

Report 2: Modelling a stronger approach to total sugars and sodium

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Summary

Subsequent to the mpconsulting independent Five Year Review of the Health Star Rating System (the Review), the Forum requested that Food Standards Australia New Zealand (FSANZ) undertake further modelling and provide advice on the combined impact of specific recommendations when considered in the context of all recommended HSR calculator changes proposed to be implemented.

This report addresses the request for additional modelling under Recommendation 4 in the Forum's response to the Review, relating to a proposed package of changes to the way the HSR is calculated to better align foods with dietary guidelines, specifically 4b and 4c, which refer to the impact of using alternative sodium and sugars points tables in the HSR calculator. In doing so, this report also takes into consideration the recommendations 4d (re-scaling dairy categories) and 4e (re-categorising water-based ice confections and jellies) by ensuring that these changes are incorporated into a revised HSR calculator and that additional modelling reflects the impact of all proposed changes to the HSR calculator.

The database of foods used by the HSR Technical Advisory Group (TAG) for modelling proposed changes during the HSR Five Year review, (the TAG database) was used to assess the impact of the additional modelling undertaken by FSANZ.

During its consideration of the Review Report's findings the Forum noted that the modelling relied upon for mpconsulting to recommend a 25, rather than 30 HSR baseline points¹ scale for total sugars, was undertaken in isolation of other HSR system changes and without due consideration of the products impacted. Therefore, the Forum requested that FSANZ undertake additional modelling on the combined impact of all proposed changes to the HSR calculator on both the recommended 25 baseline point scale (Recommended) and a 30 point scale (Scenario) for total sugars which was also previously considered by the TAG.

The FSANZ analysis of the impact of a revised 30 HSR baseline point total sugars scale indicates that approximately 9% of products in HSR Categories 1D, 2 and 2D would be affected by reductions in HSR only, with the proportion of five food group (FFG) (5%) and discretionary (5%) products impacted being approximately equal. Product categories impacted tend to be those previously indicated by stakeholders to be of most concern, with the greatest impact on FFG products seen in the Processed fruit (20%), Breakfast cereals (19%) and Yoghurt/soft cheese (17%) categories and for discretionary foods in the Ice cream and Confectionery (22% respectively), Bakery/cake mixes (20%) and Custard/desserts (18%) categories. The majority of affected products received a 1 star point (0.5 HSR) reduction with a small proportion of products receiving a 2 star point reduction in the Breakfast cereals, Cream, Custards/desserts, and Snacks Australian Guide to Healthy Eating (AGHE) food categories.

The Forum was concerned that the changes to the sodium HSR baseline points table recommended by the Review to improve the sensitivity of the HSR calculator to foods with high sodium content would only impact a small subset of discretionary foods that are high in sodium (those HSR Category 1D, 2 and 2D foods with >900 mg sodium/100 g), providing little incentive for food reformulation. The Forum therefore requested that FSANZ undertake additional modelling on the combined impact of all proposed changes on both the recommended approach (application of intervals of 90 mg of sodium content to a maximum of 30 HSR baseline points at a lower sodium content of 2700 mg/100g instead of the original value of 8106 mg/100g) and the alternative (scenario) approach considered in the Review's draft Report. This alternative

¹ Health star ratings for foods in each of the six food categories (1, 1D, 2, 2D, 3, 3D) are assigned from a HSR final score, derived by summing positive HSR baseline points for risk increasing nutrients and negative HSR modifying points for risk reducing components.

approach considered applying HSR baseline points at intervals of 75 mg/100 g of sodium content, rather than 90 mg/100 g across the point scale recommended in the Review.

The FSANZ analysis of the impact of a revised sodium HSR baseline points table using 75 mg sodium /100 g increments indicates that approximately 14% of products in HSR Categories 1D, 2 and 2D would be affected by reductions in HSR only, with the proportion of FFG (7%) and discretionary (8%) products being approximately equally impacted. Product categories impacted include those of most concern with the greatest impact on FFG products seen in the Bread (22%), Plant protein (18%), Biscuits (16%), Breakfast cereals (15%) and Meals/meal bases and Nuts (14% respectively) categories and for discretionary foods in the Dressings (44%), Dips (32%), Sauces/condiments and Yeast spread (25% respectively) and Biscuits (20%). The majority of affected products received a 1 star point (0.5 HSR) reduction but with a small proportion of products receiving a 2 or 3 star point reduction. Given that there are relatively few products with sodium concentrations >900 mg/100 g in the TAG database the majority of products receiving a reduction in star points had a sodium concentration of ≤900 mg/100 g sodium. The effect of the recommended changes to the sodium baseline points table on HSR Category 3 and 3D foods was also assessed. Amending this baseline points table appeared to create a greater misalignment with Dietary Guideline recommendations than the Recommended HSR calculator. A broad range of FFG foods would be affected with a greater reduction in HSRs for lower fat foods, which is not in line with the Dietary Guidelines recommendation to eat dairy products, preferably reduced fat products.

In order to assess the impact of both the Total Sugars and Sodium Scenarios compared to the Recommended HSR, a Combined Scenario was modelled. For this Combined Scenario the total sugars points table was adjusted from a 25 point to a 30 HSR baseline point scale and the sodium table was adjusted from a 30 HSR baseline point scale with 90 mg/100 g sodium increments for each point to 75 mg/100 g increments for each point.

The FSANZ analysis of a Combined Scenario indicates that approximately 23% of products in the TAG database would be affected by a reduction in HSR, with the proportion of FFG (11%) and discretionary (12%) products impacted being approximately equal. Of those products affected in the Combined Scenario, 10% were affected by both total sugars and sodium HSR baseline point adjustments. Product categories impacted in the Combined Scenario reflected those impacted in the separate Total sugars Scenario and the Sodium Scenario. The greatest impact on FFG products is seen in the Breakfast cereals (33%) Bread (23%), Processed Fruit and Nuts (21% respectively) and Yoghurt, soft cheese (20%) categories, and for discretionary foods in the Dressings (53%), Bakery/cake mixes (34%), Sauces/condiments (33%), Dips (32%), and Snacks (29%). More than 90% of products in the TAG database affected by the Combined Scenario received a 1 star point (0.5 HSR) reduction with a small proportion of products receiving a 2 or 3 star point reduction. The Combined Scenario changes to the HSR calculator aligns more closely with the dietary guidelines, with fewer discretionary products receiving a HSR of ≥3. While the majority of FFG products in the TAG database receive a HSR of ≥3, the Combined Scenario also resulted in an increase in the number of FFG products receiving a HSR of <3 (3%).

The reductions of HSRs due to a stronger approach to total sugars or sodium or both combined are in addition to those impacts arising from implementing amendments to the HSR calculator as recommended in the Review. FSANZ Report 1 assessed the impact of all changes recommended in the Review and estimated that approximately 8% of products in the TAG database would be affected by a reduction in HSRs.

1. Introduction

The Heath Star Rating (HSR) system was implemented as a voluntary food product front of pack labelling program in Australia in June 2014 following agreement by the Australia New Zealand Forum on Food Regulation (the Forum). The Forum also requested that a formal, independent review of the HSR system should be carried out after five years of implementation. To action this request mpconsulting were engaged from 2017-19 to undertake an independent review of the HSR system (the Review).

The Review considered if, and how well, the HSR system has met its objectives, including by reference to the impact of the HSR system, and presented ten recommendations for enhancements to the HSR system for consideration by the Forum. Overall the Forum was supportive of the recommendations outlined in the Review Report. However, the Forum also requested additional information and consideration of Recommendation 4, relating to a package of proposed changes to the way the HSR is calculated to: better align foods with dietary guidelines, reflect emerging evidence, address consumer concerns and encourage positive reformulation.

The Forum requested that FSANZ undertake further modelling and provide advice on the impact of specific recommendations when considered in the context of all recommended HSR calculator changes proposed to be implemented.

1.1 Changes to the HSR calculator recommended by the Review

Recommendation 4 of the Review proposed a package of changes to the HSR calculator to:

- 4a allow fresh, frozen or canned fruit and vegetables (with no added salt, sugars or fat) to automatically receive a HSR of 5
- 4b more strongly penalise total sugars
- 4c improve sodium sensitivity to reduce the HSR of products with sodium in excess of 900 mg/100 g
- 4d redefine and rescale dairy categories to better differentiate and improve comparability between four/five food group (FFG) and dairy dessert type products
- 4e re-categorise water-based ice confections and jellies, and calculate HSRs for these products on an 'as prepared' basis²

In addition, recommendation 5 of the Review proposed a policy change to increase the HSRs of flavoured waters to 4.5 stars where they are nutritionally similar to plain packaged water, which is assigned an automatic 5 stars. An alternative method for calculating HSRs for all other non-dairy beverages was also proposed, based on the French Nutri-Score system that focusses only on energy, total sugars and fruit and vegetable content. These recommendations were intended to better discern water and flavoured waters from high energy drinks.

1.2 Forum request for additional modelling and advice

Following detailed consideration of the Review report, the Forum requested that FSANZ provide additional modelling and advice in relation to:

² In June 2018 the Forum agreed to limit the application of the HSR system to food products 'as sold', i.e. that the HSR should be calculated and displayed on the basis of the product as it appears on the shelf with the exception of products which must be rehydrated with water, diluted with water, drained of water or drained of brine.

- Recommendation 4b – provide further modelling and advice on the combined impact of both the recommended 25 baseline point and the stronger 30 baseline point table for total sugars.
- Recommendation 4c - provide further modelling and advice on the combined impact of both the recommended sodium baseline points table and an alternative baseline points table which takes a stronger approach to products with <900 mg/100 g sodium previously considered in the draft HSR review report.
- Recommendation 4d – provide further modelling and advice on the combined impact of re-categorisation and rescaling of dairy products.
- Recommendation 4e – include the re-categorisation of jellies and water-based ice confections in modelling of combined impacts of recommended changes to the HSR calculator.
- Recommendation 5 – provide advice on a suitable definition for drinks similar in nutritional profile to water that would be eligible to receive an automatic HSR of 4.5 stars.
- A peer review of the modelling that informed the HSR five year review report recommendations and advice on combined impacts.

The Forum also requested that FRSC determine a suitable definition for minimally processed fruits and vegetables that would be eligible to receive an automatic HSR of 5 stars (Recommendation 4a).

This report (Report 2) specifically addresses the request for additional modelling under recommendations 4b and 4c relating to the impact of alternative sodium and sugars HSR baseline points tables. In doing so, this report also takes into consideration the recommendations of 4a, 4d, 4e and 5 by ensuring that these changes are incorporated into the HSR calculator and that additional modelling reflects the impact of all proposed changes to the HSR calculator.

The Forum also requested that FSANZ undertake a peer review of modelling in the Review Report and provide advice on the combined impact of all recommended changes, which is provided in a separate report (Report 1). This peer review also incorporates additional analysis on dairy (recommendation 4d) and jelly and ice confectionery (recommendation 4e).

1.3 TAG Dataset and Calculator

The database of foods used by the HSR Technical Advisory Group (TAG) for modelling proposed changes during the HSR 5 year review, (the TAG database) was used to assess the impact of the additional modelling undertaken by FSANZ. While noting that there are some limitations relating to the TAG database, it was used in its current form for consistency and to allow comparability in results with previous work undertaken in the Review and for modelling of additional scenarios.

This database includes product data for 5,885 packaged and unpackaged foods and drinks sold in Australia and New Zealand, provided by the food industry. The vast majority of products are in HSR Categories 1, 1D, 2 and 2D. Data cover the range of HSR components including energy, saturated fat, total sugar, sodium, protein and fruit, vegetable, nut and legume (FVNL) and fibre content data for all foods where applicable.

Each food was assigned four different classifications for analysis and reporting purposes. These include a:

- HSR category
- food category based on the Australian Guide to Healthy Eating (AGHE), such as fats and oils, breakfast cereals, dairy beverages, fruits and vegetables. These were further grouped as 'core' or 'non-core', generally based on the proportion of five food

group or discretionary foods within the category (described further below). Refer to Appendix 4 Table 26 for a summary of AGHE categories in the TAG database

- 5-digit classification based on the classification system developed for reporting food and nutrient intakes from the 2011-13 Australian Health Survey (AHS)
- 'Five Food Group'³ (FFG) or 'Discretionary'⁴ food classification based on the criteria used to develop the Australian Health Survey 2011-13 Discretionary Food List, which were based on the 2013 Australian Dietary Guidelines (ADGs).

The classification of a food in a core or non-core AGHE category does not necessarily match with the FFG or discretionary food classification in all cases (see section 2.2.2). Individual products within a 5-digit AHS classification may be split across one or more AGHE categories. In addition, in some instances, a 5-digit AHS classification may contain a mix of FFG and discretionary foods (e.g. Breakfast cereals and Snacks).

The TAG database was not updated for the purposes of undertaking this additional modelling in order to allow comparability in results with previous work.

All HSR categories and nutrient points tables in the HSR calculator and food classifications in the TAG dataset were adjusted to reflect all of the recommendations of the HSR Review. This in effect creates a new 'baseline' of HSR star points and HSR star ratings for foods in the TAG database against which further modelling undertaken in this report has been compared.

To avoid confusion, the HSR calculator and TAG database used by the TAG during the Review are referred to as the 'Original' HSR calculator and TAG database, and the updated HSR calculator and TAG database reflecting all recommended changes are referred to as the 'Recommended' HSR calculator. Adjustments made to the Recommended HSR calculator for the purposes of this modelling are referred to as 'scenarios'.

For further information on the TAG Database, refer to Report 1 - Peer Review of Modelling.

2. HSR System Review Recommendation 4b – Total Sugars

During its consideration of the Review Report's findings the Forum noted that the modelling relied upon for mpc consulting to recommend a 25, rather than 30 HSR baseline points scale for sugars, was undertaken in isolation of other HSR system changes and without due consideration of the products impacted. Therefore, the Forum requested that FSANZ undertake additional modelling on the combined impact of all proposed changes to the HSR calculator on both the recommended 25 point scale and a 30 point scale for sugars which was also previously considered by the TAG.

The scope of this additional analysis is limited to consideration of the impacts of a 25 and 30 point scale for total sugars in the context of all other recommended HSR calculator changes and does not consider issues raised in submissions relating to use of an added sugar rather than total sugars content, which is discussed in the Review Report.

The analysis of the impact of a 30 point sugars scale is limited to HSR food categories 1D, 2 and 2D only as the Review recommended a new approach for the calculation of HSRs for non-dairy beverages (HSR category 1), based on a policy decision and use of the French

³ Used to refer to both the Australian Five Food Groups and the New Zealand Four Food Groups, referring to the basic (or core) food groups from which people are recommended to choose the majority of their food every day.

⁴ Used in the ADGs to refer to foods and drinks not necessary to provide the nutrients the body needs, but that may add variety. However, many of these are high in saturated fats, sugars, salt and/or alcohol, and are therefore described as energy dense.

Nutri-Score system which defines a separate points table limited to energy, total sugars and FVNL content only. The AGHE categories Jelly and Ice confectionery were also excluded as the Review recommended that these products should be classified as HSR Category 1 non-dairy beverages due to their similar nutritional profile. The Review also recommended that Unprocessed fruit and Unprocessed vegetables should receive an automatic HSR of 5. These AGHE categories, with HSRs amended as recommended, have been included in the analysis. HSR category 3 and 3D foods were not included in the analysis as a separate total sugars baseline points scale is applied to Category 3 products and it is unlikely that total sugars for these products would ever exceed 45%, so would be minimally affected by extensions to the HSR baseline points scale.

2.1 Total Sugars Scenario modelled

As a new approach was recommended for the calculation of HSRs for non-dairy beverages, these HSR Category 1 products (429 products) were excluded from the TAG dataset for total sugars modelling purposes and not further considered in this analysis. Exclusion of HSR Category 1 products excludes the following AGHE categories:

- Flavoured water
- Whole juices
- Other juices
- Dry beverage mixes
- Carbonated beverages
- Lifestyle drinks
- Cordial
- Ice confectionery
- Jelly

Ice confectionery and Jelly were included in HSR Category 1 for HSR calculation purposes, as recommended in the Review Report.

As described in Section 1.3 above, the HSR calculator has been updated to include all recommended changes arising from the review (Recommended HSR). This new baseline incorporates the 25 point total sugars table in addition to all other changes. In addition to the Recommended HSR calculator, one other Scenario was considered; applying a 30 point scale for total sugars. Points scales used for the Recommended and Scenario modelling are provided in Table 1 below for comparison purposes.

Table 1 Total sugars concentration (g/100 g) and allocated HSR points for foods in HSR categories 1D, 2 and 2D, as applied for Recommended and Scenario HSR calculator models

HSR baseline points for total sugars	RECOMMENDED	SCENARIO
	25 point total sugars table (grams total sugars/100 g)	30 point total sugars table (grams total sugars/100 g)
0	0	0
1	5.01	5.01
2	8.91	8.31
3	12.81	11.51
4	16.81	14.71
5	20.71	18.01
6	24.61	21.21
7	28.51	24.51
8	32.41	27.71
9	36.31	30.91
10	40.31	34.21
11	44.21	37.41
12	48.11	40.71
13	52.01	43.91
14	55.91	47.11
15	59.81	50.41
16	63.81	53.61

HSR baseline points for total sugars	RECOMMENDED 25 point total sugars table (grams total sugars/100 g)	SCENARIO 30 point total sugars table (grams total sugars/100 g)
17	67.71	56.91
18	71.61	60.11
19	75.51	63.41
20	79.41	66.61
21	83.31	69.81
22	87.31	73.11
23	91.21	76.31
24	95.11	79.61
25	99.01	82.81
26		86.01
27		89.31
28		92.51
29		95.81
30		99.01

The HSR calculator algorithm is based on that used for the Nutrient Profiling Scoring Criterion (NPSC) for nutrition and health claims, dark blue shading indicates the NPSC cut-off

2.2 Outcomes of Total Sugars Scenario modelling

2.2.1 Impact of Scenario by AHGE categories

Increasing the number of HSR baseline points for total sugars means that products incur more baseline points at lower total sugars concentrations and the maximum baseline points available is increased. There is less impact for products with lower sugars concentrations (e.g. currently a product with 10 g total sugars/100 g receives 2 HSR baseline points for the Original, Recommended and Scenario points scale) but the impact increases for products with higher sugars concentrations (e.g. a product with 30 g total sugars/100 g would receive 6, 7 and 8 HSR baseline points respectively). The impact of total sugars within the algorithm is therefore increased for both the Recommended and Scenario models, relative to other nutrients/components, the impact being greater for the Scenario model.

Overall, the Scenario (30 point scale) affected a total of 466 (~9%) of the 4919 products in HSR categories 1D, 2 and 2D, compared to the Recommended HSR calculator (25 point scale) encompassing 30 AGHE categories in the TAG database. All affected products had a reduction in HSR.

There were no changes to any HSR for products in 12 AGHE categories:

- Beverages dry mix/milk powder
- Cream cheese
- Dairy alternative beverages
- Dips
- Meats/fish
- Pasta/grains/flour
- Pizza
- Plant proteins
- Soups/stocks
- Unprocessed fruit
- Unprocessed vegetables
- Yeast spread

For the remaining 18 AGHE categories in this analysis, the proportion of affected products in non-core AGHE categories was generally higher (range of 1-32%, with most affected products in Custard/desserts, and Miscellaneous), than for core AGHE categories (<1-26%), with Processed fruit being the most affected (26% of products) followed by Breakfast cereals (21%). Refer to Figure 1 and Appendix 1, Table 7.

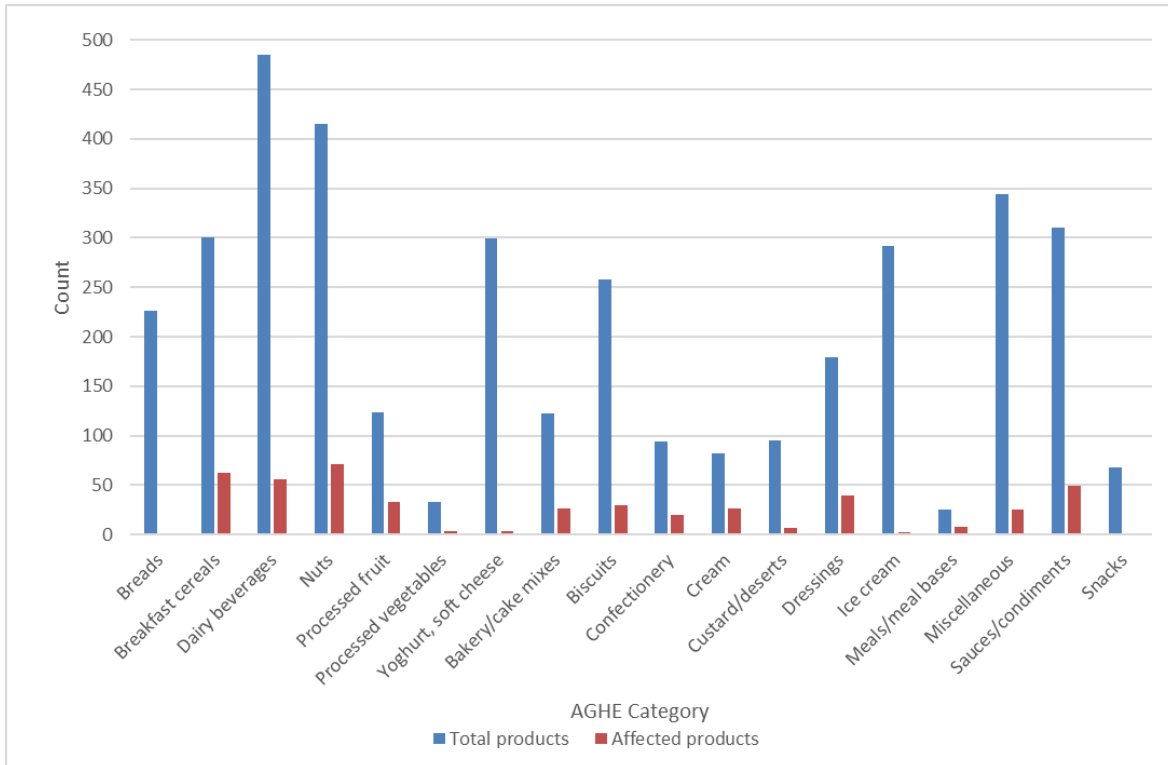


Figure 1 Total number of TAG database products for each affected AGHE category and number in each category affected by scenario adjustment to Total sugars points table compared with Recommended HSR calculator.

Figure 2 below summarises the overall distribution of HSR Star Points⁵ for products in the TAG database for all AGHE categories affected by the Total Sugars Scenario. For the vast majority of affected foods, there was a maximum reduction of 1 star point (0.5 stars), with a total of 23 products having a reduction of 2 star points (1 star) in only four AGHE categories: Breakfast cereals, Cream, Custards/desserts, and Snacks.

⁵ In the HSR calculator star points from 1-10 are assigned to the HSR final score for a food product according to the scaling criteria employed for each HSR food category, the star points translate to the ten increments in health star ratings displayed on food labels (½ to 5 stars)

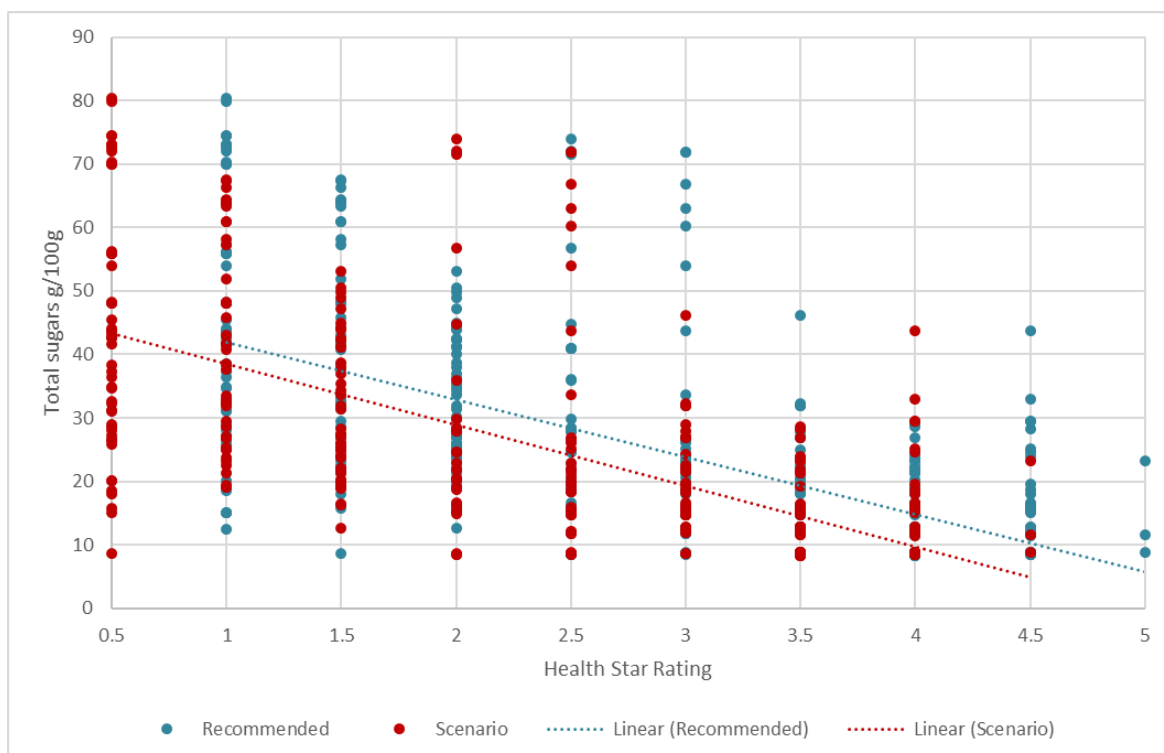


Figure 2 Distribution of Health Star Rating of TAG database products affected by scenario adjustment to Total Sugars HSR baseline points table compared to the Recommended HSR calculator

2.2.2 Impact of Scenario on FFG and discretionary products

As each product in the TAG database was assigned a FFG/discretionary food flag, the impact of the Scenario can be assessed by its effect on FFG and discretionary foods. This can give an indication of the overall impact of the Scenario in relation to consistency with dietary guidelines. If there is to be greater consistency with dietary guidelines, FFG foods would generally score higher HSRs and discretionary foods lower.

Overall, of the 4919 products in HSR categories 1D, 2 and 2D in the TAG database, 2985 (61%) were flagged as FFG and 1934 (39%) were flagged as discretionary.

Of the 466 foods affected by the Total Sugars Scenario, 236 (51%) were FFG and 230 (49%) were discretionary. This equates to approximately 5% of FFG and 5% of discretionary foods, as a proportion of all products in HSR Categories 1D, 2 and 2D in the TAG database. Refer to Appendix 1 Table 8 for a detailed breakdown of the impact on FFG and discretionary products by AGHE category.

Another general indicator of alignment with the dietary guidelines is the number of potential 'outliers', that is, the number of FFG foods that may be scoring relatively low HSRs and discretionary foods scoring relatively high HSRs. In order to be consistent with previous work on alignment with dietary guidelines carried out by the TAG, a HSR of <3 is used to identify potential FFG outliers, and a HSR of ≥ 3 is used to identify potential discretionary food outliers.

When the impact on FFG and discretionary products in the TAG database is broken down by HSR, generally HSRs are similar or there is a small decrease in HSRs for discretionary products at the lower end of the HSR scale. Of foods affected, approximately 8% of all FFG foods and 12% of all discretionary foods had a reduction of 1 or 2 star points. As shown in Figure 3, the number of discretionary outliers reduced as a result of the total sugars scenario, but the number of FFG outliers increased slightly.

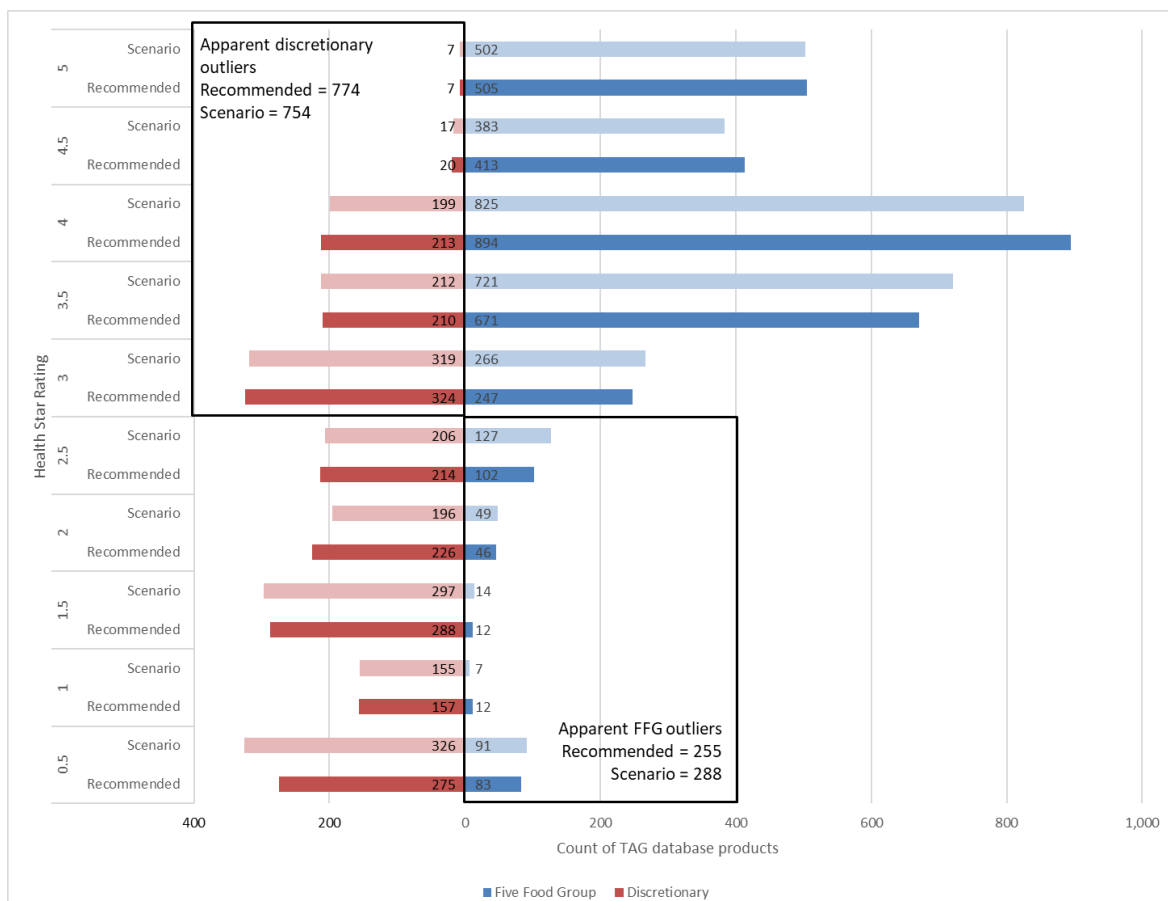


Figure 3 Impact of Total sugars scenario on FFG and discretionary foods broken down by Health Star Rating.

2.2.3 Types of products affected by Scenario

In order to provide a better indication of the types of products that were affected by the Scenario adjustment to the total sugars HSR baseline points table, AGHE categories were broken down into their allocated 5-digit AHS classification. Details of affected 5-digit classifications for core AGHE categories are provided in Appendix 1, Table 10 and for non-core AGHE categories in Table 11.

For core AGHE categories, the 5-digit classifications with the greatest number of affected products included:

- Yoghurt, flavoured or added fruit, full fat (26 products affected)
- Milk, coffee/chocolate flavoured and milk-based drinks, full fat (25)
- Milk, other flavoured and milk-based drinks, full fat (16)
- Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat) (15)
- Yoghurt, added nutrients or other substances (14)
- Yoghurt, flavoured or added fruit, reduced fat (12)
- Other dried fruit including mixed dried fruit (12)
- Breakfast cereal, mixed grain, with fruit and/or nuts (12)
- Breakfast cereal, mixed grain, fortified, >20 g total sugars/100g (11, products affected, 4 of which were flagged as discretionary)
- Breakfast cereal, wheat based, with fruit and/or nuts, fortified, ≤25 g total sugars/100g (11).

A total of 16 individual products affected in the Total Sugars Scenario were flagged as discretionary within their FFG 5-digit AHS classification. This included 5 of 63 affected products in Breakfast cereals, and 7 of 29 affected products in Processed fruit.

For non-core AGHE categories, the most affected 5-digit AHS classifications were:

- Lollies and other confectionery, sugar sweetened (17 products affected).
- Muesli and cereal style bars, added coatings or confectionery (15)
- Dairy desserts, smooth or gelatine-based dairy desserts (14)
- Ice cream, tub varieties, >10 g saturated fat/100 g (14)
- Muesli and cereal style bars, with fruit and/or nuts(14).

A total of 19 individual products affected by the Total Sugars Scenario were flagged as FFG within their discretionary 5-digit AHS classification. This included 11 of 26 affected Custard/desserts products and 5 of 8 affected Miscellaneous products.

2.2.4 Effect of Scenario on key food products

The Review Report noted a number of key product types that were of concern to stakeholders in respect to the perceived inappropriately high HSRs of some products with relatively high levels of added sugars when using the original HSR calculator. These included some breakfast cereals, ready to eat muesli and cereal bars, sweetened and flavoured milks and yoghurts. Recommendations in the Review Report, particularly Recommendation 4 sought to address these concerns.

Noting that products within a 5-digit AHS classification could be mapped to different AHGE categories and include both FFG and discretionary foods, the impact of the 30 point scale Scenario compared to the recommended 25 point scale on the product types is:

- Breakfast cereals (previously identified as an issue as certain breakfast cereals with relatively high levels of added sugars were obtaining an HSR ≥ 3.5 using the original HSR calculator).

Of the 300 products in the TAG database that are included in the relevant 5-digit classifications⁶, 63 products (21%) had a reduction of 1-2 HSR star points, 52 with a reduction of 1 star point (0.5 star) and 11 with a reduction of 2 star points (1.0 star), refer to Table 2. Five of the affected products were flagged as discretionary. Total sugars content of affected products ranged from 8.6-41.3 g/100g with 21 products containing > 25 g/100g. Of those products affected by the adjustment to the points table, Recommended HSR star points ranged from 3-10, with an average of 7.4 (3.5-4 stars). This was reduced to a range of 2-9 and an average of 6.2 HSR star points (3-3.5 stars) in the Scenario model, with the largest reduction of 1-2 star points (0.5-1.0 stars) from the Recommended model being for products with 9 HSR star points (4.5 stars), refer to Figure 4. The intention of a 30 point total sugars baseline points table is to more strongly penalise products with higher concentrations of total sugars. The Scenario model affected breakfast cereals with total sugar contents of ≤ 25 g/100g as well as those with >25 g/100g total sugars so may not provide the desired assistance in discriminating between these two groups of breakfast cereal products (Table 2). In fact, a higher proportion of products with ≤ 25 g total sugars /100g (21%) would have a reduction of 2 HSR star points (1 star) than the products with >25 g total sugars /100g (10%).

⁶ AHS 5-digit codes include 12502, 12504, 12506, 12507, 12509, 12510, 12511, 12513, 12514, 12515, 12601, 12602 covering corn, rice, wheat, mixed grain based breakfast cereals with/ without fruit and/or nuts and porridge style cereals. See Appendix 1, Table 10 for full list of classification names.

Table 2 Summary of number of affected breakfast cereal products above and at or below 25 g Total Sugars /100 g content by reduction in HSR star points.

Reduction in HSR star points	Number affected products	Total sugars ≤ 25 g/100g	Total sugars >25 g/100g
1	52	33 (79%)	19 (90%)
2	11	9 (21%)	2 (10%)
Total	63	42	21

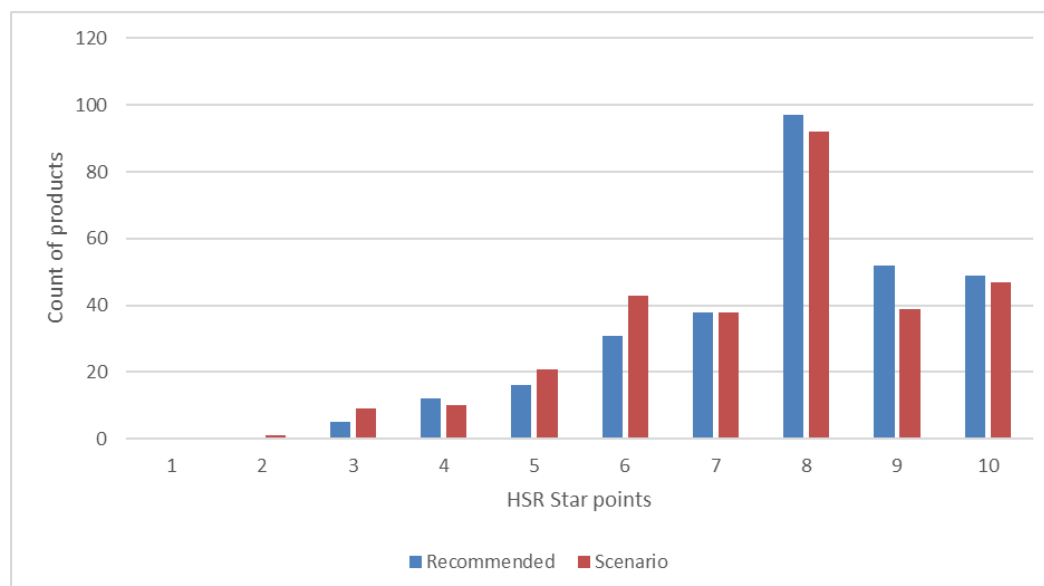


Figure 4 Distribution of HSR Star Points for all Breakfast cereals in TAG Database affected by Scenario adjustment to Total Sugars HSR baseline points table compared to the Recommended HSR calculator

- Muesli and cereal bars

All Muesli and cereal bar products are flagged as discretionary. Of the 125 muesli and cereal bar products in the TAG database that are included in the relevant 5-digit classifications⁷, 41 were affected in the Scenario model; of these 34 had a reduction of 1 HSR star point and 7 had a reduction in 2 HSR star points, with 4 of these in Muesli and cereal style bars, added coatings or confectionery 5-digit classification. Of those products affected by Scenario, total sugars content ranged between 12.1-41 g/100 g. Recommended HSR star points for affected products ranged from 2-9 star points with an average of 5.7 (2.5-3 stars) and in the Scenario model this was reduced to a range of 1-8 star points with an average of 4.5 (2-2.5 stars), with the largest reduction from the Recommended HSR calculator being for products with 8 HSR start points (4 stars) by 1-2 star points (0.5-1.0 stars), refer to Figure 5.

⁷ AHS 5-digit codes 28303 Muesli and cereal style bars, added coatings or confectionery, 28301 Muesli and cereal style bars, no fruit, 28302 Muesli and cereal style bars, with fruit and/or nuts, 28304 Muesli bar with fruit or fruit paste filling. See Appendix 1, Table 10 for full list of classification names.

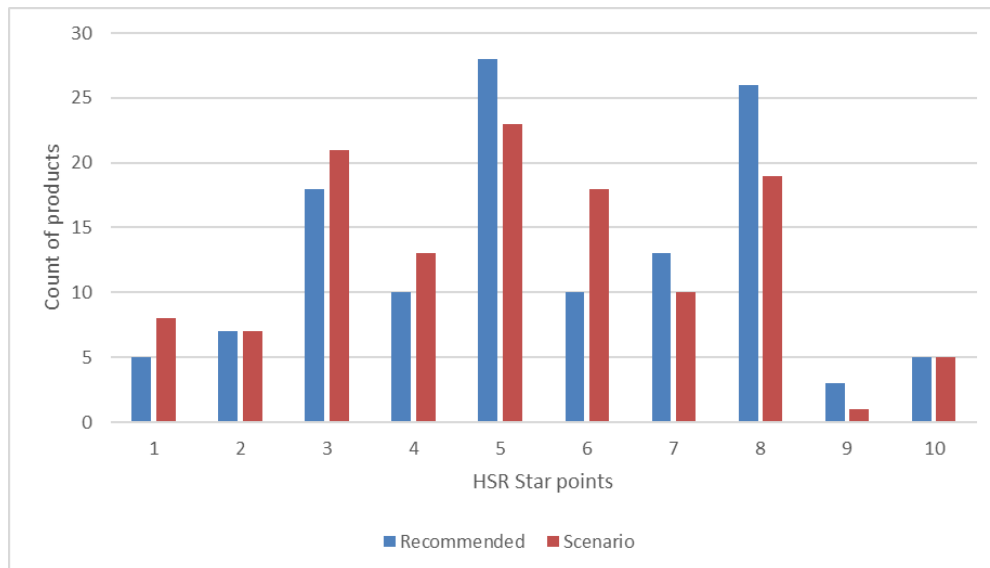


Figure 5 Distribution of HSR Star Points for all Muesli & Cereal Bars in TAG Database affected by Scenario adjustment to Total Sugars HSR baseline points table compared to the Recommended HSR calculator

- Flavoured milks

All flavoured milk-based drinks are flagged as FFG. Of the 226 products in the TAG database that are included in the relevant 5-digit classifications⁸ a total of 46 were impacted by a reduction of 1 star point. Figure 6, shows the distribution for all flavoured milks in the TAG database. Recommended HSR star points for just those products affected by the Scenario model ranged from 6-9 points, (average 7.8, approximately 4 stars) and in the Scenario model this reduced to a range of 5-8 HSR star points (average 6.8, approximately 3.5 stars). The greatest number of products affected had 8 star points in the Recommended HSR calculator (4 stars), reducing to 7 star points. Total sugars content for the affected products ranged from 8.4-12.8 g/100g.

⁸ AHS 5-digit codes 19801 Milk, coffee/chocolate flavoured and milk-based drinks, full fat, 19802 Milk, other flavoured and milk-based drinks, full fat, 19803 Milk, coffee/chocolate flavoured and milk-based drinks, reduced fat, 19804 Milk, other flavoured and milk-based drinks, reduced fat and 19806 Milk-based fruit drinks) See Appendix 1, Table 10 for full list of classification names.

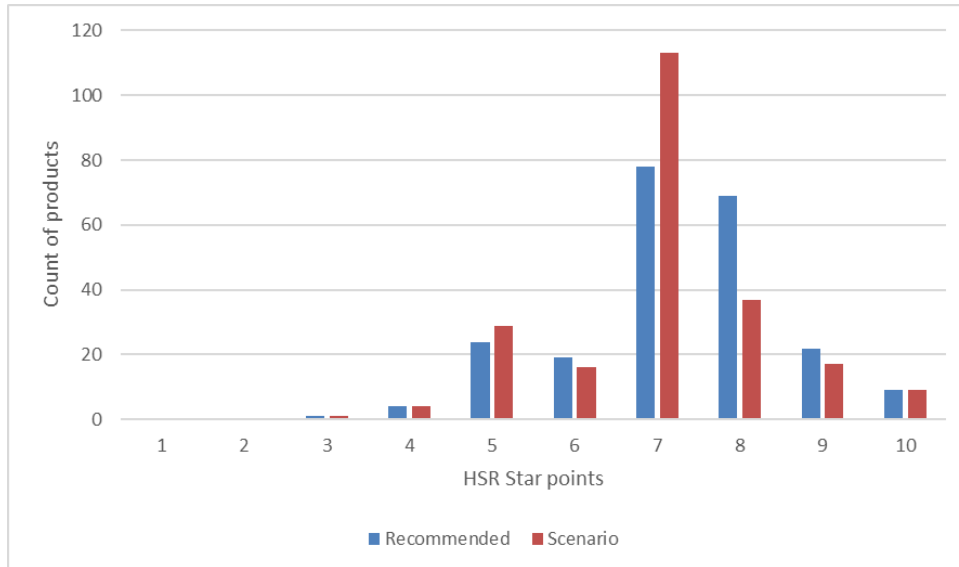


Figure 6 Distribution of HSR Star Points for all Flavoured Milks in TAG Database affected by Scenario adjustment to Total Sugars HSR baseline points table compared to the Recommended HSR calculator

- Yoghurts

All yoghurts in the TAG database are flagged as FFG foods. Of the 381 products in the TAG database that are included in the relevant 5-digit classifications⁹, 70 products had a reduction of 1 star point, with 26 (37%) of these being Yoghurt, flavoured or added fruit, full fat. Recommended HSR star points for affected products ranged from 5-10 points with an average of 7.6 (3.5-4 stars) and in the Scenario model reduced to a range of 4-9 points with an average of 6.6 (3-3.5 stars), refer to Figure 7. The greatest number of products affected were those with 8 star points (4 stars) in the Recommended HSR calculator, reducing to 7 star points (3.5 stars) with total sugars ranging between 8.4-16.3 g/100 g.

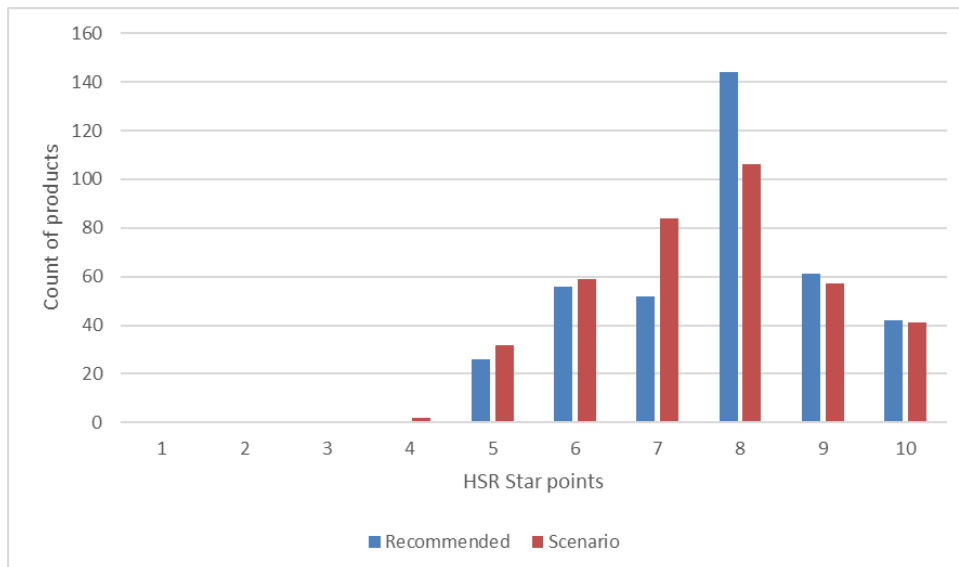


Figure 7 Distribution of HSR Star Points for all Yoghurts in TAG Database affected by Scenario adjustment to Total Sugars points table compared to the Recommended HSR calculator

⁹ AHS 5-digit codes 19201 Yoghurt, natural, regular fat and high fat (>4 g/100g fat), 19202 Yoghurt, natural, reduced fat, 19204 Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat), 19205 Yoghurt, flavoured or added fruit, full fat, 19207 Yoghurt, flavoured or added fruit, reduced fat, 19211 Yoghurt, added nutrients or other substances. See Appendix 1, Table 10 for full list of classification names.

2.3 Conclusion

The total sugars Scenario model indicates changes that would be in addition to any changes to HSRs as a result of all other recommended changes to the HSR calculator (Recommended model).

Analysis of the impact of using a revised 30 HSR baseline point total sugars scale indicates that:

- Approximately 9% of products in the TAG database would be affected by a reduction in HSR, with the proportion of FFG (5%) and discretionary (5%) products impacted being approximately equal.
- Product categories impacted tend to be those indicated as being of most concern to stakeholders with the greatest impact on FFG products seen in the Processed fruit (20%), Breakfast cereals (19%) and Yoghurt/soft cheese (17%) categories and for discretionary foods in the Ice cream and Confectionery (22% respectively), Bakery/cake mixes (20%) and Custard/desserts (18%) categories.
- The majority of affected products in the TAG database received a 1 star point (0.5 star) reduction with a small proportion of products receiving a 2 star point (1 star) reduction in only four AGHE categories: – Breakfast cereals, Cream, Custards/desserts, and Snacks.

3. HSR System Review Recommendation 4c - Sodium

The Forum was concerned that the changes to sodium HSR baseline points table recommended by the Review to improve the sensitivity of the HSR calculator to foods with high sodium content would only impact a small subset of discretionary foods that are high in sodium (those HSR Category 1D and 2 foods with >900 mg sodium/100 g), providing little incentive for food reformulation. The Forum therefore requested that FSANZ undertake additional modelling on the combined impact of all proposed changes on both the recommended approach and the alternative approach considered in the Review's draft Report. This alternative approach considered applying HSR baseline points at 75 mg/100 g of sodium intervals across all sodium baseline points, rather than the 90 mg/100 g across all baseline points recommended in the Review.

3.1 Sodium Scenarios modelled

As was the case for total sugars modelling, all products in HSR Category 1 (429 products) were excluded from the dataset for sodium modelling purposes and not further considered in this analysis as a new approach is recommended for the calculation of HSRs for non-dairy beverages which is based on energy, total sugars and FVNL only. Also as was the case in the total sugars analysis, Unprocessed fruit and Unprocessed vegetables, with HSRs amended as recommended, have been included in the analysis.

In addition to the Recommended HSR calculator, two Sodium Scenarios were modelled by adjustments to the HSR baseline points tables for Category 1D, 2 and 2D foods only (Scenario 1) and 1D, 2, 2D, 3 and 3D (Scenario 2). For the Recommended model HSR baseline point allocations were at 90 mg/100 g increments, consistent with the NPSC algorithm on which the HSR algorithm is based, which has allocations up to 900 mg sodium/100 g. In the Scenarios, the adjusted points were allocated per 75 mg/100 g increment starting from 0 mg/100 g up to 30 points (maximum of 2250 mg sodium/100g compared to a maximum of 2700 mg/100g for the Recommended model). The sodium

concentration cut-offs and HSR points allocated for the Recommended and each Scenario models are provided in Table 3.

Table 3: Sodium concentration (mg/100 g) and allocated HSR baseline points for foods in HSR categories 1D, 2, 2D, 3 and 3D for Recommended and two scenario models.

HSR baseline points for sodium	Recommended		Scenario 1		Scenario 2	
	Category 1D, 2 & 2D Foods 90 mg sodium/100 g intervals	Category 3 & 3D Foods 90 mg sodium/100 g intervals	Category 1D, 2 & 2D Foods 75 mg sodium/100 g intervals	Category 3 & 3D Foods 90 mg sodium/100 g intervals	Category 1D, 2 & 2D Foods 75 mg sodium/100 g intervals	Category 3 & 3D Foods 75 mg sodium/100 g intervals
0	0	0	0.00	0	0.00	0.00
1	90.01	90.01	75.01	90.01	75.01	75.01
2	180.01	180.01	150.01	180.01	150.01	150.01
3	270.01	270.01	225.01	270.01	225.01	225.01
4	360.01	360.01	300.01	360.01	300.01	300.01
5	450.01	450.01	375.01	450.01	375.01	375.01
6	540.01	540.01	450.01	540.01	450.01	450.01
7	630.01	630.01	525.01	630.01	525.01	525.01
8	720.01	720.01	600.01	720.01	600.01	600.01
9	810.01	810.01	675.01	810.01	675.01	675.01
10	900.01	900.01	750.01	900.01	750.01	750.01
11	990.01	990.01	825.01	990.01	825.01	825.01
12	1080.01	1080.01	900.01	1080.01	900.01	900.01
13	1170.01	1170.01	975.01	1170.01	975.01	975.01
14	1260.01	1260.01	1050.01	1260.01	1050.01	1050.01
15	1350.01	1350.01	1125.01	1350.01	1125.01	1125.01
16	1440.01	1440.01	1200.01	1440.01	1200.01	1200.01
17	1530.01	1530.01	1275.01	1530.01	1275.01	1275.01
18	1620.01	1620.01	1350.01	1620.01	1350.01	1350.01
19	1710.01	1710.01	1425.01	1710.01	1425.01	1425.01
20	1800.01	1800.01	1500.01	1800.01	1500.01	1500.01
21	1890.01	1890.01	1575.01	1890.01	1575.01	1575.01
22	1980.01	1980.01	1650.01	1980.01	1650.01	1650.01
23	2070.01	2070.01	1725.01	2070.01	1725.01	1725.01
24	2160.01	2160.01	1800.01	2160.01	1800.01	1800.01
25	2250.01	2250.01	1875.01	2250.01	1875.01	1875.01
26	2340.01	2340.01	1950.01	2340.01	1950.01	1950.01
27	2430.01	2430.01	2025.01	2430.01	2025.01	2025.01
28	2520.01	2520.01	2100.01	2520.01	2100.01	2100.01
29	2610.01	2610.01	2175.01	2610.01	2175.01	2175.01
30	2700.01	2700.01	2250.01	2700.01	2250.01	2250.01

The HSR calculator algorithm is based on that used for the Nutrient Profiling Scoring Criterion (NPSC) for nutrition and health claims, dark blue shading indicates the NPSC cut-off

3.2 Outcomes of Sodium Scenarios modelling

3.2.1 Impact of Scenarios on HSR Category 3 and 3D products

Outcomes of modelling were identical for both Scenario 1 and Scenario 2 for the HSR categories 1D, 2 and 2D. HSR Category 3 Fats, oils & oil based spreads and 3D Cheese, were impacted by Scenario 2 (refer to Appendix 2 Table 12).

Within HSR Category 3 and 3D, the AGHE category most impacted by the changes to sodium points table was Cheese, with 345 foods (78%) receiving lower star points, an

average reduction in star points of 1.2 (approximately ½ star) and a maximum of 3 star points (1.5 stars).

The AGHE Cheese category includes products such as ripened cheddar and processed cheeses and their reduced fat counterparts as well as surface ripened styles of cheese and is made up of a number of AHS 5-digit food classifications, all of which are flagged as FFG, as set out in Appendix 2 Table 13.

Reduced fat processed cheeses were more strongly affected by the proposed sodium changes to the points tables than other classifications. Four Cheese products in total in the TAG database had a reduction of 3 HSR star points (1.5 stars), all of which were in the reduced fat processed cheese classification. The 5-digit classification Cheese, camembert, brie and other surface ripened cheeses made up less than one fifth of all of the Cheese AGHE category in the TAG database and proportions of products affected and average reductions in HSR star scores were similar to other cheese classifications.

The AGHE category Fats, oils & oil based spreads, was minimally affected by the proposed changes to the sodium points table, with a total of 12 of the 93 products in the TAG database affected by a reduction in HSR star points of 1 (0.5 stars). Details of this category, broken down by AHS 5-digit classification is also set out in Appendix 2 Table 13.

Overall, the effect of the proposed additional changes to the sodium points table on HSR Category 3 and 3D foods would create a greater misalignment with Dietary Guidelines recommendations than the Recommended HSR calculator. A broad range of FFG foods would be affected with a greater reduction in HSRs for lower fat foods, which is not in line with the Dietary Guidelines recommendation to eat dairy products, preferably reduced fat products.

Further analysis is restricted to Scenario 1, affecting HSR categories 1D, 2 and 2D only.

3.2.2 *Impact of Scenario 1 on HSR Category 1D, 2 and 2D products, by AHGE category*

Following exclusion of HSR categories 1, 3 and 3D, there were a total of 4919 Category 1D, 2 and 2D products remaining in the TAG database. Of these a total of 701 (14%) were affected by a reduction in HSR as a result of Scenario 1 adjustments to the sodium HSR baseline points table, refer to Figure 8. This 14% of affected products is in addition to the products affected by the adjustments to the sodium HSR baseline points table recommended in the Review Report (Recommended model).

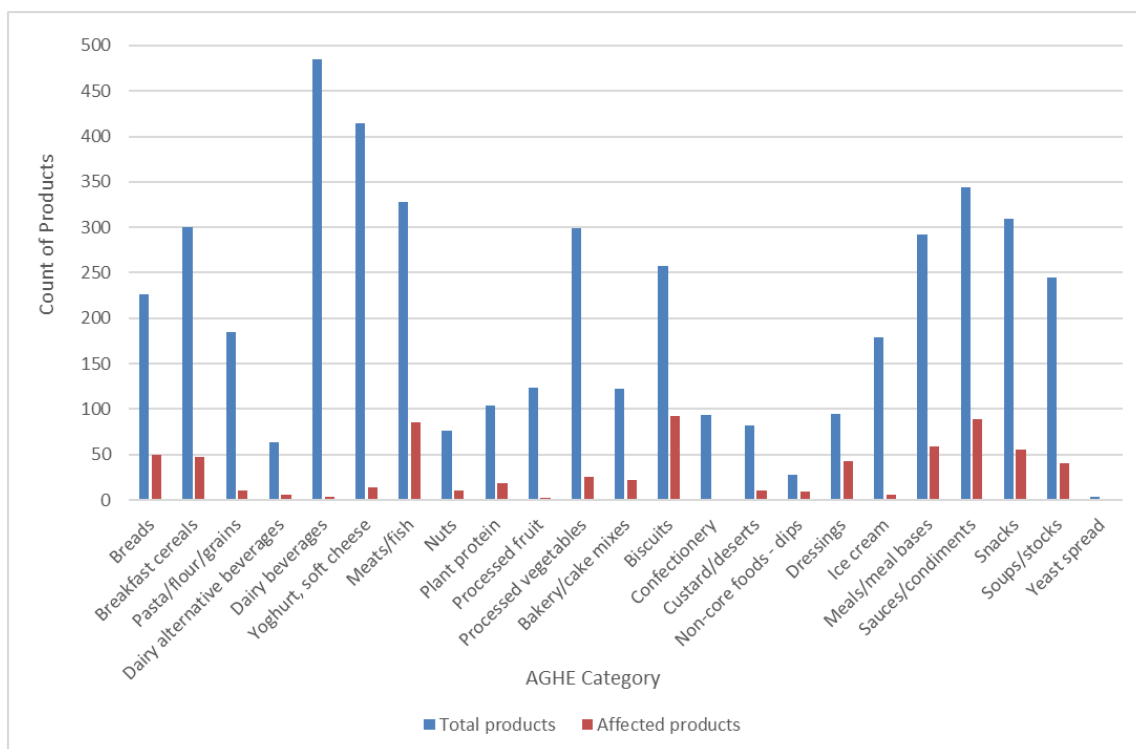


Figure 8 Total number of TAG database products for each affected AGHE category and number in each category affected by Scenario 1 adjustment to Sodium HSR baseline points table compared with the Recommended HSR calculator

Of the 30 AGHE categories considered, seven categories were not impacted by Scenario 1, with no reductions in star points for any products in:

- Dairy beverage dry mix
- Cream
- Cream cheese
- Miscellaneous foods
- Pizza
- Unprocessed fruit
- Unprocessed vegetables.

A number of AGHE categories were minimally impacted, with only 1-3% of products in each category affected by a reduction of 1 star point (0.5 stars):

- Dairy beverages, 3 of 485 products, 1%
- Yoghurt, soft cheese, 14 of 415 products, 3%
- Processed fruit, 2 of 124 products, 2%
- Confectionery, 1 of 94 products, 1%
- Ice cream, 6 of 179 products 3%.

Sodium concentrations in AGHE categories with no or a low proportion of affected products (as identified above) were at the lower end of the range of sodium concentrations captured in the TAG database with average concentrations ranging from 2-53 mg/100 g, except for Miscellaneous foods, Pizza and Cream cheese (average of 9,410, 603 and 446 mg sodium/100 g, respectively), noting that Pizza was under-represented in the TAG database.

For other AHGE categories, the proportion of products affected ranged from 6% for Pasta/flour/grains to 45% for Dressings. Reductions in HSR star points ranged from 1-3 points (0.5-1.5 stars). Figure 1 below summarises the overall distribution of HSR star points for all TAG products affect by Sodium Scenario 1. The majority (93%) of affected products

had a reduction in 1 star point (0.5 stars), with 6% and 1% having a 2 and 3 star point reduction, respectively. Categories of specific interest are discussed in greater detail in section 3.2.5.

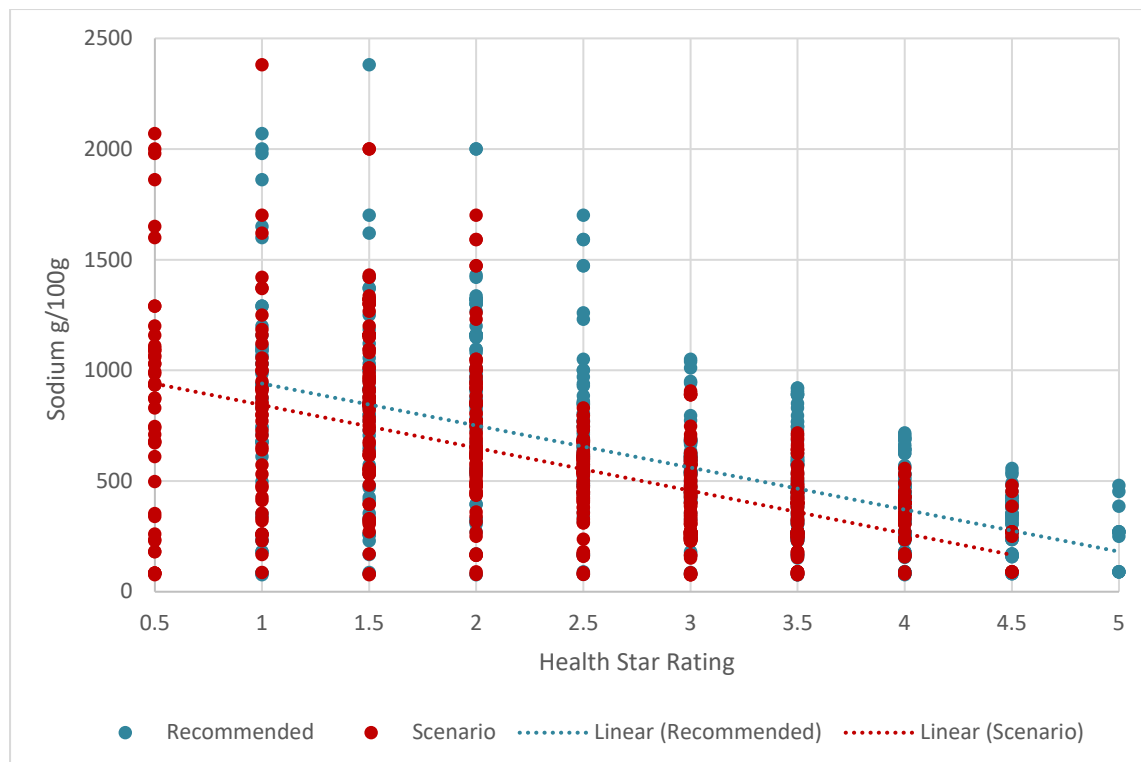


Figure 9 Distribution of Health Star Rating of TAG database products affected by Scenario 1 adjustment to Sodium points table compared to the Recommended HSR Calculator

3.2.3 Impact of Scenario 1 on FFG and discretionary products

Overall, of the 4,919 products in HSR categories 1D, 2 and 2D in the TAG database, 2985 (61%) were flagged as FFG and 1934 (39%) were flagged as discretionary. Of the 701 products that were affected by Scenario 1 compared to the Recommended model, 331 (47%) were flagged as FFG foods and 370 (53%) were flagged as discretionary foods. Outcomes are summarised in Figure 10 below with details provided in Appendix 2 Table 14 and Table 15.

AGHE categories with the greatest proportion of FFG products affected included Bread (22%), Plant protein (18%), Biscuits (16%), Breakfast cereals (15%) and Meals/meal bases and Nuts (14% respectively). AGHE categories with the greatest proportion of affected discretionary products included Dressings (44%), Dips (32%), Sauces/condiments and Yeast spread (25% respectively) and Biscuits (20%).

When the effect of the Sodium Scenario 1 was analysed against HSRs, generally there were more FFG and discretionary products affected in the mid-star ranges (HSRs of 2-3).

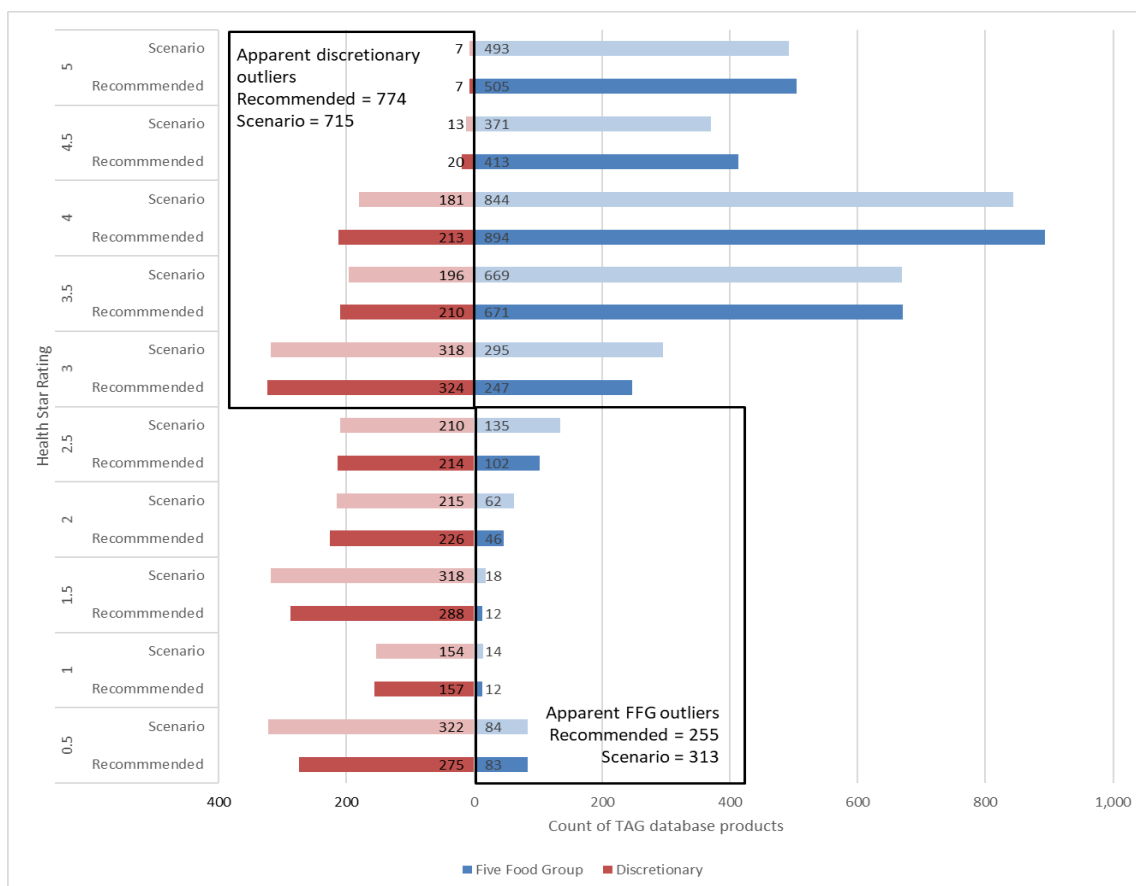


Figure 10 Impact of Sodium Scenario 1 on FFG and discretionary foods broken down by Health Star Rating.

3.2.4 Types of products affected by Scenario 1

When breaking each 'core' AGHE category down to its 5-digit AHS classification (refer to Appendix 2 Table 16), of the 273 affected products 64 were flagged as discretionary. Within the Meats/fish AGHE category, 44 of the 85 affected products were flagged as discretionary. However, the most affected 5-digit classification was Packed fin fish, with all 26 affected products (of 103 in category) flagged as FFG.

There were a number of 5-digit classifications in 'core' AGHE categories where all affected products were flagged as discretionary:

- Ham (18 affected out of 29),
- Vegetable-based pickles, chutneys and relishes (12 of 25).
- Fin fish, battered or crumbed (9 of 27)
- Fish and seafood products (5 of 20)
- Potato products (5 of 47)
- Processed delicatessen meat, mammalian (4 of 9)
- Processed delicatessen meat, poultry (4 of 6).

Other 5-digit classifications with higher numbers of affected FFG products included:

- Meat substitutes (15 affected out of 38 products)
- Breads, and bread rolls, mixed grain, mandatorily fortified (14 of 47)
- Breads, and bread rolls, wholemeal and brown, mandatorily fortified (11 of 37)
- Breakfast cereal, mixed grain, with fruit and/or nuts, fortified (11 of 39).

Also notable was Breakfast cereal, corn based, fortified where 7 of the 11 products (64%) in this 5-digit classification were affected by Sodium Scenario 1.

Within non-core AGHE categories (refer to Appendix 2 Table 17) 428 out of 1727 (25%) products were affected by Sodium Scenario 1. The majority of these affected foods were flagged as discretionary, however 122 were identified as FFG.

Five-digit classifications for which all affected foods were identified as FFG included:

- Savoury biscuits, wheat based, plain, energy ≤ 1800 kJ per 100 g (27 affected out of 39 products)
- Savoury pasta/noodle and sauce dishes, ≤ 5 g saturated fat/100 g (21 of 70)
- Soup, vegetable only (11 of 60)
- Savoury biscuits, rice based (includes rice cakes) (9 of 25)
- Stock, prepared (8 of 22)
- Soup containing meat, poultry or seafood (7 of 54).

Other non-core 5-digit categories with a large number of affected products included:

- Savoury biscuits, wheat based, plain, energy > 1800 kJ per 100 g (33 affected out of 60 products)
- Savoury sauces, not tomato based, commercial (25 of 107)
- Savoury sauces, tomato based, commercial (20 of 89)
- Mayonnaise and cream-style dressings, full fat (19 of 40).

3.2.5 Effect of Scenario 1 on key food products

The sodium report prepared by the TAG during the HSR review noted a number of key product types that were noted to be of concern by respondents to the HSR review. These included Salty snacks, Gravy mixes, Recipe and sauce mixes, processed meat and Salted/unsalted products such as nuts.

Noting that products within a 5-digit AHS classification could be mapped to different AHGE categories and include both FFG and discretionary foods, effects of Sodium Scenario 1 on these product types is:

- Salty snacks –previously identified as an issue as some salty snacks were receiving higher than expected HSRs in the original HSR calculator because of the FVNL, fibre and/or protein content. Concerns were mainly around such products as Potato and other vegetable crisps, Corn chips, Extruded snacks, Popcorn and Other snacks.

Of the 131 products that are included in the relevant 5-digit classifications¹⁰, 33 (25%) had a reduction of 1-3 HSR star points (0.5-1.5 stars). All of affected products had a sodium concentration in the range of 379-1980 mg/100 g. However, one product, an extruded snack, had a lower sodium concentration (84 mg/100 g). Figure 11 shows the distribution of all salty snack products in the TAG database. Of those products affected by the adjustment to the points table, star points for the Recommended HSR calculator ranged from 2-9, with an average of 4.7 (2-2.5 HSR stars). This was reduced in Scenario 1 to a range of 1-6 and an average of 3.5 HSR star points (1.5-2 stars) The number of products most affected by

¹⁰ AHS 5-digit codes 26101 Potato crisps, 26201 Corn chips, 26202 Popcorn, 26301 Extruded snacks, 26401 Other snacks.

Scenario 1 were those with 7 HSR star points in the Recommended model (3.5 stars) with a reduction of 1-2 points (0.5-1 stars).

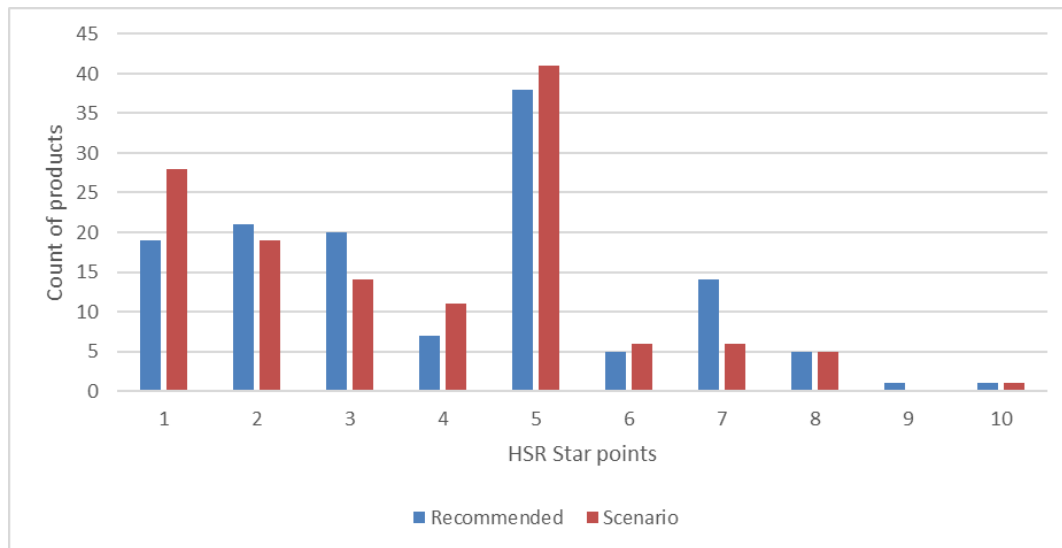


Figure 11 Distribution of HSR Star Points for all Salty Snacks in TAG Database using the Recommended HSR calculator compared to the Sodium Scenario 1 calculator

- Gravy mixes

Of the 38 products in the TAG database 15 were affected by a reduction of 1 star point. As shown in Figure 12, Recommended HSR calculator star points ranged from 6-7 points, (average 6.1, approx. 3 stars) and reduced to 5-6 star points (average 5.1, approx. 2.5 stars). Sodium concentrations for the affected products ranged from 260-613 mg/100 g. (AHS 5-digit code 23102 Dry gravy mixes).

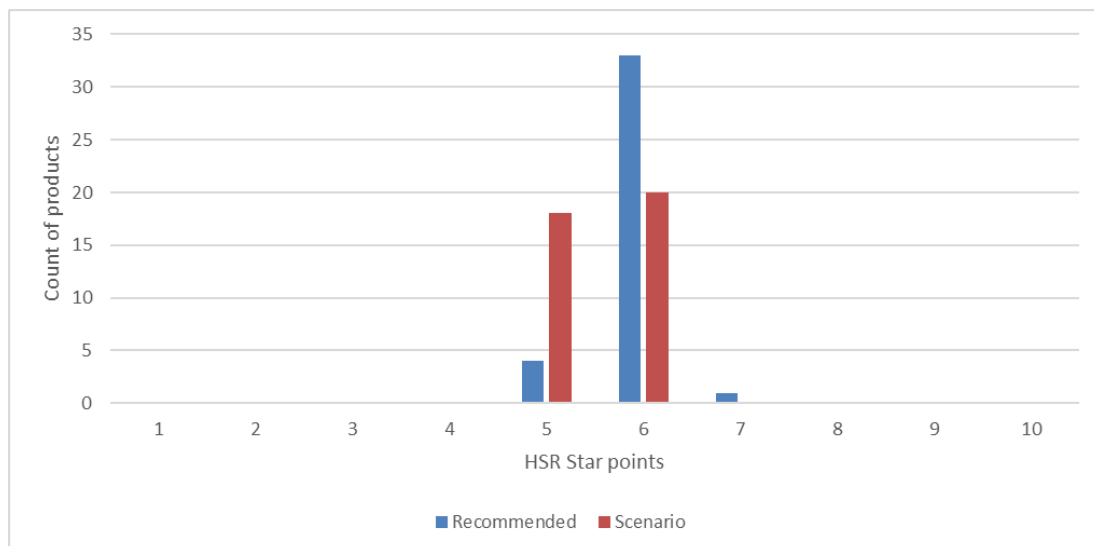


Figure 12 Distribution of HSR Star Points for all Gravy Mixes in TAG Database using the Recommended HSR calculator compared to the Sodium Scenario 1 calculator

- Recipe and sauce mixes

Of the 325 products in the AGHE non-core foods within relevant 5-digit meals/bases and sauces/condiments categories¹¹, 65 had a reduction in 1 star point (0.5 stars). Recommended HSR calculator star points for affected products ranged from 2-9 points (average 5.6, approximately 2.5 stars), and reduced to a range of 1-8 star points (average 4.6, approximately 2 stars), with the greatest number of products affected being those with 8 star points (4 stars) in the Recommended model, refer to Figure 13.

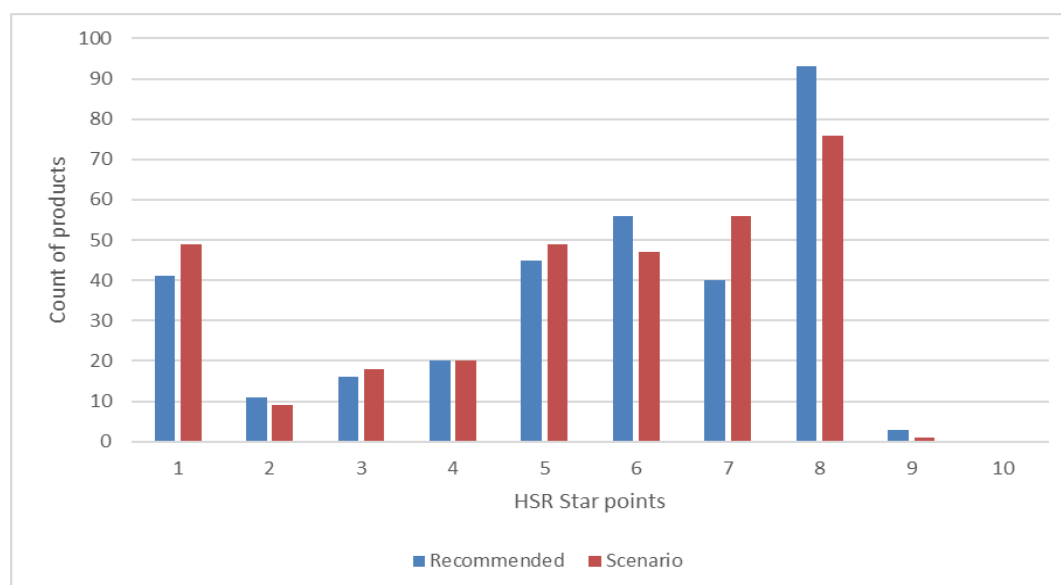


Figure 13 Distribution of HSR Star Points for all Recipe & Sauce Mixes in TAG Database using the Recommended HSR calculator compared to the Sodium Scenario 1 calculator

- Processed meat

Of the 30 products in the TAG database with relevant 5-digit classifications¹², 10 products had a reduction of 1 star point and 3 had a reduction of 2 star points. As shown in Figure 14 below, Recommended HSR calculator star points ranged from 4-8 points, (average 6.6, approx. 3.5 stars) and reduced to 3-7 star points (average 5.4, approx. 2.5 stars) in Scenario 1. Of the 19 products within the Protein meat/fish AGHE category, 9 were affected by the sodium scenario, all of which were flagged as discretionary. Eleven processed meat products were grouped in the non-core meals/meal bases AGHE category. Four of these were affected by Sodium Scenario 1, all of which were flagged as discretionary.

¹¹ AHS 5-digit codes 23103 Savoury sauces, not tomato based, commercial, 23104 Savoury sauces, tomato based, commercial, 23107 Savoury sauces, commercial, simmer style, 23110 Dry savoury sauces and casserole bases and dry mixes.

¹² AHS 5-digit codes 18604 Processed delicatessen meat, mammalian, 18605 Processed delicatessen meat, poultry, 18606 Processed meat, commercially sterile (includes canned meats).

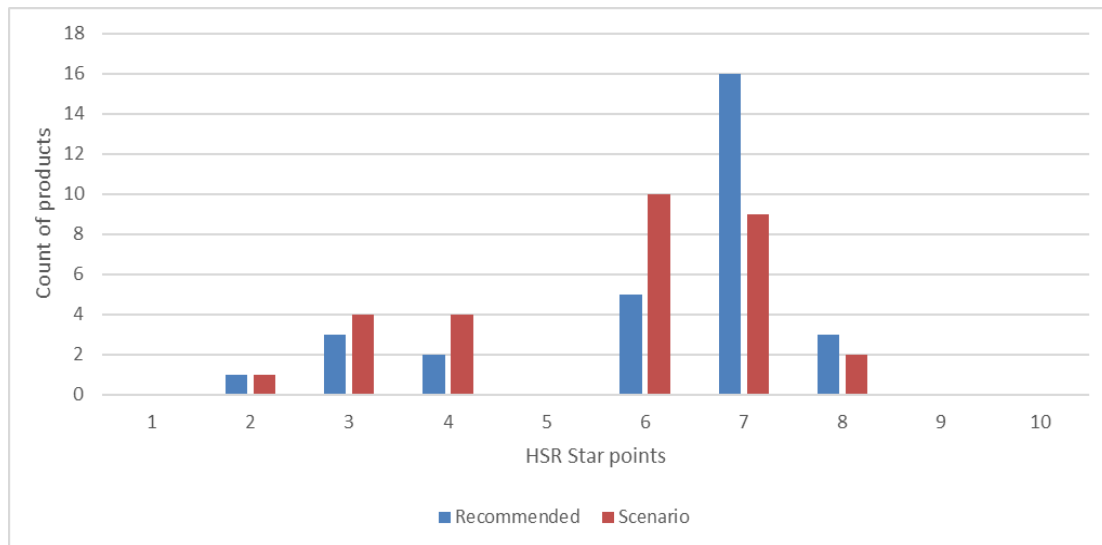


Figure 14 Distribution of HSR Star Points for all Processed meats in TAG Database using the Recommended HSR calculator compared to the Sodium Scenario 1 calculator

- Salted/unsalted nuts

All nuts and nut products are flagged as FFG. Of the 85 products in the TAG database (including relevant 5-digit classifications for nut products such as nut pastes and butters¹³), 13 had a reduction of 1 star point, all of which had a sodium concentration of 380 mg/100 g or greater and three of which were described as salted in the product description (roasted salted nuts (680 mg/100 g), roasted salted peanuts (430 mg/100 g) and Nut, peanut, with skin, roasted, with oil, salted (380 mg/100 g)). Figure 15 show the distribution of star points for all nut products in the TAG database. Of those products affected, Recommended HSR calculator star points ranged from 3-9 points, (average 6.1, approx. 3.0 stars) and reduced to 2-8 star points (average 5.1, approx. 2.5 stars) in Scenario 1. There was generally already a differentiation in star points in the Recommended HSR calculator between nuts with >25 mg sodium /100 g (41 products, range of 2-10 star points, average of 6.6 star points) and unsalted nuts with ≤25 mg sodium /100 g (44 products, range of 7-10 star points, average of 9.2 star points) A similar differentiation occurs between unsalted nut spreads and salted nut spreads (difference of 2-3 star points).

¹³ AHS 5-digit codes 22201 Peanuts, 22202 Peanut products, 22204 Other nuts and nut products and dishes, 22205 Mixed nuts or nuts and seeds.

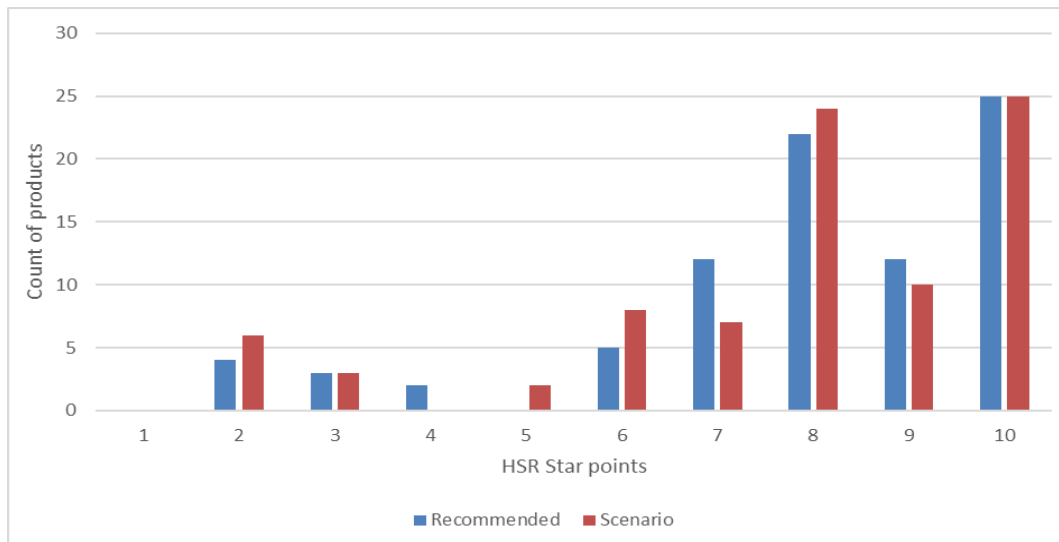


Figure 15 Distribution of HSR Star Points for all Salted/unsalted Nuts in TAG Database using the Recommended HSR calculator compared to the Sodium Scenario 1 calculator

3.2.6 Effect of Scenario 1 on products with ≤ 900 mg sodium /100 g

The sodium report prepared by the TAG noted that modelling undertaken by the TAG showed no change in HSRs for the vast majority of product categories, with <2% of products in the TAG database impacted by the scenarios modelled at that time. This was as a result of those scenarios not making any changes to the sodium points table for sodium concentrations of ≤ 900 mg/100 g. A small number of individual products in the TAG database were impacted in the TAG models as their sodium content was >900 mg/100 g, including processed meats, stock cubes and seasonings and savoury sauces, salty snacks and vegetable pickles. Consistent with the TAG modelling, the Review recommended adjustments to the sodium baseline points table for sodium concentrations >900 mg/100 g, incorporated in the Recommended HSR calculator.

As the sodium scenarios modelled for this report included adjustments to the sodium points table for all sodium concentrations, including for sodium concentrations ≤ 900 mg/100 g, a much higher proportion, 15%, of HSR categories 1D, 2 and 2D products in the TAG database were impacted (Scenario 1). This comprised a much broader range of food products across the majority of AGHE categories, including 7% of FFG products and 8% of discretionary products (see Table 14).

Of the 1934 products in the TAG database identified as discretionary, 370 were affected by Scenario 1, of which 92 (25%) had a sodium concentration of >900 mg/100 g, and 278 (75%) had a sodium concentration of ≤ 900 mg/100 g. All affected products with >900 mg sodium /100 g had a reduction of 1 star point (0.5 stars) except for 5 products which had a reduction of 2 star points (1 star). For affected products with ≤ 900 mg sodium /100 g, one product (an extruded snack, <100 mg sodium /100 g) had a reduction of 3 star points (1.5 stars) and 9 products had a reduction of 2 star points (1 star). All other products had a reduction of 1 star point (0.5 stars).

Of the 2985 foods identified as FFG in the TAG database in HSR categories 1D, 2 and 2D products, 331 were affected by Scenario 1, of which of which 11 (3%) had a sodium concentration of >900 mg/100 g. All of these products had a reduction in 1 star point (0.5 stars) except for two chicken products (approx. 920 mg sodium /100 g) which had a reduction of 3 star points (1.5 stars). Three hundred and twenty (97%) products had a sodium concentration of ≤ 900 mg/100 g. Thirty-one of these products had a reduction of 2

star points (1 star). Three products (two mixed grain breakfast cereals with fruit and or nuts, fortified and one meat substitute flavoured sausage) had a reduction of 3 star points. All other affected FFG had a reduction of 1 star point (0.5 stars).

Refer to Table 4 below for a summary of products affected above and below 900 mg sodium /100 g, and Appendix 2 Table 16 and Table 17 for details of the products with a 2 or 3 star point reduction.

Table 4 Summary of number of affected FFG and discretionary products above and below 900 mg sodium /100 g, in HSR category 1D, 2 and 2D in the TAG database (Sodium Scenario 1)

	Total	Number affected products (proportion of total)	Number of affected products with ≤900 mg sodium /100 g (proportion of affected products)	Number of affected products with >900 mg sodium /100 g (proportion of affected products)
FFG	2985	331 (11%)	320 (97%)	11 (3%)
Discretionary	1934	370 (19%)	278 (75%)	92 (25%)

3.3 Conclusion

The Sodium Scenario 1 model indicates changes that would be in addition to any changes to HSRs as a result of all other recommended changes to the HSR calculator (Recommended model). The analysis of a revised sodium points table with changes to the points scale ≤900 mg sodium/100 g indicates that:

- Proposed changes to the sodium baseline points table on HSR Category 3 and 3D foods potentially creates a greater misalignment with Dietary Guidelines recommendations than the Recommended HSR calculator. A broad range of FFG foods would be affected by a reduction in HSRs, with greater impacts for lower fat foods.
- Approximately 14% of products in HSR Categories 1D, 2 and 2D would be affected by a reduction in HSR, with the proportion of FFG (7%) and discretionary (8%) products impacted being approximately equal.
- Product categories impacted tend to be those indicated by stakeholders as being of most concern with the greatest impact on FFG products seen in the Bread (22%), Plant protein (18%), Biscuits (16%), Breakfast cereals (15%) and Meals/meal bases and Nuts (14% respectively) categories and for discretionary foods in the Dressings (44%), Dips (32%), Sauces/condiments and Yeast spread (25% respectively) and Biscuits (20%).
- The majority of affected products in HSR Categories 1D, 2 and 2D received a 1 star point (0.5 HSR) reduction with a small proportion of products receiving a 2 or 3 star point reduction.
- Given that there are relatively few products with sodium concentrations >900 mg/100 g, the majority of products receiving a reduction in star points had a sodium concentration of ≤900 mg sodium/100 g.
- Application of the scenario 75 mg/100 g increment to the sodium HSR baseline points table will introduce an inconsistency with the NPSC for nutrition and health claims, as set out in the Food Standards Code.

4. Combined impact of Review Recommendation 4b and 4c Scenarios

4.1 Combined Scenario modelled.

In order to assess the impact of both the Total Sugars and the Sodium Scenarios compared to the Recommended HSR calculator, a Combined Scenario was modelled. As per previous separate analysis of Total Sugars and the Sodium Scenarios, this combined analysis was limited to foods in HSR categories 1D, 2 and 2D only, so only Sodium Scenario 1 was included. Foods classified as categories 1, 3 and 3D were excluded from the analysis, but unprocessed fruit and vegetables included.

For this Combined Scenario the total sugars HSR baseline points table was adjusted from a 25 point to a 30 baseline point scale as per the description in Section 2.1. The sodium HSR baseline table was adjusted as per Scenario 1 as described in Section 3.1, from a 30 baseline point scale with 90 mg sodium /100 g increments for each point to 75 mg/100 g increments for each point.

4.2 Outcomes of Combined Scenario modelling

4.2.1 Impact of Combined Scenario by AHGE category

The Combined Scenario resulted in a total of 1134 (23%) of 4919 TAG database products in HSR categories 1D, 2 and 2D being affected by a reduction in HSR star points, refer to Figure 16. Products were affected either by a reduction in star points from the changes to the total sugars baseline points table or the sodium baseline points table or both. There were also a number of products that were affected by the Combined Scenario that were not affected by either the Total Sugars or Sodium Scenario. This occurred where there was an increase in Baseline points from both the Total Sugars or Sodium Scenario 1 which was not great enough to trigger a reduction in HSR star points, but where the combined, cumulative effect was sufficient to result in a change. Refer to Table 5, below and Appendix 3 Table 18.

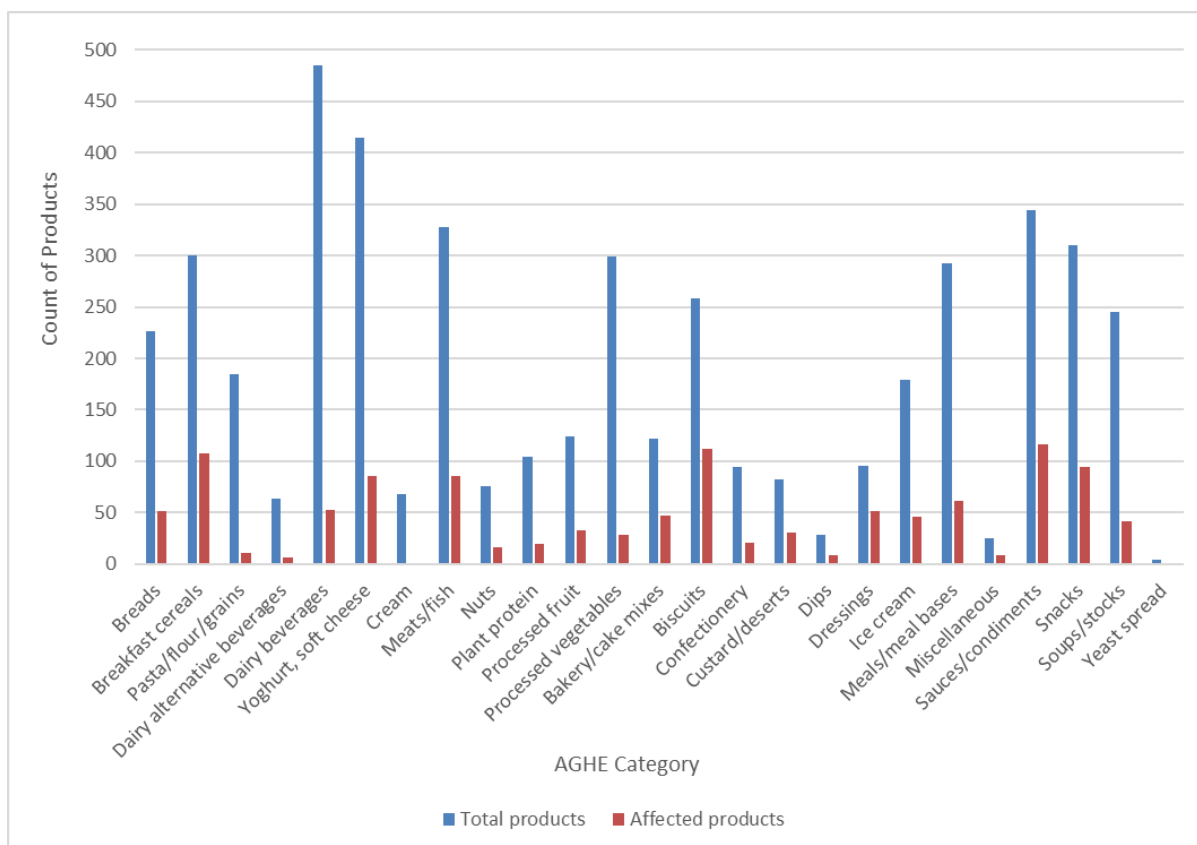


Figure 16 Total number of TAG database products in each affected AGHE category and number in each category affected by Combined Scenario adjustments to the HSR calculator

Five AGHE categories (Dairy beverage dry mix, Cream cheese, Pizza, Unprocessed fruit and Unprocessed vegetables) were not affected by the Combined Scenario while only 1 product was affected in two further categories (Cream and Yeast spread). However, total numbers of products in three of these categories were <4. (refer to Appendix 3 Table 19).

Non-core AGHE categories were the most affected by the Combined Scenario, with 54% of Dressings (51 of 95 products), 43% of Biscuits (112 of 258 products), 39% of Bakery/cake mixes (47 of 122 products) and 38% of Custard/desserts (31 of 82 products) being affected. Breakfast cereal was the most affected core AGHE category with 108 of 300 (36%) products affected, followed by Processed fruit, with 33 of 124 (27%) products affected.

Overall, 18% of products in AGHE categories identified as core were affected (495 of 2703 products) compared with 29% of products in AGHE categories identified as non-core (639 of 2216 products).

Of the 1134 products affected by the Combined Scenario, the majority (1058 products, 93%) had a reduction of 1 HSR star point (0.5 stars). Six percent had a reduction of 2 HSR star points (1 star) and 1% had a reduction of 3 HSR star points (1.5 stars).

Table 5 Summary of number of HSR category 1D, 2 and 2D TAG database products affected by Total Sugars Scenario, Sodium Scenario 1 and Combined Scenario

Scenario	Total number of products	Number of affected products (proportion of total)	Number of affected products (proportion of affected products)	Number with 1 star point reduction (proportion of affected products)	Number with 2 star point reduction (proportion of affected products)	Number with 3 star point reduction (proportion of affected products)
Total Sugars Scenario	4919	466 (9%)		444 (95%)	22 (5%)	-
Sodium Scenario 1	4919	701 (14%)		650 (93%)	45 (6%)	6 (1%)
Combined Scenario	4919	1134 (23%)		1058 (93%)	69 (6%)	7 (1%)
<i>Affected by either Total Sugars or Sodium Scenario</i>			943 (83%)			
<i>Affected by both Total Sugars and Sodium Scenarios</i>			112 (10%)			
<i>Affected by Combined Scenario but not Total Sugars or Sodium Scenario</i>			79 (7%)			

4.2.2 Impact of Combined Scenario on FFG and discretionary products

Similar to the proportions of core and non-core AGHE categories affected, the proportion of FFG and discretionary products affected by the Combined Scenario were 19% and 30% respectively (refer to Table 6, below, and Appendix 3 Table 20 for additional details).

Table 6 Summary of FFG and discretionary TAG database products in HSR Categories 1D, 2 and 2D affected by the Total Sugars Scenario, Sodium Scenario 1 and Combined Scenario

	Total number FFG (proportion of all products)	Total number Discretionary (proportion of all products)	Number of FFG products affected (proportion of all FFG products)	Number of discretionary products affected (proportion of all discretionary products)
Total Sugars Scenario	2985 (61%)	1934 (39%)	236 (8%)	230 (12%)
Sodium Scenario 1	2985 (61%)	1934 (39%)	331 (11%)	370 (19%)
Combined Scenario	2985 (61%)	1934 (39%)	553 (19%)	581 (30%)

The greatest impact on FFG products in the Combined Scenario was seen for core AGHE categories. The highest proportion of affected FFG products (as a proportion of all category products) was in the Breakfast cereals category (33%) followed by Breads (23%) and Processed fruit and Nuts (21% respectively). FFG products were also affected in the Yoghurt, soft cheese and Miscellaneous (20% respectively) and Custards/desserts AGHE categories (17%).

Discretionary products were most impacted in the non-core AGHE classifications Dressings (53%, as a proportion of all category products), Bakery/cake mixes (34%), Sauces/condiments (33%), Dips (32%) and Snacks (29%).

The Combined Scenario changes to the HSR calculator aligns more closely with the dietary guidelines, with fewer discretionary products receiving a HSR of ≥ 3 . While the majority of FFG products in the TAG database receive a HSR of ≥ 3 , a combined stronger approach to

the total sugars and sodium HSR baseline point tables also resulted in an increase in the number of FFG products receiving a HSR of <3, refer to Figure 17.

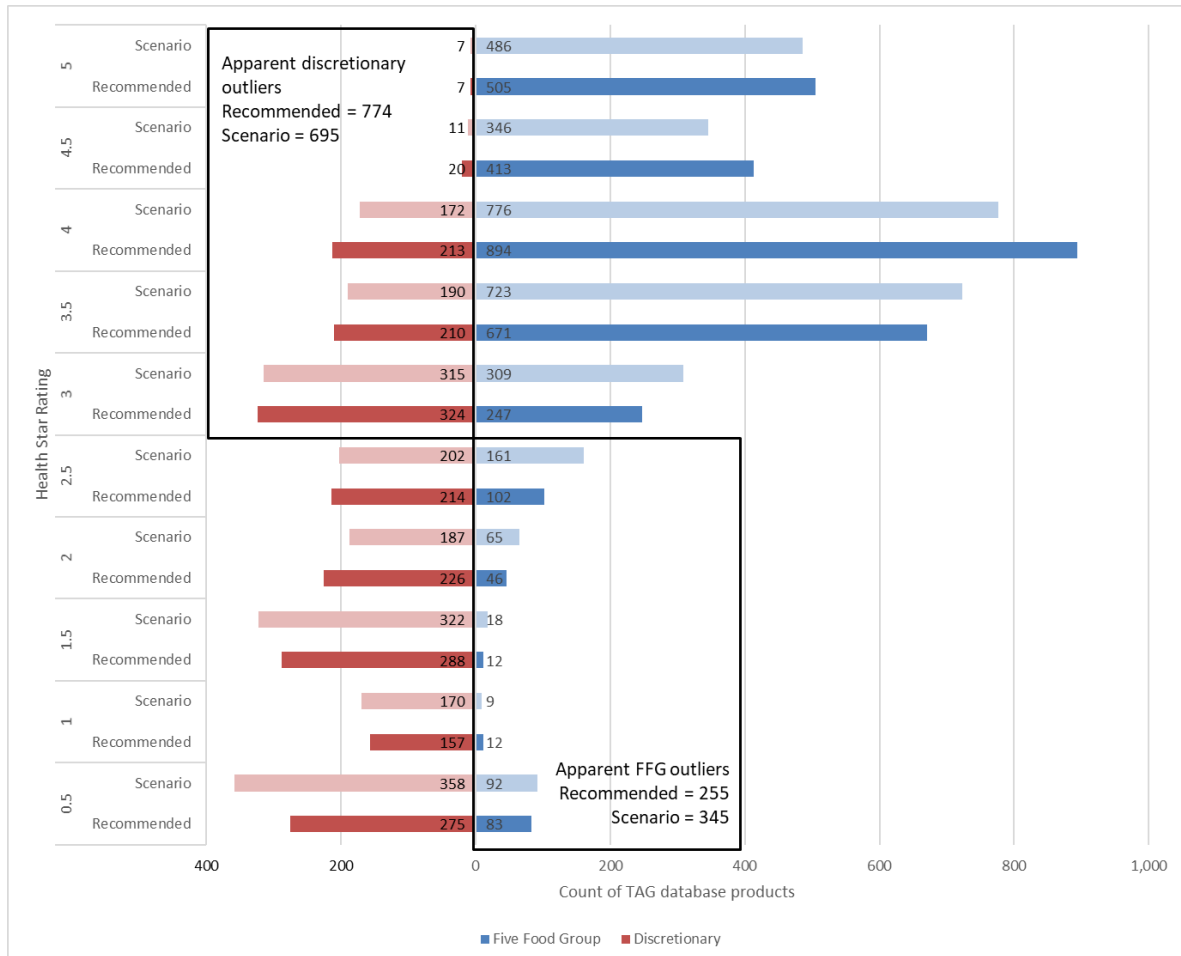


Figure 17 Impact of Combined scenario on FFG and discretionary foods broken down by Health Star Rating.

4.2.3 Types of products affected by the Combined Scenario

Details of types of products, at the 5-digit AHS classification level, that have been affected by the Combined Scenario are provided in Appendix 3 Table 22 for core AGHE classifications and Table 23 for non-core AGHE classifications. For those products affected by either Sodium Scenario 1 or the Total Sugars Scenario, 83% of all affected products, outcomes are as described in Sections 2 and 3.

As set out in Table 5 of Section 4.2.1, 112 products (10% of all affected products) were impacted by changes to both the total sugars and sodium HSR baseline points tables. Of these 112 products, 36 (32%, 31 of which were flagged as FFG and 5 as discretionary) were in core AGHE categories. The majority of affected products were in Breakfast cereals, across a number of 5-digit AHS classifications (24 products, three of which were flagged as discretionary). The most affected classification was Breakfast cereal, mixed grain, with fruit and/or nuts, fortified; where six of the seven products affected by Scenario changes to both the total sugars and sodium baseline points tables had a reduction of 2 HSR star points (1 star), with one product having a 3 HSR star point (1.5 stars) reduction. Total sugars and sodium concentrations ranged between 8.5-66.9 g/100 g and 76-1230 mg/100mg respectively. There were also seven affected products in the 5-digit classification Peanut

products within the Nuts AGHE category, all flagged as FFG products and all with a reduction in 1 HSR star point (0.5 stars).

Seventy-six affected products were in non-core AGHE categories (68%), 72 of which were flagged as discretionary and 4 as FFG. The most affected non-core AGHE categories were Biscuits and Snacks, with 18 and 17 affected products respectively, closely followed by Sauces/condiments with 16 affected products. At the 5-digit classification level the most affected classifications were:

- Sweet biscuits, plain or flavoured including short bread varieties (10 products)
- Savoury sauces, not tomato based, commercial (9 products)
- Muesli and cereal style bars, with fruit and/or nuts (6 products)
- Savoury sauces, tomato based, commercial (5 products).

The majority of affected products had a reduction in 1 HSR star point (0.5 stars) although 5 products had a reduction of 2 star points (1 star), this latter group included all three affected products in the Dairy desserts, smooth or gelatine-based dairy desserts classification. Refer to Appendix 3, Table 24.

For the 79 (7%) of TAG database products that had been affected by the Combined Scenario but had not been affected by either Total Sugar Scenario or Sodium Scenario 1 individually, the most affected core AGHE categories were Breakfast cereals (22 products across eight 5-digit classifications). The most affected classification being Breakfast cereal, mixed grain, fortified, >20 g total sugars/100g, where total sugars and sodium concentrations ranged between 20-31.5 g/100 g and 240-398 mg/100mg respectively, with 3 of 5 products in this category flagged as discretionary. The most affected non-core AGHE category was Sauces/condiments (19 products across four 5-digit classifications), where total sugars and sodium concentrations ranged between 12.3-47.6 g/100 g and 166-1100 mg/100mg, respectively. These were followed by Snacks (9 products) and Bakery/cake mixes and Biscuits, both with 8 affected products. At the 5-digit classification level, most affected classifications were:

- Savoury sauces, not tomato based, commercial (9 products)
- Savoury sauces, tomato based, commercial (8 products)
- Mayonnaise and cream-style dressings, reduced or non-fat (5 products)
- Breakfast cereal, mixed grain, fortified, >20 g total sugars/100g (5 products)

All products had a reduction of 1 HSR star point (0.5 stars) except for four Breakfast cereal products that had a reduction of 2 HSR star points (1 star). Refer to Appendix 3, Table 25.

4.3 Conclusion

The Combined Scenario model indicates changes that would be in addition to any changes to HSRs as a result of all other recommended changes to the HSR calculator (Recommended model). The analysis of a Combined Scenario with revised total sugars HSR baseline points table adjusted from a 25 point to a 30 point scale and a revised sodium HSR baseline points table adjusted from a 30 point scale with 90 mg/100 g sodium increments for each point to 75 mg/100 g increments for each point indicates that:

- Approximately 23% of products in the TAG database would be affected by a reduction in HSR, with the proportion of FFG (11%) and discretionary (12%) products being impacted approximately equal.
- Product categories impacted in the Combined Scenario reflected those identified by stakeholders as being of most concern in the review. The greatest impact on FFG

products was seen in the Breakfast cereals (33%) Bread (23%), Processed Fruit and Nuts (21% respectively) and Yoghurt and soft cheese (20%) categories, and for discretionary foods in the Dressings (53%), Bakery/cake mixes (34%), Sauces/condiments (33%), Dips (32%), and Snacks (29%).

- More than 90% of products in the TAG database affected by the Combined Scenario received a 1 star point (0.5 HSR) reduction with a small proportion of products receiving a 2 or 3 star point reduction.
- The Combined Scenario changes to the HSR calculator aligns with the dietary guidelines in that and fewer discretionary products in HSR Categories 1D, 2 and 2D receive a HSR of ≥ 3 . However, more FFG products in those HSR Categories receive a HSR of < 3 .
- Adjustments to the total sugars and sodium baseline points tables will result in less consistency between the HSR system and the NPSC.

APPENDIX 1 Total Sugars Scenario Tables

Table 7 Summary of impact of Total Sugars Scenario on AGHE categories

AGHE category	RECOMMENDED Count of products	RECOMMENDED Average HSR star points	RECOMMENDED Max HSR star points	RECOMMENDED Min HSR star points	SCENARIO Count of products affected	SCENARIO Proportion of products affected (%)	SCENARIO Average HSR star points for all products	SCENARIO Average reduction in HSR star points for affected products	Average total sugars content (g/100g)	Max total sugars content (g/100g)	Min total sugars content (g/100g)
Bread	226	7.7	10	5	1	<1	7.7	1	2.7	20.8	0.1
Breakfast Cereal	300	7.8	10	3	63	21	7.5	1.2	16.9	41.3	0
Pasta/flour/grains	185	7.3	10	4	0	0	7.3	0	1.2	7.5	0
Dairy alternative beverages	64	8.3	10	6	0	0	8.3	0	3.1	7.4	0
Dairy beverages	485	8	10	3	50	10	7.9	1	7	17.3	1.8
Beverages dry mix/milk powder	2	9	9	9	0	0	9	0	5.4	5.5	5.3
Yoghurt, soft cheese	415	7.7	10	1	71	17	7.5	1	10	20.9	0
Cream	68	1.4	8	1	1	1	1.4	2	3.7	8.6	0.9
Cream cheese	67	1.3	8	1	0	0	1.3	0	6.2	16.3	1.9
Processed fruit	124	6.4	10	3	32	26	6.1	1	29.8	72	4
Unprocessed fruit	33	10	10	10	0	0	10	0	9.1	16.2	1.8
Bakery/cake mixes	122	4	8	1	26	21	3.7	1	20.9	89.8	0.1
Biscuits	258	3.5	9	1	30	12	3.4	1	19.1	52.5	0.1
Confectionery	94	1.9	4	1	21	22	1.7	1	56.8	93.4	27.9
custard/desserts	82	6	9	1	26	32	5.7	1.1	15.9	68.6	4.64
Dips	28	5.2	8	3	0	0	5.2	0	5.1	10.5	0.3
Dressings	95	3.3	6	2	7	7	3.2	1	12.6	27.2	1.1
Ice cream	179	4.2	7	1	40	22	4	1	21.8	34.3	7.9
Meals/meal bases	292	6.6	9	1	2	1	6.6	1	4	41.6	0
Miscellaneous	25	3.6	10	1	8	32	3.3	1	22.6	72.1	0
Pizza	3	4.7	6	4	0	0	4.7	0	2.1	2.9	0.9
Sauces/condiments	344	5.4	10	1	25	7	5.4	1	10.3	63.4	0.1
Snacks	310	4.9	10	1	47	15	4.7	1.1	15.6	73.9	0.1
Soups/stocks	245	6.6	8	6	0	0	6.6	0	1.8	8.8	0
Yeast spread	4	2	3	1	0	0	2	0	4.8	11.2	2
Meats/fish	328	7.3	10	1	0	0	7.3	0	1.1	9.5	0
Nuts	76	7.9	10	1	12	16	7.8	1	7.7	57.2	2.1
Plant proteins	104	8.8	10	5	0	0	8.8	0	2.1	7.4	0
Processed vegetables	299	8.6	10	1	4	1	8.6	1	3.3	40	0
Unprocessed vegetables	62	10	10	10	0	0	10	0	2.5	7.7	0.3
Total	4919	6.5	10	1	466	9	6.4	1.0	10.3	93.4	0

Table 8 Summary of impact of Total Sugars Scenario on AGHE categories by 'FFG' and 'Discretionary' foods flagged products

AGHE category	RECOMMENDED Count of products	RECOMMENDED Count of FFG products	RECOMMENDED Count of Discretionary products	RECOMMENDED Average HSR points all products	SCENARIO Count FFG products affected	SCENARIO Proportion FFG products affected (%)	SCENARIO FFG Average reduction in HSR star points	SCENARIO Count Discretionary products affected	SCENARIO Proportion discretionary products affected (%)	SCENARIO Discretionary Average reduction in HSR star points
Bread	226	217	9	7.7	1	0	1	0	0	0
Breakfast Cereal	300	275	25	7.8	58	19	1.2	5	2	1
Pasta/flour/grains	185	185	0	7.3	0	0	0	0	0	0
Dairy alternative beverages	64	64	0	8.3	0	0	0	0	0	0
Dairy beverages	485	461	24	8	50	11	1	0	0	0
Beverages dry mix/milk powder	2	2	0	9	0	0	0	0	0	0
Yoghurt, soft cheese	415	412	3	7.7	70	17	1	1	0	1
Cream	68	4	64	1.4	0	0	0	1	1	2
Cream cheese	67	67	0	1.3	0	0	0	0	0	0
Processed fruit	124	94	30	6.4	25	20	1	7	6	1
Unprocessed fruit	33	33	0	10	0	0	0	0	0	0
Bakery/cake mixes	122	13	109	4	2	2	1	24	20	1
Biscuits	258	70	188	3.5	0	0	0	30	12	1
Confectionery	94	0	94	1.9	0	0	0	21	22	1
custard/desserts	82	33	49	6	11	13	1	15	18	1.2
Dips	28	0	28	5.2	0	0	0	0	0	0
Dressings	95	4	91	3.3	0	0	0	7	7	1
Ice cream	179	0	179	4.2	0	0	0	40	22	1
Meals/meal bases	292	171	121	6.6	1	0	1	1	0	1
Miscellaneous	25	13	12	3.6	5	20	1	3	12	1
Pizza	3	1	2	4.7	0	0	0	0	0	0
Sauces/condiments	344	11	333	5.4	0	0	0	25	7	1
Snacks	310	34	276	4.9	0	0	0	47	15	1.1
Soups/stocks	245	136	109	6.6	0	0	0	0	0	0
Yeast spread	4	0	4	2	0	0	0	0	0	0
Meats/fish	328	221	107	7.3	0	0	0	0	0	0
Nuts	76	74	2	7.9	12	16	1	0	0	0
Plant proteins	104	104	0	8.8	0	0	0	0	0	0
Processed vegetables	299	224	75	8.6	1	0	1	3	1	1
Unprocessed vegetables	62	62	0	10	0	0	0	0	0	0
Total	4919	2985	1934	6.5	236	5	1	230	5	1

Table 9 Summary of Health Star Rating for 'FFG' and 'discretionary' flagged products for the Total Sugars Recommended and Scenario models

Health Star Rating	TOTAL SUGARS RECOMMENDED			TOTAL SUGARS SCENARIO		
	Count of FFG products	Count of Discretionary products	Total	Count of FFG products	Count of Discretionary products	Total
0.5	83	275	358	91	326	417
1	12	157	169	7	155	162
1.5	12	288	300	14	297	311
2	46	226	272	49	196	245
2.5	102	214	316	127	206	333
3	247	324	571	266	319	585
3.5	671	210	881	721	212	933
4	894	213	1107	825	199	1024
4.5	413	20	433	383	17	400
5	505	7	512	502	7	509
Total	2985	1934	4919	2985	1934	4919

Table 10 Summary of AHS 5-digit food classifications affected by Total Sugars Scenario by AGHE 'Core' categories

AGHE Category	5-digit classification name	RECOMMENDED Count of products	SCENARIO Count of products affected (flagged as a discretionary food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	SCENARIO Average HSR star points for all products	SCENARIO Average reduction in HSR star points for affected products	SCENARIO Average total sugars content for affected products (g/100g)	SCENARIO Max total sugars content for affected products (g/100g)	SCENARIO Min total sugars content for affected products (g/100g)
Bread	Sweet breads, buns and scrolls, uniced, unfilled	5	1	20	7.2	7	1	19	19	19
Breakfast Cereal	Breakfast cereal, corn based, fortified	11	3 (1)	27	5.9	5.6	1	27.2	41.3	12
	Breakfast cereal, mixed grain	6	1	17	8.7	8.5	1	15.7	15.7	15.7
	Breakfast cereal, mixed grain, fortified, sugars >20 g/100g	20	11 (4)	55	5.4	4.9	1	30.4	38.6	25.1
	Breakfast cereal, mixed grain, with fruit and/or nuts	58	12	21	8.1	7.9	1.2	17.5	22.9	12
	Breakfast cereal, mixed grain, with fruit and/or nuts, fortified	39	9	23	7.4	7.1	1.4	21.6	27	16.5
	Breakfast cereal, rice based, fortified	16	2	13	4.9	4.8	1	8.6	8.6	8.6
	Breakfast cereal, wheat based, fortified, sugars >20 g/100g	1	1	100	7	6	1	21.5	21.5	21.5
	Breakfast cereal, wheat based, fortified, sugars ≤20 g/100g	18	1	6	9.6	9.6	1	11.6	11.6	11.6
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars >25 g/100g	5	5	100	7.8	6.6	1.2	29.9	32.2	25.1
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars ≤25 g/100g	31	11	35	7.5	7	1.3	20.5	24.7	12.1
	Porridge style, oat based	39	6	15	8.4	8.3	1.2	22.4	29	15.7
	Porridge style, other cereals	2	1	50	8	7.5	1	15.5	15.5	15.5
Dairy beverages	Fortified beverage flavourings prepared with water or milk	6	3	50	8.2	7.7	1	8.6	8.8	8.4
	Milk, coffee/chocolate flavoured and milk-based drinks, full fat	133	25	19	7	6.8	1	8.7	8.9	8.4
	Milk, coffee/chocolate flavoured and milk-based drinks, reduced fat	29	3	10	9.1	9	1	8.9	8.9	8.9
	Milk, other flavoured and milk-based drinks, full fat	57	16	28	6.9	6.6	1	8.7	8.9	8.5
	Milk, other flavoured and milk-based drinks, reduced fat	4	1	25	8.3	8	1	8.4	8.4	8.4
	Milk-based fruit drinks	3	1	33	7	6.7	1	12.8	12.8	12.8
	Unfortified beverage flavourings prepared with water or milk	10	1	10	7.2	7.1	1	8.6	8.6	8.6
Yoghurt, soft cheese	Other beverages	3	1 (1)	33	7.7	7.3	1	15.6	15.6	15.6
	Yoghurt, added nutrients or other substances	38	14	37	8.4	8	1	11.8	12.4	8.832
	Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat)	71	15	21	5.9	5.7	1	13.7	15.9	11.8
	Yoghurt, flavoured or added fruit, full fat	102	26	25	7.6	7.4	1		12.8	8.6
	Yoghurt, flavoured or added fruit, reduced fat	93	12	13	8.4	8.3	1	13.6	16.3	8.5

AGHE Category	5-digit classification name	RECOMMENDED Count of products	SCENARIO Count of products affected (flagged as a discretionary food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	SCENARIO Average HSR star points for all products	SCENARIO Average reduction in HSR star points for affected products	SCENARIO Average total sugars content for affected products (g/100g)	SCENARIO Max total sugars content for affected products (g/100g)	SCENARIO Min total sugars content for affected products (g/100g)
	Yoghurt, natural, reduced fat	28	1	4	9	9	1	8.9	8.9	8.9
	Yoghurt, natural, regular fat and high fat (>4 g/100g fat)	24	2	8	6.4	6.3	1	10.5	12.65	8.4
Processed fruit	Dried vine fruit	5	4	80	5.4	4.6	1	64.5	72	54
	Fruit bar and fruit-based confectionery	6	4 (4)	67	6.5	5.8	1	26.5	26.8	26.2
	Fruit-based pickles, chutneys and relishes	3	1 (1)	33	4.3	4	1	48	48	48
	Jams and preserves, sugar sweetened	20	2 (2)	10	3.1	3	1	65.4	66.3	64.4
	Mixtures of two or more groups of fruit, commercially sterile	17	2	12	7.4	7.3	1	15.4	15.6	15.1
	Other dried fruit including mixed dried fruit	19	12	63	6.5	5.8	1	51	71.8	29.5
	Other stone fruit, commercially sterile	6	1	17	6.8	6.7	1	15	15	15
	Peaches and nectarines, commercially sterile	12	2	17	7.3	7.1	1	17.4	18.5	16.3
	Tropical and subtropical fruit, commercially sterile	17	4	24	7.5	7.3	1	15.2	16	14.8
Nuts	Other nuts and nut products and dishes	32	4	13	8.2	8.1	1	17	19	15
	Peanut products	28	7	25	7.8	7.6	1	10.5	15.4	8.5
	Sweet spreads or sauces, chocolate/coffee flavoured	2	1	50	1.5	1	1	57.2	57.2	57.2
Processed vegetables	Potato products	47	1 (1)	2	7.9	7.9	1	12	12	12
	Salads, vegetable based	14	1	7	8.1	8	1	15.4	15.4	15.4
	Vegetable-based pickles, chutneys and relishes	25	2 (2)	8	5.2	5.1	1	25.9	40	11.7
Total		1105	233 (16)	21	-	-	1	18.6	72	8.4

Table 11 Summary of AHS 5-digit food classifications affected by Total Sugars Scenario by AGHE 'Non-core' categories

AGHE Category	5-digit name	RECOMMENDED Count of products	SCENARIO Count of products affected (flagged as a FFG food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	SCENARIO Average of HSR star points for all products	SCENARIO Average reduction in HSR star points for products affected	SCENARIO Average of total sugars content for products affected (g/100g)	SCENARIO Max of total sugars content for products affected (g/100g)	SCENARIO Min of total sugars content for products affected (g/100g)
Cream	Cream, reduced fat	8	1	13	2.6	2.4	2	8.6	8.6	8.6
Bakery/cake mixes	Cakes and cake mixes, chocolate	9	3	33	2.6	2.2	1	44.3	48.1	36.9
	Cakes and cake mixes, other types	14	5	36	3.1	2.8	1	48.7	80.4	27.1
	Cakes and cake mixes, sponge	4	3	75	4	3.3	1	39.7	42.6	35.4
	Cake-type desserts	9	3	33	5.1	4.8	1	34.8	53.1	21.4
	Muffins, cake type, and muffin mixes	5	1	20	3.4	3.2	1	33	33	33
	Other milk, cheese or cream-based desserts	2	1	50	2	1.5	1	20.1	20.1	20.1
	Pancakes, crepes and dishes	6	2 (2)	33	5.5	5.2	1	15.5	18.7	12.2
	Slices, biscuit and cake-type	2	2	100	2.5	1.5	1	44.8	48	41.6
	Sugar-based desserts	7	5	71	1.7	1	1	73.5	74.5	72.6
	Sweet pastry products, fruit and/or nut fillings	4	1	25	3.5	3.3	1	45.4	45.4	45.4
Biscuits	Sweet biscuits, chocolate-coated, chocolate chip	39	6	15	1.8	1.6	1	37.6	43.7	32
	Sweet biscuits, chocolate-coated, chocolate or cream filled	25	1	4	1.1	1.1	1	34.7	34.7	34.7
	Sweet biscuits, cream-filled	19	3	16	1.2	1	1	29.3	34.8	26.5
	Sweet biscuits, plain or flavoured including short bread varieties	32	13	41	2.8	2.4	1	28.9	45.8	18.5
	Sweet biscuits, plain with fruit or nuts	9	4	44	3.9	3.4	1	30.7	44.8	19.4
	Sweet biscuits, with jam, marshmallow or other sugar-based filling	3	3	100	2.7	1.7	1	33.3	44.1	23.8
Confectionery	Chocolate (plain, unfilled varieties)	19	1	5	1.2	1.1	1	32.2	32.2	32.2
	Chocolate-based confectionery with nut fillings or additions	9	2	22	1.2	1	1	43.6	56.2	31
	Lollies and other confectionery, sugar sweetened	44	17	39	2.8	2.4	1	57.8	79.8	42.3
	Other confectionery	1	1	100	2	1	1	70.3	70.3	70.3
Custard/desserts	Custard, fat content <4 g/100 g	25	10 (10)	40	6.9	6.5	1	13.2	18.84	11.6
	Dairy desserts, smooth or gelatin-based dairy desserts	47	14	30	5.8	5.4	1.2	14.5	20.1	8.9
	Other milk, cheese or cream-based desserts	2	1	50	4	3.5	1	19.9	19.9	19.9
	Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat)	2	1 (1)	50	5.5	5	1	15.2	15.2	15.2

AGHE Category	5-digit name	RECOMMENDED Count of products	SCENARIO Count of products affected (flagged as a FFG food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	SCENARIO Average of HSR star points for all products	SCENARIO Average reduction in HSR star points for products affected	SCENARIO Average of total sugars content for products affected (g/100g)	SCENARIO Max of total sugars content for products affected (g/100g)	SCENARIO Min of total sugars content for products affected (g/100g)
Dressings	Italian and French-style dressings, reduced or non-fat	10	2	20	3.9	3.7	1	16.4	16.5	16.3
	Mayonnaise and cream-style dressings, full fat	40	4	10	2.5	2.4	1	13.4	21.4	8.5
	Mayonnaise and cream-style dressings, reduced or non-fat	22	1	5	3.8	3.7	1	27.2	27.2	27.2
Ice cream	Frozen dairy desserts, other	3	2	67	2.7	2	1	20.8	22.6	19
	Ice cream, individual bar, stick and cone varieties, fat content >10 g/100 g	37	12	32	2.6	2.3	1	26.3	31.3	20.3
	Ice cream, individual bar, stick and cone varieties, fat content 4 - 10 g/100 g	14	1	7	5.3	5.2	1	20.4	20.4	20.4
	Ice cream, tub varieties, fat content <4 g/100 g	27	1	4	6.3	6.3	1	20.6	20.6	20.6
	Ice cream, tub varieties, fat content >10 g/100 g	55	14	25	3.2	2.9	1	22.8	26	19
	Ice cream, tub varieties, fat content 4 - 10 g/100 g	31	7	23	4.8	4.5	1	22.9	27.4	18.3
	Soy-based ice confection	6	1	17	6.3	6.2	1	19.8	19.8	19.8
	Water ice confection, gelato, sorbet	3	2	67	6	5.3	1	17.8	19.8	15.8
Meals/meal bases	Dry savoury sauces and casserole bases and dry mixes	79	1	1	5.7	5.7	1	8.8	8.8	8.8
	Savoury pasta/noodle and sauce dishes, saturated fat ≤5 g/100 g	70	1 (1)	1	6.5	6.5	1	8.9	8.9	8.9
Miscellaneous	Milk, evaporated or condensed, undiluted	6	5 (5)	83	2.7	1.8	1	57.9	60.9	55.9
	Sweet biscuits, plain or flavoured including short bread varieties	1	1	100	2	1	1	72.1	72.1	72.1
	Toppings, all flavours	4	2	50	4.3	3.8	1	47.8	48.3	47.2
Sauces/condiments	Mayonnaise and cream-style dressings, reduced or non-fat	1	1	100	5	4	1	16.6	16.6	16.6
	Savoury sauces, not tomato based, commercial	107	13	12	4.2	4.1	1	40.4	63.4	18.7
	Savoury sauces, tomato based, commercial	89	7	8	6.8	6.7	1	31.4	48.3	20.2
	Stock cubes and seasonings	17	1	6	2.7	2.6	1	49.8	49.8	49.8
	Vegetable-based pickles, chutneys and relishes	5	3	60	4.8	4.2	1	21	28.4	16.1
Snacks	Fruit bar and fruit-based confectionery	11	2	18	6	5.8	1	65.4	73.9	56.8
	Lollies and other confectionery, sugar sweetened	1	1	100	4	3	1	38.7	38.7	38.7
	Muesli and cereal style bars, added coatings or confectionery	54	15	28	5	4.6	1.3	25.5	38.5	18.1

AGHE Category	5-digit name	RECOMMENDED Count of products	SCENARIO Count of products affected (flagged as a FFG food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	SCENARIO Average of HSR star points for all products	SCENARIO Average reduction in HSR star points for products affected	SCENARIO Average of total sugars content for products affected (g/100g)	SCENARIO Max of total sugars content for products affected (g/100g)	SCENARIO Min of total sugars content for products affected (g/100g)
	Muesli and cereal style bars, no fruit	20	7	35	4.8	4.3	1.1	27.1	38.6	12.1
	Muesli and cereal style bars, with fruit and/or nuts	40	14	35	6.9	6.5	1.1	24.5	41	15.6
	Muesli bar, with fruit or fruit paste filling	11	5	45	4.5	4	1	36.9	41	26.8
	Other snacks	37	1	3	2.2	2.2	1	12.4	12.4	12.4
	Snack bar, other	4	1	25	3	2.8	1	24.9	24.9	24.9
	Sweet biscuits, chocolate-coated, chocolate or cream filled	2	1	50	2.5	2	1	36.3	36.3	36.3
Total		1153	233 (19)	20	-	-	1.0	31.9	80.4	8.5

APPENDIX 2 Sodium Scenarios Tables

Table 12 Summary of impact of Sodium Scenario 2 (HSR Categories 1-3) by AGHE categories

AGHE Category	RECOMMENDED				SCENARIO							
	Count of Product	Average HSR star points	Max of HSR star points	Min of HSR star points	Count of products affected	Proportion of products affected (%)	Average of HSR star points for all products	Average reduction in HSR star points for affected products	Max of reduction in HSR star points for affected products	Average of sodium content affected products (mg/100g)	Max of sodium content affected products (mg/100g)	Min of sodium content affected products (mg/100g)
Bread	226	7.7	10	5	50	22	7.5	1	1	437	798	205
Breakfast Cereal	300	7.8	10	3	47	16	7.6	1.3	3	176	710	0
Pasta/flour/grains	185	7.3	10	4	11	6	7.2	1.5	2	130	795	0
Dairy alternative beverages	64	8.3	10	6	6	9	8.2	1	1	50	90	22
Dairy beverages	485	8	10	3	3	1	8	1	1	47	125	14
Beverages dry mix/milk powder	2	9	9	9	0	0	9	0	0	39	45	33
Cheese	444	6.1	10	1	345	78	5.2	1.2	3	817	1950	185
Yoghurt, soft cheese	415	7.7	10	1	14	3	7.7	1	1	69	527	16
Cream	68	1.4	8	1	0	0	1.4	0	0	53	290	10
Cream cheese	67	1.3	8	1	0	0	1.3	0	0	446	1630	19
Fats, oils & oil based spreads	93	5.4	10	1	12	13	5.3	1	1	306	876	0
Processed fruit	124	6.4	10	3	2	2	6.4	1	1	28	700	0
Unprocessed fruit	33	10	10	10	0	0	10	0	0	2	17	0
Bakery/cake mixes	122	4	8	1	22	18	3.8	1	1	402	1360	30
Biscuits	258	3.5	9	1	92	36	3.1	1.1	2	487	1620	5
Confectionery	94	1.9	4	1	1	1	1.9	1	1	85	1020	4
custard/desserts	82	6	9	1	10	12	5.9	1.1	2	100	1240	25
Dips	28	5.2	8	3	9	32	4.8	1.2	2	383	665	182
Dressings	95	3.3	6	2	43	45	2.9	1	1	807	1700	23
Ice cream	179	4.2	7	1	6	3	4.1	1	1	70	230	1
Meals/meal bases	292	6.6	9	1	59	20	6.4	1	2	757	9600	57
Miscellaneous	25	3.6	10	1	0	0	3.6	0	0	9410	39259	5
Pizza	3	4.7	6	4	0	0	4.7	0	0	603	743	525
Sauces/condiments	344	5.4	10	1	89	26	5.2	1	2	905	29000	5
Snacks	310	4.9	10	1	55	18	4.7	1.1	3	387	2700	1
Soups/stocks	245	6.6	8	6	41	17	6.4	1	1	297	627	17
Yeast spread	4	2	3	1	1	25	1.8	1	1	3110	3450	2380
Meats/fish	328	7.3	10	1	85	26	7	1.1	3	482	7895	22

AGHE Category	RECOMMENDED				SCENARIO							
	Count of Product	Average HSR star points	Max of HSR star points	Min of HSR star points	Count of products affected	Proportion of products affected (%)	Average of HSR star points for all products	Average reduction in HSR star points for affected products	Max of reduction in HSR star points for affected products	Average of sodium content affected products (mg/100g)	Max of sodium content affected products (mg/100g)	Min of sodium content affected products (mg/100g)
Nuts	76	7.9	10	1	11	14	7.8	1	1	170	680	1
Plant proteins	104	8.8	10	5	19	18	8.6	1.3	3	336	1050	1
Processed vegetables	299	8.6	10	1	25	8	8.6	1	1	242	3500	0
Unprocessed vegetables	62	10	10	10	0	0	10	0	0	21	212	1
Total	5456	6.4	10	1	1058	19	6.2	1.1	3	404	39259	0

Table 13 Summary of HSR Category 3 and 3D products impacted by Sodium Scenario 2, broken down by AGHE category and 5-digit AHS classification

AGHE Category	5-digit classification name	RECOMMENDED		SCENARIO							
		Count of products	Average HSR star points	Count of products affected (discretionary food flag)	Proportion of products affected (%)	Average HSR star points for all products	Average reduction in HSR star points for affected products	Max reduction in HSR star points for products affected	Average sodium content for products affected (mg/100g)	Max sodium content for products affected (mg/100g)	Min sodium content for products affected (mg/100g)
Cheese	Cheese, camembert, brie and other surface ripened cheeses	70	6.7	55	79	6.7	1.1	2	642.4	1320	470
	Cheese, hard cheese ripened styles	290	5.8	228	79	5.8	1.1	2	769.3	1900	270
	Cheese, hard cheese ripened styles, reduced fat	22	9.1	11	50	9.1	1.1	2	716.8	1265	330
	Cheese, not further defined	3	5.3	3	100	5.3	1	1	730.7	762	710
	Cheese, processed	40	4.3	36	90	4.3	1.4	2	1313.8	1950	615
	Cheese, processed, reduced fat	16	8.1	11	69	8.1	2.3	3	1428	1740	1133
	Cheese, unripened styles, including cream and cottage cheese, regular fat	3	9.7	1	33	9.7	1	1	511.7	710	185
Fats, oils & oil based spreads	Animal-based solid fats	1	2	0	0	2	0	0	0	0	0
	Butter	18	1.4	0	0	1.4	0	0	387.7	776	9
	Dairy blend, reduced fat, fat content <65 g/100g	9	5.4	0	0	5.4	0	0	393.1	511	206
	Dairy blend, regular, fat content ≥ 65g/100g	14	2.2	2 (2)	14	2.2	1	1	404.6	700	205
	Margarine spreads with added phytosterols	11	7.6	2	18	7.6	1	1	356.7	364	340
	Monounsaturated margarine spreads, fat content ≥65 g/100g	9	5.9	1	11	5.9	1	1	368.9	640	10
	Monounsaturated margarine spreads, fat content <65 g/100g	6	7.7	5	83	7.7	1	1	346.7	380	330
	Monounsaturated oils	14	6.6	2	14	6.6	1	1	51.4	360	0
	Polyunsaturated margarine spreads, fat content <65 g/100g	1	8	0	0	8	0	0	360	360	360
	Polyunsaturated margarine spreads, fat content ≥ 65g/100g	3	5.7	0	0	5.7	0	0	438	590	360
	Polyunsaturated oils	4	6	0	0	6	0	0	0	0	0
	Vegetable-based solid fats	3	2	0	0	2	0	0	0.3	1	0
Total		537	5.9	357 (2)	66	5.9	1.2	3	727.8	1950	0

Table 14 Summary of 'FFG' and 'discretionary' flagged foods for HSR 1D, 2 and 2D categories affected by Sodium Scenario 1, by AGHE Classification.

AGHE Category	RECOMMENDED				SCENARIO affected FFG products			SCENARIO affected discretionary products		
	Count of products	Count of FFG products	Count of discretionary products	Average HSR points all products	Count products affected	Proportion products affected (%)	Average reduction in HSR Star Points	Count products affected	Proportion products affected (%)	Average reduction in HSR star points
Bread	226	217	9	7.7	50	22	1	0	0	0
Breakfast Cereal	300	275	25	7.8	44	15	1.3	3	1	1
Pasta/flour/grains	185	185	0	7.3	11	6	1.5	0	0	0
Dairy alternative beverages	64	64	0	8.3	6	9	1	0	0	0
Dairy beverages	485	461	24	8	3	1	1	0	0	0
Beverages dry mix/milk powder	2	2	0	9	0	0	0	0	0	0
Yoghurt, soft cheese	415	412	3	7.7	14	3	1	0	0	0
Cream	68	4	64	1.4	0	0	0	0	0	0
Cream cheese	67	67	0	1.3	0	0	0	0	0	0
Processed fruit	124	94	30	6.4	2	2	1	0	0	0
Unprocessed fruit	33	33	0	10	0	0	0	0	0	0
Bakery/cake mixes	122	13	109	4	3	2	1	19	16	1
Biscuits	258	70	188	3.5	41	16	1.3	51	20	1
Confectionery	94	0	94	1.9	0	0	0	1	1	1
custard/desserts	82	33	49	6	4	5	1	6	7	1.2
Dips	28	0	28	5.2	0	0	0	9	32	1.2
Dressings	95	4	91	3.3	1	1	1	42	44	1
Ice cream	179	0	179	4.2	0	0	0	6	3	1
Meals/meal bases	292	171	121	6.6	40	14	1	19	7	1.1
Miscellaneous	25	13	12	3.6	0	0	0	0	0	0
Pizza	3	1	2	4.7	0	0	0	0	0	0
Sauces/condiments	344	11	333	5.4	2	1	1	87	25	1
Snacks	310	34	276	4.9	5	2	1	50	16	1.1
Soups/stocks	245	136	109	6.6	26	11	1	15	6	1
Yeast spread	4	0	4	2	0	0	0	1	25	1
Meats/fish	328	221	107	7.3	41	13	1.1	44	13	1.1
Nuts	76	74	2	7.9	11	14	1	0	0	0
Plant proteins	104	104	0	8.8	19	18	1.3	0	0	0
Processed vegetables	299	224	75	8.6	8	3	1	17	6	1
Unprocessed vegetables	62	62	0	10	0	0	0	0	0	0
Total	4919	2985	1934	6.5	331	7	1.1	370	8	1

Table 15 Health Star Rating for FFG' and 'discretionary' flagged products for Sodium Recommended and Scenario 1 models for HSR Categories 1D, 2 and 2D

Health Star Rating	SODIUM RECOMMENDED			SODIUM SCENARIO 1		
	Count of FFG products	Count of Discretionary products	Total	Count of FFG products	Count of Discretionary products	Total
0.5	83	275	358	84	322	406
1	12	157	169	14	154	168
1.5	12	288	300	18	318	336
2	46	226	272	62	215	277
2.5	102	214	316	135	210	345
3	247	324	571	295	318	613
3.5	671	210	881	669	196	865
4	894	213	1107	844	181	1025
4.5	413	20	433	371	13	384
5	505	7	512	493	7	500
Total	2985	1934	4919	2985	1934	4919

Table 16 Summary of AHS 5-digit food classifications affected by Sodium Scenario 1 by AGHE 'Core' categories

AGHE Category	5-digit classification name	RECOMMENDED Count of products	SCENARIO Count of products affected (is flagged as a discretionary food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	SCENARIO Average of HSR star points for all products	SCENARIO Average reduction in HSR star points for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average sodium for affected products (mg/100g)	SCENARIO Max of sodium for affected products (mg/100g)	SCENARIO Min of sodium for affected products (mg/100g)
Bread	Breads, and bread rolls, gluten free	12	5	42	6.9	6.5	1	1	420	502	400
	Breads, and bread rolls, mixed grain, additional voluntary fortification	4	2	50	8.5	8	1	1	400	400	400
	Breads, and bread rolls, mixed grain, mandatorily fortified	47	14	30	8.1	7.8	1	1	421	530	400
	Breads, and bread rolls, not stated as to major flour or fortification	1	1	100	8	7	1	1	400	400	400
	Breads, and bread rolls, rye, mandatorily fortified	9	1	11	8.1	8	1	1	400	400	400
	Breads, and bread rolls, white, additional voluntary fortification	11	2	18	8.2	8	1	1	400	400	400
	Breads, and bread rolls, white, mandatorily fortified	67	7	10	7.1	7	1	1	547	604	410
	Breads, and bread rolls, wholemeal and brown, mandatorily fortified	37	11	30	8.3	8	1	1	407	430	386
	Crumpets	3	2	67	7.3	6.7	1	1	585	600	570
	English-style muffins	6	1	17	8	7.8	1	1	340	340	340
	Flat breads (e.g. Pita bread), wheat based	12	3	25	7.3	7.1	1	1	453	570	360
	Sweet breads, buns and scrolls, uniced, unfilled	5	1	20	7.2	7	1	1	240	240	240
	Breakfast Cereal	Breakfast cereal, corn based, fortified	11	7 (1)	64	5.9	5.3	1	1	516	590
Breakfast cereal, mixed grain		6	1	17	8.7	8.5	1	1	255	255	255
Breakfast cereal, mixed grain, fortified, sugars >20 g/100g		20	3 (2)	15	5.4	5.3	1	1	530	560	500
Breakfast cereal, mixed grain, fortified, sugars ≤20 g/100g		11	3	27	7.9	7.6	1	1	264	265	263
Breakfast cereal, mixed grain, with fruit and/or nuts		58	2	3	8.1	8.1	1	1	128	165	90
Breakfast cereal, mixed grain, with fruit and/or nuts, fortified		39	11	28	7.4	6.9	1.8	3	253	490	80
Breakfast cereal, rice based, fortified		16	4	25	4.9	4.6	1	1	571	695	500
Breakfast cereal, wheat based		13	3	23	9.3	9.1	1	1	417	710	270
Breakfast cereal, wheat based, fortified, sugars >20 g/100g		1	1	100	7	6	1	1	350	350	350
Breakfast cereal, wheat based, fortified, sugars ≤20 g/100g		18	2	11	9.6	9.4	1.5	2	343	415	270
Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars >25 g/100g		5	2	40	7.8	7.2	1.5	2	335	400	270

AGHE Category	5-digit classification name	RECOMMENDED Count of products	SCENARIO Count of products affected (is flagged as a discretionary food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	SCENARIO Average of HSR star points for all products	SCENARIO Average reduction in HSR star points for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average sodium for affected products (mg/100g)	SCENARIO Max of sodium for affected products (mg/100g)	SCENARIO Min of sodium for affected products (mg/100g)
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars ≤25 g/100g	31	8	26	7.5	7.2	1.1	2	322	360	260
Pasta/flour/grains	Cereal flours and starches	35	8	23	7.8	7.4	1.6	2	638	795	241
	Instant noodles and noodle products, wheat based	40	3	8	5.8	5.7	1	1	575	678	430
Dairy alternative beverages	Soy-based beverage, plain, fortified	13	1	8	9.6	9.5	1	1	90	90	90
	Soy-based beverage, plain, reduced fat, fortified	6	1	17	9.3	9.2	1	1	90	90	90
	Soy-based beverage, reduced fat, flavoured	4	2	50	8	7.5	1	1	90	90	90
	Soy-based beverage, regular fat, flavoured	6	2	33	8.7	8.3	1	1	90	90	90
Dairy - beverages	Breakfast cereal beverages	17	1	6	9.1	9	1	1	80	80	80
	Milk, coffee/chocolate flavoured and milk-based drinks, full fat	133	1	1	7	7	1	1	76	76	76
	Milk, other flavoured and milk-based drinks, full fat	57	1	2	6.9	6.9	1	1	87	87	87
Yoghurt, soft cheese	Cheese, unripened styles, including cream and cottage cheese, reduced fat	11	3	27	9.2	8.9	1	1	236	380	159
	Cheese, unripened styles, including cream and cottage cheese, regular fat	18	5	28	6.2	5.9	1	1	381	419	330
	Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat)	71	1	1	5.9	5.9	1	1	82	82	82
	Yoghurt, flavoured or added fruit, reduced fat	93	1	1	8.4	8.4	1	1	78	78	78
	Yoghurt, natural, regular fat and high fat (>4 g/100g fat)	24	3	13	6.4	6.3	1	1	80	81	78
	Yoghurt, natural, skim and non-fat	4	1	25	10	9.8	1	1	90	90	90
Processed fruit	Dried vine fruit	5	1	20	5.4	5.2	1	1	87	87	87
	Other dried fruit including mixed dried fruit	19	1	5	6.5	6.4	1	1	79	79	79
Meats/fish	Bacon	4	1 (1)	25	2.8	2.5	1	1	2000	2000	2000
	Chicken	11	3	27	7.5	6.9	2.3	3	1234	1861	920
	Crustacea, fresh, frozen	6	2	33	7.7	7.3	1	1	641	641	641
	Fin fish, battered or crumbed	27	9 (9)	33	7.6	7.3	1	1	356	510	250
	Fish and seafood products	20	5 (5)	25	7.5	7.3	1	1	503	600	400
	Ham	29	18 (18)	62	4	3.3	1.2	2	1159	1336	900
	Lamb and mutton	10	1	10	8.1	7.9	2	2	268	268	268

AGHE Category	5-digit classification name	RECOMMENDED Count of products	SCENARIO Count of products affected (is flagged as a discretionary food)	SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	SCENARIO Average of HSR star points for all products	SCENARIO Average reduction in HSR star points for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average sodium for affected products (mg/100g)	SCENARIO Max of sodium for affected products (mg/100g)	SCENARIO Min of sodium for affected products (mg/100g)
	Mixed dishes with fish as the major component	5	1	20	7.6	7.4	1	1	452	452	452
	Molluscs, battered or crumbed	2	1 (1)	50	6.5	6	1	1	449	449	449
	Molluscs, fresh, frozen	3	2	67	8.7	8	1	1	161	161	161
	Other poultry	8	1	13	7.5	7.4	1	1	240	240	240
	Packed crustacea and molluscs	11	2	18	7.1	6.9	1	1	664	701	626
	Packed fin fish	103	26	25	7.8	7.6	1	1	421	625	235
	Pork	4	1	25	9	8.8	1	1	90	90	90
	Pork dishes with gravy, sauce or vegetables	1	1	100	9	8	1	1	170	170	170
	Processed delicatessen meat, mammalian	9	4 (4)	44	6	5.4	1.3	2	931	1040	889
	Processed delicatessen meat, poultry	6	4 (4)	67	7.2	6.3	1.3	2	871	1050	655
	Processed meat, commercially sterile (includes canned meats)	4	1 (1)	25	3.3	3	1	1	535	535	535
	Sausage, saturated fat content >5 g/100g	2	1 (1)	50	2.5	2	1	1	1060	1060	1060
	Smoked fish	1	1	100	4	3	1	1	1266	1266	1266
Nuts	Mixed nuts or nuts and seeds	5	1	20	8.8	8.6	1	1	680	680	680
	Peanut products	28	8	29	7.8	7.5	1	1	573	618	452
	Peanuts	8	2	25	8.6	8.4	1	1	405	430	380
Plant proteins	Legume and pulse products	18	1	6	8.6	8.5	1	1	435	435	435
	Mature legumes and pulses	7	1	14	9.7	9.6	1	1	355	355	355
	Mature legumes and pulses, commercially sterile	38	2	5	9.4	9.4	1	1	260	270	250
	Meat substitutes	38	15	39	8	7.5	1.3	3	621	1050	310
Processed vegetables	Cabbage and similar brassica vegetables	4	1	25	8.3	8	1	1	625	625	625
	Mushrooms	6	2	33	8.8	8.5	1	1	379	452	305
	Potato products	47	5 (5)	11	7.9	7.8	1	1	245	394	157
	Salads, vegetable based	14	2	14	8.1	7.9	1	1	375	480	270
	Stalk vegetables	9	1	11	8.1	8	1	1	2000	2000	2000
	Stuffed vegetables and vegetable dishes	1	1	100	8	7	1	1	270	270	270
	Sweetcorn	18	1	6	9.1	9	1	1	157	157	157
	Vegetable-based pickles, chutneys and relishes	25	12 (12)	48	5.2	4.7	1	1	1418	2070	500
Total		1531	273(64)	18	-	-	1.1	3	539	2070	76

Table 17 Summary of AHS 5-digit food classifications affected by Sodium Scenario 1 by AGHE 'Non-core' categories

AGHE Category	5-digit classification name	RECOMM- ENDED Count of products	SCENARIO count of affected products (is flagged as a FFG food)	SCENARIO Proportion of products affected (%)	SCENARIO Average of Recommended HSR star points for all products	SCENARIO Average of scenario HSR star points for all products	SCENARIO Average HSR star point reduction for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average of Sodium for affected products (mg/100g)	SCENARIO Max of Sodium for affected products (mg/100g)	SCENARIO Min of Sodium for affected products (mg/100g)
Bakery/cake mixes	Bread-based stuffings	1	1	100	5	4	1	1	854	854	854
	Cakes and cake mixes, chocolate	9	1	11	2.6	2.4	1	1	710	710	710
	Cakes and cake mixes, other types	14	2	14	3.1	3	1	1	354	395	312
	Cakes and cake mixes, sponge	4	1	25	4	3.8	1	1	330	330	330
	Cake-type desserts	9	1	11	5.1	5	1	1	237	237	237
	Fried bread products and garlic breads	16	4	25	3.9	3.6	1	1	541	668	470
	Muffins, cake type, and muffin mixes	5	2	40	3.4	3	1	1	328	395	260
	Other milk, cheese or cream-based desserts	2	1	50	2	1.5	1	1	230	230	230
	Pancakes, crepes and dishes	6	2 (2)	33	5.5	5.2	1	1	478	481	475
	Pastry, plain/unfilled, all types	21	4	19	4.5	4.3	1	1	490	630	339
	Savoury pastry products, pies, rolls and envelopes	6	2	33	4.5	4.2	1	1	666	850	481
Scones and rock cakes, plain or with added fruit or vegetables only	1	1 (1)	100	4	3	1	1	820	820	820	
Biscuits	Savoury biscuits, corn based	1	1 (1)	100	6	4	2	2	774	774	774
	Savoury biscuits, rice based (includes rice cakes)	25	9 (9)	36	5.2	4.8	1.1	2	578	944	420
	Savoury biscuits, rye based	5	4 (4)	80	7.6	6.6	1.3	2	549	643	468
	Savoury biscuits, wheat based, plain, energy >1800 kJ per 100 g	60	33	55	4	3.4	1	1	796	1158	303
	Savoury biscuits, wheat based, plain, energy ≤1800 kJ per 100 g	39	27 (27)	69	6.2	5.2	1.4	2	615	1000	392
	Sweet biscuits, chocolate-coated, chocolate chip	39	2	5	1.8	1.7	1	1	279	321	236
	Sweet biscuits, cream-filled	19	2	11	1.2	1.1	1	1	83	83	83
	Sweet biscuits, plain or flavoured including short bread varieties	32	10	31	2.8	2.5	1	1	369	553	229
	Sweet biscuits, plain with fruit or nuts	9	2	22	3.9	3.7	1	1	383	412	353
	Sweet biscuits, with jam, marshmallow or other sugar-based filling	3	2	67	2.7	2	1	1	323	478	168

AGHE Category	5-digit classification name	RECOMM- ENDED Count of products	SCENARIO count of affected products (is flagged as a FFG food)	SCENARIO Proportion of products affected (%)	SCENARIO Average of Recommended HSR star points for all products	SCENARIO Average of scenario HSR star points for all products	SCENARIO Average HSR star point reduction for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average of Sodium for affected products (mg/100g)	SCENARIO Max of Sodium for affected products (mg/100g)	SCENARIO Min of Sodium for affected products (mg/100g)
Confectionery	Chocolate-based confectionery with nut fillings or additions	9	1	11	1.2	1.1	1	1	83	83	83
Custard/desserts	Custard, fat content <4 g/100 g	25	4 (4)	16	6.9	6.8	1	1	80	88	76
	Dairy desserts, smooth or gelatin-based dairy desserts	47	4	9	5.8	5.7	1.3	2	82	83	81
	Other milk, cheese or cream-based desserts	2	2	100	4	3	1	1	78	80	76
Dips	Dairy based dips	15	3	20	4.3	4.1	1	1	476	518	441
	Other dips	1	1	100	5	4	1	1	452	452	452
	Vegetable based dips	11	5	45	6.2	5.5	1.4	2	391	475	250
Dressings	Italian and French-style dressings, full fat	19	8	42	3.8	3.4	1	1	836	1055	620
	Italian and French-style dressings, reduced or non-fat	10	7	70	3.9	3.2	1	1	1156	1700	720
	Mayonnaise and cream-style dressings, full fat	40	19	48	2.5	2	1	1	855	1290	426
	Mayonnaise and cream-style dressings, reduced or non-fat	22	8	36	3.8	3.4	1	1	877	970	730
	Vinegar	4	1 (1)	25	5	4.8	1	1	845	845	845
Ice cream	Ice cream, individual bar, stick and cone varieties, fat content >10 g/100 g	37	1	3	2.6	2.6	1	1	76	76	76
	Ice cream, tub varieties, fat content <4 g/100 g	27	2	7	6.3	6.3	1	1	130	175	85
	Ice cream, tub varieties, fat content 4 - 10 g/100 g	31	2	6	4.8	4.7	1	1	84	90	78
	Soy-based ice confection	6	1	17	6.3	6.2	1	1	77	77	77
Meals/meal bases	Dry savoury sauces and casserole bases and dry mixes	79	9	11	5.7	5.6	1	1	521	1373	166
	Mixed dishes with fish as the major component, with rice, pasta or noodles	9	3 (3)	33	7.3	7	1	1	210	242	155
	Other savoury grain dishes	4	1 (1)	25	6.8	6.5	1	1	1260	1260	1260
	Poultry dishes, with gravy, sauce or vegetables	5	1 (1)	20	7.2	7	1	1	309	309	309
	Poultry dishes, with gravy, sauce or vegetables, added pasta, noodles or rice	16	4 (4)	25	7.4	7.2	1	1	243	270	180
	Processed meat, commercially sterile (includes canned meats)	11	4	36	6.8	6.4	1.3	2	510	710	390
	Sausage dishes with gravy, sauce or vegetables	1	1 (1)	100	7	6	1	1	440	440	440

AGHE Category	5-digit classification name	RECOMM- ENDED Count of products	SCENARIO count of affected products (is flagged as a FFG food)	SCENARIO Proportion of products affected (%)	SCENARIO Average of Recommended HSR star points for all products	SCENARIO Average of scenario HSR star points for all products	SCENARIO Average HSR star point reduction for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average of Sodium for affected products (mg/100g)	SCENARIO Max of Sodium for affected products (mg/100g)	SCENARIO Min of Sodium for affected products (mg/100g)
	Savoury dumplings	2	2 (2)	100	7	6	1	1	610	610	610
	Savoury pasta/noodle and sauce dishes, saturated fat ≤5 g/100 g	70	21 (21)	30	6.5	6.2	1	2	276	534	164
	Savoury rice-based dishes, saturated fat ≤5 g/100 g	21	6 (6)	29	6.9	6.6	1	1	251	270	240
	Savoury sauces, commercial, simmer style	3	2	67	7.7	7	1	1	248	251	245
	Savoury sauces, not tomato based, commercial	6	2	33	7.5	7.2	1	1	236	322	151
	Soup containing meat, poultry or seafood	2	1 (1)	50	7	6.5	1	1	340	340	340
	Stock cubes and seasonings	19	2	11	7.2	7.1	1	1	252	254	250
Sauces/condiments	Dry gravy mixes	38	15	39	5.9	5.5	1	1	552	613	260
	Dry savoury sauces and casserole bases and dry mixes	25	4	16	5.9	5.7	1.3	2	386	439	244
	Gravies (prepared)	29	10	34	5.9	5.6	1	1	598	674	536
	Mayonnaise and cream-style dressings, full fat	5	2	40	2.6	2.2	1	1	720	800	640
	Mayonnaise and cream-style dressings, reduced or non-fat	1	1	100	5	4	1	1	650	650	650
	Savoury sauces, commercial, simmer style	11	3	27	4.5	4.3	1	1	807	913	605
	Savoury sauces, not tomato based, commercial	107	25	23	4.2	4	1	1	797	1650	403
	Savoury sauces, tomato based, commercial	89	20	22	6.8	6.6	1	1	628	1420	235
	Stock cubes and seasonings	17	5	29	2.7	2.4	1	1	1227	1620	665
	Tomato products	11	2 (2)	18	8.4	8.2	1	1	691	717	665
Snacks	Vegetable-based pickles, chutneys and relishes	5	2	40	4.8	4.4	1	1	887	1030	744
	Corn chips	12	2	17	3.4	3.3	1	1	612	652	572
	Extruded snacks	19	6	32	4.7	4.3	1.3	3	452	746	84
	Mixed dishes with fish as the major component	4	2 (2)	50	6.8	6.3	1	1	449	449	448
	Muesli and cereal style bars, added coatings or confectionery	54	4	7	5	4.9	1	1	194	255	160
	Muesli and cereal style bars, no fruit	20	2	10	4.8	4.6	1.5	2	260	260	260
	Muesli and cereal style bars, with fruit and/or nuts	40	7	18	6.9	6.7	1	1	186	235	90
Muesli bar, with fruit or fruit paste filling	11	4	36	4.5	4.1	1	1	205	325	165	

AGHE Category	5-digit classification name	RECOMM-ENDED Count of products	SCENARIO count of affected products (is flagged as a FFG food)	SCENARIO Proportion of products affected (%)	SCENARIO Average of Recommended HSR star points for all products	SCENARIO Average of scenario HSR star points for all products	SCENARIO Average HSR star point reduction for affected products	SCENARIO Max of reduction in HSR star points for affected products	SCENARIO Average of Sodium for affected products (mg/100g)	SCENARIO Max of Sodium for affected products (mg/100g)	SCENARIO Min of Sodium for affected products (mg/100g)
	Other snacks	37	10	27	2.2	2	1	1	985	1980	435
	Peanut products	9	2 (2)	22	6.4	6.2	1	1	867	906	827
	Popcorn	11	1 (1)	9	6.5	6.4	1	1	691	691	691
	Potato crisps	47	14	30	4.6	4.3	1.2	2	557	970	379
	Snack bar, other	4	1	25	3	2.8	1	1	170	170	170
Soups/stocks	Dry soup mix containing meat, poultry or seafood	56	9	16	6.2	6.1	1	1	267	355	230
	Dry soup mix, vegetable only	45	6	13	6.3	6.1	1	1	249	260	230
	Soup containing meat, poultry or seafood	54	7 (7)	13	6.9	6.8	1	1	271	330	245
	Soup, vegetable only	60	11 (11)	18	7.1	6.9	1	1	265	307	245
	Stock, prepared	22	8 (8)	36	6.3	6	1	1	404	627	245
Yeast spread	Yeast extracts	4	1	25	2	1.8	1	1	2380	2380	2380
Total		1727	428 (122)	25	-	-	1.1	3	555	2380	76

APPENDIX 3 Combined Scenario Tables

Table 18 Number of TAG database products affected by Combined Scenario, Total Sugars Scenario, Sodium Scenario 1 for HSR 1D, 2 and 2D categories

AGHE Category	RECOMMENDED Count of Products	COMBINED SCENARIO Count of affected products	TOTAL SUGARS SCENARIO Count of affected products	SODIUM SCENARIO 1 Count of affected products	TOTAL SUGARS AND SODIUM SCENARIO 1 Count of products affected by both	Count of products affected by COMBINED SCENARIO but not affected by INDEPENDENT SCENARIOS
Bread	226	51	1	50	0	0
Breakfast Cereal	300	108	63	47	24	22
Pasta/flour/grains	185	11	0	11	0	0
Dairy alternative beverages	64	6	0	6	0	0
Dairy beverages	485	53	50	3	0	0
Beverages dry mix/milk powder	2	0	0	0	0	0
Yoghurt, soft cheese	415	85	71	14	0	0
Cream	68	1	1	0	0	0
Cream cheese	67	0	0	0	0	0
Processed fruit	124	33	32	2	2	1
Unprocessed fruit	33	0	0	0	0	0
Bakery/cake mixes	122	47	26	22	9	8
Biscuits	258	112	30	92	18	8
Confectionery	94	21	21	1	1	0
custard/desserts	82	31	26	10	5	0
Dips	28	9	0	9	0	0
Dressings	95	51	7	43	7	8
Ice cream	179	46	40	6	2	2
Meals/meal bases	292	61	2	59	1	1
Miscellaneous	25	8	8	0	0	0
Pizza	3	0	0	0	0	0
Sauces/condiments	344	116	25	89	16	18
Snacks	310	94	47	55	17	9
Soups/stocks	245	41	0	41	0	0
Yeast spread	4	1	0	1	0	0
Meats/fish	328	85	0	85	0	0
Nuts	76	16	12	11	7	0
Plant proteins	104	19	0	19	0	0
Processed vegetables	299	28	4	25	3	2
Unprocessed vegetables	62	0	0	0	0	0
Total	4919	1134	466	701	112	79

Table 19 Summary of impact of Combined Scenario on HSR Star Points for HSR categories 1D, 2 and 2D, by AGHE category

AGHE category	RECOMMENDED				COMBINED SCENARIO		RECOMMENDED	COMBINED SCENARIO	
	Count of products	Average HSR star points for all products	Max HSR star points for all products	Min HSR star points for all products	Count of products affected	Proportion of products affected (%)	Average HSR star points for affected products	Average HSR star points for affected products	Average reduction in HSR star points for affected products
Bread	226	7.7	10	5	51	23	8.1	7.1	1
Breakfast Cereal	300	7.8	10	3	108	36	7.4	6.1	1.3
Pasta/flour/grains	185	7.3	10	4	11	6	6.9	5.5	1.5
Dairy alternative beverages	64	8.3	10	6	6	9	8.5	7.5	1
Dairy beverages	485	8	10	3	53	11	7.8	6.8	1
Beverages dry mix/milk powder	2	9	9	9	0	0	0	0	0
Yoghurt, soft cheese	415	7.7	10	1	85	20	7.7	6.7	1
Cream	68	1.4	8	1	1	1	3	1	2
Cream cheese	67	1.3	8	1	0	0	0	0	0
Processed fruit	124	6.4	10	3	33	27	6.2	5.2	1
Unprocessed fruit	33	10	10	10	0	0	0	0	0
Bakery/cake mixes	122	4	8	1	47	39	3.7	2.7	1
Biscuits	258	3.5	9	1	112	43	4.7	3.6	1.1
Confectionery	94	1.9	4	1	21	21	3	2	1
custard/desserts	82	6	9	1	31	38	6.3	5.2	1.2
Dips	28	5.2	8	3	9	32	5.3	4.1	1.2
Dressings	95	3.3	6	2	51	54	3.4	2.4	1
Ice cream	179	4.2	7	1	46	26	4.2	3.2	1
Meals/meal bases	292	6.6	9	1	61	21	7.1	6	1
Miscellaneous	25	3.6	10	1	8	32	2.6	1.6	1
Pizza	3	4.7	6	4	0	0	0	0	0
Sauces/condiments	344	5.4	10	1	116	34	5.2	4.2	1
Snacks	310	4.9	10	1	94	30	5.1	4	1.1
Soups/stocks	245	6.6	8	6	41	17	7.1	6.1	1
Yeast spread	4	2	3	1	1	25	3	2	1
Meats/fish	328	7.3	10	1	85	26	6.8	5.7	1.1
Nuts	76	7.9	10	1	16	21	5.2	4.2	1
Plant proteins	104	8.8	10	5	19	18	7.9	6.7	1.3
Processed vegetables	299	8.6	10	1	28	9	6.3	5.3	1
Unprocessed vegetables	62	10	10	10	0	0	0	0	0
Total	4919	6.5	10	1	1134	23	6	4.9	1.1

Table 20 Summary of impact of Combined Scenario on 'FFG' and 'Discretionary' flagged products by AGHE categories

AGHE Category	RECOMMENDED				COMBINED SCENARIO					
	Count of all products	Count of FFG products	Count of discretionary products	Average HSR star points	Count of FFG products affected	Proportion of FFG products affected (%)	FFG average reduction in HSR star points	Count of discretionary products affected	Proportion of discretionary products affected	Discretionary average reduction in HSR star points
Bread	226	217	9	7.7	51	23	1	0	0	0
Breakfast Cereal	300	275	25	7.8	98	33	1.3	10	3	1
Pasta/flour/grains	185	185	0	7.3	11	6	1.5	0	0	0
Dairy alternative beverages	64	64	0	8.3	6	9	1	0	0	0
Dairy beverages	485	461	24	8	53	11	1	0	0	0
Beverages dry mix/milk powder	2	2	0	9	0	0	0	0	0	0
Yoghurt, soft cheese	415	412	3	7.7	84	20	1	1	0	1
Cream	68	4	64	1.4	0	0	0	1	1	2
Cream cheese	67	67	0	1.3	0	0	0	0	0	0
Processed fruit	124	94	30	6.4	26	21	1	7	6	1
Unprocessed fruit	33	33	0	10	0	0	0	0	0	0
Bakery/cake mixes	122	13	109	4	5	4	1	42	34	1
Biscuits	258	70	188	3.5	41	16	1.3	71	28	1
Confectionery	94	0	94	1.9	0	0	0	21	22	1
custard/desserts	82	33	49	6	14	17	1	17	21	1.3
Dips	28	0	28	5.2	0	0	0	9	32	1.2
Dressings	95	4	91	3.3	1	1	1	50	53	1
Ice cream	179	0	179	4.2	0	0	0	46	26	1
Meals/meal bases	292	171	121	6.6	41	14	1	20	7	1.1
Miscellaneous	25	13	12	3.6	5	20	1	3	12	1
Pizza	3	1	2	4.7	0	0	0	0	0	0
Sauces/condiments	344	11	333	5.4	2	1	1	114	33	1
Snacks	310	34	276	4.9	5	2	1	89	29	1.1
Soups/stocks	245	136	109	6.6	26	11	1	15	6	1
Yeast spread	4	0	4	2	0	0	0	1	25	1
Meats/fish	328	221	107	7.3	41	13	1.1	44	13	1.1
Nuts	76	74	2	7.9	16	21	1	0	0	0
Plant proteins	104	104	0	8.8	19	18	1.3	0	0	0
Processed vegetables	299	224	75	8.6	8	3	1	20	7	1
Unprocessed vegetables	62	62	0	10	0	0	0	0	0	0
Total	4919	2985	1934	6.5	553	11	1.1	581	12	1

Table 21 Health star rating of 'FFG' and 'discretionary' flagged products for Recommended and Combined Scenario models

Health Star Rating	RECOMMENDED			COMBINED SCENARIO		
	Count of FFG products	Count of Discretionary products	Total	Count of FFG products	Count of Discretionary products	Total
0.5	83	275	358	92	358	450
1	12	157	169	9	170	179
1.5	12	288	300	18	322	340
2	46	226	272	65	187	252
2.5	102	214	316	161	202	363
3	247	324	571	309	315	624
3.5	671	210	881	723	190	913
4	894	213	1107	776	172	948
4.5	413	20	433	346	11	357
5	505	7	512	486	7	493
Total	2985	1934	4919	2985	1934	4919

Table 22 Summary of AHS 5-digit food classifications affected by Combined Scenario by AGHE 'Core' categories

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a discretionary food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
Bread	Breads, and bread rolls, gluten free	12	5	42	6.9	6.5	1	4.4	6.4	3.7	420	502	400
	Breads, and bread rolls, mixed grain, additional voluntary fortification	4	2	50	8.5	8	1	2.9	3.2	2.6	400	400	400
	Breads, and bread rolls, mixed grain, mandatorily fortified	47	14	30	8.1	7.8	1	2.4	3.9	1.7	421	530	400
	Breads, and bread rolls, not stated as to major flour or fortification	1	1	100	8	7	1	3	3	3	400	400	400
	Breads, and bread rolls, rye, mandatorily fortified	9	1	11	8.1	8	1	2.7	2.7	2.7	400	400	400
	Breads, and bread rolls, white, additional voluntary fortification	11	2	18	8.2	8	1	3.5	3.5	3.5	400	400	400
	Breads, and bread rolls, white, mandatorily fortified	67	7	10	7.1	7	1	1.6	4.9	0.1	547	604	410
	Breads, and bread rolls, wholemeal and brown, mandatorily fortified	37	11	30	8.3	8	1	3.2	5.3	2.3	407	430	386
	Crumpets	3	2	67	7.3	6.7	1	2.3	3	1.6	585	600	570
	English-style muffins	6	1	17	8	7.8	1	2.1	2.1	2.1	340	340	340
	Flat breads (e.g. Pita bread), wheat based	12	3	25	7.3	7.1	1	1.9	3	1.2	453	570	360
	Sweet breads, buns and scrolls, uniced, unfilled	5	2	40	7.2	6.8	1	19.9	20.8	19	223	240	205
Breakfast cereals	Breakfast cereal, corn based, fortified	11	8 (1)	73	5.9	5.2	1	15.5	41.3	7.3	489	590	300
	Breakfast cereal, mixed grain	6	1	17	8.7	8.5	1	15.7	15.7	15.7	255	255	255
	Breakfast cereal, mixed grain, fortified, sugars >20 g/100g	20	16 (7)	80	5.4	4.6	1	29.8	38.6	20	289	560	30
	Breakfast cereal, mixed grain, fortified, sugars ≤20 g/100g	11	5	45	7.9	7.4	1.2	15.6	18.9	11.9	298	385	263
	Breakfast cereal, mixed grain, with fruit and/or nuts	58	16	28	8.1	7.8	1.3	18	23.4	10.2	94	277	11
	Breakfast cereal, mixed grain, with fruit and/or nuts, fortified	39	17	44	7.4	6.6	1.8	20.6	27	14.1	250	490	80
	Breakfast cereal, rice based, fortified	16	6 (2)	38	4.9	4.4	1.2	17.9	34	8.6	476	695	160

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a discretionary food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Breakfast cereal, wheat based	13	3	23	9.3	9.1	1	6.4	13.8	2.7	417	710	270
	Breakfast cereal, wheat based, fortified, sugars >20 g/100g	1	1	100	7	6	1	21.5	21.5	21.5	350	350	350
	Breakfast cereal, wheat based, fortified, sugars ≤20 g/100g	18	7	39	9.6	9.2	1.1	12.3	19.6	2.9	336	415	230
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars >25 g/100g	5	5	100	7.8	6.6	1.2	29.9	32.2	25.1	307	400	135
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars ≤25 g/100g	31	16	52	7.5	6.8	1.3	20.2	24.7	12.1	267	360	15
	Porridge style, oat based	39	6	15	8.4	8.3	1.2	22.4	29	15.7	24	37	6
	Porridge style, other cereals	2	1	50	8	7.5	1	15.5	15.5	15.5	110	110	110
Pasta/flour /grains	Cereal flours and starches	35	8	23	7.8	7.4	1.6	1.8	2.7	0.1	638	795	241
	Instant noodles and noodle products, wheat based	40	3	8	5.8	5.7	1	2.4	3.3	1.3	575	678	430
Dairy alternative beverages	Soy-based beverage, plain, fortified	13	1	8	9.6	9.5	1	1.6	1.6	1.6	90	90	90
	Soy-based beverage, plain, reduced fat, fortified	6	1	17	9.3	9.2	1	1.6	1.6	1.6	90	90	90
	Soy-based beverage, reduced fat, flavoured	4	2	50	8	7.5	1	7.1	7.1	7.1	90	90	90
	Soy-based beverage, regular fat, flavoured	6	2	33	8.7	8.3	1	7.4	7.4	7.4	90	90	90
Dairy beverages	Breakfast cereal beverages	17	1	6	9.1	9	1	9.2	9.2	9.2	80	80	80
	Fortified beverage flavourings prepared with water or milk	6	3	50	8.2	7.7	1	8.6	8.8	8.4	55	66	45
	Milk, coffee/chocolate flavoured and milk-based drinks, full fat	133	26	20	7	6.8	1	8.7	8.9	8.3	44	76	36
	Milk, coffee/chocolate flavoured and milk-based drinks, reduced fat	29	3	10	9.1	9	1	8.9	8.9	8.9	48	52	40
	Milk, other flavoured and milk-based drinks, full fat	57	17	30	6.9	6.6	1	9.2	17.3	8.5	44	87	36

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a discretionary food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Milk, other flavoured and milk-based drinks, reduced fat	4	1	25	8.3	8	1	8.4	8.4	8.4	40	40	40
	Milk-based fruit drinks	3	1	33	7	6.7	1	12.8	12.8	12.8	70	70	70
	Unfortified beverage flavourings prepared with water or milk	10	1	10	7.2	7.1	1	8.6	8.6	8.6	58	58	58
Yoghurt, soft cheese	Cheese, unripened styles, including cream and cottage cheese, reduced fat	11	3	27	9.2	8.9	1	2.6	3.1	1.9	236	380	159
	Cheese, unripened styles, including cream and cottage cheese, regular fat	18	5	28	6.2	5.9	1	2.3	2.7	2	381	419	330
	Other beverages	3	1 (1)	33	7.7	7.3	1	15.6	15.6	15.6	25	25	25
	Yoghurt, added nutrients or other substances	38	14	37	8.4	8	1	11.8	12.4	8.832	45	64	33
	Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat)	71	16	23	5.9	5.6	1	13.7	15.9	11.8	55	82	42
	Yoghurt, flavoured or added fruit, full fat	102	26	25	7.6	7.4	1	12.1	12.8	8.6	51	62	36
	Yoghurt, flavoured or added fruit, reduced fat	93	13	14	8.4	8.3	1	13.7	16.3	8.5	54	78	34
	Yoghurt, natural, reduced fat	28	1	4	9	9	1	8.9	8.9	8.9	73	73	73
	Yoghurt, natural, regular fat and high fat (>4 g/100g fat)	24	5	21	6.4	6.2	1	9	12.65	4.8	73	81	58
	Yoghurt, natural, skim and non-fat	4	1	25	10	9.8	1	5.5	5.5	5.5	90	90	90
Processed fruit	Apples	2	1	50	9	8.5	1	11.5	11.5	11.5	1	1	1
	Dried vine fruit	5	4	80	5.4	4.6	1	64.5	72	54	29	87	3
	Fruit bar and fruit-based confectionery	6	4 (4)	67	6.5	5.8	1	26.5	26.8	26.2	50	50	50
	Fruit-based pickles, chutneys and relishes	3	1 (1)	33	4.3	4	1	48	48	48	700	700	700
	Jams and conserves, sugar sweetened	20	2 (2)	10	3.1	3	1	65.4	66.3	64.4	10	14	5
	Mixtures of two or more groups of fruit, commercially sterile	17	2	12	7.4	7.3	1	15.4	15.6	15.1	32	32	31
	Other dried fruit including mixed dried fruit	19	13	68	6.5	5.8	1	50.5	71.8	29.5	49	160	2

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a discretionary food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Other stone fruit, commercially sterile	6	1	17	6.8	6.7	1	15	15	15	8	8	8
	Peaches and nectarines, commercially sterile	12	2	17	7.3	7.1	1	17.4	18.5	16.3	6	8	4
	Tropical and subtropical fruit, commercially sterile	17	4	24	7.5	7.3	1	15.2	16	14.8	3	5	0
Meats/fish	Bacon	4	1 (1)	25	2.8	2.5	1	1.8	1.8	1.8	2000	2000	2000
	Chicken	11	3	27	7.5	6.9	2.3	4.5	9.5	2	1234	1861	920
	Crustacea, fresh, frozen	6	2	33	7.7	7.3	1	1	1	1	641	641	641
	Fin fish, battered or crumbed	27	9 (9)	33	7.6	7.3	1	2.5	3.8	1	356	510	250
	Fish and seafood products	20	5 (5)	25	7.5	7.3	1	1.7	2.7	1	503	600	400
	Ham	29	18 (18)	62	4	3.3	1.2	1.4	2.1	0.9	1159	1336	900
	Lamb and mutton	10	1	10	8.1	7.9	2	0.3	0.3	0.3	268	268	268
	Mixed dishes with fish as the major component	5	1	20	7.6	7.4	1	4.7	4.7	4.7	452	452	452
	Molluscs, battered or crumbed	2	1 (1)	50	6.5	6	1	0.5	0.5	0.5	449	449	449
	Molluscs, fresh, frozen	3	2	67	8.7	8	1	2.7	2.7	2.7	161	161	161
	Other poultry	8	1	13	7.5	7.4	1	0	0	0	240	240	240
	Packed crustacea and molluscs	11	2	18	7.1	6.9	1	1.4	2.2	0.6	664	701	626
	Packed fin fish	103	26	25	7.8	7.6	1	1.1	5.9	0	421	625	235
	Pork	4	1	25	9	8.8	1	0	0	0	90	90	90
	Pork dishes with gravy, sauce or vegetables	1	1	100	9	8	1	2.6	2.6	2.6	170	170	170
	Processed delicatessen meat, mammalian	9	4 (4)	44	6	5.4	1.3	0.6	1.1	0.2	931	1040	889
	Processed delicatessen meat, poultry	6	4 (4)	67	7.2	6.3	1.3	1.1	2	0.2	871	1050	655
	Processed meat, commercially sterile (includes canned meats)	4	1 (1)	25	3.3	3	1	1.3	1.3	1.3	535	535	535
	Sausage, saturated fat content >5 g/100g	2	1 (1)	50	2.5	2	1	1.5	1.5	1.5	1060	1060	1060
Smoked fish	1	1	100	4	3	1	0	0	0	1266	1266	1266	
Nuts	Mixed nuts or nuts and seeds	5	1	20	8.8	8.6	1	3.2	3.2	3.2	680	680	680
	Other nuts and nut products and dishes	32	4	13	8.2	8.1	1	17	19	15	285	290	280
	Peanut products	28	8	29	7.8	7.5	1	10.2	15.4	7.8	573	618	452
	Peanuts	8	2	25	8.6	8.4	1	5.5	6.3	4.7	405	430	380

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a discretionary food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Sweet spreads or sauces, chocolate/coffee flavoured	2	1	50	1.5	1	1	57.2	57.2	57.2	33	33	33
Plant proteins	Legume and pulse products	18	1	6	8.6	8.5	1	4.6	4.6	4.6	435	435	435
	Mature legumes and pulses	7	1	14	9.7	9.6	1	0.8	0.8	0.8	355	355	355
	Mature legumes and pulses, commercially sterile	38	2	5	9.4	9.4	1	1.4	2.2	0.6	260	270	250
	Meat substitutes	38	15	39	8	7.5	1.3	2.1	4.6	0.6	621	1050	310
Processed vegetables	Cabbage and similar brassica vegetables	4	1	25	8.3	8	1	0.7	0.7	0.7	625	625	625
	Fruit-based pickles, chutneys and relishes	2	1 (1)	50	4	3.5	1	15.6	15.6	15.6	238	238	238
	Leaf vegetables	41	1	2	9.3	9.2	1	0.2	0.2	0.2	80	80	80
	Mushrooms	6	2	33	8.8	8.5	1	0.6	1	0.2	379	452	305
	Potato products	47	5 (5)	11	7.9	7.8	1	4	12	0	245	394	157
	Salads, vegetable based	14	2	14	8.1	7.9	1	10.7	15.4	6	375	480	270
	Stalk vegetables	9	1	11	8.1	8	1	0.1	0.1	0.1	2000	2000	2000
	Stuffed vegetables and vegetable dishes	1	1	100	8	7	1	3.4	3.4	3.4	270	270	270
	Sweetcorn	18	1	6	9.1	9	1	4.6	4.6	4.6	157	157	157
Vegetable-based pickles, chutneys and relishes	25	14 (14)	56	5.2	4.6	1	6.2	40	0	1279	2070	370	
Total		1912	495 (82)	26	-	-	1.1	11.6	72	0	341	2070	0

Table 23 Summary of AHS 5-digit food classifications affected by Combined Scenario by AGHE 'Non-Core' categories

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a FFG food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
Cream	Cream, reduced fat	8	1	13	2.6	2.4	2	8.6	8.6	8.6	116	116	116
Bakery/cake mixes	Bread-based stuffings	1	1	100	5	4	1	3.1	3.1	3.1	854	854	854
	Cakes and cake mixes, chocolate	9	3	33	2.6	2.2	1	44.3	48.1	36.9	472	710	280
	Cakes and cake mixes, other types	14	7	50	3.1	2.6	1	44.5	80.4	27	348	520	88
	Cakes and cake mixes, sponge	4	4	100	4	3	1	37.9	42.6	32.5	267	330	205
	Cake-type desserts	9	3	33	5.1	4.8	1	34.8	53.1	21.4	162	237	43
	Fried bread products and garlic breads	16	4	25	3.9	3.6	1	1.9	3.4	0.9	541	668	470
	Muffins, cake type, and muffin mixes	5	3	60	3.4	2.8	1	27.6	33	21.1	323	395	260
	Other milk, cheese or cream-based desserts	2	1	50	2	1.5	1	20.1	20.1	20.1	230	230	230
	Pancakes, crepes and dishes	6	4 (4)	67	5.5	4.8	1	15.4	18.7	12.2	424	481	335
	Pastry, plain/unfilled, all types	21	4	19	4.5	4.3	1	0.3	0.9	0.1	490	630	339
	Savoury pastry products, pies, rolls and envelopes	6	2	33	4.5	4.2	1	0.9	1.2	0.5	666	850	481
	Scones and rock cakes, plain or with added fruit or vegetables only	1	1 (1)	100	4	3	1	6.5	6.5	6.5	820	820	820
	Slices, biscuit and cake-type	2	2	100	2.5	1.5	1	44.8	48	41.6	213	225	200
	Sugar-based desserts	7	5	71	1.7	1	1	73.5	74.5	72.6	97	122	61
	Sweet breads, buns and scrolls, iced and/or filled	3	1	33	4.3	4	1	31.8	31.8	31.8	402	402	402
Sweet pastry products, fruit and/or nut fillings	4	2	50	3.5	3	1	33.9	45.4	22.4	239	300	178	
Biscuits	Savoury biscuits, corn based	1	1 (1)	100	6	4	2	0.9	0.9	0.9	774	774	774
	Savoury biscuits, rice based (includes rice cakes)	25	9 (9)	36	5.2	4.8	1.1	2.7	4.2	0.5	578	944	420
	Savoury biscuits, rye based	5	4 (4)	80	7.6	6.6	1.3	4	6.3	2.1	549	643	468
	Savoury biscuits, wheat based, plain, energy >1800 kJ per 100 g	60	33	55	4	3.4	1	3.2	7.8	0.4	796	1158	303
	Savoury biscuits, wheat based, plain, energy ≤1800 kJ per 100 g	39	27 (27)	69	6.2	5.2	1.4	3.2	6.7	0.1	615	1000	392

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a FFG food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Sweet biscuits, chocolate-coated, chocolate chip	39	8	21	1.8	1.6	1	36.6	43.7	32	234	388	112
	Sweet biscuits, chocolate-coated, chocolate or cream filled	25	3	12	1.1	1	1	28.2	35.1	14.9	241	292	177
	Sweet biscuits, cream-filled	19	3	16	1.2	1	1	29.3	34.8	26.5	148	279	83
	Sweet biscuits, plain or flavoured including short bread varieties	32	16	50	2.8	2.3	1	30.8	49.2	18.5	331	553	192
	Sweet biscuits, plain with fruit or nuts	9	5	56	3.9	3.3	1	35.1	52.5	19.4	238	412	118
	Sweet biscuits, with jam, marshmallow or other sugar-based filling	3	3	100	2.7	1.7	1	33.3	44.1	23.8	284	478	168
Confectionery	Chocolate (plain, unfilled varieties)	19	1	5	1.2	1.1	1	32.2	32.2	32.2	172	172	172
	Chocolate-based confectionery with nut fillings or additions	9	2	22	1.2	1	1	43.6	56.2	31	118	152	83
	Lollies and other confectionery, sugar sweetened	44	17	39	2.8	2.4	1	57.8	79.8	42.3	44	220	13
	Other confectionery	1	1	100	2	1	1	70.3	70.3	70.3	145	145	145
Custard/ desserts	Custard, fat content <4 g/100 g	25	13 (13)	52	6.9	6.4	1	13.4	18.84	11.6	74	136	56
	Dairy desserts, smooth or gelatin-based dairy desserts	47	15	32	5.8	5.3	1.3	14.7	20.1	8.9	65	145	25
	Other milk, cheese or cream-based desserts	2	2	100	4	3	1	20.4	20.8	19.9	78	80	76
	Yoghurt, flavoured or added fruit and/or cereal, high fat (>4 g/100g fat)	2	1 (1)	50	5.5	5	1	15.2	15.2	15.2	50	50	50
Dips	Dairy based dips	15	3	20	4.3	4.1	1	4.6	5.472	3.9	476	518	441
	Other dips	1	1	100	5	4	1	4.5	4.544	4.544	452	452	452
	Vegetable based dips	11	5	45	6.2	5.5	1.4	3.3	5.4	1	391	475	250
Dressings	Italian and French-style dressings, full fat	19	9	47	3.8	3.4	1	9.7	13.1	7.1	876	1190	620
	Italian and French-style dressings, reduced or non-fat	10	7	70	3.9	3.2	1	13	16.9	8.5	1156	1700	720
	Mayonnaise and cream-style dressings, full fat	40	21	53	2.5	2	1	12.9	26	1.1	871	1290	426
	Mayonnaise and cream-style dressings, reduced or non-fat	22	13	59	3.8	3.2	1	18.4	27.2	12	911	1040	730

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a FFG food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Vinegar	4	1	25	5	4.8	1	8.9	8.9	8.9	845	845	845
Ice cream	Frozen dairy desserts, other	3	2	67	2.7	2	1	20.8	22.6	19	34	38	30
	Ice cream, individual bar, stick and cone varieties, fat content >10 g/100 g	37	12	32	2.6	2.3	1	26.3	31.3	20.3	67	105	20
	Ice cream, individual bar, stick and cone varieties, fat content 4 - 10 g/100 g	14	2	14	5.3	5.1	1	21.6	22.7	20.4	149	230	68
	Ice cream, tub varieties, fat content <4 g/100 g	27	3	11	6.3	6.2	1	16.8	20.8	9.1	100	175	39
	Ice cream, tub varieties, fat content >10 g/100 g	55	15	27	3.2	2.9	1	22.9	26	19	83	147	45
	Ice cream, tub varieties, fat content 4 - 10 g/100 g	31	8	26	4.8	4.5	1	22.6	27.4	18.3	87	140	20
	Soy-based ice confection	6	2	33	6.3	6	1	18.5	19.8	17.1	66	77	55
	Water ice confection, gelato, sorbet	3	2	67	6	5.3	1	17.8	19.8	15.8	25	30	20
Meals/meal bases	Dry savoury sauces and casserole bases and dry mixes	79	10	13	5.7	5.6	1	6.7	21.1	1.3	491	1373	166
	Mixed dishes with fish as the major component, with rice, pasta or noodles	9	3 (3)	33	7.3	7	1	2.1	2.75	0.9	210	242	155
	Other savoury grain dishes	4	1 (1)	25	6.8	6.5	1	8.5	8.5	8.5	1260	1260	1260
	Poultry dishes, with gravy, sauce or vegetables	5	1 (1)	20	7.2	7	1	1.1	1.1	1.1	309	309	309
	Poultry dishes, with gravy, sauce or vegetables, added pasta, noodles or rice	16	4 (4)	25	7.4	7.2	1	2.8	5.7	1.3	243	270	180
	Processed meat, commercially sterile (includes canned meats)	11	4	36	6.8	6.4	1.3	2.3	3.7	0.1	510	710	390
	Sausage dishes with gravy, sauce or vegetables	1	1 (1)	100	7	6	1	2.2	2.2	2.2	440	440	440
	Savoury dumplings	2	2 (2)	100	7	6	1	11.3	11.3	11.3	610	610	610
	Savoury pasta/noodle and sauce dishes, saturated fat ≤5 g/100 g	70	22 (22)	31	6.5	6.2	1	4.5	20.2	1.7	275	534	164
	Savoury rice-based dishes, saturated fat ≤5 g/100 g	21	6 (6)	29	6.9	6.6	1	1.6	2.6	1.1	251	270	240
	Savoury sauces, commercial, simmer style	3	2	67	7.7	7	1	2.6	2.6	2.5	248	251	245
	Savoury sauces, not tomato based, commercial	6	2	33	7.5	7.2	1	3.7	4.8	2.6	236	322	151

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a FFG food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Soup containing meat, poultry or seafood	2	1 (1)	50	7	6.5	1	1.5	1.5	1.5	340	340	340
	Stock cubes and seasonings	19	2	11	7.2	7.1	1	1.2	1.8	0.6	252	254	250
Miscellaneous	Milk, evaporated or condensed, undiluted	6	5 (5)	83	2.7	1.8	1	57.9	60.9	55.9	94	100	90
	Sweet biscuits, plain or flavoured including short bread varieties	1	1	100	2	1	1	72.1	72.1	72.1	10	10	10
	Toppings, all flavours	4	2	50	4.3	3.8	1	47.8	48.3	47.2	69	69	69
Sauces/condiments	Dry gravy mixes	38	15	39	5.9	5.5	1	1.4	2.8	0.14	552	613	260
	Dry savoury sauces and casserole bases and dry mixes	25	4	16	5.9	5.7	1.3	2.5	3.1	1.9	386	439	244
	Gravies (prepared)	29	10	34	5.9	5.6	1	2.1	3.5	0.1	598	674	536
	Mayonnaise and cream-style dressings, full fat	5	2	40	2.6	2.2	1	10.8	13.7	7.8	720	800	640
	Mayonnaise and cream-style dressings, reduced or non-fat	1	1	100	5	4	1	16.6	16.6	16.6	650	650	650
	Savoury sauces, commercial, simmer style	11	4	36	4.5	4.2	1	11.9	16.6	2.8	647	913	166
	Savoury sauces, not tomato based, commercial	107	38	36	4.2	3.9	1	23.2	63.4	1.074	733	1650	131
	Savoury sauces, tomato based, commercial	89	30	34	6.8	6.5	1	18.8	48.3	1.5	662	1420	235
	Stock cubes and seasonings	17	6	35	2.7	2.4	1	11.6	49.8	2.9	1038	1620	93
	Tomato products	11	2 (2)	18	8.4	8.2	1	10	10.2	9.7	691	717	665
	Vegetable-based pickles, chutneys and relishes	5	4	80	4.8	4	1	23.1	29.3	16.1	574	1030	218
Snacks	Corn chips	12	2	17	3.4	3.3	1	2.6	2.9	2.2	612	652	572
	Extruded snacks	19	7	37	4.7	4.2	1.3	6.9	10.8	2.7	442	746	84
	Fruit bar and fruit-based confectionery	11	2	18	6	5.8	1	65.4	73.9	56.8	65	98	32
	Lollies and other confectionery, sugar sweetened	1	1	100	4	3	1	38.7	38.7	38.7	100	100	100
	Mixed dishes with fish as the major component	4	2 (2)	50	6.8	6.3	1	4.1	4.406	3.79	449	449	448
	Muesli and cereal style bars, added coatings or confectionery	54	20	37	5	4.5	1.2	25.7	38.8	11.4	121	255	15
	Muesli and cereal style bars, no fruit	20	9	45	4.8	4.3	1.1	27.3	38.6	12.1	275	390	190
	Muesli and cereal style bars, with fruit and/or nuts	40	15	38	6.9	6.5	1.1	24.3	41	15.6	142	285	10

AGHE Category	5-digit name	RECOMMENDED Count of products	COMBINED SCENARIO Count of products affected (is flagged as a FFG food)	COMBINED SCENARIO Proportion of products affected (%)	RECOMMENDED Average of HSR star points for all products	COMBINED SCENARIO Average of HSR star points for all products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
	Muesli bar, with fruit or fruit paste filling	11	6	55	4.5	3.9	1	36.4	41	26.8	245	325	165
	Other snacks	37	10	27	2.2	2	1	7.1	12.4	0.4	985	1980	435
	Peanut products	9	2 (2)	22	6.4	6.2	1	7.1	7.4	6.8	867	906	827
	Popcorn	11	1 (1)	9	6.5	6.4	1	0.1	0.1	0.1	691	691	691
	Potato crisps	47	14	30	4.6	4.3	1.2	2.7	5.2	0.3	557	970	379
	Snack bar, other	4	1	25	3	2.8	1	24.9	24.9	24.9	170	170	170
	Sweet biscuits, chocolate-coated, chocolate chip	1	1	100	3	2	1	35.4	35.4	35.4	380	380	380
	Sweet biscuits, chocolate-coated, chocolate or cream filled	2	1	50	2.5	2	1	36.3	36.3	36.3	40	40	40
Soup/stocks	Dry soup mix containing meat, poultry or seafood	56	9	16	6.2	6.1	1	0.8	1.7	0.4	267	355	230
	Dry soup mix, vegetable only	45	6	13	6.3	6.1	1	1.1	1.8	0.5	249	260	230
	Soup containing meat, poultry or seafood	54	7 (7)	13	6.9	6.8	1	1.9	3.2	0.5	271	330	245
	Soup, vegetable only	60	11 (11)	18	7.1	6.9	1	2.8	4.7	1	265	307	245
	Stock, prepared	22	8 (8)	36	6.3	6	1	1.3	3.2	0.4	404	627	245
Yeast spread	Yeast extracts	4	1	25	2	1.8	1	3.7	3.7	3.7	2380	2380	2380
Total		1943	639 (140)	33	-	-	1.1	16.7	80.4	0.1	446	2380	10

Table 24 Summary of AHS 5-digit food classifications affected by both Total Sugars and Sodium Scenarios, by AGHE categories

AGHE Category	5-digit classification name	RECOMMENDED Count of Products	RECOMMENDED Average of HSR star points	BOTH SCENARIOS Average of HSR star points	BOTH SCENARIOS Average reduction in HSR star points for affected products	BOTH SCENARIOS Average of total sugars for products affected (g/100g)	BOTH SCENARIOS Max of total sugars for products affected (g/100g)	BOTH SCENARIOS Min of total sugars for products affected (g/100g)	BOTH SCENARIOS Average of sodium for products affected (mg/100g)	BOTH SCENARIOS Max of sodium for products affected (mg/100g)	BOTH SCENARIOS Min of sodium for products affected (mg/100g)
Breakfast Cereal	Breakfast cereal, corn based, fortified	2	4	3	1	34.8	41.3	28.2	425	530	320
	Breakfast cereal, mixed grain	1	8	7	1	15.7	15.7	15.7	255	255	255
	Breakfast cereal, mixed grain, fortified, sugars >20 g/100g	3	4.3	3.3	1	31.5	34.4	28	530	560	500
	Breakfast cereal, mixed grain, with fruit and/or nuts	1	7	6	1	18.2	18.2	18.2	165	165	165
	Breakfast cereal, mixed grain, with fruit and/or nuts, fortified	7	7.6	5.4	2.1	20.7	26.8	16.5	227	340	160
	Breakfast cereal, rice based, fortified	2	5.5	4	1.5	8.6	8.6	8.6	618	695	540
	Breakfast cereal, wheat based, fortified, sugars >20 g/100g	1	7	6	1	21.5	21.5	21.5	350	350	350
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars >25 g/100g	2	8	6.5	1.5	30.2	32.2	28.2	335	400	270
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars ≤25 g/100g	5	7.8	6.4	1.4	19.1	23.9	12.1	307	360	260
Processed fruit	Dried vine fruit	1	6	5	1	54	54	54	87	87	87
	Other dried fruit including mixed dried fruit	1	6	5	1	66.9	66.9	66.9	79	79	79
Bakery/cake mixes	Cakes and cake mixes, chocolate	1	2	1	1	48	48	48	710	710	710
	Cakes and cake mixes, other types	2	4	3	1	29.3	31.4	27.1	354	395	312
	Cakes and cake mixes, sponge	1	4	3	1	35.4	35.4	35.4	330	330	330
	Cake-type desserts	1	6	5	1	21.4	21.4	21.4	237	237	237
	Muffins, cake type, and muffin mixes	1	3	2	1	33	33	33	260	260	260
	Other milk, cheese or cream-based desserts	1	2	1	1	20.1	20.1	20.1	230	230	230
	Pancakes, crepes and dishes	2	5.5	4.5	1	15.5	18.7	12.2	478	481	475
Biscuits	Sweet biscuits, chocolate-coated, chocolate chip	2	2.5	1.5	1	32.5	32.6	32.4	279	321	236
	Sweet biscuits, cream-filled	2	2	1	1	26.5	26.5	26.5	83	83	83
	Sweet biscuits, plain or flavoured including short bread varieties	10	3.2	2.2	1	28.3	45.8	18.5	369	553	229
	Sweet biscuits, plain with fruit or nuts	2	2.5	1.5	1	27.9	36.4	19.4	383	412	353

AGHE Category	5-digit classification name	RECOMMENDED Count of Products	RECOMMENDED Average of HSR star points	BOTH SCENARIOS Average of HSR star points	BOTH SCENARIOS Average reduction in HSR star points for affected products	BOTH SCENARIOS Average of total sugars for products affected (g/100g)	BOTH SCENARIOS Max of total sugars for products affected (g/100g)	BOTH SCENARIOS Min of total sugars for products affected (g/100g)	BOTH SCENARIOS Average of sodium for products affected (mg/100g)	BOTH SCENARIOS Max of sodium for products affected (mg/100g)	BOTH SCENARIOS Min of sodium for products affected (mg/100g)
	Sweet biscuits, with jam, marshmallow or other sugar-based filling	2	3	2	1	28	32.1	23.8	323	478	168
Confectionery	Chocolate-based confectionery with nut fillings or additions	1	2	1	1	31	31	31	83	83	83
Custard/desserts	Custard, fat content <4 g/100 g	1	9	8	1	11.6	11.6	11.6	81	81	81
	Dairy desserts, smooth or gelatin-based dairy desserts	3	6.3	4.3	2	14.4	20.1	11.6	81	81	81
	Other milk, cheese or cream-based desserts	1	4	3	1	19.9	19.9	19.9	80	80	80
Dressings	Italian and French-style dressings, reduced or non-fat	2	4	3	1	16.4	16.5	16.3	1095	1095	1095
	Mayonnaise and cream-style dressings, full fat	4	3.8	2.8	1	13.4	21.4	8.5	765	950	619
	Mayonnaise and cream-style dressings, reduced or non-fat	1	4	3	1	27.2	27.2	27.2	730	730	730
Ice cream	Ice cream, individual bar, stick and cone varieties, fat content >10 g/100 g	1	2	1	1	28.6	28.6	28.6	76	76	76
	Ice cream, tub varieties, fat content 4 - 10 g/100 g	1	5	4	1	21.8	21.8	21.8	90	90	90
Meals/meal bases	Savoury pasta/noodle and sauce dishes, saturated fat ≤5 g/100 g	1	6	4	2	8.9	8.9	8.9	534	534	534
Sauces/condiments	Mayonnaise and cream-style dressings, reduced or non-fat	1	5	4	1	16.6	16.6	16.6	650	650	650
	Savoury sauces, not tomato based, commercial	9	2.7	1.7	1	38.9	42.7	26.8	945	1200	554
	Savoury sauces, tomato based, commercial	5	3.8	2.8	1	31.4	48.3	20.2	896	1230	449
	Vegetable-based pickles, chutneys and relishes	1	5	4	1	16.1	16.1	16.1	744	744	744
Snacks	Muesli and cereal style bars, added coatings or confectionery	3	2.3	1.3	1	36.1	38.5	31.4	205	255	180
	Muesli and cereal style bars, no fruit	2	5.5	4	1.5	25.4	38.6	12.1	260	260	260
	Muesli and cereal style bars, with fruit and/or nuts	6	6.7	5.7	1	24.8	41	20.5	189	235	90
	Muesli bar, with fruit or fruit paste filling	4	4.8	3.8	1	37.4	41	26.8	205	325	165
	Other snacks	1	2	1	1	12.4	12.4	12.4	672	672	672
	Snack bar, other	1	4	3	1	24.9	24.9	24.9	170	170	170
Nuts	Peanut products	7	6	5	1	10.5	15.4	8.5	570	618	452

AGHE Category	5-digit classification name	RECOMMENDED Count of Products	RECOMMENDED Average of HSR star points	BOTH SCENARIOS Average of HSR star points	BOTH SCENARIOS Average reduction in HSR star points for affected products	BOTH SCENARIOS Average of total sugars for products affected (g/100g)	BOTH SCENARIOS Max of total sugars for products affected (g/100g)	BOTH SCENARIOS Min of total sugars for products affected (g/100g)	BOTH SCENARIOS Average of sodium for products affected (mg/100g)	BOTH SCENARIOS Max of sodium for products affected (mg/100g)	BOTH SCENARIOS Min of sodium for products affected (mg/100g)
Processed vegetables	Potato products	1	8	7	1	12	12	12	267	267	267
	Salads, vegetable based	1	7	6	1	15.4	15.4	15.4	270	270	270
	Vegetable-based pickles, chutneys and relishes	1	8	7	1	11.7	11.7	11.7	500	500	500
Total		112	4.8	3.6	1.2	25.5	66.9	8.5	430	1230	76

Table 25 Summary of AHS 5-digit food classifications affected by the Combined Scenario but not the individual Total Sugars or Sodium Scenarios, by AGHE categories

AGHE Category	5-digit name	Count of products affected by COMBINED SCENARIO but not affected by INDEPENDENT SCENARIOS	RECOMMENDED Average of HSR star points for affected products	COMBINED SCENARIO Average of HSR star points for affected products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
Breakfast cereals	Breakfast cereal, mixed grain, fortified, sugars >20 g/100g	5	5.4	4.4	1	28.6	31.5	20	276	398	240
	Breakfast cereal, mixed grain, fortified, sugars ≤20 g/100g	2	8.5	7	1.5	15.4	18.9	11.9	348	385	310
	Breakfast cereal, mixed grain, with fruit and/or nuts	3	8	6.3	1.7	22.3	23.4	21.4	81	84	80
	Breakfast cereal, mixed grain, with fruit and/or nuts, fortified	4	7.8	6.5	1.3	21.3	22.6	18.9	256	260	250
	Breakfast cereal, rice based, fortified	2	4	3	1	33.4	34	32.7	285	410	160
	Breakfast cereal, wheat based, fortified, sugars ≤20 g/100g	4	10	9	1	16	19.6	12.1	324	390	230
	Breakfast cereal, wheat based, with fruit and/or nuts, fortified, sugars ≤25 g/100g	2	6	5	1	19.2	19.2	19.2	335	335	335
Processed Fruit	Other dried fruit including mixed dried fruit	1	4	3	1	44.4	44.4	44.4	160	160	160
Bakery/cake mixes	Cakes and cake mixes, other types	2	2.5	1.5	1	34.3	41.5	27	415	434	395
	Cakes and cake mixes, sponge	1	4	3	1	32.5	32.5	32.5	320	320	320
	Muffins, cake type, and muffin mixes	1	4	3	1	28.6	28.6	28.6	315	315	315
	Pancakes, crepes and dishes	2	6	5	1	15.4	15.8	15	371	406	335
	Sweet breads, buns and scrolls, iced and/or filled	1	4	3	1	31.8	31.8	31.8	402	402	402
	Sweet pastry products, fruit and/or nut fillings	1	4	3	1	22.4	22.4	22.4	178	178	178
Biscuits	Sweet biscuits, chocolate-coated, chocolate chip	2	3	2	1	33.6	33.6	33.5	294	348	240
	Sweet biscuits, chocolate-coated, chocolate or cream filled	2	2	1	1	25	35.1	14.9	215	253	177
	Sweet biscuits, plain or flavoured including short bread varieties	3	3	2	1	39.2	49.2	32.5	295	389	245
	Sweet biscuits, plain with fruit or nuts	1	3	2	1	52.5	52.5	52.5	168	168	168
Dressings	Italian and French-style dressings, full fat	1	3	2	1	12.2	12.2	12.2	1190	1190	1190
	Mayonnaise and cream-style dressings, full fat	2	2.5	1.5	1	21.2	26	16.4	1024	1085	962
	Mayonnaise and cream-style dressings, reduced or non-fat	5	3.4	2.4	1	18.3	26.4	12	964	1040	870

AGHE Category	5-digit name	Count of products affected by COMBINED SCENARIO but not affected by INDEPENDENT SCENARIOS	RECOMMENDED Average of HSR star points for affected products	COMBINED SCENARIO Average of HSR star points for affected products	COMBINED SCENARIO Average reduction in HSR star points for affected products	COMBINED SCENARIO Average of total sugars for affected products (g/100g)	COMBINED SCENARIO Max of total sugars for affected products (g/100g)	COMBINED SCENARIO Min of total sugars for affected products (g/100g)	COMBINED SCENARIO Average of sodium for affected products (mg/100g)	COMBINED SCENARIO Max of sodium for affected products (mg/100g)	COMBINED SCENARIO Min of sodium for affected products (mg/100g)
Ice cream	Ice cream, individual bar, stick and cone varieties, fat content 4 - 10 g/100 g	1	4	3	1	22.7	22.7	22.7	230	230	230
	Ice cream, tub varieties, fat content >10 g/100 g	1	4	3	1	24	24	24	90	90	90
Meals/meal bases	Savoury pasta/noodle and sauce dishes, saturated fat ≤5 g/100 g	1	6	5	1	20.2	20.2	20.2	260	260	260
Sauces/condiments	Savoury sauces, commercial, simmer style	1	6	5	1	16.6	16.6	16.6	166	166	166
	Savoury sauces, not tomato based, commercial	9	3.3	2.3	1	28.5	47.6	18.3	804	1100	463
	Savoury sauces, tomato based, commercial	8	4.9	3.9	1	28.7	37.3	12.3	708	975	505
Snacks	Extruded snacks	1	7	6	1	8.4	8.4	8.4	380	380	380
	Muesli and cereal style bars, added coatings or confectionery	4	3.8	2.8	1	29.9	38.8	18.3	242	255	230
	Muesli and cereal style bars, no fruit	2	4	3	1	28.1	30	26.1	330	390	269
	Muesli bar, with fruit or fruit paste filling	1	4	3	1	33.8	33.8	33.8	324	324	324
	Sweet biscuits, chocolate-coated, chocolate chip	1	3	2	1	35.4	35.4	35.4	380	380	380
Processed Vegetables	Fruit-based pickles, chutneys and relishes	1	7	6	1	15.6	15.6	15.6	238	238	238
	Vegetable-based pickles, chutneys and relishes	1	6	5	1	23.6	23.6	23.6	520	520	520
Total		79	4.8	3.8	1	25.9	52.5	8.4	457	1190	80

APPENDIX 4 Glossary and Definition of Terms

Table 26 Simple naming of Australian Guide to Healthy Eating (AGHE) categories

HSR Category	Simple HSR name	Simple AGHE name	TAG Database name		
1	Non-dairy beverages	Carbonated beverages	Non-core foods - carbonated beverages		
		Cordials	Non-core foods - cordial		
		Dry beverage mixes	Non-core foods - beverage dry mixes		
		Flavoured waters	flavoured water		
		Ice Confectionery	Non-core foods - ice confectionery		
		Jelly	Non-core foods - jelly		
		Lifestyle drinks	Non-core foods - lifestyle		
		Other Juices	Fruit - whole juices		
		Water	Water		
		Whole juices	Fruit - other juices		
		1D	Dairy beverages	Dairy alternative beverages	Core Dairy alternative- beverages
				Dairy beverage dry mix	Core Dairy - beverages dry mix/milk powder
				Dairy beverages	Core Dairy - beverages
2	Foods	Breads	Core Cereals - bread		
		Breakfast cereals	Core Cereals - breakfast		
		Pasta/flour/grains	Core Cereals - pasta/flour/grains		
		Cream	Dairy Non-core foods - cream		
		Cream cheese	Dairy Non-core foods - cream cheese		
		Processed fruit	Fruit - processed		
		Unprocessed fruit	Fruit - unprocessed		
		Bakery/cake mixes	Non-core foods - bakery/cake mixes		
		Biscuits	Non-core foods - biscuits		
		Confectionery	Non-core foods - confectionery		
		Dips	Non-core foods - dips		
		Dressings	Non-core foods - dressings		
		Ice cream	Non-core foods - ice cream		
		Meals/meal bases	Non-core foods - meals/meal bases		
		Miscellaneous	Non-core foods - miscellaneous		
		Pizza	Non-core foods - pizza		
		Sauces/condiments	Non-core foods - sauces/condiments		
		Snacks	Non-core foods - snacks		
		Soups/stocks	Non-core foods - soups/stocks		
		Yeast spread	Non-core foods - yeast spread		
		Meat/fish	Protein - meats/fish		
		Nuts	Protein - nuts		
		Plant protein	Protein - plant		
		Processed vegetables	Vegetables - processed		
		Unprocessed vegetables	Vegetables - unprocessed		
		2D	Dairy foods	Custards/desserts	Non-core foods - custard/desserts
				Yoghurt, soft cheese	Core Dairy - yoghurt, soft cheese
3	Fats and oils	Fats & oils	Fats, oils & oil based spreads		
3D	Cheeses	Cheeses	Core Dairy - cheese		

Glossary and Definition of HSR System Terms

Term	Definition
AGHE	The Australian Guide to Healthy Eating, included in <i>Eat for Health: Australian Dietary Guidelines, NHMRC 2013</i>
As sold	The food as sold such that the food can be prepared with other food or consumed as sold.
As consumed	The food as consumed including foods that are required to be prepared according to directions prior to consumption.
Baseline points (in Schedule 5)	In Schedule 5, baseline points are calculated as part of the nutrient profiling score. Baseline points are allocated for the energy, saturated fatty acids, sugar and sodium present in foods and beverages, in accordance with Schedule 5.
The Code	Australia New Zealand Food Standards Code
Dairy foods (including dairy alternatives)	<p>Milk and the cheeses and yoghurts produced from cow, goat, sheep and buffalo milk, including fermented milk products. Standard 2.5.1 defines compositional requirements for the minimum milk fat and protein content of cow's milk. Beverages made from milk that do not meet these compositional criteria are termed 'dairy beverages' in this user guide.</p> <p>For the purposes of the HSRC, milk and dairy beverage alternatives derived from legumes, cereals, nuts or seeds, and yoghurt and cheese alternatives derived from legumes, may be considered to belong to the dairy categories providing these food products meet the calcium content criteria specified in the HSRC for the relevant food category.</p> <p>Milk, dairy beverage, yoghurt and cheese alternatives not referred to above and not fortified with calcium and other nutrients are not considered a dairy food for the purposes of the HSRC.</p>
FoPL	Front of Pack Labelling
Foundation Diets	Foundation Diets are referred to in the 2013 Australian Dietary Guidelines and AGHE with a selection of the diets being informed by current scientific evidence derived from the literature. The Foundation Diets were modelled to provide as close to 100% requirements for ten key nutrients as possible and to meet low (sedentary lifestyle) energy requirements.
fvnl	Defined in Schedule 5 to mean fruit, vegetables, nuts and legumes including coconut, spices, herbs, fungi, seeds and algae. Products score V points for the proportion of the food that is fvnl. See Step 4 of the Guide for Industry to the HSR Calculator for the rules relating to scoring these points, noting that the V points table has been expanded in the HSRC compared to the table in the NPSC.
General purpose foods	<p>All foods except Special Purpose Foods in Part 2.9 of the Code. See Section 3.2 of the HSR Style Guide for foods that should not display the HSR system.</p> <p>Note: These foods are subject to the requirements for nutrition content claims and general level health claims set out in Standard 1.2.7 and Schedule 4 and Schedule 5.</p>

Term	Definition
Special purpose foods	<p>Part 2.9 of the Code regulates special purpose foods e.g. foods for infants.</p> <p>For the purposes of the HSR system formulated meal replacements and formulated supplementary foods standardised in Divisions 2 and 3 of Standard 2.9.3 may use the HSR System as category 1, 1D or 2, 2D foods.</p> <p>Note: Special purpose foods are not required to meet the NPSC if they carry health claims, because they have their own compositional requirements. The exception is infant formula products, which are not permitted to carry any claims.</p>
HSR	Health Star Rating
HSR baseline points	Points allocated to baseline nutrients in the HSRC, where the points available to score individual nutrients are extended beyond the capped points available in the NPSC.
HSR F points	Category 2 and 3 food products score F points for the amount of dietary fibre present in the food. Category 1 and 1D foods do not score F points. Fibre points contribute to HSR modifying points, where the points available are extended beyond the capped points available for fibre in the NPSC.
HSR modifying points	Points allocated to modifying nutrients in the HSRC, where the points available to score individual nutrients are extended beyond the capped points available in the NPSC.
HSR P points	Food products score P points for the amount of protein present in the food. Protein points contribute to HSR modifying points, where the points available are extended beyond the capped points available for protein in the NPSC. Protein points can be scored if a food product scores less than 13 baseline points in the HSRC. A food product that scores more than or equal to 13 baseline points can only score protein points if the food scores 5 or more V points in the HSRC.
HSR V points	Products score V points for the proportion of their ingredients comprising of <i>fvnl</i> (fruits, vegetables, nuts and legumes including coconut, spices, herbs, fungi, seeds and algae). See Schedule 5 and Step 4 below for the rules relating to scoring these points, noting that the V points table has been expanded in the HSRC compared to the table in the NPSC.
HSRC	Health Star Rating Calculator
HSR System	New FoPL that combines a Health Star Rating, an energy icon and nutrition elements.
Modifying points (in Schedule 5)	In Schedule 5, modifying points are calculated as part of the nutrient profiling score. Modifying points are allocated for the %fvnl, and in some instances, the amount of protein and dietary fibre, present in foods and beverages, in accordance with Schedule 5.
NIP	Nutrition Information Panel found on most packages of food in Australia.
NPC	Nutrition Panel Calculator: a web-based tool on the FSANZ website based on NUTTAB that allows manufacturers to calculate values for their NIPs using their recipes and standard allowances for gains and losses in weight upon cooking.
NPSC	Nutrient Profiling Scoring Criterion, referred to in Standard 1.2.7 and detailed in Schedule 5.

Term	Definition
NUTTAB	The reference database for the composition of Australian foods. The most recent release in the series is NUTTAB 2010.
Product	Refers to food products.
Rating	Refers to the Health Star Rating for a food product.
Schedule 4 (in The Code)	Nutrition, Health and Related Claims
Schedule 5 (in The Code)	Nutrient Profiling Scoring Method
Score	Refers to Health Star Rating score for a food product, calculated by subtracting the HSR modifying points (HSR V, P and F points) from the HSR baseline points.
Standard 1.2.7 (in The Code)	Nutrition, Health and Related Claims
Standard 1.2.8 (in The Code)	Nutrition Information Requirements
Standard 1.2.10 (in The Code)	Characterising Ingredients and Components of Food
Standard 1.3.2 (in The Code)	Vitamins and Minerals
Standard 1.4.2 (in The Code)	Maximum Residue Limits (Australia Only)
Standard 2.4.1 (in The Code)	Edible Oils
Standard 2.4.2 (in The Code)	Edible Oil Spreads
Standard 2.5.1 (in The Code)	Milk
Standard 2.5.4 (in The Code)	Cheese
Standard 2.5.5 (in The Code)	Butter
Standard 2.6.1 (in The Code)	Fruit Juice and Vegetable Juice
Standard 2.9.1 (in The Code)	Infant Formula Products
Standard 2.9.2 (in The Code)	Foods for Infants
Standard 2.9.3 (in The Code)	Formulated Meal Replacements and Formulated Supplementary Foods
Standard 2.9.4 (in The Code)	Formulated Supplementary Sports Foods
Standard 2.9.5 (in The Code)	Foods for Special Medical Purposes
The Code	The Australia New Zealand Food Standards Code