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FOOD SAFETY ISSUES

GEMS/FOOD REGIONAL DIETS

**Regional per Capita Consumption
Of Raw and Semi-processed Agricultural Commodities**

**Prepared by the Global Environment Monitoring
System/Food Contamination Monitoring and Assessment
Programme (GEMS/Food)**



**Food Safety Department
World Health Organization**

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PREFACE

Background to GEMS/Food Diets

Since 1976, the World Health Organization has implemented the Global Environment Monitoring System/Food Contamination Monitoring and Assessment Programme (GEMS/Food) to assess the levels and trends of potentially hazardous chemicals in food and their significance for human health and trade. As part of this dietary exposure assessment mandate, GEMS/Food has developed five regional diets which are currently used for predicting dietary intake of pesticide residues according to internationally accepted methodologies¹. These diets were based on diets developed by WHO to predict dietary exposure to radionuclide contamination in food following the Chernobyl accident². The GEMS/Food Regional Diets are now used by the Joint FAO/WHO Meeting on Pesticide Residues (JMPR) and the Joint FAO/WHO Expert Committee on Food Additives (JECFA) to estimate dietary exposure to pesticide residues and contaminants in food, respectively. Note that these diets should not be used for the assessment of risks posed by hazards which cause acute effects as these diets greatly underestimate short-term high percentile intakes, in particular for foods consumed only occasionally. See the GEMS/Food Web site for further details on acute hazard exposure assessment (http://www.who.int/foodsafety/chem/acute_data/en/). Since the first GEMS/Food Regional Diets were issued in 1989, this first revision incorporates a number of comments and suggested improvements received over the past few years. In general, the changes correct small computational errors and provide clarifications concerning the food codes used. Consequently, these revisions are not believed to significantly alter previous exposure assessments.

Derivation of GEMS/Food Diets

For chronic hazards, several indices of food consumption are available. A commonly used index is average daily consumption; others include average portion sizes, percentile consumption values, average consumption of people who actually eat the commodity and consumption by population groups at risks, for example, children. In predicting chronic exposure, long-term food consumption habits and not day-to-day variations should be used for intake to permit valid comparison with the ADI, which is based on intake over a lifetime. Thus, average daily food consumption values are used in predicting exposure to pesticide residues and contaminants for assessing long-term risks at the international level.

Food consumption patterns vary considerably from country to country and even within a country; thus, to a large extent, individual countries must estimate their own

¹ *Guidelines for Predicting Dietary Intake of Pesticide Residues*, GEMS/Food in collaboration with the Codex Committee on Pesticide Residues, Document WHO/FSF/FOS/97.7, World Health Organization, Geneva, 1997.

² *Derived Intervention Levels for Radionuclides in Food*, World Health Organization, Geneva, 1988.

consumption pattern (s). Consequently, GEMS/Food Regional Diets are based on based on Food Balance Sheet (FBS) data compiled by the Food and Agriculture Organization of the United Nations (FAO). FBS sheets provide statistics on a country's annual food production, imports and, and exports and are accessible through the FAO Web site (<http://www.fao.org>). The GEMS/Food Regional Diets are derived from FBS data from selected countries to represent five regional dietary patterns, namely Middle Eastern, Far Eastern, African, Latin American, and European. Note that the European diet includes countries with European-type diets, such as Australia, Canada and the USA. Although food consumption data derived from such food balance sheets are subject to many uncertainties and limitations, they represent the best available source of data for international comparison and are adequate for predicting pesticide residue intake, given the inherent uncertainties in the residue estimates and ADIs³.

Notes on Using the GEMS/Food Diets

Because waste at the household or individual level is not taken into account, FBS data tend to slightly overestimate consumption. Based on detailed national surveys, average food consumption estimates based on FBS data are about 15% higher than actual average food consumption in the worst cases, e.g. certain fruits and other highly perishable products. Nonetheless, in assessing intakes of potentially harmful chemicals, such overestimates err on the side of safety and thus a protective of public health. Further refinements of consumption data should be performed at the national level, in particular to identify and protect population subgroups, such as children, which are know to have quantitative and qualitative differences in their consumption patterns.

It should also be noted that intake values are given for the whole raw agricultural commodity. When information on residues in edible portions are available, commodity weights may be adjusted to reflect the amount of edible portion consumed. For example, a 30% reduction factor is used for the peeling of citrus and banana. In some cases, values are given for semi-processed and processed commodities, particularly when the commodities are always processed before consumption.

If data from food balance sheets are not available for a commodity, the consumption level for a similar food is used. If data on a similar food is unavailable, a default value of 0.1 grams per day may be assigned which is the lowest quantified value in the current GEMS/Food diets.

For fat soluble contaminants, intake may be estimated based on the consumption values for meat by assuming that mammalian meat contains 20% fat and poultry meat (with adhering skin) contains 10% fat. In cases when residues in milk are expressed on a fat basis, whole milk is assumed to contain 4% fat.

Finally, note that total values for consumption of food groups, e.g. cereals, listed in the table have taken into account duplicate entries. Therefore, the totals given for some food groups may not represent the sum total of all values listed.

³ *Recommendations for the revision of the guidelines for predicting dietary intake of pesticide residues*, Document WHO/FNU/FOS/95.11, World Health Organization, Geneva, 1995.

Identification of Commodities in the GEMS/Food Diets

The Codex Classification for Foods and Animal Feeds is used to identify commodities. This has been done to facilitate the use of the diets by the Codex Committee on Pesticide Residues and the JMPR. However, it should be noted that FBS data are collected by FAO using FAO definitions, which at times do not coincide with the Codex system. For example, there are two separate Codex codes for cucumber and gherkin, while the FBS specifies only a combined production of cucumber and gherkin. This results in the consumption value for cucumber (VC 424) which includes consumption of gherkin. Instances such as this are indicated in the column labelled “NOTES”.

In other cases, duplicate entries appear, which represent the same commodity. This occurs when Maximum Residue Limits for different pesticides are specified for both individual commodities and for the group depending the field trials, that were submitted. For example, entries for pome fruit (FP 4) as well as for apple (FP 226), pear (FP 230) and quince (FP 231) appear in the table. For dietary intake calculations, the consumption value for either pome fruit or the individual fruit would be used depending on how the MRL was specified.

In many cases of processed and semi-processed products, Codex has not yet established a unique code. For these products, temporary assignments have been made to identify the product, which uses the most relevant Codex code followed by two lower case letters. For example, the code for roasted coffee is SB 716ro in which SB 716 is the code for coffee. Codex is considering the expansion of the Codex Classification for Foods and Animal Feeds to include such foods in the future.

Future of GEMS/Food Diets

Following the recommendation of an FAO/WHO Consultation on Food Consumption and Exposure Assessment of Chemicals⁴, GEMS/Food conducted a statistical analysis of FBS data from all reporting countries in order to more accurately cluster the various food consumption patterns around the world. This analysis resulted in 13 proposed GEMS/Food Consumption Cluster Diets, which were presented to Codex Committee on Pesticide Residues and shared with member countries. The Committee welcomed the new diets and awaited the full development of the diets to decide on their suitability for dietary intake purposes at the international level. Until such time as these have been adopted, however, the present GEMS/Food Regional Diets should be used for

⁴ *Food Consumption and Exposure Assessment of Chemicals*, Report of a Joint FAO/WHO Consultation, 10-14 February 1997, Geneva, Document WHO/FSF/FOS/97.5, World Health Organization, Geneva, 1997.

predicting dietary intake of pesticide residues, contaminants and other appropriate chemicals present in raw and semi-processed agricultural commodities⁵.

⁵ For further information, please contact the GEMS/Food Coordinator, Food Safety Department, World Health Organization, 1211 Geneva 27, Switzerland. Facsimile: +41 22 791 4807

GEMS/Food Regional Diets

(in grams per person per day)

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
CEREALS								
GC 640		BARLEY		1.0	3.5	1.8	6.5	19.8
GC 641		BUCKWHEAT		0.0	1.0	0.0	0.0	0.0
GC 645		MAIZE		48.3	31.2	106.2	41.8	8.8
	(1)	MAIZE		16.5	0.0	0.0	1.5	0.0
CF 1255	(1)	MAIZE FLOUR		31.8	31.2	106.2	40.3	8.8
VO 1275		SWEET CORN (KERNELS)		0.0	0.0	3.3	0.0	6.2
VO 447		SWEET CORN (CORN-ON-THE-COB)		0.0	0.0	4.4	0.0	8.3
GC 656		POP CORN		0.2	0.2	0.2	0.2	0.2
CF 646		MILLET FLOUR		2.5	9.3	51.8	0.0	0.0
GC 647		OATS		0.0	0.0	0.2	0.8	2.0
GC 649		RICE		48.8	279.3	103.4	86.5	11.8
CM 649		RICE HUSKED		0.0	1.8	34.7	21.0	2.5
CM 1205		RICE, POLISHED		48.8	277.5	68.8	65.5	9.3
CM 1205fl	(2)	RICE FLOUR		0.0	6.8	0.0	0.0	0.0
	(2)	RICE MILLED PADDY		48.8	270.7	68.8	65.5	9.3
GC 650		RYE		0.0	1.0	0.0	0.0	1.5
CF 1251		RYE WHOLEMEAL		0.0	1.0	0.0	0.0	1.5
CF 1250	(3)	RYE FLOUR		0.0	1.0	0.0	0.0	1.5
CM 650		RYE BRAN UNPROCESSED		0.0	0.0	0.0	0.0	0.0
GC 651		SORGHUM FLOUR		2.0	9.7	26.6	0.0	0.0
GC 653		TRITICALE FLOUR		0.0	1.0	0.0	0.0	0.0
GC 654		WHEAT		327.3	114.8	28.3	116.8	178.0
CF 1210		WHEAT GERM		0.1	0.1	0.0	0.1	0.1
CF 1211bu	(4)	WHEAT BULGUR WHOLEMEAL		0.3	0.0	0.0	0.0	0.0

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
CF 1211		WHEAT FLOUR		323.0	114.0	28.3	112.0	175.8
CF 1211ma	(4)	WHEAT MACARONI		1.0	0.3	0.0	2.8	1.3
CF 1211pa	(4)	WHEAT PASTRY		3.0	0.5	0.0	2.0	1.0
CP 1211	(5)	WHITE BREAD		215.3	76.0	18.9	37.3	117.2
CP 1212br	(5)	WHOLEMEAL BREAD		107.7	38.0	9.4	74.7	58.6
		CEREAL PREPARATIONS NES		0.8	1.3	0.0	0.0	4.3
GC 80		TOTAL CEREALS		429.9	450.6	291.7	254.4	221.9

NOTE 1: MAIZE (GC 645) = MAIZE + MAIZE FLOUR (CF 1255)

NOTE 2: RICE POLISHED (CM 1205) = RICE FLOUR + RICE MILLED PADDY

NOTE 3: RYE (GC 650) AND RYE WHOLEMEAL (CF1251) HAVE SAME DIET VALUES IF USED SEPARATELY

NOTE 4: WHEAT (GC 654) = BULGUR WHOLEMEAL (CF 1211bu) + FLOUR (CF 1211) + MACARONI (CF 1211ma) + PASTRY (CF 1211pa)

NOTE 5: WHEAT FLOUR (CF 1211) = WHITE BREAD (CP1211) + WHOLEMEAL BREAD (CP 1212br)

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
ROOTS AND TUBERS								
VR 463		CASSAVA		0.0	6.5	165.5	44.8	0.0
	(1)	CASSAVA		0.0	2.8	154.5	37.8	0.0
VR 463fl	(1)	CASSAVA FLOUR		0.0	3.7	11.0	7.0	0.0
VR 589		POTATOES		59.0	19.2	20.6	40.8	240.8
VR 508		POTATOES SWEET		1.5	81.3	14.3	13.8	1.3
VR 505		TARO(COCO YAM)		1.3	1.5	31.3	0.0	0.0
VR 600		YAMS		0.0	0.0	89.5	46.0	0.0
		ROOTS AND TUBERS NES		0.0	0.0	0.0	14.0	0.0
VR 75		TOTAL ROOT AND TUBERS		61.8	108.5	321.3	159.3	242.0

NOTE 1: THIS DISTRIBUTION IS USED IF BOTH CASSAVA (VR 463) AND CASSAVA FLOUR (VR 463fl) ARE SPECIFIED
NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
PULSES								
VD 71	(1)	BEANS DRY		6.8	6.8	0.0	13.5	4.3
VD 523		BEANS BROAD DRY		4.5	2.0	0.0	0.5	0.8
VP 62		BEANS SHELLED		0.1	0.1	0.1	0.1	0.1
VP 61		BEANS EX. BROAD AND SOYA BEANS		3.9	0.9	0.0	4.4	13.2
VD 526		COMMON BEAN, DRY		0.1	0.1	0.1	0.1	0.1
VD 534		LIMA BEAN (DRY)		4.5	2.0	0.0	0.5	0.8
VD 533		LENTILS		2.8	0.7	0.0	0.0	2.3
VP 545		LUPINES		0.5	0.0	0.0	0.0	0.0
VD 561		FIELD PEA (DRY)		0.5	1.7	5.1	1.3	1.8
VD 72		PEAS DRY		0.5	1.7	5.1	1.3	1.8
VD 524		PEAS CHICK		3.3	2.5	0.0	0.0	1.0
VD 527		PEAS COW DRY		0.0	0.0	5.1	0.3	0.0
VP 537		PEAS PIGEON		0.0	1.3	0.0	0.5	0.0
VD 541		SOYBEANS		4.5	2.0	0.5	0.0	0.0
VP 541		SOYA BEAN (IMMATURE SEEDS)		0.1	0.1	0.1	0.0	0.0
		SOYA SAUCE		1.5	11.0	0.0	0.0	0.0
		PULSES NES		1.0	0.8	11.9	5.5	0.0
VD 70		TOTAL PULSES		21.2	14.5	17.6	20.6	9.4

NOTE 1: BEANS DRY (VD 71) INCLUDES BEANS BROAD DRY (VD 523)

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
		SUGARS AND HONEY						
VR 596		SUGAR BEET		0.5	0.0	0.0	0.3	2.0
GS 659		SUGAR CANE		18.5	7.3	15.9	3.5	0.0
GS 659re		SUGAR REFINED		73.0	43.0	25.5	97.3	96.8
		SUGAR CONFECTIONERY		1.0	0.0	0.4	1.3	0.5
		SUGAR AND SYRUPS NES		1.3	0.2	0.3	1.8	0.5
		GLUCOSE AND DEXTROSE		0.8	0.0	0.0	0.0	6.3
		HONEY		0.8	0.0	0.5	0.3	1.3
		TOTAL SUGARS AND HONEY		95.8	50.5	42.7	104.3	107.3

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
NUTS AND OILSEEDS (1)								
TN 660		ALMONDS SHELLED		0.5	0.0	0.0	0.1	1.8
TN 295		CASHEW NUTS		0.0	0.0	0.2	0.0	0.0
TN 664		CHESTNUTS		0.0	0.0	0.0	0.1	0.7
TN 665		COCONUTS		0.3	13.5	3.3	17.5	0.5
SO 691		COTTON SEED		0.0	0.0	0.0	0.0	0.0
SO 703		GROUNDNUTS IN SHELL		0.0	4.0	5.5	1.3	0.3
SO 697		GROUNDNUTS SHELLED		0.3	0.2	2.3	0.3	3.0
TN 666		HAZELNUTS		0.0	0.0	0.0	0.1	0.3
SO 701		KARITE NUTS(SHEANUTS)		0.0	0.0	0.2	0.0	0.0
SB 717		KOLANUTS		0.0	0.0	0.8	0.0	0.0
SO 693		LINSEED		0.0	0.0	0.0	0.0	0.0
SO 46		MELONSEED (EXCEPT WATERMELON)		0.8	0.0	0.8	0.0	0.0
SO 90		MUSTARD FL SEED OR FLOUR		0.0	0.0	0.0	0.0	0.8
TN 1900		NUTS (WHOLE IN SHELL)		4.3	17.7	14.8	19.9	11.8
SO 88		OILSEED		5.4	1.4	5.4	0.8	6.1
SO 89		OILSEED (EXCEPT GROUNDNUTS)		5.1	1.2	3.1	0.5	3.1
FT 305		OLIVES PRESERVED		1.3	0.0	0.0	0.3	2.8
SO 696		PALM KERNELS		0.0	0.0	0.2	0.0	0.0
TN 672		PECAN NUTS		0.0	0.0	0.0	0.0	0.3
SO 698		POPPY SEED		2.3	1.2	0.5	0.5	2.3
TN 675		PISTACHIOS		0.3	0.0	0.0	0.0	0.0
SO 495		RAPE SEED		0.0	0.0	0.0	0.0	0.0
SO 699		SAFFLOWER SEED		0.0	0.0	0.2	0.0	0.0
SO 700		SESAME SEED		1.0	0.0	0.6	0.0	0.0
SO 702		SUNFLOWER SEED		1.0	0.0	0.6	0.0	0.0
TN 85		TREE NUTS		1.1	13.5	4.5	17.8	4.6
TN 678		WALNUTS SHELLED		0.0	0.0	0.0	0.0	0.5
		NUTS PREPARED (EXCEPT GROUNDNUTS)		0.0	0.0	0.0	0.0	0.8
		NUTS NES		0.0	0.0	1.0	0.0	0.5
TOTAL NUTS AND OILSEEDS				12.8	50.0	34.2	57.5	29.9

NOTE 1: CONSUMPTION VALUES ARE FOR NUTS AND OILSEEDS CONSUMED AS SUCH
NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
VEGETABLE OILS AND FATS								
OC 305		OIL OF OLIVES, VIRGIN		1.5	0.0	0.0	0.0	7.8
OR 665		OIL OF COCONUTS		0.8	1.8	0.4	2.3	0.0
OR 691		OIL OF COTTON SEED		3.8	0.5	0.5	0.5	0.0
OR 697		OIL OF GROUNDNUTS		0.0	1.8	3.5	0.5	1.8
OR 693		OIL OF LINSEED		3.8	0.5	0.5	0.5	0.0
OR 645		OIL OF MAIZE		1.8	0.0	0.3	0.5	1.3
OR 305		OIL OF OLIVES, RESIDUE OIL		1.5	0.0	0.0	0.0	7.8
OR 696		OIL OF PALM KERNELS		7.8	4.3	12.4	0.0	0.0
OR 495		OIL OF RAPESEED EDIBLE		4.5	2.7	0.0	0.3	7.3
OR 700		OIL OF SESAME SEED		2.3	0.2	0.9	1.0	0.0
OR 541		OIL OF SOYA BEANS		1.3	1.7	3.0	14.5	4.3
OR 702		OIL OF SUNFLOWER SEED		9.3	0.5	0.3	0.8	8.5
OR 172		OIL OF VEGET ORIGIN NES		2.3	0.2	0.9	1.0	0.0
		BUTTER OF KARITE NUTS		0.0	0.0	0.7	0.0	0.0
		MARGARINE + SHORTENING		5.5	1.2	2.3	5.3	17.3
TOTAL VEGETABLE OILS AND FATS				40.7	14.2	23.2	21.9	38.8

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
STIMULANTS								
VR 469		CHICORY ROOT		0.0	0.0	0.0	0.0	1.0
SB 715		COCOA BEANS		0.5	0.0	0.0	1.3	3.1
DM 715		COCOA POWDER AND CAKE		0.5	0.0	0.0	0.3	2.3
DM 1215		COCOA BUTTER		0.0	0.0	0.0	0.5	0.4
DM 1216		COCOA MASS		0.0	0.0	0.0	0.5	0.4
SB 716		COFFEE BEANS		5.3	0.4	0.0	3.6	7.9
	(1)	COFFEE GREEN		4.5	0.0	0.0	2.8	1.3
	(1)	COFFEE EXTRACTS		0.3	0.2	0.0	0.0	0.8
SB 716ro	(1)	COFFEE ROASTED		0.5	0.2	0.0	0.8	5.8
HS 784		GINGER ROOT		0.1	0.1	0.1	0.1	0.1
DT 171	(2)	TEA		2.3	1.2	0.5	0.5	2.3
TOTAL STIMULANTS				8.2	1.7	0.6	5.5	14.4

NOTE 1: COFFEE BEANS (SB 716) = EXTRACTS + GREEN + ROASTED (SB 716ro)

NOTE 2: CONSUMPTION VALUES MAY ALSO BE USED FOR TEA, GREEN, BLACK (DT 1114)

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
SPICES								
DH 1100		HOPS, DRY		0.1	0.1	0.1	0.1	0.1
VL 4345	(1)	FENNEL ANISE BADIAN		0.3	0.2	0.0	0.0	0.0
HS 788	(2)	NUTMEG MACE CARDAMON		0.3	0.0	0.0	0.0	0.0
HH 740		PARSLEY		0.1	0.1	0.1	0.1	0.1
HS 790		PEPPER WHITE/LONG/BLACK		0.3	0.0	0.0	0.0	0.0
HS 4769	(3)	ALLSPICE PIMENTO		1.0	1.2	1.6	0.0	0.3
		SPICES NES		0.5	1.5	0.0	0.3	0.0
HS 93		TOTAL SPICES		2.6	3.1	1.8	0.5	0.5

NOTE 1: FENNEL (VL 4345) INCLUDES ANISE (HS 771) AND BADIAN TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION

NOTE 2: NUTMEG (HS 788) INCLUDES MACE (HS 788) AND CARDAMON (HS 775) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION

NOTE 3: ALLSPICE (HS 4769) INCLUDES PIMENTO (VO 4303) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
VEGETABLES								
VS 620		ARTICHOKES		2.3	0.0	0.0	0.0	5.5
VS 621		ASPARAGUS		0.0	0.0	0.0	0.0	1.5
VP 526		BEANS GREEN (COMMON)		3.5	0.8	0.0	4.0	12.0
VR 574		BEETROOT		0.5	0.0	0.0	0.3	2.0
VB 40	(1)	BRASSICA VEGETABLES		6.3	11.2	0.0	10.8	39.8
VP 522		BROAD BEAN (GREEN PODS)		0.4	0.1	0.0	0.4	1.2
VB 400		BROCCOLI		0.5	1.0	0.0	1.1	2.7
VB 402		BRUSSELS SPROUTS		0.5	1.0	0.0	1.1	2.7
VA 35		BULB VEGETABLES		25.6	13.9	7.5	14.4	32.9
VB 41	(2)	CABBAGES		5.0	9.7	0.0	10.5	26.8
VB 403		CABBAGE, SAVOY		0.1	0.1	0.1	0.1	0.1
VR 577		CARROTS		2.8	2.5	0.0	6.3	22.0
VB 404	(3)	CAULIFLOWER		1.3	1.5	0.0	0.3	13.0
VS 624		CELERY		0.5	0.0	0.0	0.3	2.0
HH 624		CELERY LEAVES		0.5	0.0	0.0	0.3	2.0
VL 464		CHARD		0.1	0.1	0.1	0.1	0.1
VL 469		CHICORY LEAVES		0.1	0.1	0.1	0.1	0.1
VL 466		CHINESE CABBAGE		0.1	0.1	0.1	0.1	0.1
GC 4613	(4)	CORN GREEN (MAIZE)		0.0	0.0	4.4	0.0	8.3
VL 510		COS LETTUCE		0.1	0.1	0.1	0.1	0.1
VC 424	(5)	CUCUMBERS AND GHERKINS		4.8	4.5	0.0	8.3	9.0
VO 440		EGGPLANTS		6.3	3.0	0.7	6.0	2.3
VL 476		ENDIVE		0.5	0.0	0.0	0.3	2.0
VC 45		FRUITING VEGET. CUCURBITS		80.5	18.2	0.0	30.5	38.5
VO 50		FRUITING VEGET. NON-CUCURBITS		92.3	12.6	27.0	33.9	94.9
VP 529		GARDEN PEA (SHELLED)		4.0	0.5	0.0	0.2	10.1
VP 528		GARDEN PEA (YOUNG PODS)		5.5	0.7	0.0	0.3	14.0
VA 381		GARLIC		2.0	2.2	0.0	0.5	3.0
VC 425	(5)	GHERKIN		2.4	2.3	0.0	4.1	4.5
VR 583		HORSERADISH		0.5	0.7	0.0	0.3	0.0
VL 480		KALE		0.5	0.0	0.0	0.3	2.0
VB 405		KOHLRABI		0.1	0.1	0.1	0.1	0.1
VL 53		LEAFY VEGETABLES		7.8	9.7	0.7	16.5	51.7
VA 384		LEEK		0.5	0.0	0.0	0.3	2.0
VP 60		LEGUME VEGETABLES		9.9	3.1	0.1	5.6	28.4
VL 482		LETTUCE		2.3	0.0	0.0	5.8	22.5
VL 483		LETTUCE, LEAF		2.3	0.0	0.0	5.8	22.5

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
VP 534		LIMA BEAN (YOUNG PODS & IMM. BEANS)		0.4	0.1	0.0	0.4	1.2
VC 46		MELONS (EXCEPT WATERMELON)		16.0	2.0	0.0	2.8	18.3
VO 450		MUSHROOMS		0.3	0.5	0.0	0.0	4.0
VL 485		MUSTARD GREENS		0.1	0.1	0.1	0.1	0.1
VO 442		OKRA		0.8	0.0	0.0	0.0	0.0
VA 385		ONION, BULB		23.0	11.5	7.3	13.8	27.8
VA 385dr		ONIONS DRY		23.0	9.5	5.8	9.8	26.8
VA 388		ONIONS AND SHALLOTS GREEN		0.0	2.0	1.5	4.0	1.0
VR 588		PARSNIP		0.5	0.0	0.0	0.3	2.0
VP 63		PEAS GREEN		5.5	2.0	0.0	0.8	14.0
VP 64		PEAS, SHELLED		4.0	0.5	0.0	0.2	10.1
VO 51		PEPPERS		3.4	2.1	5.4	2.4	10.4
VO 444		PEPPERS, CHILI		0.1	0.1	0.1	0.1	0.1
VO 445		PEPPERS, SWEET		3.3	2.0	5.3	2.3	10.3
VR 494		RADISH		0.5	0.0	0.0	0.3	2.0
VR 591		RADISH, JAPANESE		0.1	0.1	0.1	0.1	0.1
VS 627		RHUBARB		0.5	0.0	0.0	0.3	2.0
VL 502		SPINACH		0.5	0.0	0.0	0.3	2.0
VA 389		SPRING ONION		0.0	2.0	1.5	4.0	1.0
VC 431		SQUASH, SUMMER		10.5	2.2	0.0	14.0	3.5
VC 429		SQUASH PUMPKINS GOURDS		10.5	2.2	0.0	14.0	3.5
VR 497		SWEDE		0.5	0.0	0.0	0.3	2.0
VO 448		TOMATO		81.5	7.0	16.5	25.5	66.6
VO 448fr	(6)	TOMATOES FRESH		44.1	5.7	14.6	25.5	34.9
JF 448	(6)	TOMATO JUICE SINGLE-STRENGTH		0.3	0.0	0.0	0.0	2.0
VO 448pa	(6)	TOMATO PASTE		5.8	0.2	0.3	0.0	4.0
VO 448pe	(6)	TOMATOES PEELED		0.0	0.0	0.0	0.0	4.0
VL 506		TURNIP, GREENS		0.1	0.1	0.1	0.1	0.1
VR 506		TURNIP		0.5	0.0	0.0	0.3	2.0
VL 473		WATERCRESS		0.1	0.1	0.1	0.1	0.1
VC 433		WINTERSQUASH		1.5	0.3	0.0	2.0	0.5
VS 469		WITLOOF CHICORY (SPROUTS)		0.5	0.0	0.0	0.3	2.0
		VEGETABLES CANNED NES		0.0	0.8	0.0	0.0	1.3

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
DV 168		VEGETABLES DEHYDRATED		0.5	0.2	0.0	0.0	0.5
		VEGETABLES FRESH NES		31.5	117.5	38.8	18.8	39.3
		VEGETABLES FROZEN		0.3	0.0	0.0	1.5	1.3
		VEGETABLES JUICE NES		0.8	0.2	0.0	0.0	0.0
		VEGETABLES PR BY VINEGAR		0.5	0.3	0.3	0.0	0.5
		VEGETABLES PREPARED NES		4.5	0.7	0.4	6.8	1.5
		VEGS IN TEMP PRESERVATIVE		0.0	0.2	0.0	0.0	0.5
		TOTAL VEGETABLES		233.0	178.9	77.0	150.4	371.6

NOTE 1: VB 40 BRASSICA VEGETABLES INCLUDES CABBAGES (VB 21) AND CAULIFLOWER (VB 404) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION. ALSO SEE NOTES 2 AND 3.

NOTE 2: VB 41 CABBAGES INCLUDES SAVOY CABBAGE (VB 403), BRUSSEL SPROUTS (VB 402), COLLARDS, KALE (VL 480) AND KOHLRABI (VB 405) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION

NOTE 3: CAULIFLOWER (VB 404) INCLUDES BROCCOLI (VB 402) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION

NOTE 4: SAME AS SWEET CORN (CORN-ON-THE-COB) (VO 447)

NOTE 5: VC 424 CUCUMBER INCLUDES GHERKIN (VC 425) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION. VC 425 GHERKIN CONSUMPTION IS ESTIMATED TO BE ONE HALF OF TOTAL CUCUMBER AND GHERKIN CONSUMPTION

NOTE 6: VO 448 TOMATOES = FRESH (VO 448fr) + JUICE (JF 448) X 1.06 + PASTE (VO 448pa) X 6.4 + PEELED (VO 448pe)

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
FISH AND SEAFOOD								
WS 125		MARINE FISH		11.0	19.1	25.5	38.3	31.3
WF 115		FRESHWATER FISH		1.6	5.8	6.1	1.3	2.6
WC 143		CRUSTACEANS FRESH/FROZEN		0.3	2.3	0.0	1.5	3.0
MD 180		DRIED FISH		0.3	2.8	4.4	4.8	0.8
IM 150		MOLLUSCS INCLUDING CEPHALOPODS		0.0	4.0	0.5	0.8	9.1
		AQUATIC PLANTS DRIED		0.0	0.5	0.0	0.0	0.0
		TOTAL FISH AND SEAFOOD		13.2	31.5	36.5	46.7	46.8

EGGS

PE 840		CHICKEN EGGS		14.5	13.0	3.6	11.8	37.5
		EGGS NES		0.1	0.1	0.1	0.1	0.1
PE 112		TOTAL EGGS		14.6	13.1	3.7	11.9	37.6

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
FRUIT								
FP 226		APPLES		7.5	4.7	0.3	5.5	40.0
FJ 226		APPLE JUICE		4.5	0.0	0.0	0.3	3.8
FS 240		APRICOTS		3.0	0.0	0.0	0.0	3.5
FI 326		AVOCADOS		0.0	0.0	0.2	3.3	1.0
FI 327		BANANAS		8.3	26.2	21.0	102.3	22.8
FB 18		BERRIES & OTHER SMALL FRUIT		16.0	1.0	0.0	1.6	23.5
FB 264		BLACKBERRIES		0.0	0.0	0.0	0.0	0.0
FB 20		BLUEBERRIES		0.0	0.0	0.0	0.0	0.5
FB 4079		BOYSENBERRY		0.0	0.0	0.0	0.0	0.0
VC 4199		CANTALOUPE AND OTHER MELONS		16.0	2.0	0.0	2.8	18.3
FT 292		CASHEWAPPLE		0.0	0.0	0.0	3.0	0.0
FS 13		CHERRIES (INC.SOUR)		0.0	0.0	0.0	0.0	3.0
FS 243	(1)	CHERRIES SOUR		0.0	0.0	0.0	0.0	0.3
FS 244		CHERRIES, SWEET		0.0	0.0	0.0	0.0	2.7
FC 1		CITRUS FRUITS		47.1	6.3	5.1	54.6	44.6
FB 21		CURRANTS		0.0	0.0	0.0	0.0	0.3
FB 278		CURRANT, BLACK		0.0	0.0	0.0	0.0	0.0
FB 279		CURRANT, RED, WHITE		0.0	0.0	0.0	0.0	0.3
FB 265		CRANBERRIES		0.0	0.0	0.0	0.0	0.3
FT 295		DATES		41.8	0.3	0.0	0.0	0.3
FB 266		DEWBERRIES		0.0	0.0	0.0	0.0	0.0
FT 297	(2)	FIGS		2.3	0.0	0.0	0.3	0.5
DF 297	(2)	FIGS DRIED		0.5	0.0	0.0	0.0	0.0
FB 269	(3)	GRAPES		15.8	1.0	0.0	1.3	13.8
DF 269		GRAPES DRIED (RAISINS)		0.3	0.0	0.0	0.3	2.3
		GRAPES & RAISINS		16.1	1.0	0.0	1.6	16.1
DF 269w		WINE		0.5	0.0	0.8	19.8	97.8
FB 268		GOOSEBERRIES		0.0	0.0	0.0	0.0	0.5
FC 203		GRAPEFRUIT		1.5	0.9	0.1	3.3	2.0
FC 5		GRAPEFRUIT AND POMELO		3.0	1.8	0.3	6.5	4.0

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
FI 341		KIWI		0.0	0.0	1.9	0.1	1.5
FC 204		LEMON		1.9	0.2	0.0	5.4	2.4
JF 2		LEMON JUICE SINGLE-STRENGTH		0.0	0.0	0.2	0.0	0.0
FC 2		LEMONS AND LIMES		3.8	0.3	0.0	10.8	4.8
FC 206		MANDARIN		8.6	0.2	0.0	6.3	6.0
FI 345		MANGOES		2.3	5.3	3.4	6.3	0.0
FS 245		NECTARINE		1.3	0.3	0.0	0.4	6.3
FC 4	(4)	ORANGES		31.5	4.0	4.8	31.0	29.8
FC 208		ORANGES SWEET		31.5	4.0	4.8	31.0	29.8
JF 4		ORANGE JUICE CONCENTRATED		7.3	0.0	0.0	0.3	4.5
FI 350		PAPAYAS		0.0	0.2	0.0	5.3	0.0
FI 351		PASSION FRUIT		0.0	0.0	1.9	0.1	1.5
FS 247	(5)	PEACHES AND NECTARINES		2.5	0.5	0.0	0.8	12.5
DF 247		PEACH, DRIED		0.1	0.1	0.1	0.1	0.1
FP 230		PEARS		3.3	2.8	0.0	1.0	11.3
FT 307		PERSIMMONS JAPANESE		0.0	1.0	0.0	0.3	0.0
FI 353		PINEAPPLES		0.8	10.2	3.1	15.8	3.3
JF 341		PINEAPPLE JUICE SINGLE-STRENGTH		0.0	0.0	0.8	0.0	0.0
	(6)	PINEAPPLES		0.0	9.3	2.6	15.5	1.3
FI 353ca	(6)	PINEAPPLES CANNED		0.8	0.8	0.5	0.3	2.0
FI 354		PLANTAINS		0.0	0.0	41.3	56.5	0.0
FS 14		PLUMS (INC. PRUNES)		1.8	0.5	0.0	0.0	4.3
	(7)	PLUMS		1.8	0.5	0.0	0.0	3.8
DF 14	(7)	PLUMS DRIED (PRUNES)		0.0	0.0	0.0	0.0	0.5
FP 9		POME FRUITS		10.8	7.5	0.3	6.5	51.3
FP 231		QUINCE		0.1	0.1	0.1	0.1	0.1
FB 272		RASPBERRIES		0.0	0.0	0.0	0.0	0.5
FS 12		STONE FRUITS		7.3	1.0	0.0	0.8	23.3
FB 275		STRAWBERRIES		0.0	0.0	0.0	0.0	5.3
FC 3		CITRUS INC. TANG.MAND.CLEMENT.SATS		8.8	0.2	0.0	6.3	6.0
FT 312		TREE TOMATOES		0.0	1.9	0.1	1.5	0.1
FB 19		VACCINIUM BERRIES		0.0	0.0	0.0	0.0	0.8

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
VC 432		WATERMELON		49.3	9.5	0.0	5.5	7.8
		DRIED FRUIT NES		0.3	0.2	0.3	0.3	0.0
		FRUIT FRESH NES		4.3	3.2	8.3	3.3	1.8
		FRUIT PREPARED NES		1.3	0.7	0.4	5.3	7.3
		FRUIT STONE FRESH NES		0.0	0.0	0.0	0.0	0.0
		FRUIT TROPICAL FRESH NES		0.0	19.3	1.0	15.0	5.0
		TOTAL FRUITS		204.4	85.4	94.7	271.3	212.4

NOTE 1: CHERRIES (FS 13) = SOUR (FS 243) AND SWEET (FS 244)

NOTE 2: ADDED TOGETHER AS APPROPRIATE

NOTE3: FB 269 GRAPES INCLUDES TABLE AND WINE GRAPES

NOTE 4: MAY INCLUDE ORANGE JUICE(JF 4) WITH ORANGES (FC 4)

NOTE 5: FS 247 PEACHES INCLUDES NECTARINES (FS 245) TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION. MAY BE DIVIDED INTO TWO IF BOTH ARE SPECIFIED.

NOTE 6: THIS DISTRIBUTION APPLIES IF CANNED PINEAPPLE (FI 353ca) IS SPECIFIED

NOTE 7: THIS DISTRIBUTION APPLIES IF PRUNES IS SPECIFIED

NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
MILK AND MILK PRODUCTS								
ML 106	(1)	MILKS		116.9	32.1	41.8	160.1	289.3
ML 810	(1)	MILK BUFFALO		4.3	8.2	0.0	0.0	0.0
ML 811	(1)	MILK CAMEL		2.3	0.0	0.5	0.0	0.0
ML 812	(1)	MILK CATTLE		79.5	23.2	35.8	159.3	287.0
ML 814	(1)	MILK GOAT		14.0	0.7	3.6	0.8	2.3
ML 822	(1)	MILK SHEEP		16.8	0.0	1.9	0.0	0.0
ML 107	(1)	MILK OF CATTLE, GOAT, SHEEP		110.3	23.9	41.3	160.1	289.3
		BUTTER OF COW MILK		6.3	0.2	0.4	3.3	14.0
		CHEESE (SKIM COW MILK)		1.5	0.0	0.0	0.0	1.0
		CHEESE (WHOLE COW MILK)		7.0	0.0	0.0	4.5	27.0
		CREAM FRESH		0.0	0.0	0.0	0.0	4.8
		GHEE(FROM COW MILK)		0.8	0.5	0.0	0.0	0.0
		MILK COW WHOLE FRESH		54.8	12.8	31.1	142.0	252.5
		MILK COW DRY		11.8	1.5	2.8	4.5	4.5
		MILK COW SKIM		0.5	4.7	1.7	2.5	23.0
		MILK COW SKIM EVAPORATED		0.0	0.0	0.0	6.0	1.3
		MILK COW WHOLE CONDENSED		0.0	3.5	0.0	3.8	2.3
		MILK COW WHOLE EVAPORATED		12.5	0.7	0.2	0.5	3.5
		WHEY DRY		0.0	0.0	0.0	0.0	1.8
AO 31		TOTAL MILK AND MILK PRODUCTS		132.4	32.8	42.2	167.9	336.1

NOTE 1: CONSUMPTION VALUES ARE FOR FRESH AND RECONSTITUTED MILK CONSUMED AS SUCH

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
MEAT AND OFFALS								
		ASSES MEAT		0.0	0.0	0.3	0.0	0.0
MM 811		CAMEL MEAT		1.5	0.0	0.5	0.0	0.0
MO 812		OFFALS OF CATTLE		2.5	0.3	1.8	5.0	6.0
MO 1280		CATTLE, KIDNEY		0.1	0.0	0.1	0.2	0.2
MO 1281		CATTLE LIVER		0.2	0.0	0.1	0.3	0.4
MM 812	(1)	CATTLE MEAT		18.5	3.5	10.4	30.0	63.3
	(1)	BEEF AND VEAL		12.3	2.0	10.4	18.3	41.0
	(1)	BEEF AND VEAL BONELESS		1.5	0.7	0.0	6.5	20.8
	(1)	BEEF CANNED		0.8	0.0	0.0	3.0	1.3
	(1)	BEEF DRIED SALT SMOKED		0.0	0.0	0.0	2.3	0.3
	(1)	BUFFALO MEAT		4.0	0.8	0.0	0.0	0.0
PM 840		CHICKEN MEAT		30.5	11.5	5.5	25.3	44.0
PO 840		OFFALS LIVER OF CHICKENS		0.0	0.0	0.0	0.3	0.3
PM 841		DUCK MEAT		0.3	1.2	0.0	0.0	1.5
MO 105		EDIBLE OFFAL (MAMMALIAN)		4.2	1.4	2.8	6.1	12.4
		GAME MEAT		0.0	0.0	3.9	0.5	0.3
MM 814		GOAT MEAT		2.0	0.7	2.3	0.8	0.3
MO 814		OFFALS OF GOAT		0.3	0.0	0.4	0.0	0.0
PM 842		GOOSE MEAT		0.3	0.5	0.0	0.0	0.3
MM 816		HORSEMEAT		0.0	0.0	0.3	0.0	0.8
MM 95		MEAT(MAMMALIAN)		37.0	32.8	23.8	47.0	155.5
MM 96		MEAT OF CATTLE/GOAT/HORSE/PIG/SHEEP		34.0	32.0	17.5	44.3	150.3
MO 96		OFFALS OF CATTLE/GOAT/HORSE/PIG/SHEEP		4.1	1.3	2.7	6.0	12.3
MM 97		MEAT OF CATTLE, PIGS AND SHEEP		32.0	31.3	15.0	43.5	149.3
MO 97		OFFALS OF CATTLE, PIGS, AND SHEEP		3.8	1.3	2.3	6.0	12.3
MM 822		MUTTON AND LAMB		13.5	0.7	2.0	3.0	10.3
MM 818		PIGMEAT		0.0	27.2	2.6	10.5	75.8
MO 818		OFFALS OF PIGS		0.0	1.0	0.0	1.0	5.0
MO 822		OFFALS OF SHEEP		1.3	0.0	0.5	0.0	1.3
PM 110		POULTRY MEAT		31.0	13.2	5.5	25.3	53.0
PO 111		POULTRY, EDIBLE OFFAL OF		0.1	0.1	0.1	0.4	0.4

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
PF 111		POULTRY, FATS		3.1	1.3	0.6	2.5	5.3
PO 113		POULTRY SKIN		0.1	0.1	0.1	0.1	0.1
MM 819		RABBIT MEAT		0.8	0.5	0.0	1.8	1.3
PM 848		TURKEY MEAT		0.0	0.0	0.0	0.0	7.3
		MEAT NES		0.8	0.3	1.7	0.5	3.8
		TOTAL MEAT AND OFFALS		71.3	47.0	30.4	78.0	217.3

NOTE 1: CATTLE MEAT (MM 812) = SUM OF LISTED ITEMS AND INCLUDES BUFFALO MEAT TO BE CONSISTENT WITH FAO FOOD BALANCE SHEET DEFINITION
NES = NOT ELSEWHERE SPECIFIED

CODE	NOTES	COMMODITY	DIETS -	MIDDLE EASTERN	FAR EASTERN	AFRICAN	LATIN AMERICAN	EUROPEAN
ANIMAL OILS AND FATS								
MF 95		FAT, MAMMALIAN		0.6	1.6	0.6	4.3	7.6
MF 812		CATTLE FAT		0.3	0.3	0.3	1.5	0.0
PF 840		CHICKEN FAT		0.0	0.0	0.0	0.1	0.3
FA 818		LARD		0.0	1.0	0.0	2.5	7.3
MF 814		GOAT FAT		0.1	0.1	0.1	0.1	0.1
MF 816		HORSE FAT		0.1	0.1	0.1	0.1	0.1
MF 822		SHEEP FAT		0.1	0.1	0.1	0.1	0.1
		FAT PREPARATIONS NES		0.3	0.2	0.0	1.0	2.8
		TOTAL ANIMAL OILS AND FATS		0.9	1.8	0.6	5.4	10.6
NES = NOT ELSEWHERE SPECIFIED								
TOTAL DIET IN GRAMS PER PERSON PER DAY				1342.5	1083.5	1018.1	1355.5	1896.4