1   |
| Convenience / local shop | 4              | 6   | 4   | 0                | 5   | 0   | 1                | 16  | 0   |
| Bakery                   | 24             | 18  | 3   | 1                | 0   | 1   | 0                | 1   | 3   |
| Garage                   | 0              | 0   | 0   | 0                | 0   | 1   | 0                | 1   | 1   |
| Restaurant / Coffee Shop | 3              | 5   | 9   | 0                | 0   | 0   | 0                | 0   | 1   |

## 4.5 Weekly Spend on Bakery Products

Table 4.5 shows the amount respondents were most likely to spend on different bakery products in one week. In all categories between £0.51 and £2.00 was about the norm, though within this for savoury biscuits the spend was slightly less and for cakes and sweet biscuits the spend slightly more.

**Table 4.5:** Amount spent on different bakery products, expressed as a percentage.

|                         | <b>Sweet Biscuits</b> | <b>Savoury Biscuits</b> | <b>Cakes</b> | <b>Pastries</b> |
|-------------------------|-----------------------|-------------------------|--------------|-----------------|
| None                    | 4                     | 6                       | 6            | 9               |
| Under £0.50             | 12                    | 31                      | 10           | 17              |
| Between £0.51 and £1.00 | 34                    | 32                      | 20           | 23              |
| Between £1.51 and £2.00 | 29                    | 15                      | 29           | 18              |
| Between £2.51 and £3.00 | 8                     | 3                       | 13           | 9               |
| Between £3.51 and £4.00 | 2                     | 1                       | 5            | 0               |
| Between £4.51 and £5.00 | 1                     | 0                       | 3            | 1               |
| In excess of £5.00      | 2                     | 0                       | 3            | 2               |
| Missing                 | 6                     | 11                      | 10           | 20              |
|                         | 100                   | 100                     | 100          | 100             |

## 4.6 People Purchased For

Table 4.6 summarises who bakery products were purchased for in the household. This tended to be for self, self and partner or the family. Frozen cakes, however, were also purchased for visitors.

**Table 4.6:** Summary of people for whom products purchased for, expressed as a percentage.

|                           | Sweet Biscuits |     | Savoury Biscuits |     | Fresh Cakes |     | Frozen Cakes |     | Pre-Packed Cakes |     | Pastries |     |
|---------------------------|----------------|-----|------------------|-----|-------------|-----|--------------|-----|------------------|-----|----------|-----|
|                           | 1st            | 2nd | 1st              | 2nd | 1st         | 2nd | 1st          | 2nd | 1st              | 2nd | 1st      | 2nd |
| Self only                 | 15             | 2   | 24               | 1   | 11          | 1   | 4            | 1   | 5                | 3   | 11       | 2   |
| Partner only              | 9              | 2   | 7                | 3   | 5           | 3   | 2            | 1   | 4                | 1   | 3        | 1   |
| Self and Partner          | 24             | 5   | 24               | 1   | 24          | 3   | 9            | 1   | 16               | 1   | 21       | 1   |
| Children                  | 12             | 5   | 3                | 4   | 3           | 4   | 1            | 1   | 8                | 3   | 3        | 3   |
| Whole family              | 24             | 4   | 20               | 3   | 24          | 3   | 20           | 2   | 23               | 2   | 20       | 3   |
| Other adults in the house | 0              | 1   | 2                | 2   | 1           | 2   | 1            | 0   | 1                | 1   | 1        | 1   |
| Visitors                  | 9              | 12  | 3                | 9   | 7           | 9   | 14           | 8   | 8                | 11  | 7        | 7   |

**Table 4.7:** Frequency of personal consumption of different bakery products, expressed as a percentage.

|                       | Sweet Biscuits | Savoury Biscuits | Fresh Cakes | Frozen Cakes | Pre-Packed Cakes | Pastries |
|-----------------------|----------------|------------------|-------------|--------------|------------------|----------|
| Daily                 | 23             | 12               | 3           | 0            | 2                | 2        |
| 4-6 times per week    | 12             | 5                | 2           | 0            | 5                | 2        |
| 2-3 times per week    | 22             | 21               | 11          | 3            | 9                | 6        |
| Once a week           | 15             | 19               | 22          | 8            | 12               | 20       |
| Once a fortnight      | 8              | 9                | 11          | 8            | 12               | 12       |
| Once a month          | 4              | 7                | 13          | 14           | 12               | 14       |
| Once every 2-3 months | 2              | 5                | 10          | 12           | 8                | 6        |
| Less often            | 3              | 8                | 8           | 12           | 10               | 11       |
| Never                 | 5              | 5                | 7           | 23           | 13               | 11       |
| Missing               | 5              | 9                | 13          | 19           | 17               | 16       |
|                       | 100            | 100              | 100         | 100          | 100              | 100      |

## 4.7 Frequency of Consumption

Table 4.7 shows the frequency of personal consumption for different bakery products. It is clear that respondents most frequently consumed sweet biscuits, with 72% consuming them at least once a week, and 23% on a daily basis. Savoury biscuits were eaten at least once a week by 57% of respondents, with 17% eating these at least 4-6 times a week. With respect to cakes, 38% of respondents ate fresh cakes at least once a week, 11% ate frozen cakes this often, and 28% ate pre-packed cakes. Pastries were eaten by 30% of respondents at least once a week.

## 5. RESULTS: PURCHASE BEHAVIOUR

### 5.1 Reasons for Purchase

Sweet biscuits tended to be purchased as a snack product or as an indulgence or treat item, whereas savoury biscuits were either seen as a snack or part of a meal. Pastries and fresh cakes were most frequently purchased as an indulgence or treat, and to a lesser extent as part of a meal.

**Table 5.1:** Reasons for purchasing bakery products, where first, second and third choices were allowed. Values are expressed as a percentage of respondents choosing the option.

|                         | Sweet Biscuits |     |     | Savoury Biscuits |     |     | Pastries         |     |     |
|-------------------------|----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|
|                         | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| For indulgence or treat | 23             | 7   | 6   | 6                | 2   | 3   | 35               | 2   | 1   |
| As part of a lunch box  | 10             | 9   | 3   | 11               | 5   | 3   | 5                | 3   | 4   |
| As a standby item       | 15             | 11  | 5   | 11               | 10  | 4   | 3                | 5   | 3   |
| As a snack product      | 36             | 14  | 3   | 29               | 11  | 5   | 7                | 7   | 2   |
| As part of a meal       | 6              | 1   | 1   | 19               | 7   | 3   | 15               | 5   | 3   |
| As a special occasion   | 3              | 2   | 6   | 8                | 4   | 2   | 7                | 7   | 3   |
|                         |                |     |     |                  |     |     |                  |     |     |
|                         | Fresh Cakes    |     |     | Frozen Cakes     |     |     | Pre-Packed Cakes |     |     |
|                         | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| For indulgence or treat | 44             | 6   | 2   | 14               | 3   | 4   | 19               | 5   | 2   |
| As part of a lunch box  | 1              | 2   | 0   | 0                | 0   | 0   | 14               | 3   | 1   |
| As a standby item       | 0              | 3   | 1   | 11               | 4   | 2   | 13               | 4   | 4   |
| As a snack product      | 3              | 4   | 3   | 1                | 1   | 2   | 4                | 7   | 3   |
| As part of a meal       | 10             | 7   | 7   | 10               | 8   | 3   | 11               | 5   | 2   |
| As a special occasion   | 20             | 12  | 6   | 20               | 7   | 8   | 9                | 5   | 4   |

## 5.2 Factors Influencing Choice of Purchase

‘Price’, ‘quality’ and ‘family favourites’ were the most quoted reasons influencing choice of purchase for sweet and savoury biscuits, as shown in Table 5.2.

**Table 5.2:** Factors influencing choice of bakery products, expressed as a percentage.

|                    | Sweet Biscuits |     |     | Savoury Biscuits |     |     | Pastries         |     |     |
|--------------------|----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|
|                    | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| Price              | 30             | 8   | 7   | 18               | 7   | 5   | 12               | 6   | 3   |
| Quality            | 26             | 14  | 4   | 24               | 7   | 3   | 21               | 7   | 2   |
| Habit              | 6              | 7   | 3   | 5                | 5   | 1   | 5                | 6   | 3   |
| Special offers     | 8              | 14  | 11  | 5                | 13  | 5   | 8                | 6   | 5   |
| Family favourites  | 30             | 9   | 5   | 22               | 7   | 5   | 22               | 4   | 2   |
| Availability       | 1              | 2   | 4   | 1                | 2   | 1   | 2                | 3   | 4   |
| Nutrition / health | 6              | 4   | 5   | 9                | 3   | 4   | 2                | 1   | 1   |
| Brand              | 4              | 4   | 5   | 7                | 2   | 4   | 1                | 2   | 1   |
|                    |                |     |     |                  |     |     |                  |     |     |
|                    | Fresh Cakes    |     |     | Frozen Cakes     |     |     | Pre-Packed Cakes |     |     |
|                    | 1st            | 2nd | 3rd | 1st              | 2nd | 3rd | 1st              | 2nd | 3rd |
| Price              | 13             | 3   | 5   | 16               | 3   | 3   | 19               | 5   | 5   |
| Quality            | 23             | 9   | 4   | 12               | 3   | 2   | 10               | 7   | 3   |
| Habit              | 3              | 6   | 2   | 1                | 4   | 2   | 3                | 6   | 2   |
| Special offers     | 9              | 10  | 5   | 17               | 7   | 5   | 17               | 9   | 5   |
| Family favorites   | 23             | 7   | 4   | 14               | 6   | 3   | 17               | 8   | 5   |
| Availability       | 2              | 3   | 3   | 2                | 1   | 1   | 2                | 2   | 2   |
| Nutrition / health | 1              | 2   | 1   | 0                | 2   | 1   | 1                | 3   | 1   |
| Brand              | 1              | 1   | 1   | 2                | 1   | 3   | 3                | 2   | 2   |

Whilst not the most important factor, it is interesting to note that special offers attract purchase in most areas, particularly for frozen cakes and pre-packed cakes, and therefore could be used as an incentive to purchase in the first instance.

### 5.3 Brand, Own Label or Fresh

Branded varieties of sweet and savoury biscuits tended to be purchased most often by respondents, whether as part of the regular shop or as a luxury item. Fresh cakes were of course purchased fresh both as part of the regular or luxury shop, whilst frozen and pre-packed cakes tended to be branded.

**Table 5.3:** Percentage of respondents purchasing branded or own label products during a regular or luxury shop, by product category.

|                  | Regular Shopping |           |       |           | Luxury Shopping |           |       |           |
|------------------|------------------|-----------|-------|-----------|-----------------|-----------|-------|-----------|
|                  | Branded          | Own Label | Fresh | Don't buy | Branded         | Own Label | Fresh | Don't buy |
| Sweet biscuits   | 57               | 33        | 1     | 4         | 68              | 16        | 2     | 8         |
| Savoury biscuits | 60               | 24        | 1     | 3         | 64              | 15        | 1     | 7         |
| Fresh cakes      | 9                | 17        | 48    | 11        | 13              | 11        | 51    | 11        |
| Frozen cakes     | 37               | 17        | 2     | 25        | 38              | 13        | 5     | 25        |
| Pre-packed cakes | 42               | 24        | 4     | 14        | 42              | 17        | 7     | 17        |
| Pastries         | 15               | 19        | 36    | 12        | 17              | 12        | 39    | 14        |

Note: Numbers add up to 100 of 206 respondents by row for both regular and luxury shopping – missing data accounts for the short-fall.

## 6. RESULTS: ATTITUDES AND LIFESTYLE

### 6.1 Attitudes Towards Biscuits

Consumers were asked to say how much they agreed or disagreed with a number of statements with respect to biscuit products. The response distribution for each statement is shown in Table 6.1. Where consumers recorded 'no opinion', this was coded to 'neither agree nor disagree', which effectively expresses lack of opinion. Many consumers used this category, and for this reason the mean response was also calculated omitting these responses (adjusted mean score).

**Table 6.1:** Number of respondents agreeing with a list of statements with respect to biscuit products. The adjusted mean is based on the calculation omitting the 'neither agree nor disagree' category.

|  | 1        | 2        | 3       | 4        | 5        |      |      |
|--|----------|----------|---------|----------|----------|------|------|
|  | Agree    | Agree    |         | Disagree | Disagree |      | Adj  |
| Statements   | Strongly | Slightly | Neither | Slightly | Strongly | Mean | Mean |
| Crackers are more of a savoury snack.                  | 96       | 64       | 35      | 10       | 1        | 1.8  | 1.6  |
| Biscuits are very fattening.                           | 70       | 59       | 48      | 22       | 7        | 2.2  | 2.0  |
| Biscuits are ideal when you're feeling a bit peckish.  | 58       | 77       | 45      | 14       | 12       | 2.2  | 2.0  |
| I worry about the fat in biscuits.                     | 58       | 42       | 76      | 15       | 15       | 2.5  | 2.1  |
| Biscuits can ruin your appetite for meals.             | 49       | 74       | 41      | 35       | 7        | 2.4  | 2.3  |
| Biscuits are a must with a cup of tea or coffee.       | 45       | 62       | 51      | 16       | 32       | 2.7  | 2.5  |
| Biscuits are good for eating on the go.                | 21       | 63       | 69      | 30       | 23       | 2.9  | 2.8  |
| I associate savoury biscuits/crackers with meal times. | 37       | 40       | 63      | 34       | 32       | 2.9  | 2.9  |
| Biscuits contain lots of goodness.                     | 14       | 28       | 74      | 45       | 45       | 3.4  | 3.6  |
| Biscuits are good for the children after school.       | 10       | 27       | 56      | 60       | 53       | 3.6  | 3.8  |

A low mean or adjusted mean value ( $< 2$ ) implies agreement with a statement, whilst a high value ( $> 4$ ) implies disagreement.

Consumers agreed with the statements that 'biscuits are very fattening' and 'I worry about the fat in biscuits'. This suggests that respondents were aware that biscuits contained some amount of fat. However, the fact that respondents agreed slightly with 'biscuits are ideal when you're feeling a bit peckish' suggests that they eat them anyway, as they have a specific and important role in the diet.

### ***Factor Analysis***

Factor analysis is a multivariate analysis tool that allows variables (attitude statements) to be grouped if they have a similar response pattern. This allows different attitude groups to be identified and, if required, the consumers most likely to fall into each group.

For these data, principal component factor analysis with varimax rotation was used, and the appropriate number of factors selected according to logical groupings and information explained.

Table 6.2 shows the factor loading for the 3 groups selected. The loadings appearing in bold italics indicate which statements fall into the factor grouping.

In Factor 1, statements relating to positive aspects of biscuits are highlighted, whereas Factor 2 refers to the fat in biscuits and the negative aspects. Factor 3 reflects a group of consumers who do not associate biscuits and crackers with meal times.

**Table 6.2:** Results from factor analysis on the biscuit product attitude statements.

| <b>Statements</b>                                      | <b>Factor 1<br/>22.3%</b> | <b>Factor 2<br/>16.9%</b> | <b>Factor 3<br/>11.0%</b> |
|--|---------------------------|---------------------------|---------------------------|
| Biscuits are ideal when you're feeling a bit peckish.  | <b>0.746</b>              | 0.06                      | -0.035                    |
| Biscuits are a must with a cup of tea or coffee.       | <b>0.661</b>              | -0.032                    | -0.005                    |
| Biscuits are good for eating on the go.                | <b>0.618</b>              | -0.055                    | -0.156                    |
| Biscuits are good for the children after school.       | <b>0.556</b>              | -0.258                    | -0.027                    |
| Biscuits contain lots of goodness.                     | <b>0.510</b>              | -0.233                    | -0.271                    |
| Biscuits are very fattening.                           | -0.098                    | <b>0.719</b>              | -0.125                    |
| I worry about the fat in biscuits.                     | -0.15                     | <b>0.636</b>              | -0.249                    |
| Biscuits can ruin your appetite for meals.             | -0.211                    | <b>0.559</b>              | 0.322                     |
| Crackers are more of a savoury snack.                  | 0.434                     | <b>0.553</b>              | 0.189                     |
| I associate savoury biscuits/crackers with meal times. | 0.161                     | 0.136                     | <b>-0.886</b>             |

## 6.2 Attitudes Towards Cakes and Pastries

Consumers were asked to say how much they agreed or disagreed with a number of statements with respect to cakes and pastries. The response distribution for each statement is shown in Table 6.3. As before, with a mean value of  $\leq 2$ , the consumers generally agreed with the statement, and if the value was  $\geq 4$  they disagreed.

**Table 6.3:** Number of respondents agreeing with a list of statements with respect to cakes and pastries. The adjusted mean is based on the calculation omitting the 'neither agree nor disagree' category.

|   | 1                         | 2                         | 3              | 4                            | 5                            |             |                     |
|---|---------------------------|---------------------------|----------------|------------------------------|------------------------------|-------------|---------------------|
| <b>Statements</b>                                     | <b>Agree<br/>Strongly</b> | <b>Agree<br/>Slightly</b> | <b>Neither</b> | <b>Disagree<br/>Slightly</b> | <b>Disagree<br/>Strongly</b> | <b>Mean</b> | <b>Adj<br/>Mean</b> |
| Cakes are very fattening.                             | 82                        | 60                        | 48             | 10                           | 6                            | 2.0         | 1.7                 |
| Pastries and cakes are equally bad for you.           | 60                        | 50                        | 79             | 10                           | 7                            | 2.3         | 1.9                 |
| I worry about the fat in cakes.                       | 63                        | 44                        | 72             | 13                           | 14                           | 2.4         | 2.0                 |
| Cakes are a well deserved treat.                      | 45                        | 70                        | 64             | 15                           | 12                           | 2.4         | 2.1                 |
| Pastries make a nice change from cakes.               | 32                        | 69                        | 91             | 4                            | 10                           | 2.5         | 2.1                 |
| Cakes stop you from eating proper meals.              | 41                        | 65                        | 64             | 26                           | 10                           | 2.5         | 2.3                 |
| It's the filling/topping in cakes that I worry about. | 24                        | 43                        | 105            | 18                           | 16                           | 2.8         | 2.6                 |
| Cakes fill a gap when I'm hungry.                     | 29                        | 71                        | 51             | 21                           | 34                           | 2.8         | 2.7                 |
| Pastries are more versatile than cakes.               | 19                        | 34                        | 111            | 32                           | 10                           | 2.9         | 2.8                 |
| Pastries are more luxurious than cakes.               | 22                        | 23                        | 108            | 37                           | 16                           | 3.0         | 3.0                 |
| Cakes relieve me when I'm stressed.                   | 24                        | 36                        | 83             | 23                           | 40                           | 3.1         | 3.2                 |
| Cakes are better than a pudding.                      | 8                         | 27                        | 93             | 41                           | 37                           | 3.3         | 3.6                 |

Consumers agreed slightly with the statements that 'cakes are very fattening', 'I worry about the fat in cakes' and 'pastries and cakes are equally bad for you'. This suggests that respondents were aware that cakes and pastries contain some amount of fat. However, the

fact that respondents agreed slightly with ‘cakes are a well deserved treat’ and ‘pastries make a nice change from cakes’ suggested that they eat them anyway, as they have a specific and important role in the diet.

### ***Factor Analysis***

Table 6.4 shows the factor loading for the 3 groups selected. The loadings in bold italics indicate which statements fall into the factor grouping. In Factor 1, statements relating to the fat in cakes and pastries and other negative aspects are highlighted, whereas Factor 2 reflects the positive aspects. Factor 3 reflects the positive role of cakes and pastries in a comparative sense.

**Table 6.4:** Results from factor analysis on the cakes and pastries product attitude statements.

| <b>Statements</b>                                     | <b>Factor 1<br/>23.0%</b> | <b>Factor 2<br/>15.9%</b> | <b>Factor 3<br/>13.4%</b> |
|---|---------------------------|---------------------------|---------------------------|
| I worry about the fat in cakes.                       | <b><i>0.801</i></b>       | 0.002                     | -0.028                    |
| Cakes are very fattening.                             | <b><i>0.703</i></b>       | -0.028                    | 0.007                     |
| Cakes stop you from eating proper meals.              | <b><i>0.692</i></b>       | -0.088                    | 0.088                     |
| Pastries and cakes are equally bad for you.           | <b><i>0.691</i></b>       | -0.315                    | 0.006                     |
| It's the filling/topping in cakes that I worry about. | <b><i>0.594</i></b>       | 0.135                     | 0.079                     |
| Cakes are a well deserved treat.                      | 0.116                     | <b><i>0.682</i></b>       | 0.257                     |
| Cakes are better than a pudding.                      | -0.208                    | <b><i>0.653</i></b>       | 0.14                      |
| Cakes relieve me when I'm stressed.                   | 0.388                     | <b><i>0.612</i></b>       | -0.126                    |
| Cakes fill a gap when I'm hungry.                     | -0.217                    | <b><i>0.606</i></b>       | 0.045                     |
| Pastries make a nice change from cakes.               | 0.036                     | 0.258                     | <b><i>0.748</i></b>       |
| Pastries are more versatile than cakes.               | -0.119                    | 0.219                     | <b><i>0.691</i></b>       |
| Pastries are more luxurious than cakes.               | 0.224                     | -0.173                    | <b><i>0.669</i></b>       |

### 6.3 Healthy Lifestyle and Diet

Table 6.5 reflects the fact that most people ‘try to live a fairly healthy lifestyle generally’, and that very few people would admit to living an unhealthy lifestyle. However, due to the nature of the questionnaire, the emphasis is on the diet aspect of health lifestyle.

**Table 6.5:** Attitudes to living a healthy lifestyle, expressed as a percentage of respondents indicating which statement most accurately reflected their behaviour.

| Statements   | Percent |
|--|---------|
| I don't live a healthy lifestyle and don't care.                               | 0.5     |
| I don't really worry about how healthy my lifestyle is.                        | 0.5     |
| I'm not that bothered about living a very healthy lifestyle, but do try a bit. | 10      |
| Parts of my lifestyle are quite healthy.                                       | 13      |
| I try to live a fairly healthy lifestyle generally.                            | 55      |
| I do live a very healthy lifestyle on the whole.                               | 13      |
| I have an extremely healthy lifestyle.   | 2       |
| None of the above.   | 1       |
| Missing data.  | 5       |

Respondents were then asked to say what factors, with respect to them, contributed to living a healthy lifestyle (Table 6.6). Reducing sugar in the diet was mentioned by 65% of respondents, followed by eating less red meat (46%) and controlling/reducing alcohol consumption (44%). For the measures of reducing fat intake and reducing cholesterol, 38% of respondents highlighted these. Controlling calorie intake and reducing caffeine were mentioned by 34% and 30% of respondents, respectively.

**Table 6.6:** Measures considered as contributing to living a healthy lifestyle.

| Statements                         | Percentage |
|------------------------------------|------------|
| Reduce sugar in diet               | 65         |
| Eat less red meat                  | 46         |
| Control/reduce alcohol consumption | 44         |
| Reduce fat intake                  | 38         |
| Reduce cholesterol in diet         | 38         |
| Control calorie intake             | 34         |
| Reduce caffeine intake             | 30         |
| None of these                      | 9          |
| Not eat meat                       | 8          |
| Other                              | 3          |

**Table 6.7:** Attitudes to dieting or weight watching, expressed as a percentage of respondents indicating which statement most accurately reflected their behaviour.

| Statements   | Percent |
|--|---------|
| I diet / watch my weight as I go and when I need to.                           | 31      |
| I am always watching my weight.  | 23      |
| I don't go on diets.   | 13      |
| I never need to watch my weight.   | 7       |
| I diet / watch my weight at certain times of the year or on certain occasions. | 5       |
| I don't bother to watch my weight.   | 4       |
| I try to put on weight.  | 4       |
| I am always on a diet.   | 4       |
| None of the above.   | 2       |
| Missing data.  | 7       |

Table 6.7 demonstrates different attitudes to dieting or weight watching. 31% of respondents considered that they dieted or watched their weight as and when necessary, whilst 23% said they were always watching their weight.

Table 6.8 reports on the measures respondents took to aid dieting or weight watching. Reducing fat in the diet was mentioned by 66% of respondents, whilst 57% mentioned reducing sugar in the diet. Reducing alcohol consumption was mentioned by 35% of respondents and 34% mentioned eating less or no red meat.

**Table 6.8:** Measures contributing to watching diet and weight, expressed as a percentage.

| Statements                  | Percentage |
|-----------------------------|------------|
| Reduce fat in the diet      | 66         |
| Reduce sugar in the diet    | 57         |
| Reduce alcohol consumption  | 35         |
| Eat less or no red meat     | 34         |
| Count calories              | 21         |
| Follow a specific diet plan | 15         |
| Go to a slimming club       | 11         |
| None of these               | 12         |
| Other                       | 4          |

## 6.4 Attitudes Towards Health

Consumers were provided with a list of statements reflecting different attitudes to health, either with respect to themselves or their families. The response distributions for each statement are provided in Table 6.9.

**Table 6.9:** Number of respondents agreeing with a list of statements with respect to themselves and their family's health. The adjusted mean is based on the calculation omitting the 'neither agree nor disagree' category

|   | 1                         | 2                         | 3              | 4                            | 5                            |             |                     |
|---|---------------------------|---------------------------|----------------|------------------------------|------------------------------|-------------|---------------------|
| <b>Statements</b>   | <b>Agree<br/>Strongly</b> | <b>Agree<br/>Slightly</b> | <b>Neither</b> | <b>Disagree<br/>Slightly</b> | <b>Disagree<br/>Strongly</b> | <b>Mean</b> | <b>Adj<br/>Mean</b> |
| I try to feed my family a balanced diet.                                      | 131                       | 38                        | 33             | 1                            | 3                            | 1.6         | 1.3                 |
| Treats for the family need not be healthy.                                    | 32                        | 62                        | 82             | 15                           | 15                           | 2.6         | 2.3                 |
| As long as the diet is balanced, I don't worry about buying healthy products. | 35                        | 61                        | 75             | 23                           | 12                           | 2.6         | 2.4                 |
| The family eat what they are given.   | 42                        | 47                        | 80             | 24                           | 13                           | 2.6         | 2.4                 |
| My partner is concerned about eating a healthy diet.                          | 37                        | 42                        | 88             | 24                           | 15                           | 2.7         | 2.5                 |
| Some of my family ask for healthy foods.                                      | 31                        | 47                        | 94             | 20                           | 14                           | 2.7         | 2.5                 |
| My partner is concerned about their weight.                                   | 38                        | 41                        | 85             | 19                           | 23                           | 2.7         | 2.6                 |
| I buy health products for the family, but don't tell them.                    | 19                        | 33                        | 109            | 20                           | 25                           | 3.0         | 3.0                 |
| We eat what we like whether its good or bad.                                  | 19                        | 32                        | 76             | 33                           | 46                           | 3.3         | 3.4                 |
| My family don't like health products.   | 9                         | 16                        | 113            | 37                           | 31                           | 3.3         | 3.7                 |

Most people considered that they try to feed their families a balanced diet, and disagreed slightly with the statement 'my family don't like health products'. Consumers also agreed that 'treats for the family need not be healthy'.

## Factor Analysis

Table 6.10 shows the factor loading for the 4 groups selected. The loadings appearing in bold italics indicate which statements fall into the factor grouping.

In Factor 1, statements relating to the family receiving a balanced diet and healthy foods are reflected, as well as the negative towards 'my family don't like health products'. Factor 2 refers to the respondents' partner, and reflects the view that partners concerned about eating a healthy diet are also watching their weight.

**Table 6.10:** Results from factor analysis on the health related statements.

| Statements  | Factor 1<br>17.5%    | Factor 2<br>16.9%    | Factor 3<br>14.9%    | Factor 4<br>13.4%    |
|---|----------------------|----------------------|----------------------|----------------------|
| I try to feed my family a balanced diet.                                      | <b><i>0.705</i></b>  | -0.054               | 0.082                | -0.190               |
| Some of my family ask for healthy foods.                                      | <b><i>0.502</i></b>  | -0.45                | 0.144                | -0.071               |
| My family don't like health products.   | <b><i>-0.789</i></b> | 0.001                | -0.051               | -0.130               |
| My partner is concerned about their weight.                                   | -0.086               | <b><i>-0.865</i></b> | -0.139               | 0.063                |
| My partner is concerned about eating a healthy diet.                          | 0.208                | <b><i>-0.800</i></b> | 0.232                | -0.085               |
| Treats for the family need not be healthy.                                    | 0.035                | -0.086               | <b><i>-0.836</i></b> | -0.086               |
| We eat what we like whether its good or bad.                                  | -0.429               | 0.204                | <b><i>-0.649</i></b> | -0.149               |
| The family eat what they are given.   | -0.240               | -0.107               | -0.135               | <b><i>-0.757</i></b> |
| I buy health products for the family, but don't tell them.                    | 0.269                | 0.119                | 0.016                | <b><i>-0.701</i></b> |
| As long as the diet is balanced, I don't worry about buying healthy products. | -0.111               | 0.163                | -0.5                 | 0.422                |

Factor 3 groups 'treats for the family need not be healthy' and that 'we eat what we like whether its good or bad', suggesting a group of respondents who are not overly concerned about eating 'healthy' foods. Factor 4 groups the statements 'the family eat what they are given' and 'I buy health products for the family, but don't tell them', suggesting an attitude of eating what's put in front of you as its good for you.

## 7. RESULTS: REDUCED FAT PRODUCTS

### 7.1 Purchase of Reduced Fat Products

Table 7.1 looks at the purchase of reduced fat. Reduced fat dairy products, particularly milk, were bought regularly.

Sweet biscuits were purchased regularly by 41% of respondents, with 70% purchasing at least occasionally, whilst the figures for savoury biscuits were 31% and 66%, respectively. Cakes were bought at least occasionally by 56% of respondents, whilst pastries were purchased at least occasionally by 49% of respondents. However, 30% and 24% had never bought reduced fat pastries or cakes, respectively, compared with 2-11% for reduced fat dairy products.

**Table 7.1:** Purchase frequency of different reduced fat products, expressed as a percentage of the total number of respondents.

|                  | Buy<br>Regularly | Buy<br>Occasionally | Tried, but<br>Don't Buy | Never<br>Buy | Missing<br>Data |
|------------------|------------------|---------------------|-------------------------|--------------|-----------------|
| Milk             | 86               | 2                   | 2                       | 2            | 7               |
| Spread           | 66               | 10                  | 5                       | 10           | 9               |
| Yoghurt          | 56               | 19                  | 2                       | 11           | 11              |
| Cheese           | 48               | 21                  | 11                      | 11           | 10              |
| Sweet Biscuits   | 41               | 29                  | 6                       | 16           | 8               |
| Salad Dressing   | 32               | 36                  | 7                       | 13           | 12              |
| Savoury Biscuits | 31               | 35                  | 6                       | 19           | 9               |
| Crisps           | 22               | 24                  | 3                       | 14           | 37              |
| Cakes            | 21               | 35                  | 6                       | 24           | 13              |
| Soups            | 20               | 37                  | 8                       | 19           | 16              |
| Pastries         | 14               | 35                  | 6                       | 30           | 15              |
| Other            | 2                | 0                   | 0                       | 2            | 95              |

## 7.2 Factors Deterring Purchase of Reduced Fat Products

Respondents were asked about what factors deterred purchase of reduced fat bakery products, and Table 7.2 reveals that many considered that they were too expensive and tasted worse than 'normal fat' products. Other reasons were that the fat reduction was considered to be small. The respondent did not consider there to be a need for reduced fat products and there was perceived to be a poor range available.

**Table 7.2:** Factors deterring purchase of reduced fat bakery products: an overview across biscuits, cakes and pastries – figures expressed as percentages.

|                                 | Sweet<br>Biscuits | Savoury<br>Biscuits | Cakes | Pastries |
|---------------------------------|-------------------|---------------------|-------|----------|
| Too expensive                   | 25                | 17                  | 19    | 18       |
| Taste worse                     | 17                | 15                  | 15    | 14       |
| Poor quality                    | 8                 | 8                   | 9     | 8        |
| Poor appearance of product      | 1                 | 2                   | 3     | 3        |
| Poor appearance of packaging    | 1                 | 3                   | 2     | 2        |
| Small fat reduction             | 17                | 13                  | 13    | 9        |
| Rarely available                | 7                 | 9                   | 9     | 10       |
| Poor range                      | 11                | 8                   | 8     | 10       |
| No need to eat low fat products | 14                | 12                  | 9     | 9        |
| Unsure of other ingredients     | 6                 | 4                   | 3     | 3        |
| Other                           | 1                 | 1                   | 1     | 1        |

## 7.3 Reasons for Trying Reduced Fat Bakery Products

Table 7.3 illustrates that most respondents who purchased reduced fat bakery products were trying to reduce fat in the diet or as an action towards general health for all the family.

**Table 7.3:** Reasons for trying reduced fat bakery products, where figures are expressed as a percentage of respondents indicating a reason in 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> position.

|   | Sweet Biscuits | Savoury Biscuits | Cakes | Pastries |
|---|----------------|------------------|-------|----------|
| Trying to reduce fat in the diet                            | 35             | 26               | 27    | 21       |
| A member of the family was on a diet                        | 15             | 12               | 10    | 9        |
| They were recommended by friends                            | 14             | 7                | 6     | 2        |
| Due to specific health concerns                             | 8              | 8                | 8     | 5        |
| General health for all the family                           | 18             | 15               | 12    | 8        |
| I was on a diet   | 10             | 9                | 8     | 7        |
| There were no others available                              | 3              | 3                | 2     | 3        |
| I bought them by mistake                                    | 3              | 2                | 3     | 2        |
| They were on special offer                                  | 11             | 9                | 10    | 7        |
| I saw the product advertised on the TV and/or read about it | 10             | 6                | 7     | 5        |
| Other   | 2              | 1                | 2     | 1        |

## 7.4 Types of Reduced Fat Bakery Products Tried

Table 7.4 shows that for sweet biscuits, many respondents had tried McVities Go Ahead, followed by supermarket own label products. In fact, McVities Go Ahead range was the most cited for sweet biscuits and cakes.

**Table 7.4:** Reduced fat bakery products tried by respondents, expressed as a percentage.

|                       | <b>Sweet<br/>Biscuits</b> | <b>Savoury<br/>Biscuits</b> | <b>Cake</b> | <b>Pastries</b> |
|-----------------------|---------------------------|-----------------------------|-------------|-----------------|
| McVities Go Ahead     | 44                        | 12                          | 23          | 4               |
| Jacob Vitalinea       | 8                         | 7                           | 0           | 0               |
| Trimlyne              | 2                         | 1                           | 1           | 0               |
| Entenmann's           | 1                         | 1                           | 12          | 1               |
| Supermarket Own Label | 20                        | 17                          | 11          | 9               |
| Other                 | 1                         | 0                           | 1           | 0               |

## 7.5 Reasons for Buying Reduced Fat Bakery Products

Respondents who bought reduced fat bakery products were asked about their current usage behaviour, and the results are summarised in Table 7.5. As many consumers did not currently purchase reduced fat bakery products, the adjusted column is most useful. It was clear that most purchased these products to reduce fat in the diet, followed by as part of a healthy diet for the family, and then for weight watching.

**Table 7.5:** Reasons for purchasing reduced fat bakery products, expressed as a percentage of the number of respondents selecting the reason which best describes their behaviour.

|  | <b>Percent</b> | <b>Adj Percent</b> |
|--|----------------|--------------------|
| I only buy them when I am on a diet or watching my weight. | 4              | 10                 |
| I buy them to watch my weight.                             | 7              | 18                 |
| I buy them to reduce my fat intake.                        | 17             | 42                 |
| I buy them for the family as part of a healthy diet.       | 11             | 28                 |
| Other  | 1              | 2                  |
| Don't buy (or missing data)                                | 60             | n/a                |
|  | 100%           |                    |

## 8. RESULTS: ATTITUDES TOWARDS REDUCED FAT PRODUCTS

### 8.1 Behaviour if on a Diet

Respondents were asked how they would approach a diet with respect to bakery products, choosing from a list of 4 statements. For sweet biscuits (Table 8.1) the most common reason was to cut down on the amount eaten, followed by cutting them out completely, whereas for savoury biscuits the use of a reduced fat alternative was the reason most cited followed by cutting down on the amount eaten. For cakes and pastries these would be cut out completely, followed by cutting down on the amount eaten.

**Table 8.1:** Consumers approach to dieting with respect to bakery products, expressed as a percentage of the total number of respondents.

| Statement                            | Sweet Biscuits | Savoury Biscuits | Cakes | Pastries |
|--------------------------------------|----------------|------------------|-------|----------|
| I would cut down on the amount I eat | 38             | 25               | 29    | 20       |
| I would cut out completely           | 28             | 16               | 38    | 38       |
| I would use a low fat alternative    | 18             | 29               | 12    | 10       |
| I would not change my eating habits  | 5              | 12               | 5     | 5        |
| Missing data                         | 11             | 18               | 17    | 26       |
| Grand Total                          | 100            | 100              | 100   | 100      |

## 8.2 Attitudes Towards Reduced Fat Bakery Products

All respondents were asked to say how much they agreed or disagreed with a list of statements reflecting attitudes expressed by other people.

**Table 8.2:** Number of respondents agreeing with a list of statements with respect to reduced fat bakery products. The adjusted mean is based on the calculation omitting the 'neither agree nor disagree' category

|  | 1                         | 2                         | 3              | 4                            | 5                            |             |                     |
|--|---------------------------|---------------------------|----------------|------------------------------|------------------------------|-------------|---------------------|
| <b>Statement</b>   | <b>Agree<br/>Strongly</b> | <b>Agree<br/>Slightly</b> | <b>Neither</b> | <b>Disagree<br/>Slightly</b> | <b>Disagree<br/>Strongly</b> | <b>Mean</b> | <b>Adj<br/>Mean</b> |
| I'd prefer to cut cakes out completely if I'm on a diet.                         | 74                        | 37                        | 62             | 24                           | 9                            | 2.3         | 2.0                 |
| They are a good way to have a treat when on a diet.                              | 42                        | 72                        | 68             | 9                            | 15                           | 2.4         | 2.2                 |
| They are more important if you have special dietary needs.                       | 46                        | 52                        | 79             | 13                           | 16                           | 2.5         | 2.2                 |
| If they were more available, I'd be more likely to try them.                     | 28                        | 45                        | 98             | 19                           | 16                           | 2.8         | 2.5                 |
| I don't really think of the ingredients, they're a treat.                        | 25                        | 45                        | 85             | 27                           | 24                           | 2.9         | 2.8                 |
| It's more important for the children to have low fat products.                   | 28                        | 38                        | 85             | 35                           | 20                           | 2.9         | 2.8                 |
| If you buy low fat bakery products you just eat more.                            | 14                        | 38                        | 76             | 32                           | 46                           | 3.3         | 3.4                 |
| I'd only really buy them for myself on a diet.                                   | 8                         | 12                        | 156            | 13                           | 17                           | 3.1         | 3.4                 |
| I don't understand the claims made on low fat products.                          | 12                        | 20                        | 103            | 35                           | 36                           | 3.3         | 3.6                 |
| They look so boring I can't be bothered.   | 11                        | 23                        | 103            | 36                           | 33                           | 3.3         | 3.6                 |
| I save up calories for a cake and cut back on other things.                      | 13                        | 19                        | 95             | 26                           | 53                           | 3.4         | 3.8                 |
| You don't need to worry about a few biscuits, they're quite good for you really. | 14                        | 21                        | 66             | 51                           | 54                           | 3.5         | 3.8                 |

In general, respondents agreed slightly with the statements 'I'd prefer to cut cakes out completely if I'm on a diet', 'they are a good way to have a treat when on a diet' and 'they are important if you have special dietary needs'. This associates reduced fat bakery

products with dieting, rather than reducing fat in the diet as such.

### ***Factor Analysis***

Three factors were derived from the factor analysis on the statements (Table 8.2). The first factor seems to reflect a lack of need for reduced fat bakery products, whilst Factor 2 groups statements which reflect a potential positive need for such products. The third factor reflects the attitude that they are only really for people with special dietary needs or when on a diet.

**Table 8.3:** Results from factor analysis on attitudes towards reduced fat bakery products.

| <b>Statement</b>   | <b>Factor 1<br/>18.5%</b> | <b>Factor 2<br/>14.1%</b> | <b>Factor 3<br/>12.8%</b> |
|--|---------------------------|---------------------------|---------------------------|
| You don't need to worry about a few biscuits, they're quite good for you really. | <b>0.704</b>              | -0.241                    | -0.059                    |
| I don't really think of the ingredients, they're a treat.                        | <b>0.650</b>              | -0.061                    | -0.05                     |
| If you buy low fat bakery products you just eat more.                            | <b>0.578</b>              | 0.093                     | 0.342                     |
| I save up calories for a cake and cut back on other things.                      | <b>0.544</b>              | -0.104                    | -0.009                    |
| They look so boring I can't be bothered.   | 0.536                     | 0.32                      | 0.306                     |
| I don't understand the claims made on low fat products.                          | 0.515                     | 0.246                     | 0.384                     |
| They are a good way to have a treat when on a diet.                              | -0.067                    | <b>-0.837</b>             | 0.082                     |
| If they were more available, I'd be more likely to try them.                     | 0.132                     | <b>-0.758</b>             | 0.146                     |
| It's more important for the children to have low fat products.                   | 0.301                     | -0.333                    | -0.244                    |
| They are more important if you have special dietary needs.                       | 0.032                     | 0.083                     | <b>0.696</b>              |
| I'd only really buy them for myself on a diet.                                   | 0.072                     | -0.234                    | <b>0.651</b>              |
| I'd prefer to cut cakes out completely if I'm on a diet.                         | 0.014                     | -0.043                    | 0.426                     |

### 8.3 Attitudes to Sensory Attributes

Respondents were asked to agree or disagree with a list of statements reflecting aspects of the sensory quality of reduced fat bakery products. Overall, consumers agreed slightly that reduced fat bakery products are nice and light, but for the other statements there was no clear consensus of agreement or disagreement.

**Table 8.4:** Number of respondents agreeing with a list of statements with respect to the appearance and taste of reduced fat bakery products. The adjusted mean is based on the calculation omitting the 'neither agree nor disagree' category

|  | 1<br>Agree<br>Strongly | 2<br>Agree<br>Slightly | 3<br>Neither | 4<br>Disagree<br>Slightly | 5<br>Disagree<br>Strongly | Mean | Adj<br>Mean |
|--|------------------------|------------------------|--------------|---------------------------|---------------------------|------|-------------|
| Low fat bakery products are nice and light.      | 20                     | 69                     | 98           | 16                        | 3                         | 2.6  | 2.2         |
| Low fat bakery products have a good taste.       | 17                     | 40                     | 105          | 36                        | 8                         | 2.9  | 2.8         |
| Low fat bakery products are moist.               | 7                      | 28                     | 130          | 31                        | 10                        | 3.0  | 3.1         |
| Low fat bakery products have a poor after taste. | 15                     | 36                     | 107          | 24                        | 24                        | 3.0  | 3.1         |
| Low fat bakery products have a poor colour.      | 7                      | 30                     | 124          | 29                        | 16                        | 3.1  | 3.2         |
| Low fat bakery products are not sweet enough.    | 17                     | 26                     | 95           | 37                        | 31                        | 3.2  | 3.4         |

#### *Factor Analysis*

Factor analysis revealed two groups of statements, the first related to negative aspects of bakery products, whilst the second factor grouped the positive aspects.

**Table 8.5:** Results from factor analysis on the sensory attributes of reduced fat bakery products.

| <b>Statement</b>                                 | <b>Factor 1<br/>36.4%</b> | <b>Factor 2<br/>25.3%</b> |
|--|---------------------------|---------------------------|
| Low fat bakery products have a poor colour.      | <b>0.831</b>              | 0.003                     |
| Low fat bakery products have a poor after taste. | <b>0.778</b>              | 0.287                     |
| Low fat bakery products are not sweet enough.    | <b>0.757</b>              | 0.031                     |
| Low fat bakery products are moist.               | 0.144                     | <b>-0.745</b>             |
| Low fat bakery products have a good taste.       | -0.508                    | <b>-0.677</b>             |
| Low fat bakery products are nice and light.      | -0.183                    | <b>-0.651</b>             |

## 8.4 Product Involvement

Table 8.6 reveals that, on average, respondents agreed slightly that they would buy reduced fat bakery products if they were of equal quality, and would try new reduced fat bakery products if they were on special offer.

### *Factor Analysis*

Three groupings of statements were derived from factor analysis. Factor 1 reflects the attitude that brand and quality equate with paying more, and such respondents are happy to do this, whilst Factor 2 represents a more cautious consumer who will try if on special offer or if they can expect equal quality from reduced fat products. Factor 3 expresses the view of not worrying about what you eat, it is more important to like the product.

**Table 8.6:** Number of respondents agreeing with a list of statements with respect to purchase of reduced fat bakery products. The adjusted mean is based on the calculation omitting the 'neither agree nor disagree' category

|  | 1<br>Agree<br>Strongly | 2<br>Agree<br>Slightly | 3<br>Neither | 4<br>Disagree<br>Slightly | 5<br>Disagree<br>Strongly | Mean | Adj<br>Mean |
|--|------------------------|------------------------|--------------|---------------------------|---------------------------|------|-------------|
| I would buy low fat bakery products if they were of equal quality.         | 63                     | 60                     | 75           | 6                         | 2                         | 2.1  | 1.7         |
| I will try new low fat bakery products if they are on special offer.       | 55                     | 62                     | 69           | 11                        | 9                         | 2.3  | 2.0         |
| I am more likely to buy low fat bakery products if they have a brand name. | 36                     | 56                     | 67           | 28                        | 19                        | 2.7  | 2.6         |
| I don't buy economy brands when buying bakery products.                    | 40                     | 34                     | 85           | 32                        | 15                        | 2.7  | 2.6         |
| I buy a product because I like it, I don't worry about the ingredients.    | 32                     | 51                     | 59           | 38                        | 26                        | 2.9  | 2.8         |
| I would not cut biscuits, cakes and pastries out of my diet                | 28                     | 48                     | 68           | 31                        | 31                        | 2.9  | 2.9         |
| I could happily live without eating cakes, biscuits and pastries.          | 31                     | 26                     | 57           | 43                        | 49                        | 3.3  | 3.4         |
| I am willing to pay more for low fat bakery products.                      | 14                     | 36                     | 74           | 47                        | 35                        | 3.3  | 3.4         |

**Table 8.7:** Results from factor analysis on attitudes towards purchasing reduced fat bakery products.

| <b>Statement</b>   | <b>Factor 1<br/>21.0%</b> | <b>Factor 2<br/>20.0%</b> | <b>Factor 3<br/>18.5%</b> |
|--|---------------------------|---------------------------|---------------------------|
| I am more likely to buy low fat bakery products if they have a brand name. | <b>0.840</b>              | 0.152                     | -0.005                    |
| I am willing to pay more for low fat bakery products.                      | <b>0.724</b>              | 0.154                     | 0.079                     |
| I don't buy economy brands when buying bakery products.                    | <b>0.588</b>              | -0.197                    | -0.426                    |
| I will try new low fat bakery products if they are on special offer.       | -0.005                    | <b>0.798</b>              | 0.01                      |
| I would buy low fat bakery products if they were of equal quality.         | 0.308                     | <b>0.731</b>              | -0.037                    |
| I buy a product because I like it, I don't worry about the ingredients.    | -0.02                     | -0.254                    | <b>-0.706</b>             |
| I would not cut biscuits, cakes and pastries out of my diet                | 0.078                     | 0.194                     | <b>-0.667</b>             |
| I could happily live without eating cakes, biscuits and pastries.          | 0.055                     | -0.491                    | <b>0.593</b>              |

## 8.5 Reduced Fat Claims

Respondents were asked about their reaction to reduced fat claims, in terms of what they would be most likely to buy. Table 8.8 indicates that products labelled as 'fat free' were the most likely to be purchased, followed by those labelled 'virtually fat free'. The least attractive option appeared to be 'less fat than standard'.

**Table 8.8:** Tabulation of most attractive fat reduction claim, expressed as a percentage.

| Claim                  | Percent for each Choice |     |     |         |
|------------------------|-------------------------|-----|-----|---------|
|                        | 1st                     | 2nd | 3rd | Missing |
| Fat free               | 43                      | 7   | 4   | 45      |
| Less fat than standard | 9                       | 12  | 8   | 71      |
| Reduced fat            | 20                      | 15  | 13  | 52      |
| Low fat                | 16                      | 13  | 18  | 53      |
| Virtually fat free     | 21                      | 25  | 14  | 40      |
| Healthy choice         | 17                      | 16  | 17  | 50      |

Table 8.9 shows the response when considering the amount of fat reduction in terms of purchase likelihood. The most attractive reductions in fat to respondents were cited as 99% and 95%, in terms of 1<sup>st</sup> and 2<sup>nd</sup> choices.

**Table 8.9:** Tabulation of most attractive fat free claim, expressed as a percentage.

| Fat Reduction | Percent for each Choice |     |     |         |
|---------------|-------------------------|-----|-----|---------|
|               | 1st                     | 2nd | 3rd | Missing |
| 99%           | 31                      | 2   | 9   | 58      |
| 95%           | 15                      | 27  | 5   | 52      |
| 85%           | 8                       | 14  | 22  | 55      |
| 50%           | 22                      | 6   | 10  | 61      |
| 25%           | 6                       | 9   | 8   | 76      |
| Less than 25% | 9                       | 2   | 7   | 82      |

## **9. RESULTS: CONSUMER GROUPING**

This chapter looks at potential groupings of consumers according to the attitude statements previously analysed in Sections 6.1, 6.2, 6.4, 8.2, 8.3 and 8.4. The approach throughout is to use cluster analysis to group consumers with similar response patterns to the attitude statements. The mean agreement is then calculated for each statement for the consumers in each cluster (grouping). Thereafter, tables are calculated to determine whether groups of consumers could be characterised according to age, gender, education or region.

### ***Cluster Analysis Method***

The K-Means clustering method was used in the Minitab statistical software. The program starts by allocating each observation (respondent) into a pre-defined number of clusters. This initial allocation is then evaluated, and the observation moved to the cluster whose centroid it is closest to. As clusters change after losing or gaining an observation, the cluster centroid is recalculated. This process is repeated until no more observations can be moved.

### ***Cluster Composition***

When interpreting any data in this report, reference needs to be made to the quota outlined in Chapter 3: a pre-dominance of female respondents is bound to skew results. However, it is still useful to see if clusters of consumers obtained on the basis of attitudes differ from the overall quota. The main variables looked at were gender, age and region.

## 9.1 Attitudes Towards Biscuits

Table 9.1 shows the statement means for consumers in each of three clusters, where the percentage of consumers in each cluster is shown in the second row of the table. It should be noted that a value of '1' equates to 'agree strongly' and '5' to 'disagree strongly'.

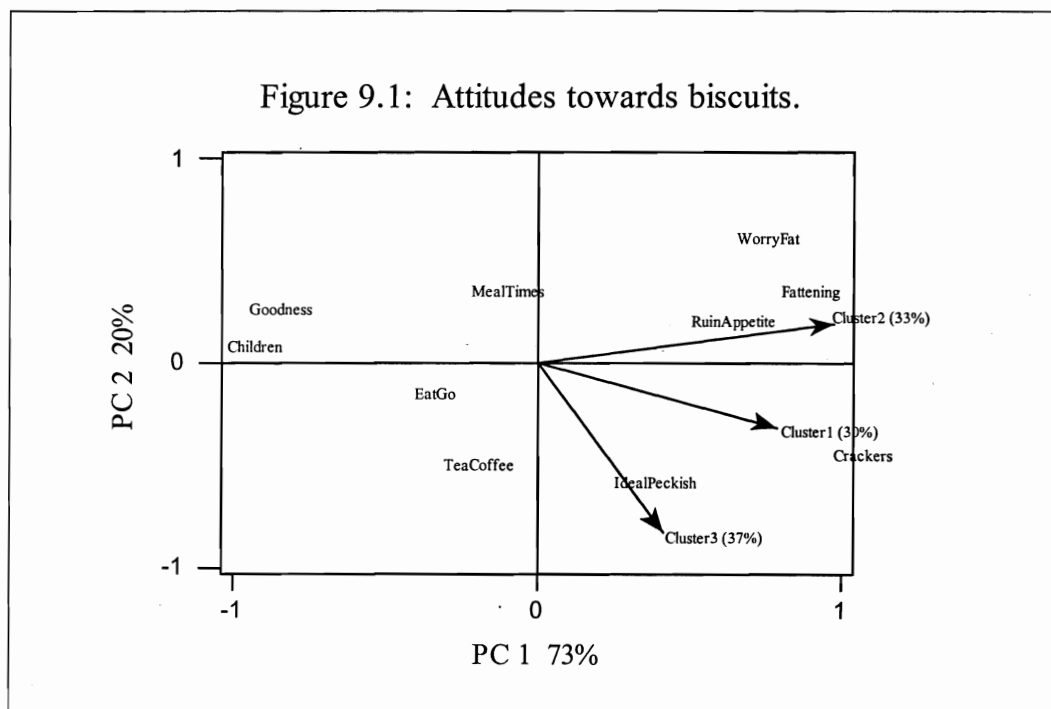
**Table 9.1:** Statement means derived for three clusters of consumers with respect to attitudes towards biscuits.

| <b>Statement</b>   | <b>Cluster 1<br/>30%</b> | <b>Cluster 2<br/>33%</b> | <b>Cluster 3<br/>37%</b> |
|--|--------------------------|--------------------------|--------------------------|
| Biscuits are a must with a cup of tea or coffee. [TeaCoffee]         | 3.4                      | 3.1                      | 1.6                      |
| Biscuits can ruin your appetite for meals. [RuinAppetite]            | 2.4                      | 2.1                      | 2.6                      |
| Biscuits are good for the children after school. [Children]          | 3.7                      | 4.3                      | 2.9                      |
| Biscuits are good for eating on the go. [EatGo]                      | 3.4                      | 3.1                      | 2.2                      |
| Biscuits are very fattening. [Fattening]                             | 2.9                      | 1.5                      | 2.3                      |
| Crackers are more of a savoury snack. [Crackers]                     | 2.3                      | 1.7                      | 1.6                      |
| I worry about the fat in biscuits. [WorryFat]                        | 3.1                      | 1.5                      | 2.8                      |
| Biscuits are ideal when you're feeling a bit peckish. [IdealPeckish] | 2.6                      | 2.6                      | 1.6                      |
| I associate savoury biscuits/ crackers with meal times. [MealTimes]  | 3.9                      | 2.5                      | 2.5                      |
| Biscuits contain lots of goodness. [Goodness]                        | 3.6                      | 3.7                      | 2.9                      |

Respondents in Cluster 1 disagree with the statements: 'biscuits are good for the children after school' and 'I associate savoury biscuits / crackers with meal times'. Respondents in Cluster 2 also disagree that 'biscuits are good for the children after school' and 'biscuits contain lots of goodness', and agree with the statements that 'biscuits are fattening', 'crackers are more of a savoury snack' and 'I worry about the fat in biscuits'. Therefore Cluster 2 respondents demonstrate more health concerns.

Respondents in Cluster 3 agreed that ‘biscuits are a must with a cup of tea or coffee’, ‘crackers are more of a savoury snack’ and ‘biscuits are ideal when you are feeling a bit peckish’. This group of respondents were therefore more tending towards seeing specific benefits from biscuits.

Figure 9.1 summarises the data by using principal component analysis (PCA). The statements are positions on the map, while the clusters represent directions of increasing agreement for the different groups of consumers. It is important to interpret this plot in conjunction with the table of means (Table 9.1).



It was clear that respondents did not agree that ‘biscuits contain lots of goodness’ and that ‘biscuits are good for the children after school’.

### ***Cluster Composition***

There was no evidence to suggest that the male/female or region distributions differed from the quota in any of the clusters; however, some differences were found in terms of age.

Examination of Table 9.2 indicates that Cluster 1 had a lower proportion of 16-24 years and a higher proportion on 35-44 years, whilst the converse was true for Cluster 3.

**Table 9.2:** Classification of clusters according to age breakdown: attitudes towards biscuits.

| <b>Age</b> | <b>Cluster 1</b> | <b>Cluster 2</b> | <b>Cluster 3</b> | <b>All</b> |
|------------|------------------|------------------|------------------|------------|
| 16-24      | 0                | 4                | 13               | 6          |
| 25-34      | 11               | 16               | 15               | 15         |
| 35-44      | 30               | 18               | 11               | 19         |
| 45-54      | 23               | 30               | 21               | 25         |
| 55-64      | 13               | 15               | 17               | 15         |
| 65+        | 23               | 16               | 23               | 21         |
| All        | 100              | 100              | 100              | 100        |

## 9.2 Attitudes Towards Cakes and Pastries

Table 9.3 shows the statement means for respondents in each of three clusters, where the percentage of respondents in each cluster is shown in the second row of the table.

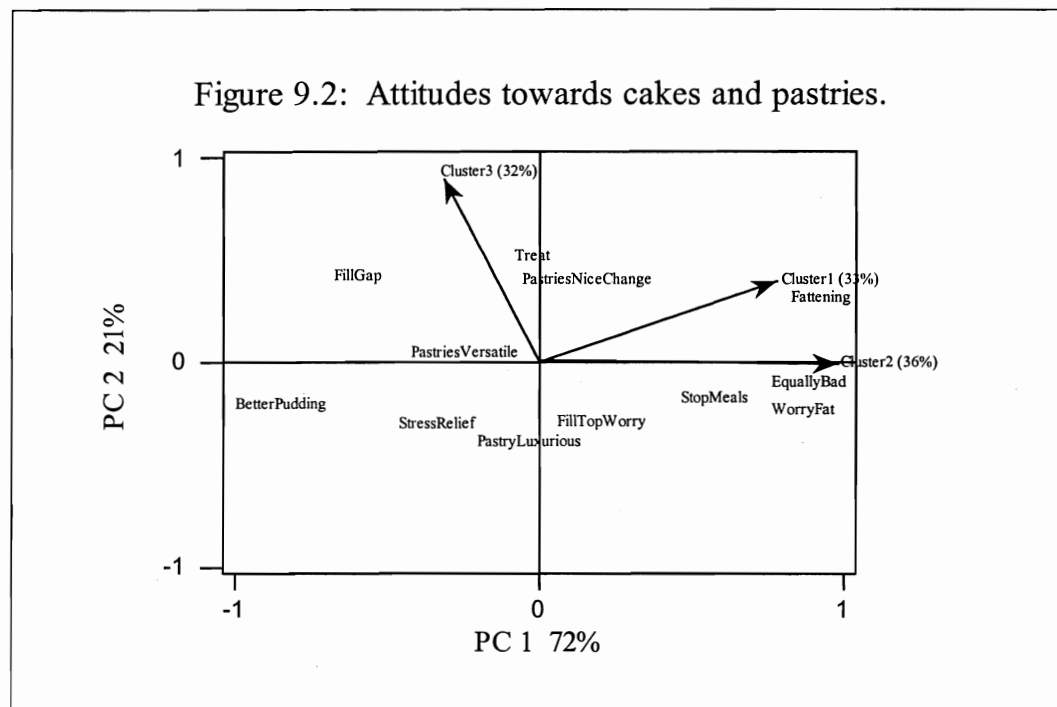
**Table 9.3:** Statement means derived for three clusters of consumers with respect to attitudes towards cakes and pastries.

| Statement  | Cluster 1<br>33% | Cluster 2<br>36% | Cluster 3<br>32% |
|--|------------------|------------------|------------------|
| Cakes fill a gap when I'm hungry. [FillGap]                          | 3.2              | 3.2              | 1.9              |
| Cakes are better than a pudding. [BetterPudding]                     | 3.6              | 3.7              | 2.7              |
| Pastries are more versatile than cakes. [PastriesVersatile]          | 3.1              | 3.0              | 2.6              |
| Cakes are a well deserved treat. [Treat]                             | 3.1              | 2.3              | 1.8              |
| It's the filling/topping in cakes that I worry about. [FillTopWorry] | 3.3              | 2.3              | 3.0              |
| Pastries make a nice change from cakes. [PastriesNiceChange]         | 2.9              | 2.4              | 2.1              |
| Cakes stop you from eating proper meals [StopMeals]                  | 3.0              | 1.8              | 2.9              |
| Cakes relieve me when I'm stressed. [StressRelief]                   | 4.0              | 2.7              | 2.7              |
| Cakes are very fattening. [Fattening]                                | 2.4              | 1.4              | 2.4              |
| Pastries are more luxurious than cakes. [PastryLuxurious]            | 3.3              | 2.7              | 3.1              |
| Pastries and cakes are equally bad for you. [EquallyBad]             | 2.4              | 1.6              | 3.0              |
| I worry about the fat in cakes. [WorryFat]                           | 3.0              | 1.3              | 3.0              |

Respondents in Cluster 1 disagreed that 'cakes relieve me when I'm stressed', whilst respondents in Clusters 2 and 3 have no strong view on this. Respondents in Cluster 2 disagree that 'cakes are better than a pudding', and agree that 'cakes stop you from eating proper meals', 'pastries and cakes are equally bad for you', 'cakes are very fattening' and 'I worry about the fat in cakes'. Therefore, these respondents demonstrate a concern about fat in cakes and pastries.

Respondents in Cluster 3 are more positive and see cakes and pastries as having a positive role. They agree that ‘pastries make a nice change from cakes’, ‘cakes fill a gap when I’m hungry’ and ‘cakes are a well deserved treat’.

Figure 9.2 illustrates that respondents in Clusters 1 and 2 show the same overall trend towards the negative aspects of cakes and pastries. However, it can be seen from the table of means that Cluster 1 respondents don’t hold such strong views. Respondents in Cluster 3, on the other hand, see cakes and pastries as having a positive role.



### ***Cluster Composition***

While the age and region distributions did not appear to differ from the quota, differences were found in Clusters 2 and 3 with respect to male/female split. In Cluster 2, representing concerns about fat, there were less men than quota. Cluster 3 represented a more positive attitude to cakes and pastries, and this view was held by more men than quota.

**Table 9.4:** Classification of clusters according to age breakdown: attitudes towards cakes and pastries.

| Age    | Cluster 1 | Cluster 2 | Cluster 3 | All |
|--------|-----------|-----------|-----------|-----|
| Male   | 27        | 13        | 41        | 26  |
| Female | 73        | 87        | 59        | 74  |
| All    | 100       | 100       | 100       | 100 |

### 9.3 Attitudes Towards Health

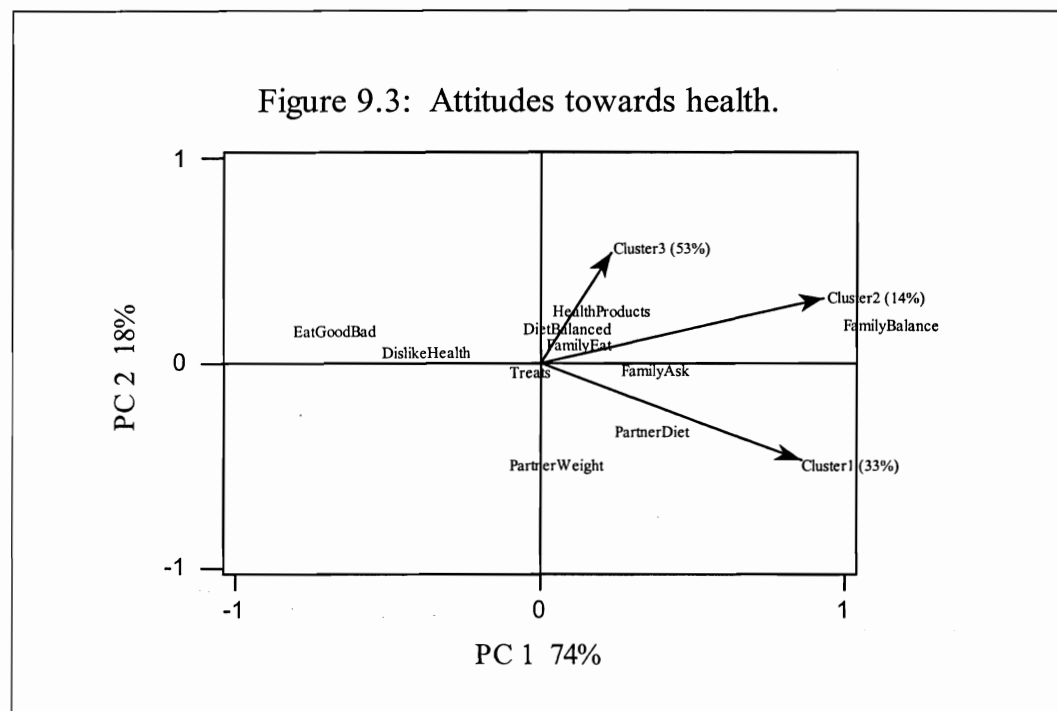
Table 9.5 shows the statement means for respondents in each of three clusters, where the percentage of respondents in each cluster is shown in the second row of the table.

**Table 9.5:** Statement means derived for three clusters of consumers with respect to attitudes towards health.

| <b>Statement</b>   | <b>Cluster 1<br/>33%</b> | <b>Cluster 2<br/>14%</b> | <b>Cluster 3<br/>53%</b> |
|--|--------------------------|--------------------------|--------------------------|
| I try to feed my family a balanced diet.<br>[FamilyBalance]                                  | 1.2                      | 1.0                      | 1.9                      |
| I buy health products for the family, but don't tell them. [HealthProducts]                  | 3.1                      | 2.5                      | 3.0                      |
| Some of my family ask for healthy foods.<br>[FamilyAsk]                                      | 2.2                      | 2.5                      | 3.1                      |
| As long as the diet is balanced, I don't worry about buying healthy products. [DietBalanced] | 2.8                      | 3.1                      | 2.3                      |
| My family don't like health products.<br>[DislikeHealth]                                     | 3.5                      | 4.0                      | 3.0                      |
| My partner is concerned about eating a healthy diet.<br>[PartnerDiet]                        | 1.7                      | 3.0                      | 3.3                      |
| The family eat what they are given. [FamilyEat]  | 2.6                      | 3.0                      | 2.5                      |
| We eat what we like whether its good or bad.<br>[EatGoodBad]                                 | 4.0                      | 4.6                      | 2.5                      |
| My partner is concerned about their weight.<br>[PartnerWeight]                               | 1.7                      | 4.0                      | 3.1                      |
| Treats for the family need not be healthy. [Treats]  | 2.6                      | 3.4                      | 2.4                      |

Respondents in Cluster 1 represented a group who sought to maintain a healthy diet. These respondents agree that 'some of my family ask for healthy foods', 'I try to feed my family a balanced diet', 'my partner is concerned about eating a healthy diet' and 'my partner is concerned about their weight'. Respondents in Cluster 2 demonstrate similar attitudes, but place a greater emphasis in terms of disagreeing with the statements 'my family don't like health products', 'my partner is concerned about their weight' and 'we eat what we like whether its good or bad'. Respondents in Cluster 3 have no really strong views, but do agree that 'I try to feed my family a balanced diet'.

Figure 9.3 confirms that respondents in Cluster 3 contribute relatively little to the attitude plot, as the directional vector is rather short. As previously mentioned, respondents in Clusters 1 and 2 exhibit similar attitudes along Principal Component 1 (PC 1), but differ in the agreement on statements regarding their partner's weight.



### ***Cluster Composition***

While the age and region distributions did not appear to differ from the quota, differences were found in Clusters 1 and 2 with respect to male/female split. In Cluster 1 there were slightly more men than quota, whilst in Cluster 2 there were fewer men.

**Table 9.6:** Classification of clusters according to age breakdown: attitudes towards health.

| <b>Age</b> | <b>Cluster 1</b> | <b>Cluster 2</b> | <b>Cluster 3</b> | <b>All</b> |
|------------|------------------|------------------|------------------|------------|
| Male       | 35               | 15               | 23               | 26         |
| Female     | 65               | 85               | 77               | 74         |
| All        | 100              | 100              | 100              | 100        |

## **9.4 Attitudes Towards Reduced Fat Bakery Products**

Table 9.7 shows the statement means for consumers in each of three clusters, and the percentage of respondents in each cluster.

Respondents in Cluster 1 disagreed that ‘it’s more important for the children to have reduced fat products’, ‘they are a good way to have a treat when on a diet’, ‘I’d only really buy them for myself if I’m on a diet’, ‘they look so boring I can’t be bothered’ and ‘I don’t understand the claims made on reduced fat products’, and agree that ‘; I don’t really think of the ingredients, they’re a treat’.

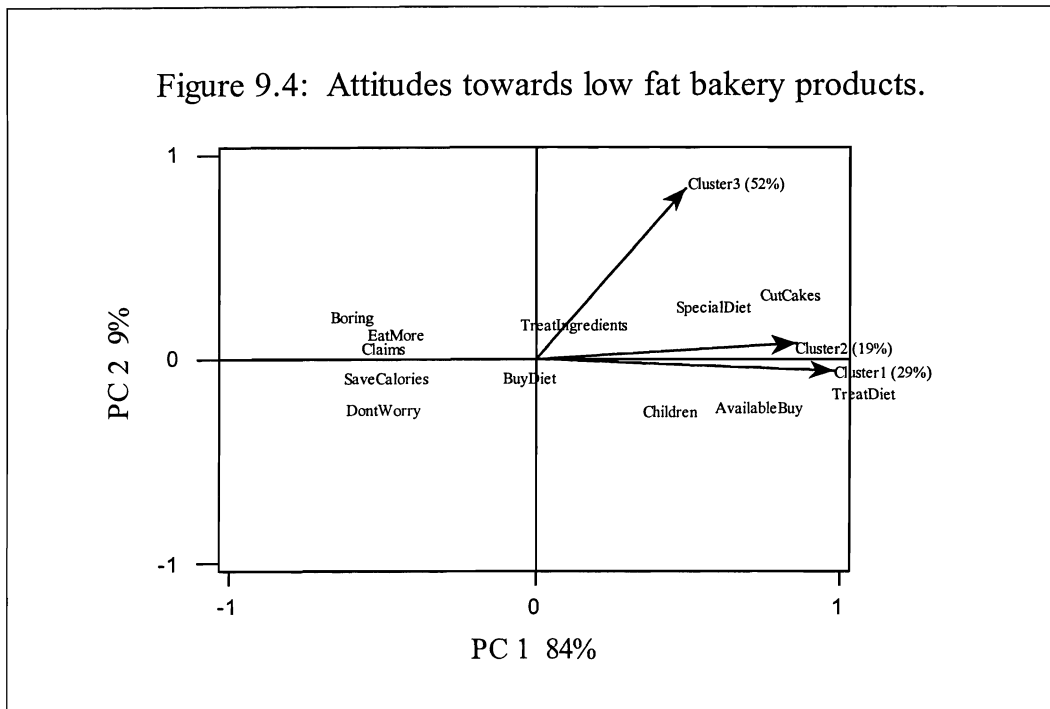
**Table 9.7:** Statement means derived for three clusters of consumers with respect to attitudes towards reduced fat bakery products.

| Statement   | Cluster 1<br>29% | Cluster 2<br>19% | Cluster 3<br>52% |
|---|------------------|------------------|------------------|
| You don't need to worry about a few biscuit, they're quite good for you really. [DontWorry] | 3.6              | 2.3              | 2.7              |
| I don't really think of the ingredients, they're a treat. [TreatIngredients]                | 2.1              | 1.8              | 2.9              |
| If you buy low fat bakery products you just eat more. [EatMore]                             | 2.7              | 1.8              | 2.3              |
| I save up calories for a cake and cut back on other things. [SaveCalories]                  | 2.7              | 1.8              | 3.1              |
| They look so boring I can't be bothered. [Boring]   | 4.3              | 2.4              | 3.5              |
| I don't understand the claims made on low fat products. [Claims]                            | 4.4              | 2.3              | 3.0              |
| They are a good way to have a treat when on a diet. [TreatDiet]                             | 4.2              | 2.7              | 3.0              |
| If they were more available, I'd be more likely to try them. [AvailableBuy]                 | 2.9              | 2.2              | 3.2              |
| It's more important for the children to have low fat products. [Children]                   | 4.1              | 3.0              | 3.2              |
| They are more important if you have special dietary needs. [SpecialDiet]                    | 3.4              | 2.7              | 3.1              |
| I'd only really buy them for myself on a diet. [BuyDiet]                                    | 4.2              | 3.1              | 2.8              |
| I'd prefer to cut cakes out completely if I'm on a diet. [CutCakes]                         | 3.0              | 2.0              | 2.5              |

Respondents in Cluster 2 agreed that 'if they were more available, I'd be more likely to try them', 'I'd prefer to cut cakes out completely if I'm on a diet', 'I don't really think of the ingredients, they're a treat', 'if you buy reduced fat products you eat more' and 'I save up calories for a cake and cut back on other things'. Respondents in Cluster 3 did not appear to have strong views, but did agree that 'if you buy reduced fat bakery products you just eat more'.

Figure 9.4 summarises the information in two dimensions, illustrating that respondents in Clusters 1 and 2 have similar attitude trends, but the emphasis on the statements is different. Cluster 3 is not well represented on this plot.

Figure 9.4: Attitudes towards low fat bakery products.



## 9.5 Attitudes to Sensory Attributes

Table 9.8 shows the statement means for respondents in each of three clusters, where the percentage of respondents in each cluster is shown in the second row of the table.

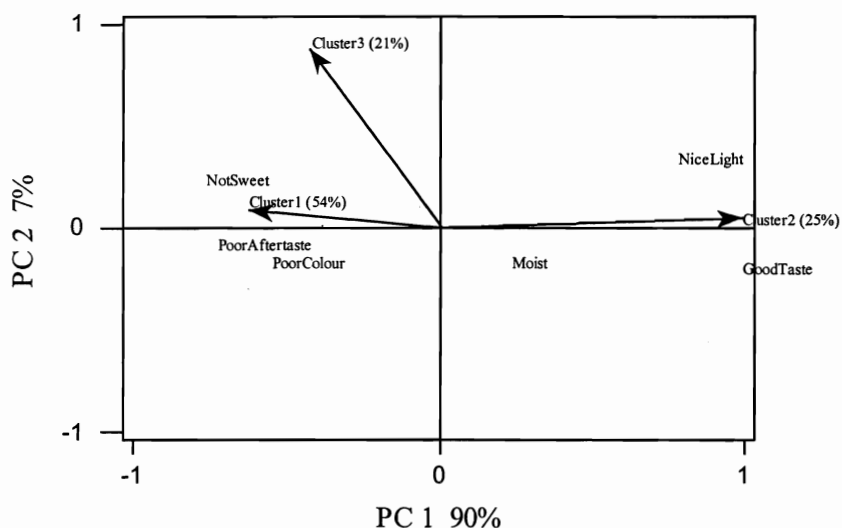
Respondents in Cluster 1 do not have strong views, and only disagree very slightly that 'low fat bakery products have a good taste'. Respondents in Cluster 2 reflect the view that reduced fat bakery products are good quality, though disagree that they 'are nice and light'. Respondents in Cluster 3 tend towards the negative quality of reduced fat bakery products.

These findings are reflected in Figure 9.5, where the majority of consumers tend towards a negative attitude to reduced fat bakery products.

**Table 9.8:** Statement means derived for three clusters of consumers with respect to attitudes towards sensory quality of reduced fat bakery products.

| Statement  | Cluster 1<br>54% | Cluster 2<br>25% | Cluster 3<br>21% |
|--|------------------|------------------|------------------|
| Low fat bakery products have a poor colour.<br>[PoorColour]          | 3.1              | 4.3              | 2.0              |
| Low fat bakery products have a poor after taste.<br>[PoorAftertaste] | 3.0              | 2.0              | 2.1              |
| Low fat bakery products are not sweet enough.<br>[NotSweet]          | 2.9              | 4.0              | 2.5              |
| Low fat bakery products are moist. [Moist]                           | 3.2              | 3.0              | 2.7              |
| Low fat bakery products have a good taste.<br>[GoodTaste]            | 3.4              | 1.8              | 2.9              |
| Low fat bakery products are nice and light.<br>NiceLight]            | 2.7              | 4.2              | 2.4              |

**Figure 9.5:** Attitudes towards sensory quality.



## 9.6 Attitudes Towards Purchase

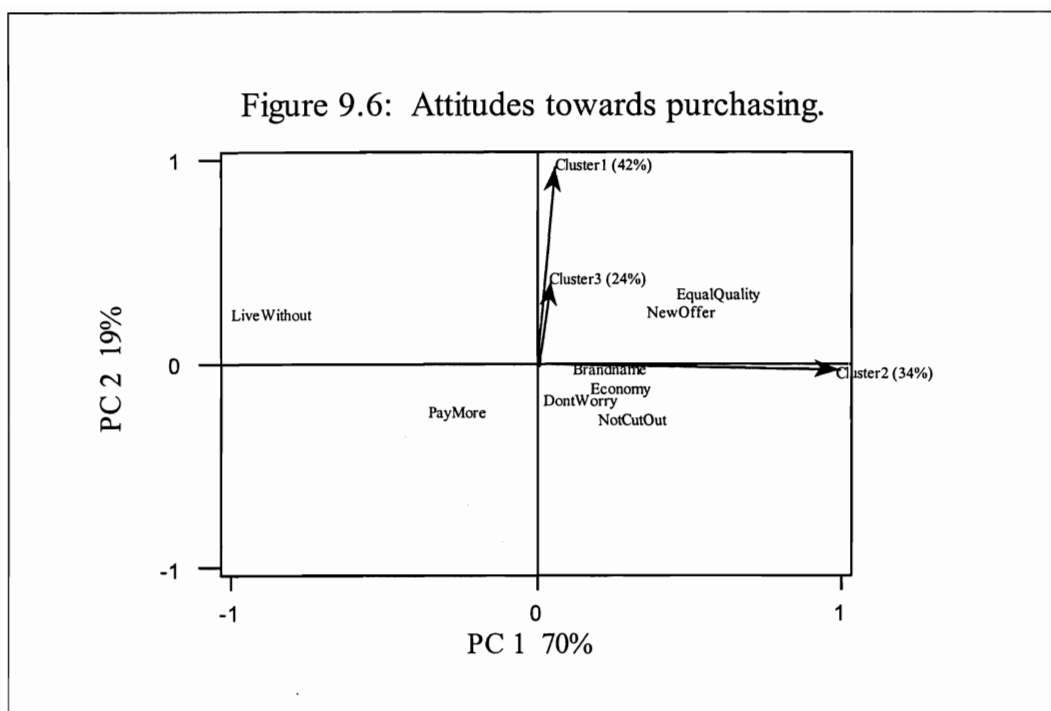
Table 9.9 shows the statement means for respondents in each of three clusters, where the percentage of respondents in each cluster is shown in the second row of the table.

**Table 9.9:** Statement means derived for three clusters of consumers with respect to attitudes towards purchasing.

| Statement  | Cluster 1<br>42% | Cluster 2<br>34% | Cluster 3<br>24% |
|--|------------------|------------------|------------------|
| I am more likely to buy low fat bakery products if they have a brand name. [BrandName] | 3.5              | 3.3              | 2.7              |
| I am willing to pay more for low fat bakery products. [PayMore]                        | 3.2              | 2.4              | 2.2              |
| I don't buy economy brands when buying bakery products. [Economy]                      | 3.4              | 2.2              | 3.2              |
| I will try new low fat bakery products if they are on special offer. [SpecialOffer]    | 3.6              | 2.6              | 2.0              |
| I would buy low fat bakery products if they were of equal quality. [EqualQuality]      | 2.6              | 1.9              | 2.3              |
| I buy a product because I like it, I don't worry about the ingredients. [DontWorry]    | 3.4              | 2.3              | 2.2              |
| I would not cut biscuits, cakes and pastries out of my diet. [NotCutOut]               | 2.4              | 1.8              | 2.2              |
| I could happily live without eating biscuits, cakes and pastries. [LiveWithout]        | 2.7              | 4.6              | 2.3              |

Respondents in Cluster 1 had no strong views, though 'would not cut biscuits, cakes and pastries out of my diet'. Respondents in Cluster 2 agreed that 'I don't buy economy brands when buying bakery products', 'I would buy reduced fat bakery products if they were of equal quality' and 'I would not cut biscuits, cakes and pastries out of my diet', and disagreed that 'I could happily live without eating biscuits, cakes and pastries'. Therefore, these respondents were quality conscious and were committed consumers of bakery products.

Respondents in Cluster 3 tended to agree with most statements, and there appeared to be some conflict in their attitudes. This information is summarised in Figure 9.6.



### ***Cluster Composition***

While the age and region distributions did not appear to differ from the quota, differences were found in Clusters 2 and 3 with respect to male/female split. In Cluster 2 there were slightly more men than quota, whilst in Cluster 3 there were slightly less men than quota.

**Table 9.10:** Classification of clusters according to age breakdown: attitudes towards health.

| Age    | Cluster 1 | Cluster 2 | Cluster 3 | All |
|--------|-----------|-----------|-----------|-----|
| Male   | 23        | 35        | 18        | 26  |
| Female | 77        | 65        | 82        | 74  |
| All    | 100       | 100       | 100       | 100 |

## 10. DISCUSSION AND CONCLUSIONS

On the whole, the quantitative research confirmed the issues raised in the qualitative group discussions, though the actual survey was restricted by the sample of consumers returning the questionnaires. Nonetheless, together the qualitative and quantitative research has provided an important insight into the barriers inhibiting greater consumption of reduced fat bakery products. A final report (McEwan and Sharp, 1999) will address how these barriers may be overcome.

In summary, consumers were aware that bakery products contain fat, but such products were generally perceived to be an indulgence/treat item and as such were expected to contain 'less healthy' ingredients. Reduced fat bakery products could be important when dieting, but it was indicated that reducing sugar was more important than reducing fat when considering living a healthy lifestyle.

Price, quality and availability were also issues with respect to decision to purchase reduced fat bakery products, as was the amount of fat reduction. It was also clear that better communication strategies were required to convey benefits to the consumer.

In conclusion, more comprehensive research is required to explore communication of information to consumers, and therefore promote the benefits of reducing fat in the diet across all product categories where a significant fat contribution is made to the diet.

## REFERENCES

HMSO (1991). Food Advisory Committee Report on its Review of Food Labelling and Advertising 1990. London: HMSO.

McEwan, J.A. and Clayton, D. (1999). Barriers to the Consumption of Reduced Fat Bakery Products: A Qualitative Approach. CCFRA R&D Report 78.

Sharp, T.M. (1999). Barriers to the Production of Reduced Fat Bakery Products. CCFRA R&D Report. In press.



## APPENDIX 1: QUESTIONNAIRE

### About the products you buy & eat

*Please mark only one box.*

- Q Are you personally, solely or jointly responsible for  
The main food shopping for your household? Yes ☐ No ☐

**IF NO**, the following questions will not be relevant to you. Please do not continue to answer further questions and kindly ask the person responsible for the shopping in your household to complete this questionnaire.

*Thank you.*

- Q Thinking about your purchase of biscuits, cakes and pastries, how often do you buy these products?

*Please mark only **one** box for each product type.*

|                       | Sweet Biscuits           | Savoury Biscuits         | Fresh Cakes              | Frozen Cakes             | Pre-packed Cakes         | Pastries                 |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| More than once a week | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once a week           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once a fortnight      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once a month          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once every 2-3 months | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Less often            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Never                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Thinking about when you buy these products, what types do you usually purchase?

*For each product type please mark **all** formats that you buy.*

|                  |                          |   |
|------------------|--------------------------|---|
| Sweet Biscuits   | <input type="checkbox"/> | Mini-packs/snack packs                  |
|                  | <input type="checkbox"/> | Standard packets                        |
|                  | <input type="checkbox"/> | Family selection packs                  |
|                  | <input type="checkbox"/> | I do not buy                            |
| Savoury Biscuits | <input type="checkbox"/> | Mini-packs/snack packs                  |
|                  | <input type="checkbox"/> | Standard packets                        |
|                  | <input type="checkbox"/> | Family selection packs                  |
|                  | <input type="checkbox"/> | I do not buy                            |
| Cakes            | <input type="checkbox"/> | Mini-packs/snack packs                  |
|                  | <input type="checkbox"/> | Individual cakes / cake bars            |
|                  | <input type="checkbox"/> | Large / Family size cakes (Whole cakes) |
|                  | <input type="checkbox"/> | I do not buy                            |
| Pastries         | <input type="checkbox"/> | Individual                              |
|                  | <input type="checkbox"/> | Pre-packaged                            |
|                  | <input type="checkbox"/> | I do not buy                            |

Q When buying biscuits, cakes and pastries, when do you buy these products?

Please select **up to three choices** for each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first choice in the column '1' and if further choices apply mark your second choice in column '2' and your third choice in column '3'.

|                                       | Sweet Biscuits           |                          |                          | Savoury Biscuits         |                          |                          | Fresh Cakes              |                          |                          | Frozen Cakes             |                          |                          | Pre-packed Cakes         |                          |                          | Pastries                 |                          |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                       | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        |
| As a regular item of shopping         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As an impulse purchase                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| For a special occasion                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As a planned luxury or treat          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

Q Where do you usually buy your biscuits, cakes and pastries?

Please select **up to three choices** for each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first choice in the column '1' and if further choices apply mark your second choice in column '2' and your third choice in column '3'.

|                                       | Sweet Biscuits           |                          |                          | Savoury Biscuits         |                          |                          | Fresh Cakes              |                          |                          | Frozen Cakes             |                          |                          | Pre-packed Cakes         |                          |                          | Pastries                 |                          |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                       | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        |
| Supermarket                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Convenience/local shop                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bakery                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Garage                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Restaurant/Coffee shop                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

Q Thinking about your purchase of biscuits, cakes and pastries, about how much money do you spend on each of the following products in one week? If you shop monthly please divide the amount you spend by four.

Please mark only **one** option for each product type.

|                       | Sweet Biscuits           | Savoury Biscuits         | Cakes                    | Pastries                 |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| None                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Under £0.50           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| between £0.51 - £1.00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| between £1.01 - £2.00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| between £2.01 - £3.00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| between £3.01 - £4.00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| between £4.01 - £5.00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| In excess of £5.00    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Q When buying biscuits, cakes and pastries which members of the family do you mainly purchase them for?

*Please mark **up to two selections** for each product type. Mark the person who you mainly buy for in column '1' and if there is a second person mark them in column '2'.*

|                                       | Sweet Biscuits           |                          | Savoury Biscuits         |                          | Fresh Cakes              |                          | Frozen Cakes             |                          | Pre-packed Cakes         |                          | Pastries                 |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                       | 1                        | 2                        | 1                        | 2                        | 1                        | 2                        | 1                        | 2                        | 1                        | 2                        | 1                        | 2                        |
| Self only                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Partner only                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Self & Partner                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Children                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Whole family                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other adults in the house             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Visitors                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

Q Thinking about your consumption of biscuits, cakes and pastries, how often do you personally eat these products?

*Please mark only **one** box for each product type.*

|                       | Sweet Biscuits           | Savoury Biscuits         | Fresh Cakes              | Frozen Cakes             | Pre-packed Cakes         | Pastries                 |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Daily                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4-6 times per week    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2-3 times per week    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once a week           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once a fortnight      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once a month          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Once every 2-3 months | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Less often            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Never                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Thinking about your purchase of bakery products, what are your main reasons for buying them?

Please select **up to three reasons** for buying each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first reason in the column '1' and if further choices apply mark your second reason in column '2' and your third reason in column '3'.

|                                       | Sweet Biscuits           |                          |                          | Savoury Biscuits         |                          |                          | Fresh Cakes              |                          |                          | Frozen Cakes             |                          |                          | Pre-packed Cakes         |                          |                          | Pastries                 |                          |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                       | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        |
| For indulgence or treat               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As part of a lunch box                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As a standby item                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As a snack product                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As part of a meal                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As a special occasion                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

- Q When buying biscuits, cakes and pastries, what factors influence your choice when buying each of these products?

Please select **up to three reasons** for buying each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first reason in the column '1' and if further choices apply mark your second reason in column '2' and your third reason in column '3'.

|                                       | Sweet Biscuits           |                          |                          | Savoury Biscuits         |                          |                          | Fresh Cakes              |                          |                          | Frozen Cakes             |                          |                          | Pre-packed Cakes         |                          |                          | Pastries                 |                          |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                       | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        |
| Price                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Quality                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Habit                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Special offers                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Family favourites                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Nutrition/Health                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Brand                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

- Q a) When buying biscuits, cakes and pastries as a standard part of your regular shop, which of the following do you usually buy?

Please mark only **one** box for each product type.

|                    | Sweet Biscuits           | Savoury Biscuits         | Fresh Cakes              | Frozen Cakes             | Pre-packed Cakes         | Pastries                 |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Branded            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Own label          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fresh (un-branded) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q b) When buying biscuits, cakes and pastries as a luxury item of your shopping, which of the following do you usually buy?

Please mark only **one** box for each product type.

|                    | Sweet Biscuits           | Savoury Biscuits         | Fresh Cakes              | Frozen Cakes             | Pre-packed Cakes         | Pastries                 |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Branded            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Own label          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fresh (un-branded) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I do not buy       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Here is a list of things other people have said about biscuit products. Please can you indicate how much you personally agree or disagree with each statement.

Please mark only **one** box for each product type.

|  | Agree strongly           | Agree slightly           | Neither agree or disagree | Disagree slightly        | Disagree strongly        | No opinion               |
|--|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Biscuits are a must with a cup of tea or coffee                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biscuits can ruin your appetite for meals                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biscuits are good for the children after school/in between meals | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biscuits are good for eating on the go                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biscuits are very fattening                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Crackers are more of a savoury snack                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I worry about the fat in biscuits                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biscuits are ideal when you're feeling a bit peckish             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I associate savoury biscuits/ crackers with meal times           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biscuits contain lots of goodness                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Here is a list of things other people have said about biscuit products. Please can you indicate how much you personally agree or disagree with each statement.

Please mark only **one** box for each product type.

|  | Agree strongly           | Agree slightly           | Neither agree or disagree | Disagree slightly        | Disagree strongly        | No opinion               |
|--|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Cakes fill a gap when I'm hungry                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cakes are better than a pudding                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pastries are more versatile than cakes               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cakes are a well deserved treat                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| It's the filling/topping in cakes that I worry about | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pastries make a nice change from cakes               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cakes stop you from eating proper meals              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cakes relieve me when I am stressed                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cakes are very fattening                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pastries are more luxurious than cakes               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pastries and cakes are equally as bad for you        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I worry about the fat in cakes                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q People have different attitudes towards living a healthy lifestyle depending on their own needs. Please can you say which of the following phrases best describes your own opinion of your lifestyle?

Please mark only **one** box

- |   |                          |
|---|--------------------------|
| I don't live a healthy lifestyle and don't care                               | <input type="checkbox"/> |
| I don't really worry about how healthy my lifestyle is                        | <input type="checkbox"/> |
| I'm not that bothered about living a very healthy lifestyle, but do try a bit | <input type="checkbox"/> |
| Parts of my lifestyle are quite healthy                                       | <input type="checkbox"/> |
| I try to live a fairly healthy lifestyle generally                            | <input type="checkbox"/> |
| I do live a very healthy lifestyle on the whole                               | <input type="checkbox"/> |
| I have an extremely healthy lifestyle   | <input type="checkbox"/> |
| None of the above   | <input type="checkbox"/> |

- Q Thinking about living a healthy lifestyle. Which of the following do you generally do in terms of the food you eat?

Please select **up to three reasons** for buying each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first reason in the column '1' and if further choices apply mark your second reason in column '2' and your third reason in column '3'.

**Mark all that apply      Select your top three**

- |                                       |                          | 1                        | 2                        | 3                        |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Eat less red meat                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Not eat meat                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Control calorie intake                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduce fat in diet                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduce cholesterol in diet            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduce caffeine intake                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Control/reduce alcohol consumption    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| None of these                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (Please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

- Q People have different attitudes to dieting or watching their weight. Which of the following statements best describes you?

Please mark only **one** box

- |   |                          |
|---|--------------------------|
| I don't bother to watch my weight   | <input type="checkbox"/> |
| I don't go on diets   | <input type="checkbox"/> |
| I try to put on weight  | <input type="checkbox"/> |
| I never need to watch my weight   | <input type="checkbox"/> |
| I diet/watch my weight as and when I need to                                | <input type="checkbox"/> |
| I diet/watch my weight at certain times of the year or on certain occasions | <input type="checkbox"/> |
| I am always watching my weight  | <input type="checkbox"/> |
| I am always on a diet   | <input type="checkbox"/> |
| None of the above   | <input type="checkbox"/> |

- Q Thinking about watching your weight and dieting. Which of the following statements best describes your behaviour?

*Please mark all options that apply and then select **up to three reasons**. Under the column marked 'Select you top three' there are 1st, 2nd and 3rd choices. Mark you first choice in the column '1' and if further choices apply mark your second choice in column '2' and your third choice in column '3'.*

**Mark all that apply      Select your top three**

|                                       |                          | 1                        | 2                        | 3                        |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Go to a slimming club                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Follow a specific diet plan           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Eat less or no red meat               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Count calories                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduce fat in diet                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduce sugar in diet                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduce alcohol consumption            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| None of these                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (Please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

- Q Here are some statements that other people have made about themselves and their families health. Please can you indicate the extent to which you agree or disagree with the following statements, in respect of the health of yourself and/or your family?

*Please mark only **one** box for each statement.*

|   | Agree strongly           | Agree slightly           | Neither agree or disagree | Disagree slightly        | Disagree strongly        | No opinion               |
|---|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| I try to feed my family a balanced diet                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I buy healthy products for the family but don't tell them                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Some of my family ask for healthy foods                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| As long as the diet is balanced I don't worry about buying healthy products | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| My family don't like health products  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| My partner is concerned about eating a healthy diet                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| The family eat what they are given  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| We eat what we like whether it's good or bad                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| My partner is concerned about their weight                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Treats for the family need not be healthy                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## Your usage of low fat products

Q Thinking about your purchase of low fat products, which of the following products do you buy?

*Please mark only **one** box for each product type.*

|                                       | Buy regularly            | Buy occasionally         | Tried but don't buy      | Never buy                |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Spread/margarine                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Yoghurt                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Milk                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cheese                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Crisps                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Soups                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Salad dressing                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sweet Biscuits                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Savoury Biscuits                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cakes                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pastries                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

**Only answer this question if you have not purchased, or have ceased purchasing, low fat bakery products.**

Q Thinking specifically about purchasing low fat bakery products. What deters you from purchasing these products?

*Please select **up to three reasons for not buying** each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first reason in the column '1' and if further choices apply mark your second reason in column '2' and your third reason in column '3'.*

|  | Sweet Biscuits           |                          |                          | Savoury Biscuits         |                          |                          | Pre-packed Cakes         |                          |                          | Pastries                 |                          |                          |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|  | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        |
| Too expensive                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Taste worse                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Poor quality                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Poor appearance of product             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Poor appearance of packaging           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Small fat reduction                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Rarely available                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Poor range                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| No need to eat low fat bakery products | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unsure of other ingredients            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below)  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

**Only answer this question if you have purchased, or currently purchase low fat bakery products.**

**Q** What was your main reason for first trying low fat bakery products?

*Please select **up to three reasons** for buying each product type. Under each product type there are 1st, 2nd and 3rd choices. Mark your first reason in the column '1' and if further choices apply mark your second reason in column '2' and your third reason in column '3'.*

|   | Sweet Biscuits           |                          |                          | Savoury Biscuits         |                          |                          | Pre-packed Cakes         |                          |                          | Pastries                 |                          |                          |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|   | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        | 1                        | 2                        | 3                        |
| Trying to reduce fat in the diet                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A member of the family was on a diet                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| They were recommended by friends                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Due to specific health concerns                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| General health for all the family                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I was on a diet   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| There were no others available                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I bought them by mistake                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| They were on special offer                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I saw the product advertised on the TV and/or read about it | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below)                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

**Only answer this question if you have tried low fat bakery products.**

**Q** Which of the following low fat bakery products have you tried?

*For each product type please mark **all** products that you have tried.*

|                                       | Sweet Biscuits           | Savoury Biscuits         | Pre-packed Cakes         | Pastries                 |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| McVities Go Ahead                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Jacobs Vitalinea                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Trimlyne                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Entenmann's                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Supermarket own label                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

**Only answer this question if you buy low fat bakery products.**

Q Thinking about your current usage of low fat bakery products, how would you describe your behaviour in terms of the use of these products?

*Please mark only **one** box*

- |  |                          |
|--|--------------------------|
| I only buy them when I', on a diet or watching my weight | <input type="checkbox"/> |
| I buy them to watch my weight                            | <input type="checkbox"/> |
| I buy them to reduce my fat intake                       | <input type="checkbox"/> |
| I buy them for the family as part of a healthy diet      | <input type="checkbox"/> |
| Other (please write in the box below)                    | <input type="checkbox"/> |

If 'Other' please give details in this box

**Only answer this question if you have purchased low fat bakery products.**

Q Thinking about when you have purchased low fat bakery products, who were these products bought for?

*Please mark **up to two** selections for each product type. Mark the person who you mainly buy for in column '1' and if there is a second person mark them in column '2'.*

|                                       | Sweet Biscuits           |                          | Savoury Biscuits         |                          | Pre-packed Cakes         |                          | Pastries                 |                          |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                                       | 1                        | 2                        | 1                        | 2                        | 1                        | 2                        | 1                        | 2                        |
| Self only                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Partner only                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Self & Partner                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Whole family                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Children                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other adults in the house             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Visitors                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please write in the box below) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If 'Other' please give details in this box

**Everyone to answer the following questions.**

Q If you were on a diet or trying to watch your weight which of the following things would you do in respect of each of the product types?

*For mark only **one** box for each product type.*

|                                      | Sweet Biscuits           | Savoury Biscuits         | Pre-packed Cakes         | Pastries                 |
|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| I would cut down on the amount I eat | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I would cut out completely           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I would use a low fat alternative    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I would not change my eating habits  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Here are some things that other people have said about **low fat** bakery products. Please can you indicate how much you agree or disagree with each statement.

*Please mark only **one** box for each statement. Even if you have not tried low fat bakery products please complete this question, it is your opinion that we are interested in.*

|   | Agree<br>strongly        | Agree<br>slightly        | Neither<br>agree or<br>disagree | Disagree<br>slightly     | Disagree<br>strongly     | No<br>opinion            |
|---|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|
| I don't really think of the ingredients, they're a treat                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| They are a good way to have a treat when on a diet                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I'd prefer to cut cakes out completely if I'm on a diet                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If they were more available I'd be more likely to try them                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| You don't need to worry about a few biscuits, they're quite good for you really | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If you buy low fat bakery products you just eat more                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I don't understand the claims made on low fat products                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| It's more important for the children to have low fat products                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I save up calories for a cake and cut back on other things                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I'd only really buy them for myself on a diet                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| They look so boring I can't be bothered   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| They are more important if you have special dietary needs                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Here are some statements that other people have made about the taste and appearance of low fat bakery products. Please indicate how much you agree or disagree with each statement.

*Please mark only **one** box for each statement. Even if you have not tried low fat bakery products please complete this question, it is your opinion that we are interested in.*

|   | Agree<br>strongly        | Agree<br>slightly        | Neither<br>agree or<br>disagree | Disagree<br>slightly     | Disagree<br>strongly     | No<br>opinion            |
|---|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|
| Low fat bakery products are not sweet enough    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Low fat bakery products are nice and light      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Low fat bakery products have a poor colour      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Low fat bakery products are moist               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Low fat bakery products have a good taste       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Low fat bakery products have a poor after taste | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q There are a lot of different low fat bakery products on the market which claim different things. Please can you tell me which claim on a low fat product you would most likely buy?

*Please select **up to three** product claims that you would buy. Mark your first choice in the column '1', and if further choices apply please mark your second choice in column '2' and your third choice in column '3'.*

|                        | 1                        | 2                        | 3                        |
|------------------------|--------------------------|--------------------------|--------------------------|
| Fat free               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Less fat than standard | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Reduced fat            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Low fat                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Virtually fat free     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Healthy choice         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q When considering the purchase of low fat bakery products, what amount of fat reduction would you be looking for before deciding to buy the product?

*Please select **up to three** product claims that you would buy. Mark your first choice in the column '1', and if further choices apply please mark your second choice in column '2' and your third choice in column '3'.*

|               | 1                        | 2                        | 3                        |
|---------------|--------------------------|--------------------------|--------------------------|
| 99%           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 95%           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 85%           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 50%           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25%           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Less than 25% | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Thinking about when you buy low fat bakery products, which of the following statements best describes you?

*Please mark only **one** box for each statement. Even if you have not tried low fat bakery products please complete this question, it is your opinion that we are interested in.*

|   | Agree strongly           | Agree slightly           | Neither agree or disagree | Disagree slightly        | Disagree strongly        | No opinion               |
|---|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| I am willing to pay more for low fat bakery products                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I am more likely to buy low fat bakery products if they have a brand name | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I would not cut biscuits, cakes and pastries out of my diet               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I buy a product because I like it, I don't worry about the ingredients    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I will try new low fat bakery products if they are on special offer       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I don't buy economy brands when buying bakery products                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I would buy low fat bakery products if they were of equal quality         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I could happily live without eating cakes, biscuits and pastries          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- Q Are there any other comments you would like to make about low fat bakery products which have not been covered in this questionnaire?

*Please write below.*

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- Q We may need to re-contract some people for a further interview. Would you be willing to be re-contacted?

*Please mark only one box.* Yes ☐ No ☐

### Details About You

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Postcode: \_\_\_\_\_

Write your  
postcode, one  
character per  
box in the  
spaces here  
then mark the  
corresponding  
letter/number in  
the column  
directly  
underneath  
each box **here** →

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| (A) | (A) | (0) | (0) | (0) | (A) | (A) |
| (B) | (B) | (1) | (1) | (1) | (B) | (B) |
| (C) | (C) | (2) | (2) | (2) | (C) | (C) |
| (D) | (D) | (3) | (3) | (3) | (D) | (D) |
| (E) | (E) | (4) | (4) | (4) | (E) | (E) |
| (F) | (F) | (5) | (5) | (5) | (F) | (F) |
| (G) | (G) | (6) | (6) | (6) | (G) | (G) |
| (H) | (H) | (7) | (7) | (7) | (H) | (H) |
| (I) | (I) | (8) | (8) | (8) | (I) | (I) |
| (J) | (J) | (9) | (9) | (9) | (J) | (J) |
| (K) | (K) |     |     |     | (K) | (K) |
| (L) | (L) |     |     |     | (L) | (L) |
| (M) | (M) |     |     |     | (M) | (M) |
| (N) | (N) |     |     |     | (N) | (N) |
| (O) | (O) |     |     |     | (O) | (O) |
| (P) | (P) |     |     |     | (P) | (P) |
| (Q) | (Q) |     |     |     | (Q) | (Q) |
| (R) | (R) |     |     |     | (R) | (R) |
| (S) | (S) |     |     |     | (S) | (S) |
| (T) | (T) |     |     |     | (T) | (T) |
| (U) | (U) |     |     |     | (U) | (U) |
| (V) | (V) |     |     |     | (V) | (V) |
| (W) | (W) |     |     |     | (W) | (W) |
| (X) | (X) |     |     |     | (X) | (X) |
| (Y) | (Y) |     |     |     | (Y) | (Y) |
| (Z) | (Z) |     |     |     | (Z) | (Z) |

Telephone number: \_\_\_\_\_

#### EXAMPLE

| C   | H   | 1   | 4   | 4   | D   | C   |
|-----|-----|-----|-----|-----|-----|-----|
| (A) | (A) | (0) | (0) | (0) | (A) | (A) |
| (B) | (B) | (1) | (1) | (1) | (B) | (B) |
| (C) | (C) | (2) | (2) | (2) | (C) | (C) |
| (D) | (D) | (3) | (3) | (3) | (D) | (D) |
| (E) | (E) | (4) | (4) | (4) | (E) | (E) |
| (F) | (F) | (5) | (5) | (5) | (F) | (F) |
| (G) | (G) | (6) | (6) | (6) | (G) | (G) |
| (H) | (H) | (7) | (7) | (7) | (H) | (H) |
| (I) | (I) | (8) | (8) | (8) | (I) | (I) |
| (J) | (J) | (9) | (9) | (9) | (J) | (J) |

*(Ensure that you include your postcode for entry into the prize draw)*

**Gender:** Male ☐ Female ☐

**Age:** 16-24 years ☐ 45-54 years ☐  
25-34 years ☐ 55-64 years ☐  
35-44 years ☐ 65 plus ☐

**Marital Status:** Single ☐ Living together ☐  
Married ☐ Divorced ☐  
Widowed ☐ Separated ☐

**Family Details:** Number of people in household (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)  
Number of adults in household (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)  
Number of children in household (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)  
(aged under 16 years)

**Age of children if any** 0-5 (1) (2) (3) (4) (5)  
6-10 (1) (2) (3) (4) (5)  
11-15 (1) (2) (3) (4) (5)

**Accommodation:** Own home ☐ Rented ☐  
Shared ☐ Council ☐

**Qualifications:**

Which of the following do you have – mark all that apply

O Level or GCSE ☐  
A Level or Scottish Highers ☐  
HNC or HND ☐  
BSc/BA ☐  
Higher Degree (Masters or PhD) ☐  
Other (please write the box below) ☐  
None of the above ☐

If 'Other' please give details in this box

**Occupation:**

Who is the chief wage earner in your household? Self ☐  
Partner/Husband ☐  
Other (please write the box below) ☐

If 'Other' please give details in this box

What is the occupation of the chief wage earner?

What is their job title?

Thank you for completing this questionnaire  
Please return in the pre-paid envelope provided no later than Friday 2nd October 1998.  
Remember completed questionnaires, with postcode details, received by this date will be entered into a prize draw.