Supplementary report to the 2008 Survey of added colours in foods available in Australia

## Executive Summary

Following the publication in 2008 of the Survey of added colours in foods available in Australia (FSANZ 2008) Food Standards Australia New Zealand (FSANZ) has received new information which has allowed FSANZ to update the estimated dietary exposure of children to added colours. This new information includes:

- updated food consumption data from the 2007 Australian Children's Nutrition and Physical Activity Survey
- revised Acceptable Daily Intake (ADI) ${ }^{1}$ from the Joint FAONWHO Expert Committee on Food Additives (JECFA) for Quinoline Yellow and Sunset Yellow FCF and;
- typical use level data from the confectionery industry on the typical usage levels of five lake colours- Allura Red, Brilliant Blue, Indigotine (Indigo Carmine), Sunset Yellow FCF and Tartrazine.

Based on the new information, FSANZ has conducted an updated dietary exposure assessment for the Australian population sub-groups: children 2-5 years, 6-12 years and 1316 years. For the updated dietary exposure assessments, new data on typical manufacturer use levels for specific colours from the confectionary industry was combined with existing data from the 2008 Survey of added colours in foods available in Australia. To ensure the new data was robust, a comparison of the FSANZ 2008 analytical data was compared to the concentrations provided by industry, which showed negligible differences. This similarity provides confidence that the data provided by industry is representative of the use of lake colours in products in the Australian marketplace.

The mean (consumers only) and $90^{\text {th }}$ percentile (representing high consumers) estimated dietary exposures were calculated for each individual colour and population sub-group. Dietary exposures were calculated using the mean analytical concentrations obtained in the 2008 survey (to represent consumption of a range of brands and varieties of foods over time) and the maximum analytical concentrations (to estimate the potential exposures from always consuming products with the highest concentrations of each colour). The use of the maximum analytical concentrations results in an overestimation of exposure to colours in most cases but was included in order to investigate the 'worst case' scenario.

The estimates of exposure presented in this supplementary report to added colours in foods and beverages for all children aged 2-16 years in Australia, even for high consumers ( $90^{\text {th }}$ percentile) based on maximum analytical concentrations, are well within established ADIs.

The estimated dietary exposure to added colours for children aged 2-16 years of age is lower than reported in the 2008 colours survey. FSANZ has concluded that added colours do not pose a public health and safety concern for children in Australia as part of a balanced diet. FSANZ continues to monitor international developments on the permitted levels of added colours to foods and beverages.

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## Table of contents

Executive Summary ..... 2
Table of contents ..... 3
List of tables ..... 3
List of figures ..... 3
Abbreviations ..... 4
1 Background ..... 5
2 Objectives ..... 6
3 Methodology ..... 6
4 Results ..... 8
5 Risk characterisation ..... 14
6 Discussion ..... 17
7 Conclusion ..... 18
8 References ..... 19
9 Appendices ..... 20
List of tables
Table 1 Summary of the withdrawn and current JECFA Acceptable Daily Intakes (ADI) for Quinoline Yellow and Sunset Yellow FCF ..... 6
Table 2 ADIs used for added colours (see Table 1 for Quinoline Yellow and Sunset Yellow FCF ADIs) ..... 14
Table 3 Consumers at the $90^{\text {th }}$ percentile expressed as a percentage of the ADI using the maximum colours scenario ..... 17
List of figures
Figure 1 Estimated mean and $90^{\text {th }}$ percentile dietary exposures for consumers aged ..... 8
Figure 2 Major contributors to dietary exposures of individual colours for children aged 2-5 years ..... 9
Figure 3 Estimated mean and $90^{\text {th }}$ percentile dietary exposures for consumers aged 6-12 years* ..... 10
Figure 4 Major contributors to dietary exposures of individual colours for children aged 6-12 years ..... 11
Figure 5 Estimated mean and $90^{\text {th }}$ percentile dietary exposures for consumers aged $13-16$ years* ..... 12
Figure 6 Major contributors to dietary exposures of individual colours for children aged 13-16 years ..... 13
Figure 7 Estimated mean and maximum ( $90^{\text {th }}$ percentile) dietary exposure to added colours for children aged $2-5$ years as a percentage of the ADI ..... 15

Figure 8 Estimated mean and maximum ( $90^{\text {th }}$ percentile) dietary exposure to added colours for
children aged 6-12 years as a percentage of the ADI ....................................................................... 16
Figure 9 Estimated mean and $90^{\text {th }}$ percentile dietary exposure to added colours for children aged $13-16$ years as a percentage of the ADI

## Abbreviations

| ADI | Acceptable Daily Intake |
| :--- | :--- |
| FAO | Food and Agriculture Organization |
| EFSA | European Food Safety Authority |
| FSANZ | Food Standard Australia New Zealand |
| HBGV | Health-Based Guidance Values |
| JECFA | Joint FAO/WHO Expert Committee on Food Additives |
| LOD | Limit of Detection |
| LOQ | Limit of Quantification |
| LOR | Limit of Reporting |
| $\mathbf{m g} / \mathbf{k g}$ | Milligrams per kilogram |
| $\mathbf{m g / k g}$ bw | Milligrams per kilogram of body weight |
| WHO | World Health Organisation |

## 1 Background

This is a supplementary report to the 2008 Survey of added colours in foods available in Australia. This report is intended to supplement the content of the 2008 survey and the two reports should be read in conjunction.

Health-Based Guidance Values (HBGVs) are the quantitative expression of an oral exposure (either acute or chronic) that would be expected to be without appreciable health risk. An example is the ADI, which is the amount of a food additive that can be consumed on a daily basis over a lifetime without appreciable health risk.

Synthetic and natural colours are added to food and beverages routinely to give the perception of flavour and quality, to meet consumer expectations. The technological functions that colours perform include: offsetting colour loss that can be caused by processing conditions; enhancing colour already present in the food; and protecting flavours and vitamins that may be light sensitive.

In Australia, Standard 1.3.1- Food Additives of the Australia New Zealand Food Standards Code (the Code) lists colours permitted for use in food and beverages and the maximum permitted levels for adding colours to food. Like all food additives colours must be declared on the label in the list of ingredients.

### 1.1 2008 Survey of added colours in foods available in Australia

The 2008 Survey of added colours in foods available in Australia (FSANZ 2008) analysed the synthetic colours (dyes): Allura Red, Amaranth, Azorubine, Brilliant Black, Brilliant Blue, Brown HT, Erythrosine, Fast Green, Green S, Indigotine, Ponceau 4R, Quinoline Yellow, Sunset Yellow FCF, Tartrazine and two natural colours, Annatto and Cochineal/Carmine in a range of processed foods and beverages. The results of this survey indicated that estimated dietary exposure for a range of population sub-groups to added colours was below the relevant Acceptable Daily Intake (ADI) even for high consumers (FSANZ 2008).The results of this survey provided reassurance to consumers, that there is no human health and safety risk from consuming foods and beverages containing added colours as part of a balanced diet.

New information, available since the publication of the 2008 survey, is detailed below.

### 1.2 Consumption data from the 2007 Australian National Children's Nutrition and Physical Activity Survey

Since the FSANZ 2008 colours survey, updated consumption data from the 2007 Australian National Children's Nutrition and Physical Activity Survey (ANCNPAS), also known as Kids Eat Kids Play (KEKP) conducted by the Department of Health and Ageing has become available. Given the updated consumption data, dietary exposure estimates have been conducted by FSANZ to supplement the previous 2008 colours survey.

### 1.3 Revised JECFA ADIs

Since FSANZ completed its colours survey in 2008, the Joint FAO/WHO Expert Committee on Food Additives (JECFA) has reviewed the available toxicological data for Ponceau 4R, Quinoline Yellow and Sunset Yellow FCF. The outcome of this review has resulted in changes to the ADIs for Quinoline Yellow and Sunset Yellow FCF (Table 1).

Table 1 Summary of the withdrawn and current JECFA Acceptable Daily Intakes (ADI) for Quinoline Yellow and Sunset Yellow FCF

| Additive | Withdrawn <br> JECFA ADI* <br> (mg/kg bw) | Current <br> JECFA ADI <br> (mg/kg bw) | Comments |
| :---: | :---: | :---: | :---: |
| Quinoline <br> Yellow | $0-10$ | $0-5$ | JECFA established a temporary ADI pending <br> submission of requested data by 2013. |
| Sunset <br> Yellow FCF | $0-2.5$ | $0-4$ | JECFA concluded that the toxicological studies <br> completed since Sunset Yellow FCF was last reviewed <br> enabled the ADI to be revised. |

used in the 2008 Survey of added colours in foods available in Australia.
${ }^{\dagger}$ FAO/WHO (2011)

### 1.4 Lake colours

The FSANZ 2008 survey did not specifically analyse for synthetic colours in the 'lake' form. Lake colours are formed when a synthetic dye is combined with a metallic salt substrate such as aluminium hydroxide (Downham and Collins 2000). Due to their insolubility in water and stability to light, lake colours are generally used to colour the coating of panned sugar confectionery (Downham and Collins 2000). After the publication of the 2008 added colours survey, industry provided FSANZ with concentration data on the usage of lake colours in confectionery. This concentration data was used in the revised dietary exposure estimates for children aged 2-16 years.

### 1.5 Supplementary report

Given the number of changes that have occurred since the FSANZ 2008 survey, FSANZ has prepared a Supplementary report with revised estimates of dietary exposure to added colours for children, based on the new information outlined above.

## 2 Objectives

The objectives of the Supplementary report were to:

- Estimate the dietary exposure for Australian children aged 2-16 years to individual added colours using revised food consumption data and lake colour concentration data.
- Assess the revised estimated dietary exposure for children aged 2-16 years against the current JECFA ADI's to determine any potential human health and safety risks from the consumption of foods containing added colours.


## 3 Methodology

### 3.1 Sampling and method of analysis

For this report, no additional laboratory analysis was conducted to determine the concentration levels of added colours. For detailed information on the types of foods sampled and the method of analysis, please refer to the 2008 Survey of added colours in foods available in Australia (FSANZ 2008).

Data on the concentration of lake colours was provided to FSANZ from the confectionery industry. This new data has been combined with existing data from the 2008 Survey of added colours in foods available in Australia, for the purposes of the dietary exposure assessment. A comparison of the analytical data obtained during the 2008 survey to the concentrations later provided by industry showed negligible differences. This similarity (between FSANZ data and industry data) provides reassurance that the data provided by industry is representative of the use of lake colours in products in the Australian marketplace.

### 3.2 Dietary exposure assessment approach

A dietary exposure assessment (dietary modelling) is a tool used to estimate the exposure to (or intake of) agricultural and veterinary residues, contaminants, nutrients, food additives and other substances from the diet. To estimate dietary exposure to food chemicals, food consumption data is combined with food chemical concentration data. Food regulators have used dietary modelling techniques internationally for many years to determine if dietary exposures to specific food chemicals present an unacceptable risk to public health and safety. Full details of the dietary exposure assessment approach can be found in the 2008 Survey of added colours in foods available in Australia (FSANZ 2008).

The aim of dietary exposure assessments is to make as realistic an estimate of dietary exposure to food chemicals as possible. FSANZ always ensures the data and methodologies used for dietary exposure assessments are the most up-to-date and the best available. FSANZ notes any limitations associated with the dietary exposure assessment so that the results can be interpreted correctly. The assumptions and limitations for the revised dietary exposure estimates were the same as those listed in the 2008 Survey of added colours in foods available in Australia (FSANZ 2008).

ANCNPAS, was conducted involving 4,487 children aged 2-16 years. The survey employed a 24 hour recall, with a second 24 hour recall for all 2007 ANCNPAS participants, conducted on a non-consecutive day. The availability of two days of food consumption data for each respondent provides a more realistic estimate of long term consumption of infrequently consumed food because it takes account of those who may eat a food on one day of the survey but not on the other. Using one 24 hour recall may capture an unusual eating occasion for an individual that does not describe how they normally eat. The ANCNPAS was conducted over a seven month time period, from February to August 2007, and the results were released in 2008 with almost 4,000 unique foods were reported as consumed. This data has been used in the dietary exposure assessments for added colours for children aged $2-16$ years. The results of the 2007 ANCNPAS were weighted to represent the overall population of Australian children because stratified sampling with non-proportional samples were used in the ANCNPAS survey (full details of the sampling process for the survey can be found on the Australian Department of Health and Ageing website).

Since the 2008 colours survey was conducted, concentration data has been provided to FSANZ by industry for a number of lake colours. Due to the marginal changes in the data the modifications to the dietary exposure assessment using the 1995 National Nutrition Survey (NNS) was minimal for adults and therefore not presented in this supplementary report. The new concentration data has been incorporated into the dietary modelling using the 2007 ANCNPAS consumption data.

Dietary exposure estimates for consumers of foods assumed to contain added colours using the 2007 ANCNPAS consumption data were calculated for two scenarios: the 'mean colours scenario' and the 'maximum colours scenario'. The mean colours scenario used mean analytical concentration results and is considered a more realistic representation of dietary exposure to added colours. The maximum colours scenario uses maximum analytical
concentration data and is a conservative approach used to represent a 'worst case' estimate. More details of the mean and maximum colours scenarios as well as a full food list and colour concentrations used in the dietary modelling were provided in the 2008 Survey of added colours in foods available in Australia. The mean consumption amounts of each food for each age group used in this report are provided in Appendix 1.

## 4 Results

### 4.1 Mean colours scenario

The results of the dietary exposure assessment for the mean colours scenario are summarised below. Detailed findings for both the mean colours scenario and maximum colours scenario are provided in Table A2.1 of Appendix 2.

## Children aged 2-5 years

The estimated mean and $90^{\text {th }}$ percentile (high consumers) dietary exposures (mean colours scenario) for children aged $2-5$ years consuming food containing added colours are shown in Figure 1.

Mean and $90^{\text {th }}$ percentile dietary exposures to individual added colours for consumers aged $2-5$ years were estimated to be lowest for Green S (0.001-0.002 mg/day respectively) and highest for Tartrazine ( 0.52 and $1.3 \mathrm{mg} /$ day respectively).


Note: Only those colours with reported analytical detections have been graphed.

* Mean colours scenario

Figure 1 Estimated mean and $90^{\text {th }}$ percentile dietary exposures for consumers aged 2-5 years*

## Major contributing foods

The major contributors ( $\geq 5 \%$ ) to the overall estimated dietary exposures to individual added colours from food and beverages for children aged 2-5 years are shown in Figure 2.

*Note: Per cent contribution of each food group is based on total dietary exposure for all consumers in the 2-5 years age group. Only those colours that were found in three or more food groups have been graphed. If the food is not a major contributor for the population sub-group it is not shown in the graph.

Figure 2 Major contributors to dietary exposures of individual colours for children aged 2-5 years

For each colour, foods and beverages that made the greatest contribution to estimated dietary exposure in children aged 2-5 years were:

- Allura Red - Confectionery and ice cream and edible ices
- Amaranth - Cordial and ice cream and edible ices
- Annatto - Ice cream and edible ices and margarine spread
- Azorubine - Breakfast cereal and cordial
- Brilliant Black - Confectionery (including sugar and chocolate types) and cakes, muffins and pastries
- Brilliant Blue - Flavoured milk and ice cream and edible ices
- Brown HT - Cakes, muffins and pastries and flavoured milk
- Carminic acid - Yoghurt and savoury sauces
- Green S - Jelly
- Indigotine - Ice cream and edible ices and confectionery
- Ponceau 4R - Ice cream and edible ices and cakes, muffins and pastries
- Quinoline Yellow - Cakes, muffins and pastries and sweet biscuits
- Sunset Yellow FCF - Soft drink and savoury snack foods
- Tartrazine - Ice cream and edible ices and cakes, muffins and pastries

More specific details about the major food group contributors for each added colour are presented in Table A3.1 of Appendix 3.

## Children aged 6-12 years

The estimated mean and $90^{\text {th }}$ percentile dietary exposure (mean colours scenario) for children aged 6-12 years consuming food containing added colours are shown in Figure 3.

The mean and $90^{\text {th }}$ percentile dietary exposures to individual colours for children aged 6-12 years were estimated to be lowest for Green S ( $0.002-0.003 \mathrm{mg} / \mathrm{day}$ respectively). The highest mean estimated dietary exposure was from Tartrazine ( $0.82 \mathrm{mg} / \mathrm{day}$ ) and the highest $90^{\text {th }}$ percentile estimated dietary exposure was from Sunset Yellow FCF ( $2.22 \mathrm{mg} / \mathrm{day}$ ).


Note: Only those colours with reported dietary exposures have been graphed.

* Mean colours scenario

Figure 3 Estimated mean and $90^{\text {th }}$ percentile dietary exposures for consumers aged 612 years*

## Major contributing foods

The major contributors ( $\geq 5 \%$ ) to the overall estimated dietary exposures to individual added colours from food and beverages for children aged 6-12 years are shown in Figure 4. More specific details regarding the major food group contributors for each added colour for this age group are presented in Table A3.2 of Appendix 3.

*Note: Per cent contribution of each food group is based on total dietary exposure for all consumers in the 2-5 years age group. Only those colours that were found in three or more food groups have been graphed. If the food is not a major contributor for the population sub-group it is not shown in the graph.

Figure 4 Major contributors to dietary exposures of individual colours for children aged 6-12 years

For each colour, foods and beverages that made the greatest contribution to dietary exposure in children aged 6-12 years were:

- Allura Red - Confectionary and soft drink
- Amaranth - Soft drink and ice cream and edible ices
- Annatto - Ice cream and edible ices and margarine spread
- Azorubine - Ice cream and edible ices and breakfast cereal
- Brilliant Black - Confectionary and cakes, muffins and pastries
- Brilliant Blue - Soft drink and flavoured milk
- Brown HT - Cakes, muffins and pastries and flavoured milk
- Carminic acid - Savoury sauces and yoghurt
- Green S - Jelly
- Indigotine - Ice cream and edible ices and confectionary
- Ponceau 4R - Ice cream and edible ices and cakes, muffins and pastries
- Quinoline Yellow - Sweet biscuits and cakes, muffins and pastries
- Sunset Yellow FCF - Soft drink and ice cream and edible ices
- Tartrazine - Ice cream and edible ices and soft drink.


## Children aged 13-16 years

The estimated mean and $90^{\text {th }}$ percentile dietary exposures to added colours for children aged 13-16 years consuming food containing colours are shown in Figure 5.

The mean and $90^{\text {th }}$ percentile dietary exposure to individual added colours for consumers aged 13-16 years were estimated to be in the range of $0.001-0.96 \mathrm{mg} /$ day and $0.004-2.57$ $\mathrm{mg} /$ day, respectively. The highest mean and $90^{\text {th }}$ percentile dietary exposure for children aged 13-16 years was from Sunset Yellow FCF. The lowest mean and $90^{\text {th }}$ percentile estimated dietary exposures were from Green S.


Note: Only those colours with reported dietary exposures have been graphed.

* Mean colours scenario

Figure 5 Estimated mean and $90^{\text {th }}$ percentile dietary exposures for consumers aged 13-16 years*

## Major contributing foods

The major contributors ( $\geq 5 \%$ ) to the overall estimated dietary exposures to individual added colours from food and beverages for children aged 13-16 years are shown in Figure 6. More specific details regarding the major food group contributors for each added colour for this age group are presented in Table A3.3 of Appendix 3.


Figure 6 Major contributors to dietary exposures of individual colours for children aged 13-16 years

For each colour, foods and beverages that made the greatest contribution to dietary exposure in children aged 13-16 years were:

- Allura Red - Soft drink and confectionary
- Amaranth - Soft drink and ice cream and edible ices
- Annatto - Ice cream and edible ices and margarine spread
- Azorubine - Soft drink and breakfast cereal
- Brilliant Black - Confectionary and cakes, muffins and pastries
- Brilliant Blue - Soft drink and flavoured milk
- Brown HT - Cakes, muffins and pastries and flavoured milk
- Carminic acid - Savoury sauces and yoghurt
- Green S - Jelly
- Indigotine - Ice cream and edible ices and confectionary
- Ponceau 4R - Ice cream and edible ices and cakes, muffins and pastries
- Quinoline Yellow - Sweet biscuits and cakes, muffins and pastries
- Sunset Yellow FCF - Soft drink and ice cream and edible ices
- Tartrazine - Ice cream and edible ices and soft drink.


### 4.2 Maximum colours scenario

An assessment of estimated dietary exposures to individual added colours at the $90^{\text {th }}$ percentile (consumers only) using maximum colour concentrations found:

- Dietary exposures to individual added colours for children aged $2-5$ years at the $90^{\text {th }}$ percentile were estimated to be in the range of $0.05-6.6 \mathrm{mg} /$ day.
- Dietary exposures to individual added colours for children aged 6-12 years at the $90^{\text {th }}$ percentile were estimated to be in the range of $0.07-11.01 \mathrm{mg} /$ day .
- Dietary exposures to individual added colours for children aged 13-16 years at the $90^{\text {th }}$ percentile were estimated to be in the range of $0.09-12.2 \mathrm{mg} /$ day.
- For all age groups studied, the highest mean dietary exposure was from Tartrazine and the lowest was from Green S.


## 5 Risk characterisation

In November 2009, the European Food Safety Authority (EFSA) established health-based guidance values (ADI) for Ponceau 4R, Quinoline Yellow and Sunset Yellow FCF of 0.7, 0.5 and $1 \mathrm{mg} / \mathrm{kg}$ bw respectively (EFSA 2009a, b,c). Since these values were substantially lower than the ADI values established by JECFA many years earlier all the available toxicological data for these three colours was reviewed by JECFA at its $74^{\text {th }}$ meeting (FAO/WHO 2011). At the $74^{\text {th }}$ JECFA meeting the Committee noted that many of the key toxicological studies had not been considered in the EFSA review. The changes made by JECFA at its 74th meeting to the Quinoline Yellow and Sunset Yellow FCF ADI values are listed in Table 1. In this supplementary report the estimated dietary exposures, using mean concentration data, for these colours were compared with their respective JECFA ADI. ADIs for all other colours remain unchanged and are those used in the 2008 Survey report, as set out in Table 2.

Table 2 ADIs used for added colours (see Table 1 for Quinoline Yellow and Sunset Yellow FCF ADIs)

| INS | Additive | JECFA ADI <br> (mg/kg bw) |
| :---: | :---: | :---: |
| 129 | Allura Red | $0-7$ |
| 123 | Amaranth | 0.05 |
| 160 b | Annatto | $0-0.4$ |
| 122 | Azorubine | $0-4$ |
| 151 | Brilliant Black | $0-1$ |
| 133 | Brilliant Blue | $0-12.5$ |
| 155 | Brown HT | $0-1.5$ |
| 120 | Cochineal/Carmine | $0-5$ |
| 127 | Erythrosine | $0-0.1$ |
| 143 | Fast Green | $0-25$ |
| 142 | Green S | $0-5$ |
| 132 | Indigotine | $0-5$ |
| 124 | Ponceau 4R | $0-4$ |
| 102 | Tartrazine | $0-7.5$ |

Children aged 2-5 years had mean and maximum ( $90^{\text {th }}$ percentile) estimated dietary exposure below $5 \%$ of the acceptable daily intake (ADI) for all added colours (Figure 7). The colours with the highest mean and maximum ( $90^{\text {th }}$ percentile) estimated dietary exposure expressed as a percentage of their respective ADIs were Annatto and Brown HT.


Figure 7 Estimated mean and maximum ( $90^{\text {th }}$ percentile) dietary exposure to added colours for children aged $2-5$ years as a percentage of the ADI

All children aged 6-12 years had mean and $90^{\text {th }}$ percentile estimated dietary exposure below $5 \%$ of the ADI for all added colours (Figure 8). The colours with the highest mean and $90^{\text {th }}$ percentile estimated dietary exposure expressed as a percentage of their respective ADIs were also Annatto and Brown HT.


Figure 8 Estimated mean and maximum ( $90^{\text {th }}$ percentile) dietary exposure to added colours for children aged 6-12 years as a percentage of the ADI

Children aged 13-16 years had mean and maximum ( $90^{\text {th }}$ percentile) estimated dietary exposures below $5 \%$ of the acceptable daily intake (ADI) for all added colours (Figure 9). The colours with the highest mean and maximum ( $90^{\text {th }}$ percentile) estimated exposures expressed as a percentage of their respective ADIs were Brown HT and Annatto.


Figure 9 Estimated mean and $90^{\text {th }}$ percentile dietary exposure to added colours for children aged 13-16 years as a percentage of the ADI

The exposure to each colour was calculated as a percentage of the ADI for $90^{\text {th }}$ percentile (high consumers) in the maximum colours scenario. Table 3 shows the reduction in exposure as a percentage of the ADI between the results reported in the 2008 survey report and this 2012 supplementary report for Amaranth. In the 2008 colours survey, exposure to Amaranth was the highest as a percentage of the ADI at $85 \%$ for $2-5$ year old consumers at the $90^{\text {th }}$ percentile (high consumers). The revised dietary exposure to Amaranth for 2-5 year old consumers at the $90^{\text {th }}$ percentile (high consumers) was lower at $31 \%$ of the ADI. This trend was also observed for 6-12 year old consumers at the $90^{\text {th }}$ percentile (high consumers) for Amaranth (Table 3).

Table 3 Consumers at the $90^{\text {th }}$ percentile expressed as a percentage of the ADI using the maximum colours scenario

| Colour | Consumers aged 2-5 years |  | Consumers aged 6-12 years |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2008 survey | 2012 report | 2008 survey | 2012 report |
| Amaranth | $85 \%$ | $31 \%$ | $65 \%$ | $34 \%$ |

Please refer to Appendix 4, for complete information on the dietary exposure assessment results for the maximum colours scenario.

## 6 Discussion

The findings of this revised dietary exposure assessment showed an overall reduction in estimated dietary exposure to colours in 2 to 16 year olds in comparison to the FSANZ 2008 colour survey. For example, the dietary exposure to Sunset Yellow FCF for high consumers aged 13-16 years was estimated to be $2.57 \mathrm{mg} /$ day in the current study. When this exposure is compared to the high consumers for a similar age group (13-18 years) in the 2008 survey, the dietary exposure to Sunset Yellow FCF was $5.19 \mathrm{mg} / \mathrm{day}$. This equates to a reduction from $5 \%$ of the ADI in 2008 to $1 \%$ of the JECFA ADI in the current supplementary report. There was a reduction in both the estimated exposure (mg/day) and percentage of the ADI for all colours investigated in this supplementary report.

Across the two studies, the major contributors of dietary exposure to added colours in all age groups generally remained consistent. The reduction in estimated dietary exposure levels expressed as a percentage of the respective ADI for some added colours may be a result of some or all of the following factors:

- The inclusion of the recent 2007 ANCNPAS survey consumption data rather than the 1995 NNS consumption survey used in the FSANZ 2008 colours survey may mean there are different food consumption amounts for some food groups assumed to contain added colours.
- The 2007 ANCNPAS survey contains a second non-consecutive day of recall data which provides a more realistic estimate of 'usual' consumption and results in a distribution of dietary exposure estimates such that the $90^{\text {th }}$ percentile value is closer to the centre of the distribution than it would be if based on records for one day only. The 1995 NNS had records for one day per person.
- The revision of the ADI for Sunset yellow FCF, where the ADI was increased from 0$2.5 \mathrm{mg} / \mathrm{kg} / \mathrm{bw}$ to $0-4 \mathrm{mg} / \mathrm{kg} \mathrm{bw}$.

In the current study the dietary exposure was also calculated for the Maximum Colours Scenario. In this scenario high consumers ( $90^{\text {th }}$ percentile) of food and beverages containing colours were also well below the respective JECFA ADI for each added colour. The highest dietary exposure was estimated for Tartrazine at 12.2 mg /day in 2012 compared to 26.71 $\mathrm{mg} /$ day in the 2008 colours survey (FSANZ 2008), resulting in a reduction in estimated dietary exposure to Tartrazine as a percentage of the JECFA ADI from 6\% in 2008 (FSANZ 2008) to $0.5 \%$ of the JECFA ADI in 2012. The estimated dietary exposure to Amaranth was calculated as part of the maximum colours scenario in 2008 and was found to be $85 \%$ of the JECFA ADI for consumers aged 2-5 years at the $90^{\text {th }}$ percentile (high consumers). In the 2012 revised estimate this decreased to $31 \%$ of the JECFA ADI.

In summary, the estimated dietary exposure to added colours in food and beverages does not pose a health concern to Australian consumers, in particular children. The 2008 colours survey (FSANZ 2008) also concluded that exposure levels to added colours in food and beverages did not pose a public health and safety concern for Australian adults. Together, these two reports provide reassurance that estimated dietary exposure to added colours in foods and beverages is not a public health and safety concern for the Australian population.

## 7 Conclusion

This report confirms the findings of the FSANZ 2008 added colours survey for children. It reiterates that the current estimated dietary exposure of children to added colours in food and beverages in Australia remains well within the ADI. For each colour investigated in this report, the estimated dietary exposure was $<5 \%$ of the ADI in all cases, including for high consumers. The findings of this report confirm that dietary exposure to added colours in food and beverages does not pose a public health and safety concern for children in Australia.

As there are no public health and safety concerns for children or adults in Australia arising from eating foods containing these colours, FSANZ does not propose any immediate risk management action. However, FSANZ will continue to monitor international developments and changes to permissions for added colours in foods and beverages.

Notwithstanding the conclusion, FSANZ recognises that some people prefer to avoid certain food colourings. For this reason, any colouring additive in a food must be declared on the label of that food. Consumers can use this label information to identify products where they are present and avoid such products if they wish to do so.

## 8 References

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## 9 Appendices

Appendix $1 \quad$ Table A1.1: Mean food consumption for consumers

| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Advocaat | NC | NC | NC |
| Bacon | 22 | 26 | 30 |
| Bar, Chocolate, Cherry/Fruit | 16 | 21 | 23 |
| Bar, Fruit Based | 21 | 22 | 20 |
| Bar, Fruit Based, with Cereal-based Coating | NC | NC | NC |
| Bar, Peppermint Crackle, Choc Coated | NC | 12 | 26 |
| Bar, Wafer, nuts, caramel, choc coated | 11 | 17 | 24 |
| Bar, Yoghurt Based, Rice Crisp, Choc | 10 | 12 | 10 |
| Beef, crumbed | NC | NC | NC |
| Beverage Flavouring, Dry Mix, Non-Chocolate | 4 | 4 | 5 |
| Beverage Flavouring, Non-Chocolate | 12 | 22 | NC |
| Biscuit Mix, Dry | NC | NC | NC |
| Biscuit, Sweet, Choc Chip/Dipped | 13 | 16 | 19 |
| Biscuit, Sweet, Choc Coated | NC | NC | 3 |
| Biscuit, Sweet, Fruit Filled | 11 | 15 | 15 |
| Biscuit, Sweet, Jam Filled | 17 | 15 | 21 |
| Biscuit, Sweet, Sandwich, Cream \& Jam Filled | 17 | 15 | 25 |
| Biscuit, Sweet, Sandwich, Cream Filled | 14 | 18 | 21 |
| Biscuit, Sweet, Wafer, Chocolate Cream Filled | 16 | 11 | 12 |
| Biscuit, Sweet, Wafer, Cream Filled, Non-chocolate | 8 | 13 | 18 |
| Biscuit, Sweet, Tartlet | 8 | 7 | NC |
| Biscuits, Savoury, Flavoured | 16 | 19 | 23 |
| Biscuits, Savoury, Rice Crackers | NC | NC | NC |
| Biscuits, Sweet, Fruit | 15 | 9 | 24 |

[^1]| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Biscuits, Sweet, Iced | 12 | 14 | 15 |
| Biscuits, Sweet, Marshmallow | 9 | 15 | 16 |
| Biscuits, Sweet, Marshmallow \& Jam, Choc Coated | 12 | 16 | 22 |
| Biscuits, Sweet, Plain | 14 | 16 | 21 |
| Boiled Lolly | 8 | 11 | 10 |
| Breakfast Bar, Not Further Specified | 12 | 14 | 16 |
| Breakfast Cereal, Biscuit, Fruit | 25 | 26 | 36 |
| Breakfast Cereal, Biscuit, No Fruit | 20 | 28 | 41 |
| Breakfast Cereal, Bran | 22 | 38 | 60 |
| Breakfast Cereal, Coloured | 21 | 23 | 37 |
| Breakfast Cereal, Puffed/Formed/Flakes, Fruit | 24 | 41 | 54 |
| Breakfast Cereal, Puffed/Formed/Flakes, No Fruit | 21 | 31 | 42 |
| Bun, Sweet, Iced | 29 | 37 | 35 |
| Cake, Chocolate, Dry Mix | NC | NC | NC |
| Cake, Chocolate, Iced/Uniced | 33 | 46 | 48 |
| Cake, Fruit | 25 | 44 | 63 |
| Cake, Lamington | 24 | 31 | 35 |
| Cake, Not Further Specified | 26 | 45 | 67 |
| Cake, Plain Dry Mix | NC | NC | NC |
| Cake, Plain/Flavoured Iced | 30 | 28 | 30 |
| Cake, Plain/Flavoured Uniced | 34 | 42 | 46 |
| Cake, Sponge, Choc, Cream Filled | 16 | 33 | 42 |
| Cake, Sponge, Roll Jam/Cream | 23 | 35 | 46 |
| Cake, Sultana/Date Iced/Uniced | 48 | 64 | 63 |
| Cake, Tea | NC | NC | NC |
| Caramel/Toffee, Choc Coated | 13 | 14 | 15 |
| Cheese Spread | 11 | 7 | 12 |

[^2]| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Cheese, Bocconcini/Mozarella | 19 | 22 | 38 |
| Cheese, Cheddar | 19 | 22 | 26 |
| Cheese, Colby | 20 | 22 | 21 |
| Cheese, Edam/Gouda | 12 | 12 | 20 |
| Cheese, Processed | 14 | 15 | 15 |
| Cheese, Processed Light | 14 | 14 | 15 |
| Cheesecake, Fruit Topped | 15 | 45 | 66 |
| Chewing Gum | 3 | 4 | 3 |
| Chips, Hot Potato | 47 | 65 | 84 |
| Chocolate, Candy Coated | 10 | 13 | 29 |
| Chocolate, Filled | 10 | 20 | 22 |
| Coconut Ice | 48 | 18 | 21 |
| Cones, Ice cream | 3 | 4 | 5 |
| Confectionery, CHO Modified, Not Chocolate | 5 | 9 | 8 |
| Confectionery, Sugar Type Soft/Jelly | 11 | 19 | 35 |
| Cordial Concentrate, Blackcurrant | 23 | 27 | 50 |
| Cordial Concentrate, Citrus | 31 | 38 | 49 |
| Cordial Concentrate, Non-Citrus | 33 | 31 | 37 |
| Cordial, Blackcurrant | 128 | NC | NC |
| Cordial, Citrus | 67 | 151 | 105 |
| Cordial, Not Further Specified | 121 | 168 | 260 |
| Cordial, Non-Citrus | NC | 142 | NC |
| Corn Relish | 3 | 3 | 5 |
| Crème Caramel | NC | NC | NC |
| Crisp, Corn | 15 | 27 | 38 |
| Crisp, Potato, Flavoured | 15 | 17 | 15 |
| Crisp, Prawn | 8 | 13 | 15 |

[^3]| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Curry Paste | 3 | 9 | 6 |
| Custard Powder, Dry | NC | NC | NC |
| Custard, Vanilla | 81 | 103 | 109 |
| Custard/Dairy Dessert, Chocolate | 83 | 74 | 74 |
| Dairy Dessert, Chocolate, Dry Mix | NC | NC | NC |
| Dairy Dessert, Other Flavours | 76 | 80 | 83 |
| Dairy Dessert, Vanilla, Dry Mix | NC | NC | NC |
| Dips | 19 | 17 | 19 |
| Donuts, Pink Topping | 34 | 38 | 51 |
| Dressing, thousand island | 5 | 9 | 10 |
| Drink Base, Fruit | NC | 4 | NC |
| Dry Drink Base, Fruit | 3 | NC | 1 |
| Fish Fingers | 40 | 45 | 61 |
| Fish, Battered/Crumbed | 44 | 57 | 78 |
| Flavoured Milk, Chocolate | 127 | 184 | 218 |
| Flavoured Milk, Coffee | 74 | 181 | 307 |
| Flavoured Milk, Other | 148 | 169 | 227 |
| Frankfurters | 35 | 36 | 44 |
| Fromage Frais, Fruit Flavour | NC | NC | NC |
| Fruit Chutney | 11 | 9 | 16 |
| Fruit Drink, Apple | 116 | 143 | 135 |
| Fruit Drink, Apple Blackcurrant | 97 | 173 | 186 |
| Fruit Drink, Grape | NC | NC | NC |
| Fruit Drink, Lemon | NC | NC | NC |
| Fruit Drink, Orange | 139 | 164 | 232 |
| Fruit Drink, Orange Mango | 144 | 178 | 290 |
| Fruit Drink, Pineapple | 150 | 147 | 154 |

NC = Not Consumed

| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Fruit Drinks, Other Flavours | 127 | 153 | 160 |
| Fruit Leather, Sugar Added | 9 | 11 | 10 |
| Gherkins | 19 | 7 | 7 |
| Glace Cherry | 5 | NC | NC |
| Ice Confection, Water/Juice based, Not Further Specified | 38 | 53 | 66 |
| Ice Cream Vanilla, Choc Fudge | 44 | 77 | 97 |
| Ice Cream, Caramel/Coffee | 14 | 59 | 60 |
| Ice Cream, Chocolate, Choc Chip | NC | NC | NC |
| Ice Cream, Chocolate, Confectionery/Nut | NC | 84 | 56 |
| Ice Cream, Chocolate, Not Further Specified | NC | NC | NC |
| Ice Cream, Chocolate, No Additions | 41 | 58 | 72 |
| Ice Cream, Filled Cone, All Flavours, Choc/Nut Top | NC | NC | NC |
| Ice Cream, Low Fat, Choc | NC | NC | NC |
| Ice Cream, Not Further Specified | 133 | 155 | 169 |
| Ice Cream, Other Flavours | 44 | 56 | 79 |
| Ice Cream, Other Flavours, Nuts/Confectionery/Additions | NC | NC | NC |
| Ice Cream, Stick/Bar, Choc, Choc Coated | 34 | 34 | 34 |
| Ice Cream, Stick/Bar, Chocolate | 31 | 46 | 38 |
| Ice Cream, Stick/Bar, Flavoured, Choc Coated | 34 | 34 | 34 |
| Ice Cream, Stick/Bar, Not Further Specified | NC | NC | NC |
| Ice Cream, Stick/Bar, Other Flavours | 33 | 35 | 35 |
| Ice Cream, Stick/Bar, Other Flavours, Biscuit \& Choc coated | 30 | 37 | 40 |
| Ice Cream, Stick/Bar, Regular Fat, Choc Coated | NC | NC | NC |
| Ice Cream, Stick/Bar, Vanilla, Choc Coated | 30 | 39 | 39 |
| Ice Cream, Stick/Bar, Vanilla, Choc/Nut Coated | 32 | 46 | 34 |
| Ice Cream, Vanilla | 33 | 54 | 65 |
| Ice Cream, Vanilla \& Fruit | 25 | 48 | 95 |

[^4]| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Ice Cream, Vanilla, Confectionery | 29 | 48 | 71 |
| Ice Cream, Vanilla, Confectionery/Fruit | 52 | 46 | 61 |
| Ice Cream, Vanilla, No Additions, Low Fat | NC | NC | 90 |
| Indian Curry Dish | 57 | 128 | 117 |
| Jam, All Flavours | 8 | 10 | 12 |
| Jam, Artificially Sweetened | 3 | 7 | 12 |
| Jelly Crystals | NC | 27 | NC |
| Jelly Crystals, Made up | 70 | 86 | 81 |
| Juice, Apple \& Blackcurrant | 158 | 195 | 210 |
| Juice, Carrot | NC | NC | NC |
| Juice, Grape | 101 | 154 | 171 |
| Juice, Not Further Specified | NC | NC | NC |
| Juice, Orange | 114 | 163 | 203 |
| Juice, Orange Mango | 123 | 172 | 206 |
| Juice, Pear | 93 | 105 | NC |
| Juice, Pineapple or Prune | 96 | 141 | 161 |
| Juice, Tropical | 119 | 150 | 197 |
| Lasagne, Meat | 101 | 135 | 175 |
| Lasagne, Vegetable | 28 | 35 | 222 |
| Liqueur, Coffee Flavour | NC | NC | 17 |
| Liqueur, Other Flavours | NC | NC | NC |
| Liquorice, Allsorts | 21 | 10 | 6 |
| Liquorice, Plain | 10 | 22 | 34 |
| Luncheon Meat | 26 | 25 | 34 |
| Margarine/Margarine Spread | 6 | 7 | 8 |
| Margarine/Margarine Spread, Reduced Fat | 6 | 7 | 7 |
| Marshmallow | 8 | 13 | 11 |

NC = Not Consumed

| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Mineral Water, Fruit | 113 | 194 | 203 |
| Mixed Alcoholic Drinks, Creamy | 28 | NC | NC |
| Mixed Alcoholic Drinks, Non-Cola, with Vodka | NC | 32 | 677 |
| Mousse, Chocolate | 47 | 71 | 66 |
| Muesli Bar, Fruit | 17 | 17 | 21 |
| Muesli Bar/Bar, with Yoghurt | 17 | 19 | 22 |
| Muffins, Sweet, Chocolate | 23 | 39 | 73 |
| Mustard Pickle | 4 | 4 | 6 |
| Noodle, Asian Style Sauce | 126 | 186 | 216 |
| Noodle, Asian Style, Not Specified as to type, Cooked | NC | NC | NC |
| Noodle, Asian Style, Not Specified as to type, Uncooked | NC | NC | NC |
| Noodles, Asian Style Egg, Cooked | NC | NC | NC |
| Noodles, Asian Style Egg, Uncooked | NC | NC | NC |
| Noodles, Asian Style Wheat, Cooked | 34 | 78 | 73 |
| Noodles, Asian Style Wheat, Uncooked | 52 | 60 | 109 |
| Noodles, Asian Style, Fried | NC | 84 | NC |
| Noodles, Instant, Cooked | 65 | 95 | 125 |
| Noodles, Instant, Uncooked | 23 | 43 | 40 |
| Other Vegetable Juices | 180 | 131 | 142 |
| Pasta \& Sauce Dry Mix, Cream Based | 5 | 16 | 8 |
| Pasta \& Sauce, Cream Based | 66 | 103 | 180 |
| Pasta \& Sauce, Tomato Based | 62 | 68 | 89 |
| Pasta, Cheese Filled, Cooked | 44 | 55 | NC |
| Pasta, Egg, Cooked | 53 | 34 | 117 |
| Pasta, Egg, Uncooked | 50 | 80 | 27 |
| Pasta, Filled Not Further Specified | NC | NC | NC |
| Pasta, Meat Filled, Cooked | 70 | 99 | 172 |

[^5]| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Pate, Seafood | NC | NC | NC |
| Peanuts, Choc Coated, Candy Shell | NC | 92 | 40 |
| Pie, Apple | 50 | 71 | 111 |
| Pie, Cheese and Spinach | 59 | 82 | 90 |
| Pie, Chicken \& Vegetable | 72 | 111 | 109 |
| Pie, Custard | 41 | 41 | 59 |
| Pie, Lemon Meringue | NC | 46 | 128 |
| Pie, Meat | 65 | 86 | 102 |
| Pie, Meat, Reduced Fat | NC | NC | NC |
| Pie, Shepherds | 80 | 104 | 168 |
| Pie, Steak \& Bacon | 44 | 83 | 115 |
| Pie, Sweet | 14 | 26 | 26 |
| Pizza, Meat | 68 | 105 | 146 |
| Pizza, No Meat | 45 | 73 | 146 |
| Popcorn, flavoured | NC | NC | NC |
| Popcorn, Sugar Coated, Coloured | 9 | 10 | 15 |
| Pork Bun | NC | NC | NC |
| Salami | 11 | 14 | 25 |
| Sauce, Bearnaise | NC | NC | 3 |
| Sauce, Cheese | 15 | 31 | 43 |
| Sauce, Cheese, Dry Mix | NC | NC | NC |
| Sauce, Plum | 16 | 16 | 19 |
| Sauce, Seafood Cocktail | NC | NC | NC |
| Sauce, Simmer, Indian Curry | 9 | 27 | 31 |
| Sauce, White | 53 | 58 | 68 |
| Sauce, White, Dry Mix | 9 | 6 | NC |
| Sausage Roll | 42 | 63 | 73 |

NC = Not Consumed

| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :---: | :---: | :---: | :---: |
|  | 2-5 years | 6-12 years | 13-16 years |
| Sausage, Continental | 27 | 42 | 53 |
| Sherbet | 11 | 10 | 11 |
| Slice, Choc, Dry Mix | NC | NC | NC |
| Slice, Not Further Specified | 20 | 38 | 44 |
| Snack, Cheese Flavour, Extruded | 14 | 16 | 17 |
| Snack, Chick Pea Based | NC | NC | NC |
| Snack, Non-Cheese Flavour, Extruded | 13 | 13 | 20 |
| Soft Drink, Energy Drink | NC | 200 | 211 |
| Soft Drink, Lemonade | 121 | 199 | 248 |
| Soft drink, Not Further Specified | 111 | 187 | 213 |
| Soft Drink, Non-Fruit | 110 | 176 | 263 |
| Soft Drink, Other Fruit | 116 | 182 | 213 |
| Soy Beverage, Chocolate | 193 | NC | 187 |
| Soy Beverage, Other Flavours | 204 | 147 | 194 |
| Sports Drink, All Flavours | 324 | 280 | 316 |
| Spring Roll/Dim Sim Meat/Vegetable | 43 | 51 | 86 |
| Stick/Bar, Vanilla Ice Cream, Fruit Ice Confection | 18 | 25 | NC |
| Thick shake, Strawberry | 150 | 182 | 196 |
| Topping, Caramel | 16 | 10 | 18 |
| Topping, Chocolate | 12 | 15 | 25 |
| Topping, Other Flavours | 11 | 20 | 15 |
| Turkish Delight, Choc Coated | NC | 10 | 12 |
| Vodka | NC | NC | 5 |
| Vol au Vent, Cheese \& Vegetable | NC | NC | NC |
| Wedges | 33 | 57 | 73 |
| Yoghurt, Frozen, Fruit Flavour | 48 | 77 | 77 |
| Yoghurt, Fruit/Muesli | 78 | 80 | 116 |

[^6]
## Food name

Mean food consumption for consumers (grams per day)

| Food name | Mean food consumption for consumers (grams per day) |  |  |
| :--- | :---: | :---: | :---: |
|  | 2-5 years | $\mathbf{6 - 1 2}$ years | 13-16 years |
| Yoghurt, Not Further Specified |  | 76 | 70 |
| Yoghurt, Plain | 53 | 77 | 94 |
| Yoghurt, Vanilla | 76 | 86 | 131 |

NC = Not Consumed

## Appendix 2

Table A2.1: Mean and maximum food sub-group concentrations ( $\mathrm{mg} / \mathrm{kg}$ ) used in the dietary modelling

| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & 0.0 \\ & \text { O. } \\ & \text { 링 } \\ & \text { N } \end{aligned}$ |  |  | © N N 末 ■ |  |  | $\begin{aligned} & \text { 읓 } \\ & \text { 응 } \\ & \text { 읒 } \end{aligned}$ |  |  | $\begin{aligned} & \text { 도 } \\ & \text { ᄃ } \\ & \frac{1}{3} \\ & \text { ò } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | Fruit Drink, Orange | 243, 441 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Fruit Drink, Orange Mango | 248, 437 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | Cordial, Blackcurrant (as consumed basis) | 231, 232, 517, 521 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 1.25 | 0 | 0 | 0 | 0 | 0 | 0.125 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 |
| 15 | Cordial, Citrus (as consumed basis) | $\begin{gathered} 229,230,235,236, \\ 237,238,512,513, \\ 518,519,522,523, \\ 524,526 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  | 읓 응 응 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0.75 | 1.17 | 0 | 0.36 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 3.6 | 4.8 | 0 | 4 | 0 | 0 | 0 | 0 |
| 16 | Cordial, NonCitrus (as consumed basis) | $\begin{gathered} 227,228,233,234, \\ 239,240,514,515 \\ 516,520,525 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.09 | 0 | 0.7 | 3.91 | 0 | 0.46 | 0.56 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.54 | 0 | 4.4 | 28 | 0 | 2.2 | 3.2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Soft Drink, Lemonade | 535 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 20 | Soft Drink, Other Fruit | $\begin{gathered} 267,268,269,270, \\ 271,272,274,278, \\ 280,282,286,275, \\ 276,277,279,285, \\ 527,528,532,533, \\ 534,536,537,538, \\ 539,540,541 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.08 | 0 | 1.48 | 0.31 | 0.19 | 12.30 | 3.76 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & 00 \\ & \text { 를 } \\ & \text { 링 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Maximum Colours Scenario | 0 | 1.3 | 0 | 30 | 6 | 2.5 | 54 | 44 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | Soft Drink, NonFruit | 262, 283, 273 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | $\begin{array}{r} 13.6 \\ 7 \end{array}$ | 0 | 0 | 3.67 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | Soft Drink, Energy Drink | 255, 284 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 23 | Mineral Water, Fruit | $\begin{gathered} 263,264,265,266, \\ 281,531 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 1.33 | 8.83 | 0 | 0.42 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 48 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 24 | Sports Drink, All Flavours | $\begin{gathered} 252,253,254,256 \\ 257,529,530 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 8.29 | 0 | 0 | 0 | 5.57 | 0.72 | 0 | 2.15 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 58 | 0 | 0 | 0 | 32 | 2.5 | 0 | 10 | 0 | 0 | 0 | 0 |
| 25 | Custard Powder, Dry | 141, 142 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 응 } \\ & \text { 은 } \\ & \text { No } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 13.5 | 15.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | Pasta, Meat Filled, Cooked (as consumed basis) | 151 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | Noodles, Asian Style Egg, Uncooked | 154 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | Noodle, Asian Style, NS as to type, Uncooked | 154, 155, 156, 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | Breakfast Cereal, Puffed/Formed/ Flakes, Fruit | 144 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  | $\begin{aligned} & \text { 을 } \\ & \text { 우 } \\ & \text { 음 } \end{aligned}$ |  |  |  |
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|  |  | Maximum Colours Scenario | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | Breakfast Cereal, Biscuit, Fruit | 143, 431 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | Breakfast Cereal, Coloured | 145, 146, 433, 603 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 4.5 | 0 | 28.5 | 0 | 12.63 | 9.63 | 0 | 13.13 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 18 | 0 | 82 | 0 | 24 | 31 | 0 | 34 | 0 | 0 | 0 | 0 |
| 39 | Cones, Ice cream | 168, 202 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.6 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 1.25 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.2 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 40 | Biscuits, Sweet, Fruit | 178, 615 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 1.25 | 0 | 0 | 0 | 1.25 | 1.25 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 2.5 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | Biscuit, Sweet, Fruit Filled | 165, 620 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { ㅇ } \\ & \text { 릉 } \\ & \text { N } \end{aligned}$ |  |  |  | $$ |  |  |  |  |  |
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| 47 | Biscuit, Sweet, Sandwich, Cream \& Jam Filled | 163, 166 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 5.75 | 0 | 0 | 0 | 1.25 | 1.25 | 0 | 0 | 1.25 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 9 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| 48 | Biscuit, Sweet, Sandwich, Cream Filled | $\begin{gathered} 163,166,176,177, \\ 179,610,621,622, \\ 624 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.05 | 8.83 | 0 | 0 | 0 | 10.11 | 5.11 | 0 | 0.89 | 0.28 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 43 | 0 | 0 | 0 | 33 | 12 | 0 | 8 | 2.5 | 0 | 0 | 0 |
| 49 | Biscuit, Sweet, Wafer, Cream Filled, Nonchocolate | 613, 614 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 4 | 0 | 0 | 0 | 4.25 | 1.25 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 8 | 0 | 0 | 0 | 6 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | Biscuit, Sweet, Wafer, Chocolate Cream Filled | 169, 614 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 8 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { 을 } \\ & \text { No } \\ & \text { N } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
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| 51 | Biscuit, Sweet, Choc Chip/Dipped | 172, 180 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.13 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.25 | 0 | 2. 5 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 5 | 0 | 0 |
| 52 | Biscuit, Sweet, Choc Coated | $\begin{gathered} 160,161,173,611, \\ 617,619 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.63 | 0 | 9.5 | 0.83 | 0.42 | 0 | 10.58 | 4.08 | 0 | 6.58 | 0 | 0 | 0 | 0.42 |
|  |  | Maximum Colours Scenario | 4.9 | 0 | 30 | 5 | 2.5 | 0 | 32 | 17 | 0 | 37 | 0 | 0 | 0 | 2.5 |
| 54 | Biscuits, Sweet, Marshmallow \& Jam, Choc Coated | 171, 175 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.13 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | Biscuits, Savoury, Flavoured | $\begin{aligned} & 191,192,193,196 \\ & 197,200,201,618 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.06 | 0 | 0 | 0 | 0 | 0.31 | 1 | 6.06 | 0 | 0.31 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 5.2 | 0 | 0 | 0 | 0 | 2.5 | 8 | 46 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 56 | Cake, Plain/Flavoured Uniced | 651 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 을 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
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|  | Mix |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 8.2 | 0 | 2 | 0 | 3.2 | 0 | 0 | 0 | 25.6 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 10 | 0 | 16 | 0 | 0 | 0 | 110 |
| 63 | Cake, Tea | 397 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 | Cake, Chocolate, Iced/Uniced | 216, 406 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 1.25 | 0 | 4.75 | 0 | 1.25 | 1.25 | 0 | 15 | 0 | 0 | 0 | 50 |
|  |  | Maximum Colours Scenario | 0 | 0 | 2.5 | 0 | 7 | 0 | 2.5 | 2.5 | 0 | 21 | 0 | 0 | 0 | 82 |
| 65 | Cake, Fruit | 398, 399, 625, 649 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0.63 | 0.63 | 0.63 | 26 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 2.5 | 41 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68 | Cake, Lamington | 205, 208, 401 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.13 | 0 | 0 | 0 | 8.33 | 0 | 29.67 | 6.33 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number | $\stackrel{0}{7}$ $\stackrel{0}{c}$ $\stackrel{C}{c}$ |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © N N N IT |  |  |  |  |  |  |
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|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 25 | 0 | 89 | 19 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | $\begin{gathered} \text { Donuts, Pink } \\ \text { Topping } \\ \hline \end{gathered}$ | 220, 223 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.13 | 0 | 1.25 | 1.25 | 2.5 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 0 | 2.5 | 2.5 | 2.5 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 70 | Cake, Sponge, Roll Jam/Cream | 209, 210, 215, 217 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.13 | 0.93 | 0 | 0 | 3.25 | 6.75 | 0.63 | 0 | 0 | 1.88 | 0 | 0 | 0 | 13.25 |
|  |  | Maximum Colours Scenario | 0.25 | 3.7 | 0 | 0 | 7 | 19 | 2.5 | 0 | 0 | 5 | 0 | 0 | 0 | 44 |
| 71 | Cake, Sponge, Choc, Cream Filled | 210, 217 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 3 | 4 | 1.25 | 0 | 0 | 3.75 | 0 | 0 | 0 | 26.5 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 6 | 8 | 2.5 | 0 | 0 | 5 | 0 | 0 | 0 | 44 |
| 75 | Pie, Apple | 224 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77 | Slice, Choc, Dry Mix | 211 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 응 } \\ & \text { 은 } \\ & \text { No } \end{aligned}$ |  | $\begin{gathered} \text { Sunset Yellow } \\ \text { FCF } \end{gathered}$ | © <br> N <br> N <br> N <br> I | $\begin{aligned} & \infty \\ & \stackrel{C}{\Phi} \\ & \stackrel{\omega}{\mathbf{U}} \end{aligned}$ |  | 을 응 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| 78 | Biscuit Mix, Dry | 219 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80 | Pie, Sweet | 224,648 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83 | Pie, Custard | 225 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 | Vol au Vent, Cheese \& Vegetable | 369 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 86 | Pie, Chicken \& Vegetable | 367, 631, 637, 641 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  |  |  |  |  |  |  | 을 응 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 88 | Pie, Cheese and Spinach | 368 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 | Pie, Meat | $\begin{gathered} 359,360,361,362, \\ 363,364,630,633 \\ 634,635,636,638 \\ 639,642,643 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.2 | 0 | 0 | 0 | 0 | 0 | 0.67 | 0.67 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 2.5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92 | Sausage Roll | 348, 365, 366 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93 | Pizza, Meat | 357 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 응 } \\ & \text { 은 } \\ & \text { No } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
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| 94 | Spring Roll/Dim Sim Meat/Vegetable | 353 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | Pork Bun | 352 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 96 | Pasta \& Sauce Dry Mix, Cream Based | 350, 354, 355 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 6.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 98 | Pasta \& Sauce, Cream Based (hydration factors applied) | 350, 354, 355 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 2.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99 | Lasagne, Meat | 347, 351 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { ㅇ } \\ & \text { 릉 } \\ & \text { N } \end{aligned}$ |  |  |  |  |  | 음 응 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102 | Margarine/Marg arine Spread | $\begin{gathered} 37,39,40,41,416, \\ 417,418,419,420, \\ 424,425,426,427, \\ 428,429 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 3.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 8.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 103 | Margarine/Marg arine Spread, Reduced Fat | $\begin{gathered} 38,421,422,423 \\ 430 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 5.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 5.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | Glace Cherry | 88 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.25 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107 | Sausage, Continental | 186 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  |  |  |  |  | $\begin{aligned} & \infty \\ & \stackrel{\rightharpoonup}{\mathbb{U}} \\ & \text { © } \end{aligned}$ |  | 읓 응 응 |  |  |  |
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| 108 | Frankfurters | 181, 182, 183, 184 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 3.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 8.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 111 | Indian Curry Dish | 345, 356 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 1.25 | 1.25 | 1.25 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 113 | Yoghurt, Vanilla | 13, 20, 22, 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 114 | Yoghurt, Fruit/Muesli | $\begin{gathered} 11,12,14,15,16, \\ 17,18,19,21,23, \\ 29,468,473,474, \\ 478,480,481 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.39 | 1.15 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0 | 1.15 | 0 | 0 | 0 | 0.15 |
|  |  | Maximum Colours Scenario | 1.7 | 5.8 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 2.5 |


| Food <br> Sub- <br> Group <br> Number | Food SubGroup | Survey Sample Number |  |  |  |  |  |  |  |  | $\begin{aligned} & \infty \\ & \stackrel{\rightharpoonup}{\mathbb{U}} \\ & \text { © } \end{aligned}$ |  |  |  |  |  |
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| 115 | Yoghurt, NFS | $\begin{gathered} 11,12,13,14,15 \\ 16,17,18,19,20 \\ 21,22,23,30,465, \\ 466,467,468,473 \\ 474,478,480,481 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.39 | 0.9 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0.85 | 0 | 0 | 0 | 0.11 |
|  |  | Maximum Colours Scenario | 1.7 | 5.8 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 2.5 |
| 116 | Dips | $\begin{gathered} 375,376,377,378, \\ 379 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.2 | 0.36 | 0 | 0 | 0 | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1 | 1.8 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 118 | Cheese, Cheddar | $\begin{gathered} 557,560,561,562, \\ 563,564,566,567, \\ 568,569,570 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 121 | Cheese, Processed | 31, 32, 33, 35, 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  |  |  |  |  |  |  | 읓 응 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122 | Cheese Spread | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 123 | Cheese, Processed Light | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 124 | Ice Cream, Vanilla | 66, 69, 70, 75, 77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | Ice Cream, Vanilla \& Fruit | 72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 126 | Ice Cream, Vanilla, Confectionery | 71, 74, 78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { © } \\ & \text { 일 } \\ & \text { N } \\ & \text { N } \end{aligned}$ |  |  |  | $$ |  | 음 응 응 |  |  |  |
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|  |  | Mean Colours Scenario | 7.22 | 0 | 0 | 0.83 | 2.33 | 0.83 | 1.67 | 0.83 | 0 | 0.83 | 0 | 0 | 0 | 0.83 |
|  |  | Maximum Colours Scenario | 16 | 0 | 0 | 2.5 | 7 | 2.5 | 2.5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 127 | ```Ice Cream, Vanilla, Confectionery/F ruit``` | 71, 72, 74, 78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 5.76 | 0 | 1.5 | 0.63 | 1.75 | 0.63 | 1.25 | 0.63 | 0 | 1.25 | 0 | 0 | 0 | 0.63 |
|  |  | Maximum Colours Scenario | 16 | 0 | 6 | 2.5 | 7 | 2.5 | 2.5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 128 | Ice Cream, Chocolate, No Additions | 64, 453, 464 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 1.67 | 6.67 | 3 | 14.67 | 37.67 | 0 | 8 | 6.67 | 0 | 0 | 0.83 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 2.5 | 20 | 9 | 30 | 71 | 0 | 24 | 20 | 0 | 0 | 2.5 |
| 129 | Ice Cream, Vanilla, No Additions, Low Fat | 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | Ice Cream Vanilla, Choc Fudge | 78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 7 | 2.5 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  | $\begin{aligned} & \text { ס } \\ & \dot{\pi} \\ & \frac{\pi}{3} \\ & \underline{\overline{1}} \end{aligned}$ |  | $\begin{aligned} & \text { © } \\ & \text { 은 } \\ & \text { 링 } \\ & \text { N } \end{aligned}$ |  |  | © N N 츤 ■ | $$ |  |  |  |  |  |
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|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 7 | 2.5 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 131 | Ice Cream, Chocolate, NFS | 64, 76, 449, 453, 464 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 1 | 4.5 | 2.3 | 10.6 | 22.6 | 0 | 34.4 | 4 | 0 | 0 | 12.2 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 2.5 | 20 | 9 | 30 | 71 | 0 | 140 | 20 | 0 | 0 | 56 |
| 132 | Ice Cream, Chocolate, Choc Chip | 76, 449, 453, 464 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 1.25 | 5.63 | 2.88 | 13.25 | 28.25 | 0 | 43 | 5 | 0 | 0 | 15.25 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 2.5 | 20 | 9 | 30 | 71 | 0 | 140 | 20 | 0 | 0 | 56 |
| 133 | Ice Cream, Chocolate, Confec/Nut | 65, 76, 449, 453, 464 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.31 | 1.9 | 0 | 1 | 4.5 | 2.3 | 10.6 | 22.6 | 0 | 34.4 | 4 | 0 | 0 | 12.2 |
|  |  | Maximum Colours Scenario | 0.62 | 3.8 | 0 | 2.5 | 20 | 9 | 30 | 71 | 0 | 140 | 20 | 0 | 0 | 56 |
| 134 | Ice Cream, Other Flavours | $\begin{gathered} 68,71,73,74,452 \\ 459,462,463 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 8.66 | 0 | 0 | 0.31 | 2.88 | 0 | 3.19 | 14.38 | 0 | 4.13 | 0 | 0 | 0 | 0.31 |
|  |  | Maximum Colours Scenario | 16 | 0 | 0 | 2.5 | 14 | 0 | 12 | 110 | 0 | 28 | 0 | 0 | 0 | 2.5 |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 으́ } \\ & \text { 를 } \\ & \text { N } \end{aligned}$ |  |  | $\begin{aligned} & 0 \\ & \stackrel{0}{N} \\ & \text { N } \\ & \text { N } \\ & \text { IV } \end{aligned}$ | $$ |  | 음 응 응 |  |  |  |
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| 135 | Ice Cream, Caramel/Coffee | $\begin{gathered} \hline 71,73,74,78,452, \\ 459 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 8.66 | 0 | 0 | 0.42 | 1.17 | 0.42 | 0.83 | 0.42 | 0 | 0.42 | 0 | 0 | 0 | 0.42 |
|  |  | Maximum Colours Scenario | 16 | 0 | 0 | 2.5 | 7 | 2.5 | 2.5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 137 | Ice Cream, Other Flavours, Nuts/Confec/Ad ditions | $\begin{gathered} 65,67,73,74,78 \\ 452,459,462 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 3.98 | 0.76 | 0 | 0.31 | 2 | 0.31 | 2.13 | 14.06 | 0 | 3.82 | 0 | 0 | 0 | 0.31 |
|  |  | Maximum Colours Scenario | 13 | 3.8 | 0 | 2.5 | 9 | 2.5 | 12 | 110 | 0 | 28 | 0 | 0 | 0 | 2.5 |
| 138 | Ice Cream, Low Fat, Choc | 64,65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.31 | 1.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.62 | 3.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 139 | Ice Cream, NFS | $\begin{gathered} 64,65,66,67,68, \\ 69,70,71,72,73, \\ 74,75,76,77,78, \\ 449,452,453,459, \\ 462,463,464 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 2.71 | 0.25 | 0.27 | 0.34 | 2.39 | 0.64 | 3.68 | 10.48 | 0 | 9.43 | 0.91 | 0 | 0 | 2.89 |
|  |  | Maximum Colours Scenario | 16 | 3.8 | 6 | 2.5 | 20 | 9 | 30 | 110 | 0 | 140 | 20 | 0 | 0 | 56 |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { © } \\ & \text { 일 } \\ & \text { N } \\ & \text { N } \end{aligned}$ |  |  | $\begin{aligned} & 0 \\ & \stackrel{0}{N} \\ & \text { N } \\ & \text { N } \\ & \text { IV } \end{aligned}$ |  |  | 음 응 응 |  |  |  |
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| 140 | Ice Cream, Stick/Bar, Vanilla, Choc Coated | 57, 455, 456 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 6.67 | 8.33 | 7.33 | 10.33 | 32.33 | 0 | 0 | 0.83 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 20 | 25 | 22 | 31 | 97 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| 141 | Ice Cream, Stick/Bar, Choc, Choc Coated | 60, 457 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 6.5 | 0 | 0 | 0 | 5.25 | 0 | 8.5 | 0 | 0 | 0 | 50.75 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 8 | 0 | 9 | 0 | 0 | 0 | 99 |
| 143 | Dairy Dessert, Vanilla, Dry Mix | 299 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 144 | Ice Cream, Stick/Bar, Flavoured, Choc Coated | 56, 60, 455, 456 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 5.5 | 0 | 0 | 6.25 | 6.25 | 5.5 | 7.75 | 24.88 | 0 | 2 | 0.63 | 0 | 0 | 24.75 |
|  |  | Maximum Colours Scenario | 11 | 0 | 0 | 20 | 25 | 22 | 31 | 97 | 0 | 8 | 2.5 | 0 | 0 | 99 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I | $\begin{aligned} & \infty \\ & \bar{\Phi} \\ & \stackrel{\rightharpoonup}{む} \end{aligned}$ |  | 읓 응 응 응 |  |  |  |
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| 145 | Ice Cream, Stick/Bar, Other Flavours, Biscuit \& Choc Coated | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147 | Ice Cream, Filled Cone, All Flavours, Choc/Nut Topped | $\begin{gathered} 46,50,51,61,450 \\ 451,460 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.38 | 0.06 | 0.36 | 10.71 | 4.57 | 6 | 6.64 | 24 | 7.14 | 5.57 | 8.29 | 0 | 0 | 6.36 |
|  |  | Maximum Colours Scenario | 1.5 | 0.25 | 2.5 | 55 | 14 | 16 | 23 | 100 | 50 | 22 | 32 | 0 | 0 | 42 |
| 148 | Ice Cream, Stick/Bar, Chocolate | 58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 149 | Ice Cream, Stick/Bar, Other Flavours | 42, 56, 59, 454 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 4 | 0 | 0 | 0 | 2.63 | 5.5 | 0 | 0 | 0 | 40.63 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 11 | 0 | 0 | 0 | 8 | 13 | 0 | 0 | 0 | 160 | 0 | 0 | 0 | 0 |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { © } \\ & \text { 을 } \\ & \text { 릉 } \\ & \text { N } \end{aligned}$ |  |  | © N N 末 ■ | $\begin{aligned} & \infty \\ & \stackrel{C}{\Phi} \\ & \stackrel{\rightharpoonup}{\mathbf{U}} \end{aligned}$ |  | 읓 응 응 |  |  |  |
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| 150 | Ice Cream, Stick/Bar, NFS | $\begin{gathered} 42,44,45,46,49, \\ 50,51,56,57,58, \\ 59,60,61,62,450, \\ 451,454,455,456, \\ 457,460 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.21 | 0.02 | 0.12 | 5.14 | 4.60 | 4.10 | 3.93 | 13.24 | 2.38 | 10.52 | 2.88 | 0 | 0 | 6.95 |
|  |  | Maximum Colours Scenario | 11 | 0.25 | 2.5 | 55 | 29 | 22 | 31 | 100 | 50 | 160 | 32 | 0 | 0 | 99 |
| 151 | Stick/Bar, Vanilla Ice Cream, Fruit Ice Confection Coating | 44, 45, 49, 62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.74 | 0 | 0 | 0 | 7.25 | 0 | 0.63 | 0.63 | 0 | 0.63 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.4 | 0 | 0 | 0 | 29 | 0 | 2.5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 152 | Ice Confection, Water/Juice based NFS | $\begin{gathered} 43,47,48,52,53 \\ 54,55,62,63 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.17 | 0 | 1.61 | 0.56 | 2.67 | 1 | 3.5 | 6.28 | 0 | 2.28 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.3 | 0 | 12 | 2.5 | 19 | 9 | 18 | 43 | 0 | 13 | 0 | 0 | 0 | 0 |
| 153 | Thickshake, Strawberry | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 16 | 0 | 0 | 0 | 2.5 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |


| Food <br> Sub- <br> Group Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { ㅇ } \\ & \text { 릉 } \\ & \text { N } \end{aligned}$ |  |  |  | $$ |  | 읗 응 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0 | 0 | 16 | 0 | 0 | 0 | 2.5 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 154 | Yoghurt, Frozen, Fruit Flavour | 26, 27, 28, 458 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.02 | 1.26 | 0.63 | 0.63 | 0 | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 2.8 | 3.1 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 155 | Crème Caramel | 306, 308 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 | Custard, Vanilla | 300, 310 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 | Custard/Dairy Dessert, Chocolate | 298, 307, 313, 471 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 158 | Fromage Frais, Fruit Flavour | 303, 304, 309, 311 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.4 | 0.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 응 } \\ & \text { 은 } \\ & \text { No } \end{aligned}$ |  | $\begin{gathered} \text { Sunset Yellow } \\ \text { FCF } \end{gathered}$ | © N N N IT | $\begin{aligned} & \text { の } \\ & \stackrel{C}{\Phi} \\ & \mathbf{む} \\ & \text { © } \end{aligned}$ |  | 읗 응 읃 |  |  |  |
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|  |  | Maximum Colours Scenario | 5.6 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 159 | Dairy Dessert, Chocolate, Dry Mix | 312 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7000 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7000 |
| 160 | Dairy Dessert, Other Flavours | $\begin{aligned} & 301,302,303,304, \\ & 305,309,311,469 \\ & 470,472,475,479 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.84 | 1.99 | 0 | 0 | 0 | 0 | 1.63 | 4.42 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 5.6 | 6.3 | 0 | 0 | 0 | 0 | 11 | 34 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162 | Cheesecake, Fruit Topped | 221 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 163 | Soy Beverage, Chocolate | 25,547 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.25 | 0 | 0 | 0 | 1.25 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
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| 164 | Soy Beverage, Other Flavours | 24,546 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 1.25 | 0 | 0 | 5 | 0 | 1.25 | 0 | 0 | 0 | 1.25 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 10 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 165 | Flavoured Milk, Chocolate | $\begin{gathered} 1,2,3,4,5,7,8 \\ 549,550,552,553, \\ 554 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.88 | 0 | 0 | 0 | 2.08 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 2.5 |
| 167 | Flavoured Milk, Other | $\begin{gathered} 6,9,10,542,543, \\ 548 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 1.07 | 2.67 | 0 | 0.83 | 1.25 | 3 | 7.25 | 0 | 0.42 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 3.2 | 16 | 0 | 2.5 | 5 | 13 | 41 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 168 | Jelly Crystals, Made up (as consumed basis) | $\begin{gathered} 290,291,292,293, \\ 294,295,296,297, \\ 571,572,573,574, \\ 575,576,577,578, \\ 579,580,581,582, \\ 583,584,585 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 1.66 | 2.58 | 2.18 | 2.21 | 2.09 | 2.92 | 0.02 | 0.73 | 0 | 0 | 0.11 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  |  | $\begin{aligned} & \infty \\ & \bar{\Phi} \\ & \stackrel{\rightharpoonup}{む} \end{aligned}$ |  | $\begin{aligned} & \text { 읗 } \\ & \text { 우 } \\ & \text { 을 } \end{aligned}$ |  |  |  |
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|  |  | Maximum Colours Scenario | 0 | 0 | 38.10 | 39.68 | $\begin{array}{r} 31.7 \\ 5 \\ \hline \end{array}$ | 26.98 | 17.54 | 32.61 | 0.40 | 10.63 | 0 | 0 | 0.40 | 0 |
| 169 | Topping, Caramel | $\begin{gathered} 331,332,501,502, \\ 505,510 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0.42 | 2.17 | 17 | 0 | 1.25 | 0 | 0 | 0 | 0.83 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 7 | 49 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 171 | Sauce, Plum | 341 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172 | Sauce, Seafood Cocktail | 334 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 173 | Sauce, Cheese, Dry Mix | 337 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 174 | Sauce, White, Dry Mix | 338 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  | $\begin{gathered} \text { Sunset Yellow } \\ \text { FCF } \end{gathered}$ | © N N N IT |  |  | 읓 응 응 등 |  |  |  |
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|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | Sauce, Béarnaise | 333 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 176 | Sauce, Simmer, Indian Curry | 339 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 178 | Gherkins | 79 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 179 | Mustard Pickle | 81 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 182 | Chips, Hot Potato | $\begin{gathered} \hline 325,326,644,645, \\ 646 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  | 읓 응 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 183 | Crisp, Potato, Flavoured | $\begin{gathered} 380,381,382,385, \\ 386,387,393,411, \\ 413 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.07 | 0.07 | 0.67 | 0 | 0 | 0 | 0.28 | 0 | 0 | 0.28 | 0.28 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0.25 | 6 | 0 | 0 | 0 | 2.5 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 |
| 184 | Crisp, Corn | $\begin{gathered} \hline 383,394,407,410, \\ 609 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 1.5 | 0 | 0 | 0 | 3.7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 2.5 | 0 | 0 | 0 | 11 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 185 | Popcorn, flavoured | 388 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 186 | Popcorn, Sugar Coated, Coloured | 129 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 12 | 0 | 5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 12 | 0 | 5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 187 | Crisp, Prawn | 396 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  |  | $\begin{aligned} & \infty \\ & \bar{\Phi} \\ & \stackrel{\rightharpoonup}{む} \end{aligned}$ |  | 읓 응 응 |  |  |  |
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|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 188 | Snack, Cheese Flavour, Extruded | $\begin{gathered} 384,392,408,409 \\ 415,602,606 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 83.57 | 38.21 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 279 | 118 | 0 | 0 | 0 | 0 | 0 | 0 |
| 189 | Snack, NonCheese Flavour, Extruded | 390, 391, 395, 414 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.08 | 0 | 0 | 0.63 | 0 | 6.25 | 1.25 | 0 | 0.63 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 0 | 0 | 2.5 | 0 | 20 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 191 | Topping, Chocolate | 327, 328, 499, 507 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12.75 | 0 | 0.63 | 0 | 0 | 0 | 23.75 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 2.5 | 0 | 0 | 0 | 84 |
| 192 | Topping, Other Flavours | $\begin{gathered} 329,330,331,332, \\ 498,500,501,502, \\ 503,504,505,506 \\ 509,510,511 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Food <br> Sub- <br> Group <br> Number | Food SubGroup | Survey Sample Number |  |  |  |  |  |  |  |  | $\begin{aligned} & \infty \\ & \bar{\Phi} \\ & \stackrel{\rightharpoonup}{む} \\ & \stackrel{ভ}{0} \end{aligned}$ |  | 음 응 응 |  |  |  |
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|  |  | Mean Colours Scenario | 0 | 0 | 0 | 12.53 | 9.33 | 9.77 | 3.57 | 9.4 | 0 | 0.5 | 0 | 0 | 0 | 0.33 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 170 | 61 | 75 | 17 | 49 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 193 | Jam, All Flavours | $\begin{gathered} 80,84,85,86,87 \\ 626 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0.42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 194 | Jam, Artificially Sweetened | 627, 628 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 |
| 195 | Jelly Crystals | $\begin{gathered} 290,291,292,293, \\ 294,295,296,297, \\ 571,572,573,574, \\ 575,576,577,578, \\ 579,580,581,582, \\ 583,584,585 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 10.44 | 54.35 | $\begin{array}{r} 13.7 \\ \hline \end{array}$ | 20.13 | 67.67 | 108.70 | 0.11 | 5.04 | 0 | 0 | 0.76 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 240 | 1000 | 200 | 170 | 1000 | 1500 | 2.5 | 67 | 0 | 0 | 2.5 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © N N N IT |  |  |  |  |  |  |
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| 197 | Caramel/Toffee, Choc Coated | 103 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 2.5 | 0 | 0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 2.5 | 0 | 0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 198 | Chocolate, Filled | 96, 97, 99, 101, 103 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0.5 | 0.5 | 0.5 | 1 | 0.5 | 1.5 | 0 | 0.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 199 | Chocolate, Candy Coated | 89, 90, 98, 599 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.08 | 30.75 | 0 | 4.25 | 4.63 | 22.88 | 19.63 | 0 | 13 | 0.63 | 0 | 3.25 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.25 | 86 | 0 | 17 | 16 | 66 | 68 | 0 | 35 | 2.5 | 0 | 13 | 0 |
| 201 | Bar, Chocolate, Cherry/Fruit | 91, 594 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 16.5 | 3.5 | 0 | 0 | 0 | 1.25 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 24 | 7 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 204 | Peanuts, Choc Coated, Candy Shell | 94 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 86 | 0 | 0 | 0 | 66 | 68 | 0 | 35 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  | 읓 웅 응 |  |  |  |
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|  |  | Maximum Colours Scenario | 0 | 0 | 86 | 0 | 0 | 0 | 66 | 68 | 0 | 35 | 0 | 0 | 0 | 0 |
| 205 | Bar, Peppermint Crackle, Choc Coated | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 206 | Turkish Delight, Choc Coated | 92, 102, 600 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 16.33 | 12.33 | 1.67 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 35 | 27 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 207 | Bar, Yoghurt Based, Rice Crisp, Choc | 319 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 209 | Muesli Bar/Bar, with Yoghurt | 323 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 210 | Bar, Fruit Based | 324 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & 00 \\ & \text { 를 } \\ & \text { 링 } \\ & \text { N } \end{aligned}$ |  |  |  | $\begin{aligned} & \infty \\ & \stackrel{\rightharpoonup}{\mathbb{U}} \\ & \text { © } \end{aligned}$ |  |  |  |  |  |
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|  |  | Mean Colours Scenario | 0 | 0.83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0.83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 211 | Bar, Fruit Based, with Cereal-based Coating | 320, 322 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 1.25 | 7.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 212 | Fruit Leather, Sugar Added | $\begin{gathered} 314,315,316,317, \\ 318,590,591 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.2 | 0.50 | 0 | 0 | $\begin{array}{r} 24.9 \\ 3 \\ \hline \end{array}$ | 0 | 0 | 0 | 0 | 8.43 | 0 | 0 | 0.36 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 1.2 | 0 | 0 | 160 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 2.5 | 0 |
| 213 | Confectionery, Carbohydrate Modified, Not Chocolate | 589, 592, 593 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 3.67 | 0 | 0 | 0 | 15 | 1.67 | 0 | 0.83 | 0 | 0 | 0 | 0.83 |
|  |  | Maximum Colours Scenario | 0 | 0 | 11 | 0 | 0 | 0 | 45 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 2.5 |
| 214 | Coconut Ice | 130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 응 } \\ & \text { 은 } \\ & \text { No } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
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|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 216 | Liquorice, Plain | 131 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 25 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 25 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 25 | 0 | 0 | 0 | 2.5 | 2.5 | 0 | 25 | 0 | 0 | 0 | 0 |
| 217 | Liquorice, Allsorts | 134 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 9 | 0 | 5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 9 | 0 | 5 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 218 | Marshmallow | 128 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 219 | Boiled Lolly | $\begin{gathered} 100,110,111,112, \\ 127,587,595,596, \\ 598,601 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.05 | 0.05 | 27 | 0.25 | 3.6 | 0 | 3.55 | 2.65 | 0 | 5.1 | 0.5 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0.25 | 160 | 2.5 | 28 | 0 | 9 | 14 | 0 | 27 | 2.5 | 0 | 0 | 0 |



| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 응 } \\ & \text { 은 } \\ & \text { No } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 226 | Advocaat | 488 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228 | Mixed Alcoholic Drinks, Creamy | $\begin{gathered} 489,490,491,492, \\ 493 \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0.5 | 0.5 | 0.5 | 1.6 | 40.4 | 0 | 2.2 | 0 | 0 | 0 | 1 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 2.5 | 2.5 | 2.5 | 8 | 154 | 0 | 6 | 0 | 0 | 0 | 2.5 |
| 229 | Liqueur, Other Flavours | $\begin{gathered} 484,485,486,487, \\ 496 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 2.6 | 0 | 0 | 12.4 | 22.1 | 0 | 5.6 | 0.5 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 7 | 0 | 0 | 56 | 68 | 0 | 28 | 2.5 | 0 | 0 | 0 |
| 230 | Mixed Alcoholic Drinks, NonCola, with Vodka | $\begin{gathered} 258,259,260,261, \\ 482,483 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 2.5 | 0 | 6.83 | 1.25 | 0 | 0.83 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 15 | 0 | 36 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 231 | Beverage Flavouring, Dry Mix, NonChocolate | 287, 288, 289 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.57 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { N } \\ & \text { 링 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I | $\begin{aligned} & \infty \\ & \stackrel{\rightharpoonup}{\mathbb{U}} \\ & \text { © } \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Maximum Colours Scenario | 1.7 | 0.59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 232 | Curry Paste | 336, 340, 343, 344 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 7.75 | 0 | 16.5 | 5.75 | 18.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 19 | 0 | 66 | 23 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 233 | Breakfast Bar, NFS | $\begin{gathered} 319,320,321,322, \\ 323 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.05 | 0 | 0 | 0 | 0.5 | 3.5 | 0 | 0.5 | 0 | 0.5 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 2.5 | 15 | 0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 235 | Fruit Drinks, Other Flavours | $\begin{gathered} 243,247,248,434 \\ 437,438,439,440 \\ 441,442,443 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.17 | 0 | 0 | 0 | 2.27 | 0 | 0 | 0 | 0 | 0.86 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | 0 N N N I I | $\begin{aligned} & \infty \\ & \stackrel{C}{\Phi} \\ & \stackrel{\rightharpoonup}{\mathbf{U}} \end{aligned}$ |  | 읓 응 응 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 236 | Cordial, NFS (as consumed basis) | $\begin{gathered} 227,228,229,230, \\ 231,232,233,234, \\ 235,236,237,238, \\ 239,240,252,512, \\ 513,514,515,516, \\ 517,518,519,520, \\ 521,522,523,524, \\ 526 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario <br> Maximum Colours Scenario | 0 | 0.04 | 0 | 0.44 | 1.48 | 0 | 0.54 | 0.78 | 0 | 0.19 | 0 | 0 | 0 | 0 |
|  |  |  | 0 | 0.54 | 0 | 4.4 | 28 | 0 | 3.6 | 4.8 | 0 | 4 | 0 | 0 | 0 | 0 |
| 237 | Drink Base, Fruit (as consumed basis) | 444 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mean Colours Scenario <br> Maximum Colours Scenario |  | 0 | 0 | 0 | 0 | 0 | 0 | 17.5 | 44.17 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 17.5 | 44.17 | 0 | 0 | 0 | 0 | 0 | 0 |



| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { 을 } \\ & \text { No } \\ & \text { N } \end{aligned}$ |  |  | $\begin{aligned} & 0.0 \\ & \text { N } \\ & \text { N } \\ & \text { N } \\ & \text { IT } \end{aligned}$ | $\begin{aligned} & \text { の } \\ & \stackrel{\rightharpoonup}{\otimes} \\ & \text { ©̀ } \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 243 | Biscuits, Savoury, Rice Crackers | $\begin{aligned} & 190,194,195,198 \\ & 199,391,414,605 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.62 | 0 | 0 | 0 | 0.63 | 0 | 4.38 | 0.94 | 0 | 0.63 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 1.9 | 0 | 0 | 0 | 2.5 | 0 | 20 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 244 | Fish Fingers | 370, 371, 374 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 245 | Cordial Concentrate, Blackcurrant | 231, 232, 517, 521 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 6.25 | 0 | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| 246 | Cordial Concentrate, Citrus | $\begin{gathered} 229,230,235,236, \\ 237,238,512,513, \\ 518,519,522,523, \\ 524,526 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 3.75 | 5.86 | 0 | 1.79 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 24 | 0 | 20 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 은 } \\ & \text { 인 } \\ & \text { N } \end{aligned}$ |  |  | © <br> N <br> N <br> N <br> I |  |  | 읓 응 응 응 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 247 | Cordial Concentrate, Non-Citrus | 227, 228, 233, 234, 239, 240, 514, 515, 516, 520, 525 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0.45 | 0 | 3.5 | $\begin{array}{r} 18.2 \\ 3 \\ \hline \end{array}$ | 0 | 2.32 | 2.82 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 2.7 | 0 | 22 | 140 | 0 | 11 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| 248 | Dry Drink Base, Fruit | 444 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 210 | 530 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0 | 0 | 0 | 0 | 0 | 0 | 210 | 530 | 0 | 0 | 0 | 0 | 0 | 0 |
| 251 | Noodles, Asian Style Wheat, Cooked (as consumed basis) | 157, 158, 159 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.17 | 0 | 0 | 0 | 0.83 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 2.5 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 252 | Noodles, Asian Style Egg, Cooked (as consumed basis) | 154 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number | $\stackrel{0}{7}$ $\stackrel{0}{c}$ $\stackrel{C}{c}$ |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { 을 } \\ & \text { No } \\ & \text { N } \end{aligned}$ |  |  | © N N N IT |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 253 | Noodle, Asian Style, NS as to type, Cooked (as consumed basis) | $\begin{gathered} 154,155,156,157 \\ 158,159 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.10 | 0 | 0 | 0 | 0.42 | 0 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.25 | 0 | 0 | 0 | 2.5 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 255 | Sauce, Cheese (as consumed basis) | 337 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 256 | Sauce, White(as consumed basis) | 338 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  | Maximum Colours Scenario | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 257 | Beverage Flavouring, Non-Chocolate (as consumed basis) | 287, 288, 289 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Mean Colours Scenario | 0.02 | 0.006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| Food SubGroup Number | Food SubGroup | Survey Sample Number |  |  |  |  | $\begin{aligned} & \text { 0. } \\ & \text { 을 } \\ & \text { No } \\ & \text { N } \end{aligned}$ |  |  | © N N 末 ■ | $\begin{aligned} & \infty \\ & \stackrel{C}{\Phi} \\ & \stackrel{\rightharpoonup}{\mathbf{U}} \end{aligned}$ |  |  | 읗 응 응 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Maximum Colours Scenario | 0.07 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |

NFS - not further specified

## Appendix 3

Table A3.1: Major contributing foods to the dietary exposure of added colours for population groups aged 2-5 years (\% contribution)

|  | Allura Red | Amaranth | Annatto | Azorubine | Brilliant Black | Brilliant Blue | Brow n HT | Carminic Acid | Green S | Indigotin e | $\begin{gathered} \text { Ponceau } \\ \text { 4R } \end{gathered}$ | Quinoline Yellow | Sunset Yellow FCF | Tartrazine |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biscuits, Sweet | 10 | NA | <5 | <5 | NA | <5 | NA | <5 | NA | <5 | <5 | 36 | <5 | <5 |
| Breakfast cereal (include coloured types) | 6 | NA | <5 | 26 | NA | 9 | NA | NA | NA | NA | NA | NA | 8 | 5 |
| Cakes, muffins and pastries | <5 | <5 | <5 | 9 | 29 | 15 | 68 | <5 | NA | NA | 15 | 59 | 11 | 13 |
| Cheese | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | 8 | NA | NA | NA |
| Confectionery | 36 | <5 | <5 | 15 | 50 | 7 | <5 | <5 | NA | 29 | <5 | 5 | 7 | 6 |
| Cordial | NA | 28 | NA | 20 | NA | <5 | NA | <5 | NA | NA | NA | NA | 8 | 9 |
| Flavoured milk | 9 | NA | NA | <5 | NA | 21 | 17 | 7 | NA | NA | 11 | NA | 6 | 12 |
| Ice cream and edible ices | 19 | 24 | 36 | 16 | NA | 17 | <5 | <5 | NA | 66 | 30 | NA | 14 | 30 |
| Jelly | <5 | 21 | NA | <5 | 21 | <5 | NA | NA | 100 | NA | 14 | NA | <5 | <5 |
| Margarine/margarine spread | NA | NA | 20 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Processed meat | NA | NA | 7 | NA | NA | NA | NA | NA | NA | NA | <5 | NA | <5 | NA |
| Sauces, savoury | <5 | NA | <5 | <5 | NA | NA | NA | 40 | NA | NA | <5 | NA | <5 | NA |
| Snack foods, savoury | <5 | NA | <5 | <5 | NA | <5 | NA | <5 | NA | <5 | NA | NA | 14 | 5 |
| Soft drink | 12 | 17 | NA | 5 | NA | 12 | NA | <5 | NA | NA | <5 | NA | 24 | 9 |
| Topping | NA | <5 | NA | <5 | NA | <5 | 9 | NA | NA | NA | <5 | NA | <5 | <5 |
| Yoghurt | <5 | <5 | 16 | NA | NA | 11 | <5 | 44 | NA | NA | 7 | NA | NA | NA |
| All other foods | 8 | 10 | 20 | 9 | NA | 7 | 6 | 8 | NA | 6 | 13 | NA | 8 | 11 |

Note: grey shading indicates that the food is not a major contributor for the age group
NA = Not Analysed

Table A3.2: Major contributing foods to the dietary exposure of added colours for population groups aged 6-12 years (\% contribution)

|  | Allura Red | Amaranth | Annatto | Azorubine | Brilliant Black | Brilliant Blue | Brown HT | Carminic acid | Green S | Indigotine | $\begin{gathered} \text { Ponceau } \\ \text { 4R } \end{gathered}$ | Quinoline Yellow | Sunset <br> Yellow <br> FCF | Tartrazine |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biscuits, Sweet | 7 | NA | <5 | <5 | NA | <5 | NA | <5 | NA | <5 | <5 | 47 | <5 | <5 |
| Breakfast cereal (include coloured types) | <5 | NA | 6 | 20 | NA | 6 | NA | NA | NA | NA | NA | NA | <5 | <5 |
| Cakes, muffins and pastries | <5 | <5 | <5 | 9 | 22 | 14 | 71 | <5 | NA | NA | 14 | 46 | 8 | 12 |
| Cheese | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | 5 | NA | NA | NA |
| Confectionery | 36 | <5 | <5 | 14 | 57 | 7 | <5 | <5 | NA | 25 | 5 | 7 | 5 | 5 |
| Cordial | NA | 16 | NA | 14 | NA | <5 | NA | <5 | NA | NA | NA | NA | 5 | 7 |
| Flavoured milk | 5 | NA | NA | <5 | NA | 22 | 19 | 7 | NA | NA | 7 | NA | <5 | 6 |
| Ice cream and edible ices | 12 | 27 | 49 | 20 | NA | 18 | <5 | <5 | NA | 71 | 41 | NA | 13 | 34 |
| Jelly | <5 | 13 | NA | <5 | 21 | <5 | NA | NA | 100 | NA | 11 | NA | <5 | <5 |
| Margarine/margarine spread | NA | NA | 13 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Pre-prepared meals | NA | NA | 6 | NA | NA | NA | NA | NA | NA | NA | <5 | NA | <5 | <5 |
| Processed meat | NA | NA | 6 | NA | NA | NA | NA | NA | NA | NA | <5 | NA | <5 | NA |
| Sauces, savoury | <5 | NA | <5 | <5 | NA | NA | NA | 58 | NA | NA | <5 | NA | <5 | NA |
| Snack foods, savoury | <5 | NA | <5 | <5 | NA | <5 | NA | <5 | NA | <5 | NA | NA | 9 | <5 |
| Soft drink | 28 | 36 | NA | 15 | NA | 23 | NA | <5 | NA | NA | 5 | NA | 47 | 19 |
| Topping | NA | <5 | NA | <5 | NA | <5 | 6 | NA | NA | NA | <5 | NA | <5 | <5 |
| Yoghurt | <5 | <5 | 7 | NA | NA | <5 | <5 | 22 | NA | NA | <5 | NA | NA | NA |
| All other foods | 12 | 8 | 13 | 8 | NA | 10 | 6 | 13 | NA | 4 | 12 | NA | 13 | 17 |

Note: grey shading indicates that the food is not a major contributor for the age
NA = Not Analysed

Table A3.3: Major contributing foods to the dietary exposure of added colours for population groups aged 13-16 years (\% contribution)

|  | Allura Red | Amaranth | Annatto | Azorubine | Brilliant Black | Brilliant Blue | Brown HT | Carminic acid | Green S | Indigotine | $\begin{gathered} \text { Ponceau } \\ 4 R \end{gathered}$ | Quinoline Yellow | Sunset Yellow FCF | Tartrazine |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biscuits, Sweet | 6 | <5 | <5 | <5 | NA | <5 | <5 | < 5 | NA | <5 | < 5 | 57 | <5 | < 5 |
| Breakfast cereal (include coloured types) | <5 | NA | 8 | 18 | NA | 6 | NA | NA | NA | NA | NA | NA | < | < |
| Cakes, muffins and pastries | <5 | <5 | <5 | 8 | 13 | 11 | 63 | <5 | NA | NA | 17 | 31 | 6 | 11 |
| Cheese | NA | NA | <5 | NA | NA | NA | NA | NA | NA | NA | 6 | NA | NA | NA |
| Confectionery | 34 | 5 | <5 | 16 | 77 | 8 | <5 | <5 | NA | 29 | 6 | 12 | 7 | 8 |
| Cordial | NA | 19 | NA | 15 | NA | <5 | NA | <5 | NA | NA | NA | NA | 6 | 9 |
| Flavoured milk | 5 | NA | NA | <5 | NA | 25 | 23 | 6 | NA | NA | 10 | NA | <5 | 8 |
| Ice cream and edible ices | 14 | 24 | 43 | 15 | NA | 11 | <5 | <5 | NA | 66 | 35 | NA | 11 | 28 |
| Jelly | <5 | 6 | NA | <5 | 10 | <5 | NA | NA | 100 | NA | 5 | NA | <5 | <5 |
| Margarine/margarine spread | NA | NA | 13 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Pastry products, savoury | NA | NA | 5 | NA | NA | NA | NA | <5 | NA | NA | NA | NA | <5 | <5 |
| Pre-prepared meals | NA | NA | 8 | NA | NA | NA | NA | NA | NA | NA | <5 | NA | <5 | <5 |
| Processed meat | NA | NA | 7 | NA | NA | NA | NA | NA | NA | NA | <5 | NA | NA | NA |
| Sauces, savoury | <5 | NA | <5 | <5 | NA | NA | NA | 69 | NA | NA | <5 | NA | <5 | NA |
| Snack foods, savoury | <5 | NA | <5 | <5 | NA | <5 | NA | <5 | NA | <5 | NA | NA | 6 | <5 |
| Soft drink | 34 | 42 | NA | 21 | NA | 30 | NA | <5 | NA | NA | 5 | NA | 50 | 21 |
| Topping | NA | <5 | NA | <5 | NA | <5 | 10 | NA | NA | NA | <5 | NA | <5 | <5 |
| Yoghurt | <5 | <5 | 6 | NA | NA | <5 | <5 | 14 | NA | NA | <5 | NA | NA | NA |
| All other foods | 7 | 9 | 10 | 8 | NA | 11 | 4 | 11 | NA | 6 | 17 | NA | 21 | 18 |

Note: grey shading indicates that the food is not a major contributor for the age
NA = Not Analysed

## Appendix 4

Table A4.1: Estimated dietary exposures to added colours for Australian children aged 2-5 years


Table A4.2: Estimated dietary exposures to added colours for Australian children aged 6-12 years


Table A4.3: Estimated dietary exposures to added colours for Australian children aged 13-16 years

|  |  |  | Estimated dietary exposures for consumers only |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Mean Colours Scenario |  |  |  | Maximum Colours Scenario |  |  |  |
|  |  |  | Mean |  | 90th Percentile |  | Mean |  | 90th Percentile |  |
| Colour | No. of consumers | Consumers as a \% of total respondents | mg/day | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day | mg /day | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day | $\mathrm{mg} /$ day | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day | $\mathrm{mg} /$ day | $\mathrm{mg} / \mathrm{kg}$ <br> bw/day |
| Allura Red AC | 784 | 64 | 0.62 | 0.01 | 2.16 | 0.04 | 3.82 | 0.06 | 12 | 0.2 |
| Amaranth | 728 | 60 | 0.15 | 0.003 | 0.4 | 0.01 | 2.03 | 0.04 | 6.26 | 0.12 |
| Annatto | 1168 | 96 | 0.16 | 0.003 | 0.37 | 0.01 | 0.34 | 0.01 | 0.81 | 0.01 |
| Azorubine | 959 | 79 | 0.54 | 0.01 | 1.31 | 0.02 | 3.11 | 0.05 | 8.03 | 0.14 |
| Brilliant Black BN | 139 | 11 | 0.02 | 0.0003 | 0.03 | 0.001 | 0.09 | 0.002 | 0.26 | 0.003 |
| Brilliant Blue FCF | 1090 | 89 | 0.66 | 0.01 | 1.55 | 0.03 | 2.68 | 0.05 | 6.33 | 0.11 |
| Brown HT | 593 | 49 | 0.69 | 0.01 | 1.73 | 0.03 | 1.5 | 0.03 | 4.29 | 0.07 |
| Carminic Acid | 892 | 73 | 0.17 | 0.003 | 0.25 | 0.005 | 0.36 | 0.01 | 0.87 | 0.02 |
| Green S | 30 | 2 | 0.001 | 0.00003 | 0.004 | 0.0001 | 0.03 | 0.001 | 0.09 | 0.001 |
| Indigotine | 479 | 39 | 0.08 | 0.001 | 0.17 | 0.003 | 0.65 | 0.01 | 2.23 | 0.04 |
| Ponceau 4R | 997 | 82 | 0.11 | 0.002 | 0.3 | 0.01 | 0.59 | 0.01 | 1.37 | 0.02 |
| Quinoline Yellow Sunset Yellow | 333 | 27 | 0.04 | 0.001 | 0.11 | 0.002 | 0.21 | 0.004 | 0.46 | 0.01 |
| FCF | 1061 | 87 | 0.96 | 0.02 | 2.57 | 0.04 | 4.27 | 0.07 | 11.96 | 0.21 |
| Tartrazine | 1055 | 87 | 0.93 | 0.02 | 2.2 | 0.04 | 4.84 | 0.08 | 12.2 | 0.21 |


[^0]:    ${ }^{1}$ The ADI is an estimate of the amount of a substance in food or drinking water, expressed on a body weight basis, which can be ingested daily over a lifetime without appreciable risk to health.

[^1]:    NC = Not Consumed

[^2]:    NC = Not Consumed

[^3]:    NC = Not Consumed

[^4]:    NC = Not Consumed

[^5]:    NC = Not Consumed

[^6]:    NC = Not Consumed

