



**Food and Agriculture
Organization of
the United Nations**



**World Health
Organization**

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Agenda Item 5(d)

CX/FA 16/48/10
November 2015

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON FOOD ADDITIVES

Forty-eighth Session

Xi'an, China, 14-18 March 2016

USES AND USE LEVELS OF PAPRIKA EXTRACT (INS 160C (II))

Replies to CL 2015/9-FA Part C, point 8 of IACM and NATCOL

INTERNATIONAL ASSOCIATION OF COLOR MANUFACTURERS (IACM)

The International Association of Color Manufacturers (IACM) has requested from its members information on the use of Paprika extract as a color additive, INS 160c (ii), in foods and beverages in the United States. A compilation of data received by three member companies are attached for your review.

Use levels of extracts of different color strength (color units, CU) have been standardized to CU=100,000 or 7.2% carotenoids. The data submitted are expressed in units of mg/kg or mg/l (ppm) of total carotenoids in the food item as listed in the index. Notes pertinent to particular applications are shown on the right side of the dataset (column H).

Company / organisation name:

IACM compiled data for USA

GSFA Categories in which the use of one or more colors is justified		Paprika INS160c(ii) Use Levels*			
FCS No.	Title	Low**	Typical	Max	Notes
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	1	7	14	
01.3.2	Beverage whiteners				
01.4.4	Cream analogues	0.5***	1	4	
01.5.2	Milk and cream powder analogues	0.5	1	4	
01.6.1	Unripened cheese	1	7	14	
01.6.2	Ripened cheese	1	7	14	
01.6.2.1	Ripened cheese, includes rind	1	7	14	
01.6.2.2	Rind of ripened cheese				
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	4	148	576	Cheese powder is diluted in the final Ready-to-eat product
01.6.4	Processed cheese	0.5	13	49	
01.6.4.1	Plain processed cheese				
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	0.5	1	4	
01.6.5	Cheese analogues	0.5	13	49	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	12	24	49	
02.1.3	Lard, tallow, fish oil, and other animal fats				
02.2.1	Emulsions containing at least 80% fat	0.5	1	4	
02.2.1.1	Butter and concentrated butter				
02.2.1.2	Margarine and similar products				
02.2.1.3	Blends of butter and margarine				
02.2.2	Emulsions containing less than 80% fat	0.5	1	4	

02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1	7	14	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1	7	14	
03.0	Edible ices, including sherbet and sorbet	1	7	14	
04.1.1.2	Surface-treated fresh fruit				
04.1.2.2	Dried fruit				
04.1.2.3	Fruit in vinegar, oil, or brine				
04.1.2.4	Canned or bottled (pasteurized) fruit				
04.1.2.5	Jams, jellies, marmelades	1	5	11	For orange spreads, a small segment of the market
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1	5	11	
04.1.2.7	Candied fruit	1	5	11	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1	5	11	
04.1.2.9	Fruit-based desserts, incl. fruit-flavoured water-based desserts	1	5	11	
04.1.2.10	Fermented fruit products				
04.1.2.11	Fruit fillings for pastries	1	5	11	
04.1.2.12	Cooked fruit				
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds				
04.2.2.2	Dried vegetables, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds				
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soy sauce	1	7	14	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1	7	14	
04.2.2.5	Vegetable, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1	7	14	
04.2.2.6	Vegetable, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	1	7	14	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean	1	7	14	

	products of food category 12.10				
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds				
05.1.2	Cocoa mixes (syrops)				
05.1.3	Cocoa-based spreads, incl. fillings				
05.1.4	Cocoa and chocolate products				
05.1.5	Imitation chocolate, chocolate substitute products	1	7	14	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3, and 05.4				
05.2.1	Hard candy	1	7	14	
05.2.2	Soft candy	1	11	72	
05.2.3	Nougats and marzipans				
05.3	Chewing gum	0.5	38	144	The majority of the color remains with the gum matrix and is not ingested
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit), and sweet sauces	1	7	29	
06.3	Breakfast cereals, including rolled oats	4	36	72	
06.4.3	Pre-cooked pastas and noodles and like products	4	36	72	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	12	24	49	
06.6	Batters (e.g., for breading or batters for fish or poultry)	0.5	11	36	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	1	7	14	
06.8	Soybean products (excluding soybean products of food category 12.9 and fermented soybean products of food category 12.10)				
07.1.2	Crackers, excluding sweet crackers	0.5	25	72	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	0.5	25	72	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	4	36	72	
07.2.1	Cakes, cookies and pies (e.g., fruit-filled or custard types)	4	36	72	
07.2.2	Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)	4	36	72	
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	5	72	144	Mixes and powders are diluted in the final Ready-to-Eat product
08.1	Fresh meat, poultry and game				
08.1.1	Fresh meat, poultry and game, whole pieces or cuts				
08.1.2	Fresh meat, poultry and game, comminuted				
08.2	Processed meat, poultry, and game products in whole pieces or cuts	1	36	72	
08.2.1	Non-heat treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.1.1	Cured (including salted) non-heat				

	treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	1	7	14	
08.2.1.3	Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	1	7	14	
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts				
08.3	Processed comminuted meat, poultry, and game products				
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	0.5	14	58	
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	0.5	14	58	
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	0.5	11	58	
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	0.5	14	58	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	0.5	25	72	
08.3.3	Frozen processed comminuted meat, poultry, and game products				
08.4	Edible casings (e.g., sausage casings)	1	7	14	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms				
09.1.1	Fresh fish				
09.1.2	Fresh mollusks, crustaceans and echinoderms				
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms				
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms				
09.2.2	Frozen battered fish, fish fillets and fish products, including mollusks, crustaceans, and echinoderms	1	7	14	Use rate is for the breading.
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	1	7	14	Use rate is for the breading.
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	1	7	14	
09.2.4.1	Cooked fish and fish products	1	7	14	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	1	7	14	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	1	7	14	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products,	1	7	14	

	including mollusks, crustaceans, and echinoderms				
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms				
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly				
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine				
09.3.3	Salmon substitutes, caviar, and other fish roe products	1	7	14	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	1	7	14	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	1	7	14	
10.1	Fresh eggs				
10.2	Egg products	1	7	14	
10.2.1	Liquid egg products	1	7	14	
10.2.2	Frozen egg products	1	7	14	
10.2.3	Dried and/or heat coagulated egg products				
10.3	Preserved eggs, including alkaline, salted, and canned eggs				
10.4	Egg-based desserts (e.g., custard)	5	11	22	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3				
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)				
12.2.2	Seasonings and condiments	1	5	72	
12.3	Vinegars	1	7	14	
12.4	Mustards	1	7	14	
12.5	Soups and broths	0.5	5	14	
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	0.5	5	14	
12.5.2	Mixes for soups and broths	0.5	7	22	
12.6	Sauces and like products	0.5	7	22	
12.6.1	Emulsified sauces (e.g., mayonnaise, salad dressing)	5	11	22	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	0.5	6	22	
12.6.3	Mixes for sauces and gravies	0.5	6	22	
12.6.4	Clear sauces (e.g., fish sauce)	1	7	14	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	5	11	22	
12.9	Protein products				
12.9.1	Soybean protein products	1	7	14	

12.9.1.1	Soybean beverage	1	7	14	
12.9.1.2	Soybean milk film	1	7	14	
12.9.1.3	Other soybean protein products (including non-fermented soy sauce)	1	7	14	
12.9.2	Fresh bean curd (tofu)				
12.9.3	Semi-dehydrated bean curd				
12.9.3.1	Thick gravy-stewed semi-dehydrated bean curd				
12.9.3.2	Deep fried semi-dehydrated bean curd				
12.9.3.3	Semi-dehydrated bean curd, other than food categories 12.9.3.1 and 12.9.3.2				
12.9.4	Dehydrated bean curd (kori tofu)				
12.9.5	Other protein products	1	7	14	
12.10	Fermented soybean products				
12.10.1	Fermented soybeans (e.g., natto)				
12.10.2	Fermented soybean curd (soybean cheese)	1	7	14	
12.10.3	Fermented soybean paste (e.g., miso)				
12.10.4	Fermented soy sauce				
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)				
13.4	Dietetic formulae for slimming purposes and weight reduction				
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1-13.4 and 13.6				
13.6	Food supplements				
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1	7	14	
14.1.4.1	Carbonated water-based flavoured drinks	1	7	14	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	1	7	14	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	4	36	72	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1	7	14	
14.2.1	Beer and malt beverages				
14.2.2	Cider and perry	1	1	4	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine				
14.2.4	Wines (other than grape)	1	1	4	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol				
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low-alcoholic refreshers)	1	1	4	
15.0	Ready-to-eat savouries	5	11	22	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	0.5	6	22	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g.,	0.5	6	22	

	dried fruit)				
15.3	Snacks - fish based	5	11	22	
16.0	Composite foods - foods that could not be placed in categories 01 - 15				

Notes:

* Use levels are expressed as mg/kg or mg/l (ppm) of total carotenoids, with all extracts standardised to 100,000 colour units (= 7.2% total carotenoids)

** For each food category, the Low is the minimum of all submitted Low values; the Typical is the average of all submitted Typical values; the Max is the maximum of all submitted Max values. Empty cells indicate no data for the category were submitted.

*** Data <0.5 mg/kg or mg/l are shown as 0.5; data >0.5 mg/kg or mg/l are rounded to 1 mg/kg or mg/l; all other values are rounded to the closest integer.

NATURAL FOOD COLOURS ASSOCIATION (NATCOL)

NATCOL appreciates the opportunity to provide comments and proposals for use and use levels for Paprika Extract (INS 160c (i)), para 29 for inclusion in Table 1 and 2 of the GSFA as per CL 2015/09-FA. NATCOL - Natural Food Colour Association - is an international body acting on behalf of the natural food colour industry. NATCOL offers expertise on natural colours regarding their properties, use, and regulatory status. NATCOL is a non-profit organisation.

In particular, NATCOL wishes to comment on the error in CL 2015/9-FA and highlight that Paprika Extracts are denoted by INS 160c(ii) and not INS 160c(i) as specified. Consequently, please note that NATCOL supplies data for Paprika Extract INS 160c (ii) and not INS 160c (i).

General Comments:

NATCOL fully endorses the drafting of proposals for Food Additive Provisions for Paprika Extracts in Table 1 and 2 of the General Standard for Food Additives (GSFA). With respect to proposals and information on maximum levels and technological needs for **Paprika Extracts**, we recognise the importance of this work as this is closely related to the allocated JECFA ADI for Paprika Extract (79th JECFA June 2014). NATCOL would like to offer our expertise on natural colours regarding their technological justification of current use as well as future opportunities and developments.

The technological justification for the use of a colour additive in a food category (i.e. adding colour to a foodstuff or restoring the colour of a foodstuff, without misleading the consumer) is related to the appeal of the foodstuffs within this category. If, addition of colour to a food category is found acceptable, the choice of colour additive and its dosage is dependent on several factors such as: colour shade needed, the colour of the foodstuff in itself, physical state of the foodstuff, carriers and solvents of the colour additive.

Specific Comments on Provisions for Paprika Extracts:

NATCOL data covers the European Union, other non-EU European countries including Turkey, the Middle East, Australia, New Zealand, parts of South America and the USA. Paprika extract use levels are reported in mg/kg or mg/l expressed as total carotenoids (using the conversion factor of 100,000 colour units = 7.2% total carotenoids).

The concentration values relate to food colour use only and do not include use of paprika or paprika extracts or oleoresins as flavours or ingredients. Data are provided for low, typical and maximum usage corresponding to different colour shades. Low usage corresponds to pale colour shades. Typical use levels correspond to the majority of applications that fall into the mid-range of colour shades. Maximum use levels correspond to deep red colours that would rarely be required.

NATCOL will now attempt to clarify these remarks with respect to the data submitted.

Food Categories with high use levels and deep red colouration:

Specifically, there are a number of food categories within the GSFA that in themselves are not final food products eaten by the consumer and either they are reconstituted or form in addition with other components a more complex food category. While NATCOL gives the actual use levels of Paprika extract reported in mg/kg or mg/l expressed as total carotenoids, in the manufacture of for these categories, suitable dilution factors and / or reconstitution factors may need to be taken into account in the calculation of the exposure.

NATCOL - GSFA paprika extract use levels

GSFA use levels
mg/kg or mg/l

GSFA Categories in which the use of one or more colors is justified		Paprika INS160c(ii) Use Levels*			
FCS No.	Title	Low	Typical	Max	Notes
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	1	5	30	
01.3.2	Beverage whiteners	3	14	35	
01.4.4	Cream analogues	3	14	35	
01.5.2	Milk and cream powder analogues	3	14	35	
01.6.1	Unripened cheese	3	13	30	
01.6.2	Ripened cheese	3	13	30	
01.6.2.1	Ripened cheese, includes rind	3	13	30	
01.6.2.2	Rind of ripened cheese	3	13	30	
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	3	20	50	
01.6.4	Processed cheese	1	10	65	
01.6.4.1	Plain processed cheese	2	5	20	
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	4	35	100	
01.6.5	Cheese analogues	2	5	20	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	2	12	35	
02.1.3	Lard, tallow, fish oil, and other animal fats				
02.2.1	Emulsions containing at least 80% fat				
02.2.1.1	Butter and concentrated butter				
02.2.1.2	Margarine and similar products				
02.2.1.3	Blends of butter and margarine				
02.2.2	Emulsions containing less than 80% fat				
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions				
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1	11	50	
03.0	Edible ices, including sherbet and sorbet	1	16	50	
04.1.1.2	Surface-treated fresh fruit				
04.1.2.2	Dried fruit	2	7	45	
04.1.2.3	Fruit in vinegar, oil, or brine	2	7	45	
04.1.2.4	Canned or bottled (pasteurized) fruit	2	7	45	
04.1.2.5	Jams, jellies, marmelades	2	7	50	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	2	7	50	
04.1.2.7	Candied fruit	2	10	50	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	2	10	50	
04.1.2.9	Fruit-based desserts, incl. fruit-flavoured water-based desserts	1	11	50	
04.1.2.10	Fermented fruit products	2	7	45	
04.1.2.11	Fruit fillings for pastries	2	7	45	
04.1.2.12	Cooked fruit				
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and				

	seeds				
04.2.2.2	Dried vegetables, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	2	7	45	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soy sauce	2	7	45	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2	7	45	
04.2.2.5	Vegetable, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	2	7	50	
04.2.2.6	Vegetable, (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	2	10	50	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food category 12.10	2	7	45	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2	7	45	
05.1.2	Cocoa mixes (syrops)	5	40	92	
05.1.3	Cocoa-based spreads, incl. fillings	5	40	92	
05.1.4	Cocoa and chocolate products	5	40	92	
05.1.5	Imitation chocolate, chocolate substitute products	5	40	92	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3, and 05.4	1.4	40	92	
05.2.1	Hard candy	1.4	40	92	
05.2.2	Soft candy	1.4	40	92	
05.2.3	Nougats and marzipans	1.4	40	92	
05.3	Chewing gum	4	18	60	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit), and sweet sauces	5	48	265	
06.3	Breakfast cereals, including rolled oats	20	60	100	
06.4.3	Pre-cooked pastas and noodles and like products	1.2	50	100	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	1	14	50	
06.6	Batters (e.g., for breading or batters for fish or poultry)	5	40	100	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)				
06.8	Soybean products (excluding soybean products of food category 12.9 and fermented soybean products of food				

	category 12.10)				
07.1.2	Crackers, excluding sweet crackers	2	39	90	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	5	40	100	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	2	39	90	
07.2.1	Cakes, cookies and pies (e.g., fruit-filled or custard types)	2	39	90	
07.2.2	Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)	2	39	90	
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	2	39	90	
08.1	Fresh meat, poultry and game				
08.1.1	Fresh meat, poultry and game, whole pieces or cuts				
08.1.2	Fresh meat, poultry and game, comminuted				
08.2	Processed meat, poultry, and game products in whole pieces or cuts				
08.2.1	Non-heat treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.1.1	Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.1.3	Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts				
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts				
08.3	Processed comminuted meat, poultry, and game products				
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	5	10	10	
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products				
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products				
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products				
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	5	10	10	
08.3.3	Frozen processed comminuted meat, poultry, and game products				
08.4	Edible casings (e.g., sausage casings)	5	39	90	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms				
09.1.1	Fresh fish				
09.1.2	Fresh mollusks, crustaceans and echinoderms				
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms				

09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms				
09.2.2	Frozen battered fish, fish fillets and fish products, including mollusks, crustaceans, and echinoderms	5	40	100	paprika in the batter, maybe already covered by 6.6
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms				
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms				
09.2.4.1	Cooked fish and fish products				
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	16	20	30	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms				
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	16	20	30	
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms				
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly				
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine				
09.3.3	Salmon substitutes, caviar, and other fish roe products	10	50	150	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	16	20	30	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms				
10.1	Fresh eggs				
10.2	Egg products				
10.2.1	Liquid egg products				
10.2.2	Frozen egg products				
10.2.3	Dried and/or heat coagulated egg products				
10.3	Preserved eggs, including alkaline, salted, and canned eggs				
10.4	Egg-based desserts (e.g., custard)	1	11	50	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3				
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)				
12.2.2	Seasonings and condiments	1.75	30	350	
12.3	Vinegars				
12.4	Mustards	3	15	40	
12.5	Soups and broths	1.4	30	84	
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	1.4	30	84	
12.5.2	Mixes for soups and broths	1.4	30	84	

12.6	Sauces and like products	5	12	150	
12.6.1	Emulsified sauces (e.g., mayonnaise, salad dressing)	1.4	30	84	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	1.4	30	84	
12.6.3	Mixes for sauces and gravies	1.4	30	84	
12.6.4	Clear sauces (e.g., fish sauce)	1.4	30	84	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa-and nut-based spreads of food categories 04.2.2.5 and 05.1.3	5	17	50	
12.9	Protein products	4	4	4	
12.9.1	Soybean protein products	4	4	4	
12.9.1.1	Soybean beverage	1	5	30	
12.9.1.2	Soybean milk film	4	4	4	
12.9.1.3	Other soybean protein products (including non-fermented soy sauce)	4	4	4	
12.9.2	Fresh bean curd (tofu)				
12.9.3	Semi-dehydrated bean curd				
12.9.3.1	Thick gravy-stewed semi-dehydrated bean curd				
12.9.3.2	Deep fried semi-dehydrated bean curd				
12.9.3.3	Semi-dehydrated bean curd, other than food categories 12.9.3.1 and 12.9.3.2				
12.9.4	Dehydrated bean curd (kori tofu)				
12.9.5	Other protein products	4	4	4	
12.10	Fermented soybean products				
12.10.1	Fermented soybeans (e.g., natto)				
12.10.2	Fermented soybean curd (soybean cheese)				
12.10.3	Fermented soybean paste (e.g., miso)				
12.10.4	Fermented soy sauce				
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)				
13.4	Dietetic formulae for slimming purposes and weight reduction				
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1- 13.4 and 13.6				
13.6	Food supplements				
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1	5	30	
14.1.4.1	Carbonated water-based flavoured drinks	1	5	30	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	1	5	30	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	1	5	30	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa				
14.2.1	Beer and malt beverages				
14.2.2	Cider and perry	1.3	2	10	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine				
14.2.4	Wines (other than grape)	1	5	10	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol				

14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low-alcoholic refreshers)	1	5	10	
15.0	Ready-to-eat savouries	2	33	100	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	2	33	100	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	2	33	100	
15.3	Snacks - fish based	2	33	100	
16.0	Composite foods - foods that could not be placed in categories 01 - 15				

[1] Note 4 For decoration, stamping, marking or branding the product.

[2] Note 16 For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.

[3] Note 95 For use in surimi and fish roe products only

[4] Note X For use in surimi only.

* mg/kg or mg/l, expressed as total carotenoids using the conversion factor of 100,000 colour units = 7.2% total carotenoids