Canadian Community Health Survey Cycle 2.2, Nutrition (2004)

Nutrient Intakes from Food

Provincial, Regional and National Summary Data Tables Volume 3

Revised February 2009

Note:

This PDF contains the 12 data tables for Manitoba as well as the Appendices.

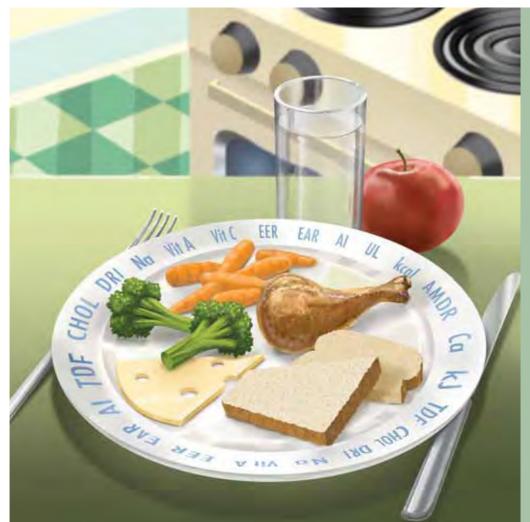




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Table 29.7 Folacin (μg/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2,3}

	Age					Perce	ntiles (and SE) of us	ual intake		
Sex	(years)	n	Mean (SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both										
	1-3	324	209 (9)	123 (16)	138 (14)	164 (12)	198 (11)	241 (14)	290 (23)	325 (32)
	4-8	425	282 (17)	193 (28)	209 (24)	238 (20)	274 (19)	313 (27)	353 (39)	378 (48)
Male										
	9-13	274	332 (12)	226 (11)	246 (12)	282 (13)	327 (16)	379 (19)	433 (22)	468 (23)
	14-18	297	426 (18)	224 (22)	260 (20)	327 (16)	414 (19)	515 (30)	619 (44)	687 (53)
	19-30	249	452 <i>(36)</i>	263 (22)	294 (23)	351 (27)	430 (35)	532 (49)	646 (65)	723 (76)
	31-50	309	393 (19)	242 (39)	270 (35)	323 (28)	391 (24)	465 (33)	535 (48)	579 (60)
	51-70	277	345 (14)	204 (28)	230 (25)	277 (20)	336 (16)	404 (21)	472 (33)	516 (42)
	>70	136	291 (20)	156 (27) ^E	179 (25)	224 (21)	280 (19)	343 (32)	411 (44)	460 (56)
	19+	971	383 (12)	230 (25)	257 (22)	309 (17)	374 (14)	452 (20)	535 (34)	593 (46)
Female	e									
	9-13	265	303 (18)	235 (16)	246 (17)	265 (17)	288 (18)	312 (19)	335 (21)	349 (21)
	14-18	290	314 (14)	178 (31) ^E	201 (28)	246 (22)	302 (18)	367 (24)	433 <i>(37)</i>	476 (47)
	19-30	197	322 (23)	232 (36)	250 (30)	281 (22)	316 (18)	351 (25)	383 <i>(37)</i>	402 (44)
	31-50	312	321 (17)	200 (23)	220 (21)	258 (18)	307 (18)	366 (25)	429 (36)	470 (46)
	51-70	312	303 (15)	197 (30)	216 (27)	250 (22)	292 (18)	341 (21)	395 (34)	433 (46)
	>70	239	239 (9)	155 (23)	171 (20)	200 (15)	235 (11)	276 (15)	319 (26)	349 (35)
	19+	1060	304 (9)	182 (17)	204 (15)	243 (11)	293 (9)	352 (14)	415 (26)	459 (34)

Symbol Legend

- E Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- ¹ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- ² No DRIs have been established for folacin.
- ³ There are two chemical forms in foods that contribute to folate bioactivity: naturally occurring folate called "food folate" and the added synthetic form of folate called "folic acid." The term "folacin" is a measuring unit referring to the simple arithmetic sum of the content of both food folate and folic acid in foods (in micrograms).

Table 30.7 Linolenic acid (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

<u> </u>	Age					Percentiles (and SE) of usual intake								
Sex	(years)	n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)	AI^3	% >AI	(SE)
Both														
	1-3	324	0.75	(0.04)	0.42 (0.05)	0.47 (0.05)	0.57 (0.04)	0.71 (0.05)	0.88 (0.08)	1.08 (0.13)	1.23 (0.18)	0.7	51.2	$(9.8)^{E}$
	4-8	425	1.23	(0.08)	0.72 (0.18) ^E	0.81 (0.17) ^E	0.97 (0.14)	1.18 (0.09)	1.44 (0.09)	1.71 (0.19)	1.90 (0.28)	0.9	82.0	(12.1)
Male														
	9-13	274	1.59	(0.13)	0.82 (0.18) ^E	0.94 (0.16) ^E	1.17 (0.14)	1.52 (0.12)	2.00 (0.19)	2.59 (0.34)	3.05 (0.51) ^E	1.2	73.2	(10.0)
	14-18	297	2.29	(0.15)	0.94 (0.21) ^E	1.15 (0.21) ^E	1.58 (0.20)	2.19 (0.19)	2.99 (0.25)	3.89 (0.40)	4.52 (0.55)	1.6	74.1	(8.0)
	19-30	249	2.60	(0.29)	1.21 (0.11)	1.41 (0.13)	1.82 (0.17)	2.48 (0.25)	3.38 (0.42)	4.46 (0.71)	5.27 (0.99) ^E	1.6	83.6	(5.2)
	31-50	309	1.78	(0.10)	0.93 (0.20) ^E	1.08 (0.18) ^E	1.36 (0.15)	1.75 (0.13)	2.23 (0.17)	2.73 (0.30)	3.11 (0.43)	1.6	59.8	$(10.3)^{E}$
	51-70	277	1.91	(0.19)	1.09 (0.26) ^E	1.22 (0.25) ^E	1.46 (0.21)	1.79 (0.18)	2.19 (0.25)	2.62 (0.45) ^E	2.93 (0.64) ^E	1.6	64.7	$(14.6)^{E}$
	>70	136	1.46	(0.10)	0.78 (0.17) ^E	0.88 (0.16) ^E	1.08 (0.14)	1.34 (0.12)	1.66 (0.16)	2.00 (0.26)	2.24 (0.35)	1.6	F	
	19+	971	1.97	(0.10)	1.05 (0.19) ^E	1.19 (0.18)	1.49 (0.14)	1.91 (0.12)	2.44 (0.17)	3.04 (0.33)	3.47 (0.48)	1.6	68.5	(8.9)
Female	<u>}</u>													
	9-13	265	1.45	(0.10)	0.84 (0.17) ^E	0.93 (0.15)	1.10 (0.12)	1.31 (0.09)	1.55 (0.14)	1.79 (0.24)	1.94 (0.31)	1.0	84.6	(10.5)
	14-18	290	1.55	(0.11)	0.71 (0.09)	0.83 (0.10)	1.10 (0.12)	1.51 (0.16)	2.02 (0.23)	2.56 (0.36)	2.94 (0.50) ^E	1.1	75.2	(7.1)
	19-30	197	1.58	(0.13)	0.75 (0.07)	0.87 (0.09)	1.12 (0.11)	1.48 (0.14)	1.92 (0.18)	2.42 (0.24)	2.77 (0.29)	1.1	76.7	(7.2)
	31-50	312	1.77	(0.14)	1.11 (0.11)	1.23 (0.12)	1.46 (0.13)	1.77 (0.16)	2.14 (0.21)	2.53 (0.27)	2.80 (0.33)	1.1	95.3	(4.2)
	51-70	312	1.60	(0.09)	0.86 (0.19) ^E	0.96 (0.18) ^E	1.18 (0.15)	1.47 (0.12)	1.82 (0.15)	2.21 (0.26)	2.46 (0.35)	1.1	81.0	(10.5)
	>70	239	1.34	(0.12)	0.58 (0.13) ^E	0.68 (0.12) ^E	0.88 (0.12)	1.16 (0.12)	1.56 (0.16)	2.02 (0.26)	2.34 (0.35)	1.1	55.3	$(10.5)^{E}$
	19+	1060	1.62	(0.07)	0.78 (0.11)	0.91 (0.11)	1.16 (0.10)	1.53 (0.08)	2.00 (0.11)	2.53 (0.20)	2.91 (0.28)	1.1	79.2	(6.1)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- 2 Linolenic acid is an alternative name for α -linolenic acid (n-3).
- ³ AI is the Adequate Intake. For additional detail, see footnote 10 in Appendix A.

Table 31.7 Percentage of total energy intake from linolenic acid, by DRI age-sex group, household population, Manitoba, 2004¹⁻³

							Percenti	les (and SE) of usual	intake		
Sex	Age (years)	n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both											
	1-3	324	0.48	(0.02)	0.42 (0.02)	0.43 (0.02)	0.45 (0.03)	0.47 (0.03)	0.49 (0.03)	0.51 (0.03)	0.52 (0.03)
	4-8	425	0.61	(0.06)	0.43 (0.04)	0.46 (0.05)	0.52 (0.05)	0.59 (0.06)	0.67 (0.07)	0.76 (0.08)	0.82 (0.08)
Male											
	9-13	274	0.58	(0.04)	0.37 (0.03)	0.40 (0.03)	0.47 (0.03)	0.57 (0.04)	0.68 (0.04)	0.81 (0.06)	0.90 (0.07)
	14-18	297	0.66	(0.03)	0.35 (0.06)	0.41 (0.05)	0.50 (0.04)	0.63 (0.03)	0.79 (0.05)	0.96 (0.08)	1.07 (0.11)
	19-30	249	0.83	(0.06)	0.53 (0.04)	0.59 (0.04)	0.70 (0.05)	0.84 (0.06)	1.01 (0.08)	1.19 (0.10)	1.31 (0.12)
	31-50	309	0.71	(0.04)	0.40 (0.07) ^E	0.45 (0.07)	0.55 (0.06)	0.69 (0.05)	0.86 (0.06)	1.04 (0.09)	1.15 (0.12)
	51-70	277	0.78	(0.05)	0.48 (0.09) ^E	0.53 (0.08)	0.62 (0.06)	0.74 (0.05)	0.89 (0.07)	1.06 (0.13)	1.18 (0.19)
	>70	136	0.74	(0.04)	0.43 (0.08) ^E	0.48 (0.07)	0.57 (0.06)	0.70 (0.05)	0.85 (0.08)	1.01 (0.12)	1.11 (0.15)
	19+	971	0.76	(0.02)	0.45 (0.04)	0.50 (0.04)	0.60 (0.03)	0.74 (0.03)	0.91 (0.04)	1.09 (0.07)	1.22 (0.10)
Female											
	9-13	265	0.65	(0.04)	0.42 (0.04)	0.45 (0.04)	0.52 (0.05)	0.60 (0.06)	0.70 (0.07)	0.80 (0.09)	0.86 (0.10)
	14-18	290	0.67	(0.04)	0.44 (0.04)	0.48 (0.04)	0.55 (0.05)	0.65 (0.06)	0.77 (0.06)	0.89 (0.08)	0.96 (0.09)
	19-30	197	0.68	(0.05)	0.42 (0.04)	0.46 (0.04)	0.54 (0.05)	0.65 (0.06)	0.79 (0.07)	0.93 (0.09)	1.02 (0.11)
	31-50	312	0.84	(0.05)	0.57 (0.04)	0.62 (0.04)	0.71 (0.05)	0.83 (0.06)	0.97 (0.07)	1.11 (0.08)	1.21 (0.10)
	51-70	312	0.90	(0.06)	0.47 (0.10) ^E	0.53 (0.10) ^E	0.65 (0.08)	0.81 (0.07)	1.02 (0.09)	1.24 (0.16)	1.40 (0.22)
	>70	239	0.84	(0.09)	0.39 (0.06)	0.45 (0.06)	0.55 (0.06)	0.72 (0.07)	0.95 (0.10)	1.24 (0.18)	1.47 (0.25) ^E
	19+	1060	0.82	(0.03)	0.45 (0.05)	0.51 (0.05)	0.62 (0.04)	0.78 (0.04)	0.97 (0.05)	1.18 (0.09)	1.33 (0.12)

Symbol Legend

- E Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- 1 Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- 2 Linolenic acid is an alternative name for α -linolenic acid (n-3).
- ³ AMDR is the Acceptable Macronutrient Distribution Range. For additional detail, see footnote 8 in Appendix A.

Table 32.7 Moisture (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	Age				Percentiles (and SE) of usual intake									%							
Sex	(years)	n	Mean	(SE)	5th	(SE)	10th	(SE)	25th	(SE)	50th	(SE)	75th	(SE)	90th	(SE)	95th	(SE)	AI ³	>AI	(SE)
Both																					
	1-3	324	1388	(46)	799	(79)	899	(75)	1093	(68)	1349	(66)	1652	(78)	1984	(116)	2222	(142)	1300	54.8	(7.2)
	4-8	425	1504	(37)	945	(111)	1039	(97)	1217	(68)	1450	(40)	1727	(69)	2022	(134)	2221	(183)	1700	27.0	$(6.4)^{E}$
Male																				F	
	9-13	274	1918	(64)	1233	(172)	1368	(141)	1602	,	1876	(58)	2172	(99)	2480	(180)	2695	(246)	2400		_
	14-18	297	2595	(111)	1467	(104)	1660	(105)	2018	(114)	2498	(138)	3125	(216)	3850	(305)	4341	(364)	3300	20.2	$(5.6)^{E}$
	19-30	249	3145	(143)	1679	(210)	1889	(199)	2315	(171)	2909	(147)	3636	(201)	4399	(329)	4902	(429)	3700	23.3	$(6.1)^{E}$
	31-50	309	3150	(137)	1736	(167)	1997	(154)	2460	(133)	3032	(133)	3735	(222)	4571	(373)	5200	(472)	3700	26.0	$(5.5)^{E}$
	51-70	277	2567	(81)	1524	(118)	1710	(103)	2028	(91)	2434	(91)	2944	(114)	3490	(174)	3846	(217)	3700	F	
	>70	136	2317	(121)	1256	(148)	1413	(147)	1738	(141)	2200	(143)	2758	(188)	3321	(266)	3678	(328)	3700	F	
	19+	971	2908	(72)	1581	(70)	1794	(68)	2201	(68)	2750	(73)	3411	(103)	4169	(163)	4718	(214)	3700	17.8	(2.7)
Female																					
	9-13	265	1806	(67)	1166	(136)	1286	(116)	1494	(88)	1760	(72)	2084	(103)	2456	(191)	2735	(280)	2100	24.1	$(7.1)^{E}$
	14-18	290	2033	(78)	1061	(87)	1192	(89)	1455	(100)	1856	(108)	2424	(137)	3096	(204)	3565	(268)	2300	29.3	$(5.2)^{E}$
	19-30	197	2626	(137)	1461	(203)	1691	(180)	2087	(150)	2568	(149)	3126	(202)	3714	(296)	4126	(380)	2700	43.3	$(8.8)^{E}$
	31-50	312	2717	(117)	1441	(130)	1643	(122)	2002	(119)	2509	(125)	3170	(165)	3947	(250)	4504	(326)	2700	41.5	(6.0)
	51-70	312	2536	(102)	1464	(137)	1625	(133)	1939	(127)	2375	(126)	2932	(146)	3545	(207)	3973	(272)	2700	34.0	(6.5) ^E
	>70	239	2090	(76)	1186	(92)	1331	(88)	1614	(86)	2002	(90)	2484	(108)	3019	(156)	3393	(209)	2700	17.5	$(3.9)^{E}$
	19+	1060	2556	(64)	1379	(61)	1570	(60)	1932	(61)	2409	(69)	3013	(89)	3699	(124)	4187	(159)	2700	36.5	(3.3)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- $^{\,2}\,$ The term "moisture" includes water from all food and beverage sources.
- 3 AI is the Adequate Intake. For additional detail, see footnote 10 in Appendix A.

Table 33.7 Naturally occurring folate (µg/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	A go						Percer	ntiles (and SE) of usu	al intake		
Sex	Age (years)	n	Mean ((SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both											
	1-3	324	123 ((8)	60 (6)	70 (6)	89 (5)	115 (7)	147 (11)	187 (19)	217 (27)
	4-8	425	152 ((8)	76 (11)	88 (10)	111 (8)	143 (7)	182 (11)	226 (19)	258 (27)
Male											
	9-13	274	178 ((9)	123 (18)	134 (16)	153 (13)	177 (11)	203 (14)	230 (22)	249 (28)
	14-18	297	243 ((12)	126 (16)	146 (15)	182 (13)	232 (14)	296 (21)	367 (33)	414 (43)
	19-30	249	264 ((22)	134 (12)	154 (13)	192 (15)	244 (20)	315 (29)	396 (41)	451 (50)
	31-50	309	246 ((15)	125 (20)	144 (19)	181 (18)	236 (17)	305 (25)	378 (38)	428 (49)
	51-70	277	226 ((10)	126 (21)	143 (19)	175 (15)	217 (12)	267 (16)	319 (28)	354 (37)
	>70	136	201 ((17)	86 (14)	104 (13)	140 (13)	187 (14)	242 (18)	302 (28)	346 (37)
	19+	971	240 ((8)	126 (13)	145 (12)	180 (10)	228 (9)	288 (13)	354 (22)	400 (30)
Female	e										
	9-13	265	161 ((10)	101 (9)	111 (10)	130 (11)	153 (12)	177 (13)	200 (14)	214 (14)
	14-18	290	177 ((10)	83 (14) ^E	96 (14)	123 (13)	161 (13)	211 (17)	266 (27)	307 (35)
	19-30	197	208 ((17)	126 (27) ^E	142 (25) ^E	172 (21)	210 (19)	250 (24)	287 (31)	309 (37)
	31-50	312	209 ((14)	101 (11)	115 (11)	147 (11)	192 (13)	248 (18)	312 (28)	361 (37)
	51-70	312	219 ((12)	126 (21) ^E	141 (20)	170 (16)	208 (14)	252 (18)	300 (30)	334 (40)
	>70	239	170 ((9)	94 (18) ^E	107 (16)	132 (12)	165 (9)	207 (13)	251 (23)	282 (32)
	19+	1060	206 ((7)	103 (7)	119 (7)	151 (7)	196 (7)	251 (10)	312 (16)	356 (21)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

 $^{^{\, 1}}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.

² No DRIs have been established for naturally occurring folate.

Table 34.7 Protein (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	Age					Percer	ntiles (and SE) of usu	al intake		
Sex	(years)	n	Mean (SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both										
	1-3	324	51 (2)	31 (3)	34 (3)	41 (3)	50 (2)	61 (3)	72 (5)	80 (7)
	4-8	425	64 (3)	52 (8)	54 (7)	59 (5)	64 (4)	69 (5)	75 (8)	78 (10)
Male										
	9-13	274	84 (2)	57 (7)	62 (6)	72 (4)	84 (3)	97 (5)	110 (8)	118 (10)
	14-18	297	111 (4)	56 (7)	66 (6)	85 (6)	108 (6)	136 (7)	168 (11)	192 (14)
	19-30	249	114 (8)	66 (5)	73 (5)	88 (6)	107 (7)	127 (9)	148 (11)	163 (12)
	31-50	309	96 (6)	55 (10) ^E	62 (9)	74 (7)	90 (6)	109 (9)	132 (14)	149 (19)
	51-70	277	91 (4)	53 (6)	60 (5)	72 (4)	87 (4)	106 (5)	126 (7)	139 (9)
	>70	136	79 (5)	39 (9) ^E	46 (8) ^E	58 (7)	75 (6)	95 (8)	115 (12)	129 (15)
	19+	971	97 (3)	55 (6)	62 (5)	75 (4)	92 (3)	112 (4)	134 (7)	149 (9)
Female	•									
	9-13	265	70 (4)	43 (7) ^E	48 (7)	57 (5)	68 (4)	80 (5)	94 (7)	103 (10)
	14-18	290	69 (3)	52 (6)	55 (5)	61 (4)	68 (3)	75 (5)	82 (7)	86 (9)
	19-30	197	76 (5)	50 (9) ^E	55 (8)	64 (7)	75 (6)	87 (7)	99 (10)	106 (12)
	31-50	312	79 (4)	44 (7)	50 (7)	61 (5)	75 (5)	92 (6)	109 (10)	121 (13)
	51-70	312	73 (4)	50 (8)	55 (7)	62 (5)	72 (4)	83 (5)	94 (8)	101 (11)
	>70	239	57 (3)	35 (5)	39 (4)	47 (3)	56 (3)	67 (4)	78 (6)	86 (8)
	19+	1060	74 (2)	41 (3)	46 (3)	57 (3)	71 (2)	87 (3)	104 (5)	116 (7)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- ² Although DRIs for protein have been established on a "per kg body weight" basis, no DRIs have been established for the absolute amount of protein.

Table 35.7 Total carbohydrates (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004¹

	Age					Percentiles (and SE) of usual intake										%					
Sex	(years)	n	Mean	(SE)	5th	(SE)	10th	(SE)	25th	(SE)	50th	(SE)	75th	n (SE)	90th	(SE)	95th	(SE)	EAR ²		(SE)
Both																					
	1-3	324	199	(6)	129	(16)	142	(14)	167	(10)	197	(7)	229	(10)	261	(16)	281	(21)	100	<3	
	4-8	425	256	(8)	176	(15)	190	(14)	216	(11)	249	(10)	287	(13)	328	(20)	354	(26)	100	<3	
Male																				-	
	9-13	274	326	(11)	193	(17)	218	(15)	262	(13)	318	(13)	384	(17)	454	(26)	499	(33)	100	<3	
	14-18	297	398	(18)	231	(29)	262	(26)	318	(22)	390	(21)	477	(31)	573	(50)	641	(65)	100	<3	
	19-30	249	339	(19)	188	$(43)^{E}$	216	$(37)^{E}$	268	(27)	333	(22)	406	(31)	479	(48)	525	(62)	100	<3	
	31-50	309	269	(10)	168	(21)	188	(18)	225	(14)	269	(13)	317	(16)	364	(23)	396	(30)	100	<3	
	51-70	277	249	(10)	129	(18)	148	(16)	186	(14)	236	(12)	297	(14)	361	(23)	405	(31)	100	F	
	>70	136	225	(12)	129	(21)	148	(18)	181	(14)	218	(12)	262	(17)	314	(28)	350	(36)	100	F	
	19+	971	275	(7)	149	(10)	171	(9)	211	(8)	265	(8)	329	(10)	396	(14)	442	(18)	100	<3	
Female																					
	9-13	265	287	(12)	174	(17)	192	(14)	227	(11)	270	(11)	319	(16)	367	(25)	399	(32)	100	<3	
	14-18	290	280	(18)	163	(24)	184	(22)	220	(20)	267	(20)	325	(24)	393	(35)	443	(45)	100	<3	
	19-30	197	275	(24)	180	(29)	197	(26)	227	(22)	265	(21)	307	(27)	349	(37)	377	(46)	100	<3	
	31-50	312	213	(8)	132	(15)	147	(13)	176	(11)	211	(9)	251	(12)	292	(18)	321	(24)	100	<3	
	51-70	312	206	(8)	134	(17)	148	(15)	172	(12)	201	(10)	235	(12)	270	(18)	294	(23)	100	<3	
	>70	239	187	(7)	111	(13)	124	(12)	150	(10)	183	(8)	222	(10)	262	(16)	288	(21)	100	F	
	19+	1060	220	(7)	127	(7)	143	(7)	173	(6)	212	(6)	258	(9)	307	(15)	341	(20)	100	<3	

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- 2 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

Table 36.7 Total fats (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	Age					Percen	tiles (and SE) of usua	al intake		
Sex	(years)	n	Mean (SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both										
	1-3	324	47 (2)	29 (3)	32 (3)	39 (2)	46 (2)	55 (3)	63 (4)	69 (5)
	4-8	425	62 (2)	41 (6)	45 (5)	52 (4)	61 (2)	71 (4)	82 (7)	89 (9)
Male										
	9-13	274	81 (3)	47 (7)	54 (6)	66 (4)	81 (3)	98 (5)	115 (8)	127 (10)
	14-18	297	113 (6)	54 (8)	64 (8)	85 (7)	111 (7)	142 (9)	177 (13)	202 (18)
	19-30	249	104 (6)	60 (5)	68 (5)	83 (6)	103 (7)	124 (9)	146 (10)	160 (12)
	31-50	309	83 (4)	44 (9) ^E	49 (9) ^E	62 (8)	81 (5)	101 (8)	123 (13)	135 (17)
	51-70	277	76 (4)	43 (9) ^E	49 (9) ^E	61 (7)	77 (6)	93 (6)	109 (10)	119 (13)
	>70	136	60 (4)	30 (5)	35 (5)	43 (4)	55 (4)	69 (5)	84 (7)	94 (10)
	19+	971	83 (3)	46 (7)	52 (7)	65 (5)	82 (3)	100 (5)	120 (8)	132 (11)
emale	:									
	9-13	265	66 (2)	43 (6)	47 (5)	54 (4)	63 (3)	72 (3)	81 (5)	86 (7)
	14-18	290	72 (5)	41 (3)	46 (3)	57 (4)	72 (5)	88 (6)	106 (7)	118 (9)
	19-30	197	69 (6)	41 (9) ^E	46 (8) ^E	55 (7)	67 (6)	81 (7)	94 (11)	103 (14)
	31-50	312	67 (3)	50 (7)	53 (6)	60 (5)	67 (4)	76 (5)	84 (8)	89 (11)
	51-70	312	59 (2)	41 (6)	45 (5)	51 (3)	59 (3)	67 (4)	75 (7)	80 (9)
	>70	239	47 (2)	31 (5)	34 (4)	39 (3)	46 (3)	54 (3)	62 (5)	67 (7)
	19+	1060	62 (2)	39 (4)	43 (3)	51 (3)	61 (2)	73 (3)	86 (6)	94 (7)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- ² No DRIs have been established for the absolute amount of total fats.

Table 37.7 Total monounsaturated fats (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

						Percei	ntiles (and SE) of usu	al intake		
Sex	Age (years)	n	Mean (SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both										
	1-3	324	16.7 (0.8)	8.1 (1.0)	9.7 (0.9)	12.5 (0.9)	16.0 (0.9)	20.0 (1.1)	24.2 (1.5)	27.1 (1.9)
	4-8	425	23.7 (0.8)	14.8 (3.0) ^E	16.5 (2.6)	19.5 (1.9)	23.2 (0.9)	27.5 (2.4)	31.8 (4.1)	34.7 (5.2)
Male				F.						
	9-13	274	31.8 (1.4)	19.5 (3.4) ^E	22.0 (2.9)	26.4 (2.1)	31.8 (1.6)	38.0 (2.3)	44.6 (3.9)	49.2 (5.2)
	14-18	297	44.9 (2.2)	21.0 (3.6) ^E	25.3 (3.4)	33.4 (3.0)	43.8 (2.9)	56.4 (3.5)	70.5 (5.5)	80.5 (7.6)
	19-30	249	42.8 (2.7)	24.6 (2.0)	27.8 (2.2)	34.3 (2.6)	42.6 (3.1)	51.9 (3.7)	61.4 (4.6)	68.0 (5.5)
	31-50	309	33.9 (2.0)	16.1 (3.8) ^E	18.7 (3.6) ^E	23.9 (3.3)	32.1 (2.6)	43.0 (3.5)	54.9 (6.3)	64.0 (9.3)
	51-70	277	31.1 (1.6)	19.1 (3.9) ^E	21.4 (3.6) ^E	25.7 (3.0)	31.0 (2.3)	36.8 (2.6)	42.5 (4.2)	46.2 (5.6)
	>70	136	23.9 (1.7)	11.0 (2.0) ^E	12.9 (1.9)	16.6 (1.7)	21.6 (1.6)	27.6 (2.1)	34.2 (3.3)	38.6 (4.5)
	19+	971	34.2 (1.2)	18.3 (2.8)	20.8 (2.7)	25.8 (2.2)	33.2 (1.6)	42.2 (2.1)	51.5 (3.8)	57.8 (5.2)
emale										
	9-13	265	26.4 (1.2)	15.3 (2.2)	17.2 (1.9)	20.8 (1.5)	25.1 (1.3)	29.7 (1.6)	34.2 (2.3)	37.0 (2.8)
	14-18	290	28.9 (2.1)	15.8 (1.1)	18.2 (1.2)	22.7 (1.5)	28.5 (1.9)	35.4 (2.4)	42.7 (3.2)	47.6 (3.8)
	19-30	197	27.6 (2.4)	15.4 (1.5)	17.5 (1.7)	21.4 (2.0)	26.5 (2.4)	32.4 (2.8)	38.5 (3.2)	42.6 (3.5)
	31-50	312	27.2 (1.5)	19.2 (3.0)	20.8 (2.7)	23.7 (2.2)	27.4 (1.8)	31.6 (2.3)	35.9 (3.7)	38.7 (5.0)
	51-70	312	22.8 (0.9)	13.9 (2.1)	15.5 (1.9)	18.5 (1.4)	22.3 (1.1)	26.7 (1.7)	31.2 (2.9)	34.3 (3.8)
	>70	239	18.3 (1.0)	11.6 (2.1) ^E	12.7 (1.8)	14.8 (1.5)	17.4 (1.2)	20.7 (1.5)	24.1 (2.5)	26.4 (3.2)
	19+	1060	24.7 (0.8)	15.0 (1.8)	16.7 (1.6)	19.9 (1.2)	24.2 (0.9)	29.4 (1.4)	34.9 (2.5)	38.7 (3.5)

Symbol Legend

Footnotes

Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.

<3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>

Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

 $^{^{\}rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.

² No DRIs have been established for total monounsaturated fats.

Table 38.7 Total polyunsaturated fats (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	Age						Percen	ntiles (and SE) of usu	al intake		
Sex	(years)	n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both											
	1-3	324	6.0	(0.3)	2.5 (0.6) ^E	3.1 (0.5)	4.3 (0.4)	5.6 (0.4)	7.2 (0.4)	9.0 (0.7)	10.2 (0.9)
	4-8	425	9.8	(0.4)	5.5 (1.1) ^E	6.3 (1.0)	7.6 (0.8)	9.4 (0.5)	11.6 (0.6)	14.0 (1.2)	15.8 (1.8)
Male											
	9-13	274	13.7	(0.7)	7.1 (1.7) ^E	8.2 $(1.5)^E$	10.3 (1.2)	13.2 (0.9)	16.7 (1.1)	20.8 (2.0)	23.8 (2.9)
	14-18	297	18.0	(1.1)	9.7 (2.0) ^E	11.1 (1.8) ^E	13.9 (1.6)	17.6 (1.4)	22.0 (1.8)	26.8 (2.8)	30.1 (3.6)
	19-30	249	18.6	(1.4)	10.8 (0.8)	12.0 (0.9)	14.6 (1.3)	18.4 (1.6)	23.1 (2.0)	28.2 (2.6)	31.6 (3.2)
	31-50	309	13.9	(0.9)	6.8 (1.3) ^E	7.8 (1.3)	10.0 (1.1)	12.9 (1.0)	16.8 (1.4)	21.8 (2.6)	25.7 (3.7)
	51-70	277	13.1	(0.7)	9.1 (1.7) ^E	9.9 (1.5)	11.2 (1.2)	12.9 (0.9)	14.8 (1.2)	16.7 (2.0)	17.9 (2.6)
	>70	136	11.9	(1.2)	6.3 (1.5) ^E	7.1 (1.4) ^E	8.7 (1.3)	10.8 (1.2)	13.5 (2.3) ^E	16.6 (3.0) ^E	18.8 (3.6) ^E
	19+	971	14.6	(0.6)	9.0 (1.7) ^E	10.0 (1.5)	12.0 (1.1)	14.4 (0.7)	17.4 (1.0)	20.7 (2.1)	23.0 (2.9)
Female											
	9-13	265	11.2	(0.5)	6.4 (1.1) ^E	7.2 (0.9)	8.7 (0.7)	10.5 (0.5)	12.6 (0.7)	14.7 (1.2)	16.1 (1.6)
	14-18	290	11.7	(0.8)	6.1 (1.3) ^E	7.1 (1.1)	9.0 (0.9)	11.4 (0.8)	14.2 (1.1)	17.3 (1.8)	19.5 (2.5)
	19-30	197	11.3	(0.8)	7.1 (0.7)	7.9 (0.7)	9.3 (0.8)	11.1 (0.9)	13.1 (1.0)	15.1 (1.1)	16.3 (1.2)
	31-50	312	11.6	(0.6)	8.0 (1.3)	8.7 (1.2)	9.9 (0.9)	11.5 (0.8)	13.3 (1.0)	15.2 (1.7)	16.4 (2.3)
	51-70	312	10.3	(0.5)	5.6 (0.9)	6.3 (0.8)	7.8 (0.7)	9.8 (0.6)	12.3 (0.8)	15.1 (1.3)	16.9 (1.7)
	>70	239	8.6	(0.5)	4.6 (0.9) ^E	5.2 (0.8)	6.4 (0.7)	8.0 (0.5)	9.9 (0.7)	11.9 (1.2)	13.2 (1.6)
	19+	1060	10.7	(0.3)	6.2 (0.8)	7.0 (0.7)	8.4 (0.5)	10.4 (0.4)	12.7 (0.6)	15.1 (1.1)	16.8 (1.4)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- ² No DRIs have been established for total polyunsaturated fats.

Table 39.7 Total saturated fats (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	Age			Percentiles (and SE) of usual intake						
Sex	(years)	n	Mean (SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both										
	1-3	324	18.7 (0.8)	10.0 (1.6)	11.5 (1.4)	14.6 (1.1)	18.5 (1.0)	22.8 (1.4)	27.1 (2.1)	29.9 (2.7)
	4-8	425	22.5 (1.1)	12.5 (2.5) ^E	14.3 (2.2)	17.6 (1.6)	21.7 (1.2)	26.6 (1.7)	31.8 (3.1)	35.4 (4.1)
Male										
	9-13	274	28.1 (1.2)	19.4 (2.5)	21.2 (2.1)	24.4 (1.6)	28.3 (1.4)	32.7 (2.1)	37.0 (3.4)	39.7 (4.4)
	14-18	297	40.0 (2.8)	17.0 (2.7)	20.8 (2.5)	27.8 (2.5)	37.5 (2.9)	50.4 (4.1)	66.5 (6.3)	79.5 (8.9)
	19-30	249	32.3 (2.1)	17.6 (1.5)	20.0 (1.7)	24.7 (2.0)	31.2 (2.4)	39.2 (3.0)	47.7 (4.0)	53.4 (4.8)
	31-50	309	26.8 (1.5)	14.2 (2.9) ^E	16.2 (2.6)	20.2 (2.1)	25.6 (1.7)	32.2 (2.7)	39.3 (4.6)	44.1 (6.1)
	51-70	277	24.3 (1.3)	10.5 (2.7) ^E	12.4 (2.7) ^E	17.1 (2.3)	23.9 (1.9)	30.8 (2.1)	37.5 (3.4)	42.5 (4.7)
	>70	136	18.3 (1.1)	7.9 (1.9) ^E	9.4 (1.8) ^E	12.5 (1.5)	16.7 (1.3)	22.0 (1.7)	27.8 (3.0)	31.8 (4.2)
	19+	971	26.5 (0.9)	12.9 (1.7)	15.0 (1.6)	19.2 (1.4)	25.2 (1.1)	32.8 (1.5)	40.6 (2.7)	46.0 (3.7)
Female	:									
	9-13	265	22.5 (0.9)	14.0 (1.3)	15.5 (1.3)	18.2 (1.2)	21.4 (1.2)	24.8 (1.2)	28.2 (1.4)	30.4 (1.5)
	14-18	290	24.7 (1.5)	17.6 (3.1) ^E	19.1 (2.7)	21.9 (2.2)	25.5 (1.7)	29.6 (2.1)	33.8 (3.4)	36.6 (4.4)
	19-30	197	23.6 (2.1)	13.5 (3.1) ^E	15.2 (2.9) ^E	18.4 (2.4)	22.6 (2.3)	27.6 (2.9)	32.8 (4.3)	36.4 (5.4)
	31-50	312	21.8 (1.3)	16.6 (2.7)	17.6 (2.4)	19.4 (1.9)	21.6 (1.5)	23.9 (1.7)	26.1 (2.6)	27.5 (3.4)
	51-70	312	19.8 (1.4)	12.6 (2.3) ^E	13.9 (2.1)	16.4 (1.7)	19.7 (1.5)	23.5 (2.1)	27.4 (3.1)	30.0 (3.9)
	>70	239	15.1 (0.8)	8.3 (1.6) ^E	9.5 (1.4)	11.7 (1.1)	14.7 (0.9)	18.3 (1.2)	22.1 (2.0)	24.7 (2.7)
	19+	1060	20.6 (0.7)	12.0 (1.1)	13.4 (1.0)	16.3 (0.9)	20.1 (0.8)	24.8 (1.1)	29.6 (1.8)	32.8 (2.3)

Symbol Legend

- Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- ² No DRIs have been established for total saturated fats.

Table 40.7 Total sugars (g/d): Usual intakes from food, by DRI age-sex group, household population, Manitoba, 2004^{1,2}

	Age			Percentiles (and SE) of usual intake							
Sex	(years)	n	Mean (SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)	
Both											
	1-3	324	99 (5)	47 (11) ^E	56 (9)	73 (6)	94 (5)	121 (10)	152 (20)	175 (27)	
	4-8	425	122 (5)	69 (12) ^E	79 (10)	96 (7)	117 (5)	143 (8)	171 (15)	190 (21)	
Male											
	9-13	274	154 (6)	88 (18) ^E	100 (15)	122 (11)	150 (7)	183 (12)	217 (21)	240 (28)	
	14-18	297	185 (10)	94 (14)	111 (13)	143 (12)	183 (13)	231 (18)	282 (25)	317 (31)	
	19-30	249	135 (9)	65 (21) ^E	76 (19) ^E	97 (14)	124 (11)	157 (14)	191 (25)	213 (33)	
	31-50	309	105 (6)	45 (5)	55 (5)	76 (6)	103 (7)	135 (9)	171 (11)	196 (13)	
	51-70	277	97 (6)	41 (10) ^E	50 (9) ^E	69 (8)	94 (7)	124 (9)	156 (14)	178 (19)	
	>70	136	92 (7)	38 (9) ^E	46 (9) ^E	62 (8)	86 (8)	117 (11)	153 (19)	179 (26)	
	19+	971	108 (4)	40 (5)	51 (5)	72 (5)	101 (4)	138 (6)	179 (9)	208 (12)	
Female											
	9-13	265	144 (10)	80 (13) ^E	91 (12)	109 (9)	131 (8)	157 (11)	183 (16)	199 (21)	
	14-18	290	132 (12)	72 (9)	82 (10)	103 (11)	131 (14)	164 (18)	201 (23)	227 (27)	
	19-30	197	127 (9)	65 (17) ^E	76 (15) ^E	99 (12)	128 (11)	158 (15)	182 (21)	198 (26)	
	31-50	312	87 (6)	43 (6)	50 (6)	63 (6)	82 (6)	106 (9)	134 (13)	155 (17)	
	51-70	312	88 (6)	38 (6)	46 (5)	61 (5)	82 (6)	106 (8)	132 (12)	150 (14)	
	>70	239	80 (4)	38 (7) ^E	46 (6)	62 (5)	80 (4)	102 (6)	125 (8)	141 (11)	
	19+	1060	94 (3)	41 (3)	50 (3)	66 (3)	88 (3)	117 (5)	150 (8)	173 (9)	

Symbol Legend

- E Data with a coefficient of variation (CV) from 16.6% to 33.3%; interpret with caution.
- <3 Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval entirely between 0 and 3%; interpret with caution.</p>
- Data with a coefficient of variation (CV) greater than 33.3% with a 95% confidence interval not entirely between 0 and 3%; suppressed due to extreme sampling variability.

Footnotes

- $^{\rm 1}$ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.
- ² No DRIs have been established for total sugars.

Appendix A: Table Footnotes

The following footnotes apply to all of the summary data tables presented in Section II of this report.

- 1. The survey excludes from its target population those living in the three territories, individuals living on Indian reserves or on Crown lands, residents of institutions, full-time members of the Canadian Forces and residents of certain remote regions.
- 2. The tables exclude pregnant and breastfeeding females, subject to another set of nutritional recommendations. The sample of pregnant and breastfeeding females is not large enough to allow for reliable estimates.
- 3. Sample size and mean intake are based on the first 24-hour dietary recall (first day of interview) only.
- 4. Intakes are based on food consumption only. Intakes from vitamin and mineral supplements are not included. Inferences about the prevalence of nutrient excess or inadequacy based on intakes from food alone may respectively underestimate or overestimate the prevalences based on total nutrient intakes from both food and supplements.
- 5. The intake distribution (percentiles and percentage above or below a cut-off when applicable) was adjusted to remove within-individual variability using Software for Intake Distribution Estimation (SIDE) (Iowa State University, 1996) and the method presented in Nusser SM, Carriquiry AL, Dodd KW, Fuller WA: A semiparametric transformation approach to estimating usual daily intake distributions. *J Am Stat Assoc* 1996; 91: 1440-1449.
- 6. In some cases, within-individual variance was estimated at the regional or national level and applied at the provincial level. For more details, see Section II.4: Measuring Sampling Variability with Bootstrap Replication in Volume 1 of the *Nutrient Intakes from Food* report series.
- 7. Bootstrapping techniques were used to produce the coefficient of variation (CV) and the standard error (SE).
- 8. AMDR is the Acceptable Macronutrient Distribution Range, expressed as a percentage of total energy intake. Intakes inside the range (shown in the AMDR columns) are associated with a reduced risk of chronic disease while providing adequate intakes of essential nutrients. For further information on AMDR see the Health Canada publication *Canadian Community Health Survey*,

Cycle 2.2, Nutrition (2004)—A Guide to Accessing and Interpreting the Data, Section 2.1.5, p. 27.

The applications of the AMDRs for essential fatty acids to group assessment are not the same as for the other macronutrients. The lower boundaries for the AMDR for linoleic and alpha-linolenic acids are not based on the same type of endpoints as the boundaries for total fat and carbohydrate. The boundaries for fat and carbohydrate are set based on evidence indicating increased risk for coronary heart diseases and the lower bound of the AMDR for both n-6 (linoleic) and n-3 (alpha-linolenic) fatty acids is based on the percent of energy from these fatty acids needed to provide the AI for these nutrients. The AI, in turn, is based on the median intake of both linoleic and alpha-linolenic acid in the United States, where essential fatty acid deficiency is non-existent in the healthy population.

Thus, by definition about half the population has intakes of these fatty acids below the AI and therefore outside the AMDR. In other words, based on the AI, one would conclude that the population is "adequate" with respect to linoleic and alpha-linolenic acids, while based on the AMDR a different conclusion (i.e. that 50% of the population has intakes below the AMDR) would be reached. Therefore, the lower bound of the AMDRs for linoleic and alpha-linolenic acids should not be used in the assessment of population intakes.

- 9. EAR is the Estimated Average Requirement. The level of intake at the EAR (shown in the EAR columns) is the average daily intake level that is estimated to meet the requirement, as defined by the specified indicator of adequacy, in half of the apparently healthy individuals in a DRI age—sex group. For further information on EAR see the Health Canada publication *Canadian Community Health Survey, Cycle 2.2, Nutrition* (2004)—A Guide to Accessing and Interpreting the Data, Section 2.1.1, p. 23.
- 10. AI is the Adequate Intake. The level of intake at the AI (shown in the AI columns) is the recommended average daily intake level based on observed or experimentally determined approximations or estimates of nutrient intake by a group or groups of apparently healthy people that are assumed to be adequate. It is developed when an EAR cannot be determined. The percentage of the population having a usual intake above the AI (shown in the %>AI columns) almost certainly meets their needs. The adequacy of intakes below the AI cannot be assessed, and should not be interpreted as being inadequate. For further information on AI see the Health Canada

- publication Canadian Community Health Survey, Cycle 2.2, Nutrition (2004)— A Guide to Accessing and Interpreting the Data, Section 2.1.3, p. 25.
- 11. UL is the Tolerable Upper Intake Level. The level of intake at the UL (shown in the UL columns) is the highest average daily intake level that is likely to pose no risk of adverse health effects to almost all individuals in the general population. For further information on UL see the Health Canada publication *Canadian Community Health Survey, Cycle 2.2, Nutrition* (2004)—A Guide to Accessing and Interpreting the Data, Section 2.1.4, p. 26.
- 12. For a more detailed understanding of DRIs and their interpretation when assessing intakes of particular nutrients, consult the summary of the series of publications on DRIs published by the Institute of Medicine: *Dietary Reference Intakes: The Essential Guide to Nutrient Requirements*.
- 13. In terms of precision, the estimate 0.0 with a standard error of 0.0 refers to a standard error smaller than 0.1%.

Appendix B: Justification for Excluding Nutrients from Volume 2 and Volume 3

Volume 1 of the compendium contained data on 13 nutrients, including 6 nutrients expressed as a percent of total energy. There were originally 31 nutrients scheduled to be released in Volumes 2 and 3 of the compendium, but for a variety of reasons some of these nutrients are not included. Decisions to omit these nutrients were made jointly by representatives from Statistics Canada and Health Canada.

Exclusions and changes to the list of nutrients that were to be included in Volumes 2 and 3 of the compendium are as follows:

Total milligrams of folic acid

Folic acid is found in small amounts in a number of foods. Most respondents consumed a small amount of folic acid, which resulted in a bimodal distribution of folic acid intake. As a result, it was very difficult to normalize the distribution, which meant that SIDE was unable to calculate usual intake.

One of the steps that SIDE uses to estimate usual intake is to transform the data into a normal distribution. Assessing SIDE's ability to perform this transformation rests on measuring the Anderson-Darling (A-D) score for normality. The A-D score is a statistic that measures how close a distribution is to a normal distribution. Any A-D score less than 0.576 is considered to be sufficiently normal for SIDE to continue without warning. Typically, SIDE will be able to transform 95% of the domains without error using the default SIDE options. The remaining 5% of domains will typically score higher than 0.576 but usually less than 1.0. Adjusting the SIDE options will usually reduce the A-D to within the limit. In the case of folic acid, more than half of the provincial domains had an A-D score above the 0.576 threshold and many domains scored higher than 2. The nature of the data simply does not allow SIDE to produce proper estimates for the usual intake of folic acid.

Total grams of alcohol

Alcohol is consumed differently than other nutrients. For most respondents, alcohol is not part of their daily intake of food, but rather is something that is consumed occasionally. In this sense, in terms of analysis, alcohol behaves more like a food than a nutrient. In order for SIDE to estimate the usual intake of foods, many recalls are needed to capture enough occurrences of the particular food. Thus, two recalls are not enough to calculate the usual intake of alcohol.

Percent of energy from alcohol

The difficulty in estimating a usual intake for alcohol causes similar problems for expressing that intake as a percent of total energy.

Caffeine

Caffeine also is consumed differently than other nutrients. The usual intake of caffeine could not be calculated due to the same issues as folic acid and alcohol. Many respondents reported zero or small levels of caffeine intake. Therefore, it is difficult for SIDE to properly model the data with only two dietary recalls.

Based on the changes above, the list of nutrients included in Volume 1 and the revised list of nutrients included in Volumes 2 and 3 are as follows:

List of Nutrients Included in the Three-Volume Set						
Volume 1	Volume 2	Volume 3				
Total Energy	Folate (DFE)	Folacin				
Percentage of total energy intake from fats	Iron	Linolenic acid (g, % energy)				
Percentage of total energy intake from protein	Linoleic acid (g, % energy)	Moisture				
Percentage of total energy intake from carbohydrates	Magnesium	Naturally occurring folate				
Percentage of total energy intake from saturated fats	Niacin	Protein				
Percentage of total energy intake from monounsaturated fats	Phosphorus	Total carbohydrates				
Percentage of total energy intake from polyunsaturated fats	Potassium	Total fats				
Total dietary fibre	Riboflavin	Total monounsaturated fats				
Cholesterol	Thiamin	Total polyunsaturated fats				
Vitamin A	Vitamin B ₆	Total saturated fats				
Vitamin C	Vitamin B ₁₂	Total sugars				
Calcium	Vitamin C by smoking status					
Sodium	Vitamin D					
	Zinc					

Appendix C: References

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