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Canadian Community Health Survey Cycle 2.2, Nutrition (2004)

Nutrient Intakes from Food

Provincial, Regional and National Summary Data Tables
Volume 2

Revised February 2009

Note:

This PDF contains the 15 data tables for Manitoba as well as the Appendices.



Canada 

Table of Contents (for the full report)

	Acknowledgements	i
	List of Tables.....	iii
	List of Appendices	viii
	List of Abbreviations.....	ix
I	Introduction.....	1
II	Summary Data Tables	3
	<i>(table numbering continued from Volume 1)</i>	
	14. Folate (DFE/d): Usual intakes from food	3
	15. Iron (mg/d): Usual intakes from food	17
	16. Linoleic acid (g/d): Usual intakes from food	31
	17. Percentage of total energy intake from linoleic acid	45
	18. Magnesium (mg/d): Usual intakes from food	59
	19. Niacin (NE/d): Usual intakes from food	73
	20. Phosphorus (mg/d): Usual intakes from food.....	87
	21. Potassium (mg/d): Usual intakes from food.....	101
	22. Riboflavin (mg/d): Usual intakes from food	115
	23. Thiamin (mg/d): Usual intakes from food	129
	24. Vitamin B ₆ (mg/d): Usual intakes from food.....	143
	25. Vitamin B ₁₂ (µg/d): Usual intakes from food.....	157
	26. Vitamin C (mg/d): Usual intakes from food (by smoking status)....	171
	27. Vitamin D (µg/d): Usual intakes from food	175
	28. Zinc (mg/d): Usual intakes from food	189

List of Appendices

Appendix A: Table Footnotes	203
Appendix B: Iron Estimation.....	207
Appendix C: Justification for Excluding Nutrients from Volume 2 and Volume 3	209
List of Nutrients Included in the Three-Volume Set	210
Appendix D: References	211

Table 14.7 Folate (DFE/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake						EAR ²	% <EAR	(SE)							
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)				95th (SE)						
Both																				
	1-3	324	273	(16)	119	(17)	144	(17)	192	(16)	256	(16)	328	(22)	407	(31)	463	(40)	120	F
	4-8	425	360	(10)	245	(38)	268	(32)	308	(19)	355	(11)	406	(23)	456	(42)	488	(56)	160	<3
Male																				
	9-13	274	465	(17)	339	(15)	362	(15)	404	(16)	457	(18)	518	(21)	580	(25)	621	(28)	250	<3
	14-18	297	591	(27)	271	(41)	328	(39)	435	(32)	577	(30)	741	(47)	910	(74)	1021	(95)	330	F
	19-30	249	635	(55)	410	(35)	452	(39)	529	(46)	629	(56)	750	(70)	881	(89)	972	(103)	320	<3
	31-50	309	499	(24)	347	(50)	376	(43)	428	(32)	492	(28)	564	(40)	634	(61)	679	(75)	320	F
	51-70	277	466	(22)	266	(46) ^E	300	(42)	365	(34)	451	(27)	554	(34)	663	(57)	736	(78)	320	F
	>70	136	391	(25)	185	(31)	216	(30)	283	(26)	373	(26)	470	(34)	572	(52)	647	(69)	320	34.8 (8.1) ^E
	19+	971	510	(17)	318	(36)	353	(32)	417	(26)	501	(20)	604	(28)	715	(50)	792	(68)	320	F
Female																				
	9-13	265	394	(19)	300	(17)	315	(18)	341	(18)	371	(19)	402	(21)	432	(22)	450	(23)	250	<3
	14-18	290	424	(23)	314	(50)	335	(43)	372	(37)	417	(25)	466	(46)	513	(64)	543	(79)	330	F
	19-30	197	428	(34)	284	(29)	313	(31)	363	(35)	422	(40)	485	(45)	545	(50)	581	(53)	320	F
	31-50	312	408	(19)	308	(41)	326	(35)	357	(27)	394	(22)	435	(30)	474	(45)	498	(57)	320	F
	51-70	312	391	(19)	248	(40)	272	(36)	318	(29)	378	(24)	448	(29)	520	(45)	569	(59)	320	F
	>70	239	312	(17)	253	(45) ^E	266	(39)	290	(29)	319	(17)	349	(40)	379	(96) ^E	F		320	51.1 (13.7) ^E
	19+	1060	393	(11)	265	(28)	289	(24)	333	(17)	387	(13)	446	(20)	506	(33)	544	(43)	320	F

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 15.7 Iron (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake							EAR ²	% Inad-equacy (<i>SE</i>)	UL ³	% >UL (<i>SE</i>)							
		n	Mean	(<i>SE</i>)	5th (<i>SE</i>)	10th (<i>SE</i>)	25th (<i>SE</i>)	50th (<i>SE</i>)	75th (<i>SE</i>)	90th (<i>SE</i>)	95th (<i>SE</i>)											
Both																						
	1-3	324	9.5	(0.4)	5.0	(0.8)	5.8	(0.7)	7.4	(0.6)	9.4	(0.5)	11.7	(0.6)	14.0	(1.0)	15.6	(1.3)	3.0	^F	40	<3
	4-8	425	12.2	(0.6)	9.8	(0.5)	10.2	(0.5)	11.0	(0.6)	12.0	(0.6)	13.0	(0.7)	14.0	(0.7)	14.7	(0.8)	4.1	<3	40	0.0 (0.0)
Male																						
	9-13	274	15.5	(0.6)	13.0	(1.6)	13.5	(1.4)	14.4	(1.0)	15.5	(0.7)	16.7	(0.8)	17.8	(1.3)	18.4	(1.8)	5.9	<3	40	0.0 (0.0)
	14-18	297	19.1	(0.8)	10.2	(1.2)	11.7	(1.1)	14.5	(1.1)	18.4	(1.0)	23.1	(1.2)	28.2	(1.6)	31.6	(2.0)	7.7	^F	45	<3
	19-30	249	18.6	(1.5)	10.8	(0.8)	12.1	(0.9)	14.4	(1.0)	17.5	(1.3)	21.6	(1.8)	26.2	(2.5)	29.4	(3.0)	6.0	<3	45	<3
	31-50	309	14.6	(0.7)	8.2	(1.1)	9.3	(1.0)	11.4	(0.9)	14.2	(0.8)	17.3	(1.1)	20.6	(1.5)	22.7	(1.9)	6.0	<3	45	<3
	51-70	277	15.2	(0.6)	9.5	(1.1)	10.5	(1.0)	12.4	(0.8)	14.9	(0.7)	17.7	(0.9)	20.6	(1.5)	22.6	(2.0)	6.0	<3	45	<3
	>70	136	13.5	(0.9)	6.1	(1.2) ^E	7.3	(1.1)	9.5	(1.0)	12.4	(0.9)	16.4	(1.3)	20.7	(2.1)	23.4	(2.6)	6.0	^F	45	<3
	19+	971	15.5	(0.5)	9.1	(0.9)	10.2	(0.8)	12.3	(0.6)	15.0	(0.5)	18.2	(0.7)	21.7	(1.2)	24.2	(1.6)	6.0	<3	45	<3
Female																						
	9-13	265	12.9	(0.6)	7.9	(1.3)	8.8	(1.1)	10.5	(0.8)	12.5	(0.6)	14.6	(0.9)	17.0	(1.5)	18.7	(2.1)	5.7	^F	40	<3
	14-18	290	13.1	(1.0)	8.5	(1.5) ^E	9.3	(1.3)	10.8	(1.1)	12.7	(0.9)	15.0	(1.3)	17.5	(2.1)	19.3	(2.8)	7.7	^F	45	<3
	19-30	197	13.4	(1.3)	9.1	(1.5)	9.9	(1.4)	11.2	(1.2)	12.9	(1.2)	14.9	(1.6)	16.9	(2.3)	18.3	(2.8)	7.7	^F	45	0.0 (0.0)
	31-50	312	12.6	(0.6)	8.7	(1.2)	9.4	(1.1)	10.8	(0.8)	12.5	(0.7)	14.2	(0.8)	16.0	(1.4)	17.2	(1.9)	7.7	13.8 (3.6) ^E	45	0.0 (0.0)
	51-70	312	11.8	(0.5)	7.7	(0.7)	8.4	(0.6)	9.6	(0.5)	11.2	(0.5)	13.1	(0.7)	15.3	(1.0)	16.7	(1.3)	5.0	<3	45	0.0 (0.0)
	>70	239	10.2	(0.5)	5.8	(0.9)	6.6	(0.8)	8.1	(0.6)	10.0	(0.5)	12.2	(0.7)	14.5	(1.2)	16.0	(1.5)	5.0	^F	45	0.0 (0.0)
	19+	1060	12.2	(0.3)	6.9	(0.5)	7.8	(0.5)	9.6	(0.4)	11.7	(0.3)	14.2	(0.5)	16.9	(0.9)	19.0	(1.2)			45	0.0 (0.0)

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. Comparisons to the EAR are determined using the probability approach. For additional detail, see Appendix B.

³ UL is the Tolerable Upper Intake Level. For additional detail, see footnote 11 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 16.7 Linoleic acid (g/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake							AI ²	% >AI	(SE)							
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)										
Both																					
	1-3	324	5.2	(0.3)	2.4	(0.5) ^E	2.9	(0.5)	3.8	(0.4)	4.9	(0.4)	6.2	(0.4)	7.7	(0.7)	8.8	(0.9)	7	F	
	4-8	425	8.4	(0.3)	4.8	(0.9) ^E	5.4	(0.8)	6.5	(0.6)	8.1	(0.4)	10.0	(0.5)	12.1	(1.1)	13.7	(1.6)	10	24.7	(7.4) ^E
Male																					
	9-13	274	11.5	(0.7)	6.0	(1.4) ^E	6.9	(1.2) ^E	8.7	(1.0)	11.1	(0.8)	14.1	(1.0)	17.4	(1.7)	19.9	(2.4)	12	41.1	(9.6) ^E
	14-18	297	14.4	(0.9)	6.8	(1.6) ^E	8.2	(1.4) ^E	10.7	(1.2)	13.9	(1.1)	17.8	(1.4)	22.2	(2.3)	25.4	(3.1)	16	34.9	(8.5) ^E
	19-30	249	15.5	(1.2)	8.9	(0.7)	10.0	(0.8)	12.1	(1.1)	15.3	(1.4)	19.4	(1.7)	23.7	(2.2)	26.6	(2.6)	17	38.3	(10.8) ^E
	31-50	309	11.4	(0.8)	6.7	(0.7)	7.5	(0.7)	9.1	(0.8)	11.2	(1.0)	13.7	(1.3)	16.5	(1.8)	18.5	(2.2)	17	F	
	51-70	277	10.8	(0.6)	6.6	(1.3) ^E	7.4	(1.2)	8.8	(1.0)	10.6	(0.8)	12.5	(1.0)	14.4	(1.6)	15.7	(2.1)	14	F	
	>70	136	9.2	(0.8)	4.6	(0.8) ^E	5.2	(0.7)	6.5	(0.7)	8.2	(0.7)	10.5	(1.0)	13.0	(1.6)	14.8	(2.1)	14	F	
	19+	971	11.9	(0.5)	6.8	(1.4) ^E	7.7	(1.3) ^E	9.4	(1.0)	11.7	(0.6)	14.6	(0.8)	17.8	(1.7)	20.1	(2.5)			
Female																					
	9-13	265	9.2	(0.4)	5.4	(0.9)	6.0	(0.8)	7.2	(0.6)	8.5	(0.5)	10.1	(0.7)	11.8	(1.1)	12.9	(1.4)	10	F	
	14-18	290	9.8	(0.8)	5.4	(1.3) ^E	6.1	(1.1) ^E	7.6	(0.9)	9.6	(0.7)	12.0	(1.0)	14.6	(1.8)	16.4	(2.4)	11	F	
	19-30	197	9.0	(0.8)	5.4	(0.6)	6.1	(0.6)	7.2	(0.7)	8.7	(0.8)	10.4	(0.9)	12.1	(1.1)	13.2	(1.1)	12	F	
	31-50	312	9.0	(0.5)	5.4	(0.4)	6.0	(0.4)	7.2	(0.5)	8.9	(0.6)	10.8	(0.8)	12.9	(0.9)	14.3	(1.0)	12	F	
	51-70	312	8.1	(0.4)	4.2	(0.6)	4.8	(0.6)	6.0	(0.5)	7.7	(0.5)	9.7	(0.7)	12.0	(1.1)	13.6	(1.4)	11	F	
	>70	239	7.0	(0.4)	4.1	(0.8) ^E	4.6	(0.7)	5.4	(0.6)	6.6	(0.5)	7.9	(0.6)	9.2	(1.0)	10.2	(1.3)	11	F	
	19+	1060	8.4	(0.3)	5.1	(0.7)	5.7	(0.6)	6.8	(0.4)	8.2	(0.3)	9.9	(0.5)	11.6	(0.9)	12.8	(1.2)			

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 AI is the Adequate Intake. For additional detail, see footnote 10 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 17.7 Percentage of total energy intake from linoleic acid, by DRI age–sex group, household population, Manitoba, 2004^{1,2}

Sex	Age (years)	n	Mean (SE)	Percentiles (<i>and SE</i>) of usual intake						
				5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)
Both										
	1-3	324	3.3 (0.1)	2.0 (0.3)	2.2 (0.3)	2.6 (0.2)	3.2 (0.1)	3.7 (0.2)	4.3 (0.3)	4.7 (0.4)
	4-8	425	4.0 (0.2)	3.1 (0.4)	3.3 (0.4)	3.6 (0.3)	4.1 (0.2)	4.6 (0.3)	5.1 (0.4)	5.4 (0.6)
Male										
	9-13	274	4.3 (0.2)	2.9 (0.5)	3.1 (0.4)	3.6 (0.3)	4.2 (0.2)	4.9 (0.3)	5.6 (0.4)	6.0 (0.6)
	14-18	297	4.1 (0.1)	3.1 (0.3)	3.3 (0.3)	3.6 (0.2)	4.0 (0.2)	4.4 (0.2)	4.8 (0.3)	5.1 (0.4)
	19-30	249	4.8 (0.2)	4.2 (0.2)	4.3 (0.2)	4.6 (0.2)	4.9 (0.2)	5.3 (0.3)	5.6 (0.3)	5.8 (0.3)
	31-50	309	4.3 (0.2)	3.6 (0.7) ^E	3.8 (0.6)	4.0 (0.4)	4.3 (0.3)	4.7 (0.5)	5.0 (1.0) ^E	5.3 (1.4) ^E
	51-70	277	4.5 (0.2)	3.4 (0.2)	3.7 (0.2)	4.0 (0.2)	4.5 (0.2)	5.0 (0.2)	5.5 (0.3)	5.8 (0.3)
	>70	136	4.6 (0.2)	2.6 (0.4)	2.9 (0.4)	3.6 (0.3)	4.4 (0.3)	5.4 (0.3)	6.4 (0.5)	7.1 (0.6)
	19+	971	4.5 (0.1)	3.4 (0.4)	3.6 (0.3)	4.0 (0.2)	4.5 (0.1)	5.1 (0.2)	5.6 (0.4)	6.0 (0.5)
Female										
	9-13	265	4.1 (0.2)	2.9 (0.2)	3.1 (0.2)	3.5 (0.2)	3.9 (0.2)	4.4 (0.2)	4.9 (0.3)	5.2 (0.3)
	14-18	290	4.3 (0.1)	3.2 (0.4)	3.4 (0.3)	3.8 (0.2)	4.2 (0.2)	4.6 (0.3)	5.1 (0.4)	5.4 (0.5)
	19-30	197	3.8 (0.2)	3.0 (0.2)	3.2 (0.2)	3.5 (0.2)	3.9 (0.2)	4.3 (0.2)	4.7 (0.3)	5.0 (0.3)
	31-50	312	4.3 (0.2)	3.3 (0.2)	3.5 (0.2)	3.9 (0.2)	4.3 (0.2)	4.8 (0.2)	5.3 (0.2)	5.6 (0.3)
	51-70	312	4.4 (0.2)	2.8 (0.3)	3.0 (0.3)	3.5 (0.3)	4.3 (0.3)	5.1 (0.4)	6.0 (0.6)	6.6 (0.7)
	>70	239	4.3 (0.2)	3.1 (0.4)	3.3 (0.3)	3.7 (0.2)	4.1 (0.2)	4.5 (0.3)	4.9 (0.4)	5.1 (0.6)
	19+	1060	4.2 (0.1)	2.9 (0.3)	3.2 (0.2)	3.6 (0.2)	4.2 (0.1)	4.8 (0.2)	5.4 (0.3)	5.8 (0.4)

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 AMDR is the Acceptable Macronutrient Distribution Range. For additional detail, see footnote 8 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 18.7 Magnesium (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake						EAR ²	% <EAR (SE)	
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)		95th (SE)	
Both													
	1-3	324	205	(6)	128 (14)	143 (12)	170 (9)	206 (7)	246 (9)	283 (14)	309 (20)	65	<3
	4-8	425	233	(8)	155 (14)	167 (12)	192 (10)	224 (9)	263 (12)	305 (20)	333 (26)	110	<3
Male													
	9-13	274	295	(9)	198 (23)	217 (19)	252 (14)	292 (11)	336 (13)	378 (20)	405 (25)	200	^F
	14-18	297	364	(16)	183 (18)	214 (17)	274 (16)	352 (18)	444 (24)	543 (34)	609 (42)	340	46.1 (5.9)
	19-30	249	376	(26)	248 (43) ^E	270 (38)	311 (29)	363 (24)	422 (33)	480 (52)	518 (66)	330	^F
	31-50	309	334	(15)	204 (24)	229 (22)	273 (19)	326 (16)	385 (26)	447 (33)	488 (39)	350	61.2 (8.1)
	51-70	277	327	(12)	196 (22)	219 (20)	262 (16)	316 (14)	379 (18)	444 (28)	486 (35)	350	64.6 (6.7)
	>70	136	309	(18)	205 (29)	224 (26)	259 (20)	301 (19)	348 (26)	394 (39)	424 (49)	350	75.9 (11.2)
	19+	971	339	(9)	205 (16)	229 (15)	274 (12)	329 (10)	389 (13)	450 (20)	494 (26)		
	Female												
9-13		265	246	(10)	143 (18)	163 (16)	197 (13)	238 (12)	285 (17)	334 (25)	368 (31)	200	26.8 (8.3) ^E
14-18		290	255	(12)	163 (20)	180 (18)	210 (15)	247 (14)	291 (17)	339 (27)	373 (35)	300	78.7 (8.0)
19-30		197	289	(18)	181 (29)	203 (26)	242 (22)	291 (21)	345 (27)	397 (37)	430 (46)	255	^F
31-50		312	295	(11)	182 (17)	204 (16)	243 (14)	287 (13)	339 (18)	400 (27)	444 (33)	265	36.7 (7.7) ^E
51-70		312	298	(16)	190 (28)	208 (25)	241 (21)	284 (17)	334 (18)	387 (28)	422 (37)	265	38.8 (12.3) ^E
>70		239	260	(12)	143 (15)	162 (14)	199 (12)	250 (12)	314 (15)	385 (24)	435 (32)	265	56.9 (5.8)
19+		1060	290	(7)	169 (9)	190 (8)	230 (7)	279 (8)	340 (10)	407 (14)	452 (18)		

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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. 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.

For additional footnotes common to all tables, see Appendix A.

Table 19.7 Niacin (NE/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake						EAR ²	% <EAR	(SE)	
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)				95th (SE)
Both														
	1-3	324	22.0	(0.9)	14.1 (1.4)	15.6 (1.3)	18.3 (1.1)	21.6 (1.0)	25.5 (1.3)	29.8 (2.1)	32.9 (2.8)	5	<3	
	4-8	425	27.5	(1.3)	21.2 (2.8)	22.5 (2.4)	24.6 (1.9)	27.3 (1.4)	30.3 (1.7)	33.4 (2.8)	35.4 (3.8)	6	0.0	(0.0)
Male														
	9-13	274	36.3	(1.0)	25.5 (3.0)	27.8 (2.5)	31.8 (1.8)	36.5 (1.4)	41.6 (1.9)	46.9 (3.1)	50.3 (4.0)	9	<3	
	14-18	297	47.5	(1.6)	26.4 (2.6)	30.2 (2.4)	37.1 (2.1)	46.0 (2.1)	57.2 (2.5)	69.1 (3.3)	76.9 (4.1)	12	<3	
	19-30	249	51.3	(3.2)	36.8 (6.8) ^E	39.4 (6.1)	44.1 (4.7)	49.9 (3.4)	56.1 (4.6)	62.2 (8.0)	66.0 (10.6)	12	<3	
	31-50	309	44.1	(2.5)	26.5 (4.1)	29.7 (3.6)	35.4 (2.7)	41.8 (2.4)	49.3 (3.3)	58.2 (5.4)	64.7 (7.3)	12	<3	
	51-70	277	42.1	(1.3)	26.2 (2.2)	29.0 (2.0)	34.0 (1.7)	40.4 (1.6)	48.3 (2.0)	56.5 (2.9)	61.7 (3.6)	12	<3	
	>70	136	37.5	(2.5)	16.9 (4.7) ^E	20.1 (4.2) ^E	26.6 (3.3)	35.2 (2.8)	45.8 (4.6)	57.7 (7.3)	65.3 (9.3)	12	^F	
	19+	971	44.5	(1.2)	26.9 (2.2)	29.6 (2.1)	35.2 (1.8)	42.9 (1.3)	50.7 (1.7)	60.0 (2.8)	66.0 (3.7)	12	<3	
Female														
	9-13	265	31.2	(1.6)	22.2 (3.4)	24.0 (2.9)	27.0 (2.3)	30.6 (1.9)	34.6 (2.3)	38.7 (3.5)	41.4 (4.6)	9	<3	
	14-18	290	32.0	(1.2)	24.1 (2.9)	25.7 (2.4)	28.5 (1.7)	31.7 (1.4)	35.0 (2.2)	38.1 (3.3)	40.1 (4.1)	11	<3	
	19-30	197	35.0	(2.5)	22.3 (2.0)	24.7 (2.1)	29.1 (2.3)	34.3 (2.5)	39.9 (2.7)	45.0 (3.0)	48.1 (3.2)	11	<3	
	31-50	312	36.3	(1.6)	22.3 (3.2)	25.0 (2.8)	29.3 (2.2)	35.0 (1.9)	41.8 (2.6)	48.3 (4.0)	52.9 (5.2)	11	<3	
	51-70	312	33.4	(1.7)	22.5 (2.9)	24.5 (2.6)	28.1 (2.2)	32.7 (1.9)	37.9 (2.3)	43.3 (3.4)	46.8 (4.4)	11	<3	
	>70	239	26.4	(1.2)	16.5 (2.5)	18.3 (2.2)	21.6 (1.7)	26.0 (1.2)	31.0 (1.7)	36.3 (2.9)	39.7 (3.8)	11	<3	
	19+	1060	33.8	(0.9)	19.9 (1.4)	22.3 (1.3)	26.8 (1.1)	32.7 (1.0)	39.5 (1.4)	46.5 (2.2)	51.2 (2.8)	11	<3	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 20.7 Phosphorus (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)	n	Mean	(SE)	Percentiles (<i>and SE</i>) of usual intake						EAR ²	% <EAR		UL ³	% >UL	
					5th (<i>SE</i>)	10th (<i>SE</i>)	25th (<i>SE</i>)	50th (<i>SE</i>)	75th (<i>SE</i>)	90th (<i>SE</i>)		95th (<i>SE</i>)	(<i>SE</i>)		(<i>SE</i>)	
Both																
	1-3	324	1062	(43)	629	709	860	1053	1276	1504	1653	380	<3	3000	0.0	(0.0)
	4-8	425	1194	(44)	877	938	1046	1176	1317	1453	1538	405	<3	3000	0.0	(0.0)
Male																
	9-13	274	1494	(41)	933	1041	1231	1465	1731	1996	2163	1055	F	4000	0.0	(0.0)
	14-18	297	1900	(97)	868	1040	1378	1837	2394	2989	3390	1055	F	4000	F	
	19-30	249	1831	(161)	1055	1183	1430	1726	2069	2422	2662	580	<3	4000	F	
	31-50	309	1418	(58)	860	961	1147	1378	1635	1891	2055	580	<3	4000	0.0	(0.0)
	51-70	277	1308	(55)	693	793	974	1222	1556	1931	2177	580	F	4000	<3	
	>70	136	1214	(67)	600	695	878	1131	1450	1775	1970	580	F	3000	<3	
	19+	971	1462	(47)	791	894	1091	1368	1712	2079	2332	580	<3			
Female																
	9-13	265	1283	(55)	707	805	989	1221	1489	1787	2000	1055	31.8	4000	<3	
	14-18	290	1189	(54)	738	822	970	1151	1356	1568	1712	1055	36.4	4000	0.0	(0.0)
	19-30	197	1289	(77)	777	876	1057	1284	1541	1801	1972	580	F	4000	<3	
	31-50	312	1192	(51)	668	755	920	1139	1392	1654	1833	580	F	4000	0.0	(0.0)
	51-70	312	1208	(79)	710	791	945	1145	1382	1638	1817	580	F	4000	<3	
	>70	239	1003	(51)	531	606	756	963	1223	1515	1721	580	F	3000	<3	
	19+	1060	1188	(33)	631	725	904	1134	1415	1725	1943	580	F			

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

³ UL is the Tolerable Upper Intake Level. For additional detail, see footnote 11 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 21.7 Potassium (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake						AI ²	% >AI	(SE)								
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)				95th (SE)							
Both																					
	1-3	324	2233	(63)	1170	(122)	1378	(113)	1747	(99)	2198	(82)	2717	(134)	3262	(163)	3630	(196)	3000	15.8	(3.6) ^E
	4-8	425	2334	(87)	1658	(186)	1781	(162)	2006	(124)	2288	(103)	2608	(140)	2932	(218)	3144	(279)	3800	<3	
Male																					
	9-13	274	2841	(119)	1880	(257)	2072	(219)	2410	(159)	2805	(126)	3218	(173)	3611	(260)	3859	(323)	4500	<3	
	14-18	297	3697	(142)	1982	(225)	2309	(210)	2900	(183)	3649	(168)	4543	(207)	5500	(302)	6148	(398)	4700	21.7	(4.4) ^E
	19-30	249	3695	(322)	2093	(158)	2351	(173)	2817	(204)	3403	(250)	4110	(326)	4892	(437)	5429	(523)	4700	F	
	31-50	309	3190	(137)	2068	(269)	2288	(236)	2670	(188)	3139	(166)	3673	(194)	4201	(274)	4534	(352)	4700	F	
	51-70	277	3204	(108)	2030	(232)	2238	(209)	2635	(165)	3143	(130)	3690	(177)	4214	(303)	4554	(429)	4700	F	
	>70	136	3012	(190)	1936	(339) ^E	2133	(300)	2488	(225)	2933	(197)	3431	(329)	3917	(490)	4216	(577)	4700	F	
	19+	971	3291	(96)	2026	(177)	2254	(159)	2669	(125)	3180	(100)	3753	(125)	4346	(203)	4750	(277)	4700	F	
Female																					
	9-13	265	2435	(125)	1444	(206)	1641	(183)	1985	(153)	2376	(146)	2771	(175)	3141	(230)	3378	(278)	4500	<3	
	14-18	290	2464	(105)	1357	(162)	1561	(149)	1914	(133)	2332	(133)	2834	(159)	3416	(223)	3829	(286)	4700	<3	
	19-30	197	2742	(158)	1922	(319) ^E	2092	(288)	2406	(239)	2785	(198)	3182	(277)	3556	(347)	3782	(403)	4700	F	
	31-50	312	2725	(108)	1706	(129)	1892	(119)	2223	(113)	2635	(123)	3133	(159)	3707	(242)	4134	(334)	4700	F	
	51-70	312	2944	(153)	1983	(262)	2149	(236)	2455	(192)	2838	(159)	3272	(189)	3710	(283)	3996	(358)	4700	F	
	>70	239	2449	(102)	1308	(88)	1498	(91)	1869	(97)	2373	(108)	2991	(130)	3663	(169)	4126	(212)	4700	F	
	19+	1060	2749	(69)	1618	(79)	1820	(72)	2188	(68)	2659	(75)	3221	(100)	3828	(146)	4248	(190)	4700	F	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 AI is the Adequate Intake. For additional detail, see footnote 10 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 22.7 Riboflavin (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake							EAR ²	% <EAR	(SE)
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)			
Both														
	1-3	324	1.79	(0.07)	0.99 (0.11)	1.14 (0.10)	1.43 (0.08)	1.76 (0.08)	2.15 (0.13)	2.61 (0.21)	2.94 (0.27)	0.4	<3	
	4-8	425	1.99	(0.11)	1.24 (0.05)	1.36 (0.06)	1.59 (0.07)	1.89 (0.10)	2.28 (0.15)	2.72 (0.24)	3.06 (0.33)	0.5	0.0	(0.0)
Male														
	9-13	274	2.40	(0.09)	1.56 (0.08)	1.71 (0.08)	1.99 (0.09)	2.34 (0.11)	2.75 (0.14)	3.18 (0.18)	3.48 (0.22)	0.8	<3	
	14-18	297	2.91	(0.15)	1.22 (0.15)	1.47 (0.16)	1.99 (0.17)	2.77 (0.17)	3.72 (0.23)	4.89 (0.37)	5.79 (0.51)	1.1	F	
	19-30	249	2.55	(0.21)	1.19 (0.27) ^E	1.38 (0.25) ^E	1.76 (0.21)	2.29 (0.17)	2.97 (0.25)	3.76 (0.43)	4.33 (0.59)	1.1	F	
	31-50	309	2.07	(0.11)	1.29 (0.21) ^E	1.43 (0.19)	1.68 (0.15)	2.00 (0.12)	2.42 (0.19)	2.87 (0.32)	3.16 (0.42)	1.1	F	
	51-70	277	1.92	(0.09)	1.13 (0.13)	1.27 (0.12)	1.52 (0.10)	1.85 (0.10)	2.26 (0.12)	2.72 (0.20)	3.05 (0.28)	1.1	F	
	>70	136	1.88	(0.14)	0.85 (0.17) ^E	1.00 (0.16)	1.31 (0.13)	1.74 (0.14)	2.29 (0.22)	2.90 (0.34)	3.34 (0.43)	1.1	F	
	19+	971	2.12	(0.07)	1.11 (0.08)	1.27 (0.07)	1.56 (0.07)	1.98 (0.07)	2.51 (0.10)	3.11 (0.15)	3.54 (0.21)	1.1	F	
Female														
	9-13	265	2.03	(0.14)	1.25 (0.15)	1.37 (0.13)	1.59 (0.10)	1.86 (0.09)	2.19 (0.14)	2.54 (0.23)	2.80 (0.33)	0.8	<3	
	14-18	290	1.85	(0.09)	1.25 (0.19)	1.36 (0.17)	1.55 (0.13)	1.79 (0.10)	2.07 (0.13)	2.37 (0.22)	2.58 (0.30)	0.9	<3	
	19-30	197	1.91	(0.15)	1.08 (0.23) ^E	1.23 (0.21) ^E	1.50 (0.18)	1.88 (0.17)	2.30 (0.23)	2.70 (0.33)	2.97 (0.42)	0.9	F	
	31-50	312	1.68	(0.07)	0.95 (0.09)	1.08 (0.09)	1.34 (0.08)	1.61 (0.08)	1.91 (0.11)	2.27 (0.16)	2.53 (0.20)	0.9	F	
	51-70	312	1.77	(0.12)	1.15 (0.17)	1.25 (0.15)	1.44 (0.13)	1.70 (0.11)	2.01 (0.16)	2.37 (0.27)	2.62 (0.37)	0.9	<3	
	>70	239	1.42	(0.07)	0.79 (0.14) ^E	0.90 (0.13)	1.11 (0.10)	1.39 (0.07)	1.75 (0.11)	2.15 (0.20)	2.43 (0.29)	0.9	F	
	19+	1060	1.71	(0.05)	0.93 (0.06)	1.07 (0.06)	1.31 (0.05)	1.62 (0.05)	2.01 (0.07)	2.49 (0.13)	2.84 (0.18)	0.9	F	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

Symbol Legend

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<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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 23.7 Thiamin (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake							EAR ²	% <EAR	(SE)
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)			
Both														
	1-3	324	1.18	(0.05)	0.71 (0.09)	0.80 (0.08)	0.95 (0.06)	1.16 (0.06)	1.40 (0.08)	1.66 (0.11)	1.82 (0.14)	0.4	<3	
	4-8	425	1.50	(0.06)	0.97 (0.05)	1.06 (0.05)	1.23 (0.06)	1.46 (0.07)	1.72 (0.08)	2.00 (0.11)	2.19 (0.14)	0.5	0.0	(0.0)
Male														
	9-13	274	1.95	(0.11)	1.44 (0.22)	1.53 (0.20)	1.71 (0.15)	1.93 (0.13)	2.17 (0.16)	2.42 (0.24)	2.57 (0.30)	0.7	<3	
	14-18	297	2.35	(0.12)	1.20 (0.19)	1.40 (0.18)	1.78 (0.16)	2.30 (0.15)	2.92 (0.18)	3.59 (0.26)	4.04 (0.33)	1.0	F	
	19-30	249	2.38	(0.19)	1.49 (0.29) ^E	1.63 (0.25)	1.90 (0.19)	2.25 (0.15)	2.65 (0.22)	3.07 (0.37)	3.34 (0.48)	1.0	<3	
	31-50	309	1.78	(0.12)	1.21 (0.18)	1.32 (0.16)	1.51 (0.13)	1.75 (0.13)	2.03 (0.17)	2.31 (0.26)	2.49 (0.32)	1.0	F	
	51-70	277	1.80	(0.08)	0.92 (0.13)	1.05 (0.12)	1.33 (0.10)	1.70 (0.09)	2.16 (0.12)	2.67 (0.20)	3.02 (0.26)	1.0	F	
	>70	136	1.81	(0.16)	0.95 (0.20) ^E	1.08 (0.19) ^E	1.33 (0.16)	1.68 (0.14)	2.12 (0.20)	2.61 (0.33)	2.95 (0.44)	1.0	F	
	19+	971	1.93	(0.07)	1.09 (0.13)	1.23 (0.12)	1.49 (0.09)	1.83 (0.07)	2.25 (0.10)	2.70 (0.18)	3.02 (0.25)	1.0	F	
Female														
	9-13	265	1.58	(0.08)	0.99 (0.18) ^E	1.09 (0.15)	1.28 (0.11)	1.51 (0.07)	1.77 (0.11)	2.03 (0.21)	2.20 (0.28)	0.7	<3	
	14-18	290	1.62	(0.13)	1.32 (0.30) ^E	1.39 (0.28) ^E	1.53 (0.23)	1.69 (0.18)	1.88 (0.20)	2.07 (0.34)	2.20 (0.49) ^E	0.9	F	
	19-30	197	1.60	(0.15)	0.92 (0.11)	1.04 (0.12)	1.27 (0.14)	1.55 (0.17)	1.89 (0.21)	2.26 (0.26)	2.50 (0.30)	0.9	F	
	31-50	312	1.41	(0.07)	0.89 (0.14)	0.97 (0.12)	1.14 (0.09)	1.36 (0.08)	1.63 (0.12)	1.92 (0.20)	2.13 (0.27)	0.9	F	
	51-70	312	1.41	(0.07)	0.90 (0.11)	0.98 (0.10)	1.14 (0.09)	1.35 (0.08)	1.61 (0.10)	1.86 (0.15)	2.03 (0.19)	0.9	F	
	>70	239	1.30	(0.07)	0.69 (0.13) ^E	0.78 (0.12)	0.96 (0.10)	1.22 (0.08)	1.56 (0.10)	1.95 (0.19)	2.23 (0.27)	0.9	F	
	19+	1060	1.43	(0.05)	0.84 (0.06)	0.94 (0.06)	1.13 (0.05)	1.38 (0.05)	1.67 (0.07)	1.99 (0.11)	2.22 (0.15)	0.9	F	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 24.7 Vitamin B₆ (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)	n	Mean (SE)	Percentiles (<i>and SE</i>) of usual intake							EAR ²	% <EAR (SE)		UL ³	% >UL (SE)	
				5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)						
Both																
	1-3	324	1.20 (0.05)	0.72 (0.04)	0.80 (0.04)	0.96 (0.05)	1.18 (0.06)	1.44 (0.07)	1.71 (0.09)	1.89 (0.10)	0.4	<3		30	0.0 (0.0)	
	4-8	425	1.34 (0.07)	0.87 (0.06)	0.95 (0.06)	1.10 (0.07)	1.29 (0.08)	1.51 (0.08)	1.74 (0.09)	1.88 (0.10)	0.5	0.0 (0.0)		40	0.0 (0.0)	
Male																
	9-13	274	1.64 (0.08)	1.11 (0.15)	1.21 (0.13)	1.40 (0.11)	1.63 (0.10)	1.88 (0.12)	2.12 (0.18)	2.28 (0.23)	0.8	<3		60	0.0 (0.0)	
	14-18	297	2.07 (0.09)	1.00 (0.13)	1.18 (0.12)	1.54 (0.11)	2.00 (0.10)	2.55 (0.12)	3.13 (0.17)	3.51 (0.21)	1.1	F		80	0.0 (0.0)	
	19-30	249	2.24 (0.17)	1.45 (0.29) ^E	1.58 (0.26) ^E	1.82 (0.21)	2.11 (0.17)	2.44 (0.20)	2.77 (0.30)	2.98 (0.39)	1.1	F		100	0.0 (0.0)	
	31-50	309	1.92 (0.13)	1.18 (0.20)	1.30 (0.17)	1.53 (0.14)	1.82 (0.12)	2.16 (0.16)	2.53 (0.27)	2.78 (0.37)	1.1	F		100	0.0 (0.0)	
	51-70	277	1.88 (0.07)	1.12 (0.15)	1.26 (0.13)	1.51 (0.10)	1.83 (0.08)	2.17 (0.11)	2.52 (0.16)	2.74 (0.21)	1.4	F		100	0.0 (0.0)	
	>70	136	1.81 (0.13)	0.95 (0.13)	1.11 (0.13)	1.39 (0.12)	1.75 (0.14)	2.18 (0.18)	2.65 (0.25)	2.98 (0.33)	1.4	25.4 (8.3) ^E		100	0.0 (0.0)	
	19+	971	1.97 (0.06)	1.14 (0.12)	1.27 (0.11)	1.54 (0.09)	1.88 (0.07)	2.25 (0.09)	2.66 (0.14)	2.93 (0.19)				100	0.0 (0.0)	
Female																
	9-13	265	1.40 (0.08)	1.09 (0.19) ^E	1.15 (0.16)	1.25 (0.12)	1.37 (0.09)	1.51 (0.13)	1.63 (0.21)	1.71 (0.28)	0.8	F		60	0.0 (0.0)	
	14-18	290	1.40 (0.07)	0.70 (0.13) ^E	0.82 (0.11)	1.03 (0.09)	1.30 (0.09)	1.60 (0.14)	1.90 (0.20)	2.09 (0.25)	1.0	F		80	0.0 (0.0)	
	19-30	197	1.69 (0.14)	1.38 (0.30) ^E	1.45 (0.27) ^E	1.58 (0.21)	1.72 (0.17)	1.87 (0.20)	2.02 (0.30)	2.10 (0.38) ^E	1.1	F		100	0.0 (0.0)	
	31-50	312	1.61 (0.07)	0.95 (0.18) ^E	1.09 (0.15)	1.33 (0.11)	1.59 (0.08)	1.87 (0.11)	2.18 (0.19)	2.41 (0.26)	1.1	F		100	0.0 (0.0)	
	51-70	312	1.67 (0.08)	1.14 (0.17)	1.23 (0.16)	1.40 (0.13)	1.61 (0.10)	1.84 (0.11)	2.05 (0.16)	2.19 (0.20)	1.3	F		100	0.0 (0.0)	
	>70	239	1.38 (0.06)	0.63 (0.09)	0.75 (0.08)	0.97 (0.07)	1.29 (0.06)	1.68 (0.10)	2.11 (0.16)	2.41 (0.22)	1.3	50.6 (5.2)		100	0.0 (0.0)	
	19+	1060	1.61 (0.05)	0.88 (0.07)	1.00 (0.06)	1.24 (0.05)	1.55 (0.05)	1.91 (0.07)	2.27 (0.11)	2.51 (0.13)				100	0.0 (0.0)	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

³ UL is the Tolerable Upper Intake Level. For additional detail, see footnote 11 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 25.7 Vitamin B₁₂ (µg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)				Percentiles (<i>and SE</i>) of usual intake							EAR ²	% <EAR (SE)
		n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)		
Both													
	1-3	324	3.1	(0.2)	1.4 (0.2)	1.7 (0.2)	2.3 (0.2)	3.1 (0.2)	4.0 (0.3)	4.9 (0.5)	5.6 (0.6)	0.7	<3
	4-8	425	3.3	(0.1)	2.1 (0.3) ^E	2.3 (0.3)	2.7 (0.2)	3.2 (0.2)	3.7 (0.2)	4.3 (0.4)	4.7 (0.5)	1.0	<3
Male													
	9-13	274	4.1	(0.2)	2.0 (0.5) ^E	2.4 (0.4) ^E	3.0 (0.3)	3.9 (0.2)	5.0 (0.4)	6.1 (0.7)	6.9 (0.9)	1.5	F
	14-18	297	5.5	(0.3)	2.3 (0.5) ^E	2.8 (0.5) ^E	3.8 (0.5)	5.2 (0.4)	7.2 (0.5)	9.5 (0.8)	11.2 (1.2)	2.0	F
	19-30	249	5.7	(0.7)	2.7 (0.3)	3.2 (0.3)	4.0 (0.4)	5.0 (0.5)	6.2 (0.9)	7.6 (1.6) ^E	8.6 (2.3) ^E	2.0	<3
	31-50	309	4.5	(0.4)	2.4 (0.2)	2.7 (0.2)	3.4 (0.3)	4.3 (0.4)	5.2 (0.5)	6.2 (0.6)	6.8 (0.8)	2.0	F
	51-70	277	5.3	(0.5)	2.5 (0.7) ^E	2.9 (0.7) ^E	3.8 (0.6)	5.2 (0.6)	7.1 (0.9)	9.2 (1.7) ^E	10.7 (2.7) ^E	2.0	F
	>70	136	4.0	(0.4)	1.3 (0.4) ^E	1.6 (0.4) ^E	2.4 (0.4) ^E	3.6 (0.4)	5.2 (0.6)	7.1 (0.9)	8.5 (1.2)	2.0	F
	19+	971	5.0	(0.3)	2.3 (0.4) ^E	2.7 (0.4)	3.4 (0.3)	4.5 (0.3)	5.9 (0.4)	7.5 (0.6)	8.7 (0.9)	2.0	F
Female													
	9-13	265	3.7	(0.2)	1.6 (0.4) ^E	1.9 (0.3) ^E	2.5 (0.3)	3.2 (0.2)	4.4 (0.3)	6.0 (0.8)	7.3 (1.4) ^E	1.5	F
	14-18	290	3.2	(0.2)	2.2 (0.4) ^E	2.4 (0.4)	2.7 (0.3)	3.1 (0.2)	3.6 (0.4)	4.0 (0.6)	4.3 (0.7) ^E	2.0	F
	19-30	197	3.3	(0.3)	1.6 (0.2)	1.9 (0.2)	2.4 (0.2)	3.1 (0.3)	3.9 (0.4)	4.9 (0.6)	5.5 (0.8)	2.0	F
	31-50	312	3.5	(0.3)	1.4 (0.4) ^E	1.7 (0.4) ^E	2.2 (0.3)	2.9 (0.3)	4.1 (0.4)	5.8 (0.9)	7.3 (1.4) ^E	2.0	F
	51-70	312	4.6	(0.8) ^E	1.9 (0.5) ^E	2.1 (0.5) ^E	2.6 (0.5) ^E	3.5 (0.5)	5.0 (0.9) ^E	7.0 (1.9) ^E	F	2.0	F
	>70	239	2.8	(0.2)	1.5 (0.4) ^E	1.8 (0.3) ^E	2.2 (0.3)	2.7 (0.2)	3.4 (0.3)	4.1 (0.6)	4.6 (0.8) ^E	2.0	F
	19+	1060	3.6	(0.3)	1.5 (0.2)	1.8 (0.2)	2.3 (0.2)	3.0 (0.2)	4.0 (0.2)	5.6 (0.5)	7.1 (0.9)	2.0	15.8 (4.7) ^E

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 26.1¹ Vitamin C (mg/d): Usual intakes from food, by sex, region and smoking status,² household population aged 19 and older, 2004³

Age-Sex Group	Region	Smoking Status	Percentiles (<i>and SE</i>) of usual intake									EAR ⁴	% <EAR		UL ⁵	% >UL										
			n	Mean	(SE)	5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)		95th (SE)	(SE)		(SE)	(SE)									
Males 19+	Atlantic region	Non-Smoker	1140	119	(6)	40	(4)	51	(4)	75	(5)	112	(7)	157	(10)	211	(14)	251	(18)	75	24.7	(3.8)	2000	0.0	(0.0)	
		Smoker	474	92	(7)	31	(6) ^E	39	(6)	57	(7)	84	(9)	121	(12)	163	(17)	190	(20)	110	68.7	(7.1)	2000	0.0	(0.0)	
	Quebec	Non-Smoker	800	156	(7)	55	(7)	72	(7)	107	(7)	154	(8)	211	(11)	278	(15)	328	(20)	75	11.0	(2.4) ^E	2000	0.0	(0.0)	
		Smoker	378	135	(11)	70	(20) ^E	82	(20) ^E	105	(18) ^E	138	(17)	180	(18)	228	(27)	261	(36)	110	^F		2000	0.0	(0.0)	
	Ontario	Non-Smoker	1990	135	(5)	49	(7)	61	(7)	87	(6)	124	(5)	173	(7)	226	(13)	264	(18)	75	17.6	(3.8) ^E	2000	0.0	(0.0)	
		Smoker	690	106	(7)	^F	49	(15) ^E	68	(12) ^E	96	(8)	133	(11)	175	(23)	204	(33)	110	60.9	(7.7)	2000	0.0	(0.0)		
	Prairie region	Non-Smoker	1484	143	(8)	^F	37	(5)	49	(5)	76	(7)	122	(8)	191	(12)	277	(23)	344	(36)	75	24.6	(3.8)	2000	<3	
		Smoker	679	92	(7)	^F	44	(13) ^E	61	(12) ^E	84	(10)	114	(11)	148	(18)	171	(23)	110	72.2	(9.6)	2000	0.0	(0.0)		
	British Columbia	Non-Smoker	611	151	(8)		48	(8) ^E	60	(9)	87	(10)	133	(10)	192	(13)	248	(19)	287	(26)	75	17.9	(5.0) ^E	2000	0.0	(0.0)
		Smoker	219	115	(10)		39	(13) ^E	49	(13) ^E	70	(14) ^E	107	(15)	153	(18)	207	(26)	248	(36)	110	52.1	(10.1) ^E	2000	0.0	(0.0)
Females 19+	Atlantic region	Non-Smoker	1530	107	(4)	32	(3)	42	(3)	64	(4)	96	(5)	139	(7)	189	(10)	225	(12)	60	22.2	(3.1)	2000	0.0	(0.0)	
		Smoker	491	84	(6)	30	(7) ^E	38	(8) ^E	55	(8)	79	(9)	109	(11)	142	(14)	166	(17)	95	65.0	(8.2)	2000	0.0	(0.0)	
	Quebec	Non-Smoker	926	138	(7)	48	(5)	61	(6)	87	(6)	126	(8)	176	(10)	232	(14)	273	(18)	60	9.7	(2.6) ^E	2000	0.0	(0.0)	
		Smoker	368	115	(10)	44	(10) ^E	53	(10) ^E	75	(11)	109	(12)	156	(17)	208	(25)	245	(34)	95	40.0	(9.2) ^E	2000	0.0	(0.0)	
	Ontario	Non-Smoker	2867	128	(3)	41	(4)	53	(4)	78	(4)	116	(4)	164	(5)	217	(9)	255	(12)	60	13.8	(2.1)	2000	0.0	(0.0)	
		Smoker	705	92	(6)	21	(4) ^E	29	(5) ^E	45	(5)	74	(6)	117	(9)	171	(15)	210	(21)	95	64.1	(4.3)	2000	0.0	(0.0)	
	Prairie region	Non-Smoker	1848	113	(4)	37	(4)	47	(4)	69	(4)	101	(5)	143	(7)	193	(10)	229	(12)	60	18.1	(2.7)	2000	0.0	(0.0)	
		Smoker	621	102	(8)	48	(13) ^E	57	(13) ^E	74	(12) ^E	99	(12)	133	(14)	170	(20)	195	(26)	95	46.0	(12.2) ^E	2000	0.0	(0.0)	
	British Columbia	Non-Smoker	799	125	(5)	47	(7)	58	(7)	84	(8)	123	(8)	156	(9)	196	(12)	222	(15)	60	11.2	(3.4) ^E	2000	0.0	(0.0)	
		Smoker	192	100	(14)	^F	51	(16) ^E	69	(17) ^E	96	(18) ^E	133	(24) ^E	178	(39) ^E	212	(55) ^E	95	^F		2000	0.0	(0.0)		

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 Some domains were too small to produce reliable estimates. Only the domains with a large enough sample are included.

² Smokers are defined as those who smoke daily or occasionally.

³ Intakes are based on food consumption only. For additional detail, see footnote 4 in Appendix A.

⁴ EAR is the Estimated Average Requirement. Note that the EAR for smokers is increased by 35 mg/day. For additional detail, see footnote 9 in Appendix A.

⁵ UL is the Tolerable Upper Intake Level. For additional detail, see footnote 11 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 27.7 Vitamin D (µg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)	n	Mean	(SE)	Percentiles (<i>and SE</i>) of usual intake							AI ²	% >AI (SE)		UL ³	% >UL (SE)	
					5th (SE)	10th (SE)	25th (SE)	50th (SE)	75th (SE)	90th (SE)	95th (SE)						
Both																	
	1-3	324	6.3	(0.4)	2.0 (0.4) ^E	2.7 (0.4)	4.1 (0.4)	6.1 (0.5)	8.5 (0.6)	11.0 (0.8)	12.7 (1.0)	5	63.4	(6.7)	50	0.0 (0.0)	
	4-8	425	5.9	(0.2)	2.7 (0.6) ^E	3.2 (0.5)	4.2 (0.4)	5.5 (0.3)	7.0 (0.4)	8.6 (0.7)	9.7 (1.1)	5	59.8	(7.5)	50	0.0 (0.0)	
Male																	
	9-13	274	7.0	(0.4)	3.4 (1.0) ^E	4.0 (0.9) ^E	5.2 (0.7)	6.7 (0.5)	8.4 (0.5)	10.2 (0.9)	11.3 (1.2)	5	77.6	(10.4)	50	0.0 (0.0)	
	14-18	297	8.4	(0.7)	^F	2.8 (0.8) ^E	4.8 (0.7)	7.7 (0.8)	11.5 (1.2)	16.0 (2.0)	19.3 (2.7)	5	73.3	(6.8)	50	<3	
	19-30	249	7.5	(1.2)	^F	3.6 (1.1) ^E	4.8 (0.9) ^E	6.5 (0.8)	8.6 (1.1)	11.0 (1.9) ^E	12.8 (2.7) ^E	5	71.9	(13.0) ^E	50	0.0 (0.0)	
	31-50	309	5.1	(0.4)	^F	2.5 (0.8) ^E	3.4 (0.7) ^E	4.8 (0.5)	6.6 (0.7)	8.3 (1.1)	9.4 (1.4)	5	46.3	(11.5) ^E	50	0.0 (0.0)	
	51-70	277	5.7	(0.4)	2.7 (0.6) ^E	3.1 (0.6) ^E	4.1 (0.5)	5.4 (0.4)	7.1 (0.6)	9.0 (1.1)	10.4 (1.6)	10	^F		50	0.0 (0.0)	
	>70	136	5.5	(0.4)	2.1 (0.5) ^E	2.5 (0.5) ^E	3.5 (0.5)	5.0 (0.4)	6.9 (0.6)	9.2 (1.0)	10.8 (1.4)	15	<3		50	0.0 (0.0)	
	19+	971	5.8	(0.4)	2.1 (0.4) ^E	2.6 (0.4)	3.7 (0.4)	5.2 (0.3)	7.2 (0.4)	9.5 (0.7)	11.2 (1.0)				50	0.0 (0.0)	
Female																	
	9-13	265	6.9	(0.6)	2.4 (0.6) ^E	3.0 (0.6) ^E	4.2 (0.5)	6.0 (0.4)	8.4 (0.7)	11.3 (1.7)	13.8 (2.8) ^E	5	63.3	(7.9)	50	<3	
	14-18	290	5.2	(0.4)	^F	2.8 (0.9) ^E	3.8 (0.8) ^E	5.3 (0.8)	7.1 (0.8)	9.0 (1.1)	10.3 (1.4)	5	54.9	(14.4) ^E	50	0.0 (0.0)	
	19-30	197	5.4	(0.7)	^F	^F	3.0 (0.6) ^E	4.7 (0.7)	7.0 (1.1)	9.9 (2.0) ^E	12.3 (3.0) ^E	5	45.7	(10.5) ^E	50	<3	
	31-50	312	4.4	(0.3)	1.6 (0.4) ^E	2.0 (0.4) ^E	2.8 (0.4)	3.9 (0.3)	5.3 (0.5)	6.7 (0.7)	7.7 (0.9)	5	29.2	(7.8) ^E	50	0.0 (0.0)	
	51-70	312	5.4	(0.7)	1.8 (0.5) ^E	2.3 (0.5) ^E	3.1 (0.5)	4.4 (0.5)	6.1 (0.7)	8.3 (1.3)	9.9 (1.8) ^E	10	^F		50	0.0 (0.0)	
	>70	239	5.0	(0.5)	1.8 (0.4) ^E	2.3 (0.4) ^E	3.2 (0.4)	4.7 (0.4)	6.6 (0.7)	9.1 (1.2)	11.0 (1.8) ^E	15	^F		50	<3	
	19+	1060	5.0	(0.3)	1.5 (0.2)	1.9 (0.2)	2.9 (0.2)	4.2 (0.2)	6.0 (0.3)	8.5 (0.6)	10.5 (0.9)				50	0.0 (0.0)	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 AI is the Adequate Intake. For additional detail, see footnote 10 in Appendix A.

³ UL is the Tolerable Upper Intake Level. For additional detail, see footnote 11 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

Table 28.7 Zinc (mg/d): Usual intakes from food, by DRI age–sex group, household population, Manitoba, 2004¹

Sex	Age (years)	n	Mean	(SE)	Percentiles (<i>and SE</i>) of usual intake						EAR ²	% <EAR		(SE)	UL ³	% >UL		(SE)						
					5th (<i>SE</i>)	10th (<i>SE</i>)	25th (<i>SE</i>)	50th (<i>SE</i>)	75th (<i>SE</i>)	90th (<i>SE</i>)		95th (<i>SE</i>)												
Both																								
	1-3	324	6.9	(0.2)	4.5	(0.4)	4.9	(0.4)	5.7	(0.3)	6.9	(0.3)	8.2	(0.5)	9.6	(0.7)	10.5	(0.9)	2.5	<3		7	48.4	(8.4) ^E
	4-8	425	8.6	(0.5)	6.6	(0.4)	7.0	(0.4)	7.7	(0.5)	8.5	(0.5)	9.5	(0.6)	10.5	(0.7)	11.1	(0.7)	4.0	0.0	(0.0)	12		^F
Male																								
	9-13	274	11.3	(0.5)	9.7	(0.4)	10.1	(0.5)	10.7	(0.5)	11.4	(0.5)	12.2	(0.6)	13.0	(0.7)	13.5	(0.7)	7.0	0.0	(0.0)	23	0.0	(0.0)
	14-18	297	14.9	(0.6)	8.4	(1.2)	9.6	(1.1)	11.7	(0.9)	14.5	(0.8)	17.9	(1.0)	21.8	(1.6)	24.7	(2.1)	8.5		^F	34	<3	
	19-30	249	14.8	(1.0)	9.6	(0.7)	10.4	(0.7)	12.0	(0.8)	14.0	(1.0)	16.3	(1.2)	18.6	(1.4)	20.2	(1.5)	9.4		^F	40	0.0	(0.0)
	31-50	309	13.0	(0.7)	7.4	(1.2) ^E	8.3	(1.1)	10.0	(0.9)	12.3	(0.7)	15.0	(1.0)	18.1	(1.8)	20.4	(2.5)	9.4		^F	40	<3	
	51-70	277	12.8	(0.6)	7.5	(1.3) ^E	8.4	(1.1)	10.1	(0.9)	12.3	(0.7)	15.0	(1.0)	17.9	(1.7)	19.8	(2.2)	9.4		^F	40	<3	
	>70	136	11.4	(1.1)	4.6	(1.3) ^E	5.6	(1.3) ^E	7.7	(1.2)	10.5	(1.2)	14.3	(1.8)	19.4	(3.1)	23.2	(4.2) ^E	9.4	40.2	(11.5) ^E	40	<3	
	19+	971	13.2	(0.4)	7.5	(0.7)	8.5	(0.6)	10.1	(0.5)	12.4	(0.5)	15.3	(0.6)	18.4	(1.0)	20.7	(1.4)	9.4	17.6	(4.9) ^E	40	<3	
Female																								
	9-13	265	9.4	(0.4)	6.3	(1.0)	6.9	(0.9)	7.9	(0.7)	9.2	(0.5)	10.7	(0.6)	12.3	(1.1)	13.3	(1.6)	7.0		^F	23	<3	
	14-18	290	9.1	(0.5)	5.7	(0.3)	6.3	(0.3)	7.2	(0.4)	8.6	(0.5)	10.5	(0.6)	12.4	(0.7)	13.7	(0.8)	7.3	26.0	(6.2) ^E	34	0.0	(0.0)
	19-30	197	10.1	(0.8)	6.2	(0.5)	6.9	(0.5)	8.1	(0.5)	9.5	(0.6)	11.4	(0.8)	13.3	(1.0)	14.6	(1.2)	6.8		^F	40	0.0	(0.0)
	31-50	312	10.6	(0.7)	6.3	(0.9)	6.9	(0.9)	8.3	(0.8)	10.1	(0.7)	12.3	(1.0)	14.7	(1.8)	16.5	(2.4)	6.8		^F	40	<3	
	51-70	312	9.3	(0.5)	6.2	(0.8)	6.7	(0.8)	7.8	(0.6)	9.2	(0.5)	10.7	(0.6)	12.3	(1.0)	13.4	(1.3)	6.8		^F	40	0.0	(0.0)
	>70	239	7.9	(0.4)	4.5	(0.7)	5.1	(0.7)	6.2	(0.5)	7.7	(0.4)	9.5	(0.6)	11.5	(1.1)	12.8	(1.4)	6.8	34.8	(9.3) ^E	40	0.0	(0.0)
	19+	1060	9.8	(0.3)	5.4	(0.4)	6.1	(0.4)	7.4	(0.4)	9.2	(0.3)	11.5	(0.4)	14.2	(0.8)	16.2	(1.2)	6.8	17.4	(4.3) ^E	40	<3	

Data source: Statistics Canada, Canadian Community Health Survey, Cycle 2.2, Nutrition (2004) - Share File

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.

^F 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 EAR is the Estimated Average Requirement. For additional detail, see footnote 9 in Appendix A.

³ UL is the Tolerable Upper Intake Level. For additional detail, see footnote 11 in Appendix A.

For additional footnotes common to all tables, see Appendix A.

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: Iron Estimation

The distribution of iron requirements for menstruating females and some of the other age–sex groups is not normal or necessarily symmetric. Therefore, the full probability approach is required for the estimation of iron inadequacy instead of the EAR cut-point method. For all age–sex groups, the iron requirement distributions from Appendix I of the Institute of Medicine’s (IOM) report on the DRIs for iron (IOM, 2001) were used to estimate inadequacy. For the three DRI age–sex groups of menstruating females aged between 14 and 50 years, the iron requirement distributions of mixed populations, which assumes 17% oral contraceptive (OC) users and 83% non-OC users, were used to estimate inadequacy (IOM, 2001).

Tables of the risk of inadequate intake for specified ranges of the usual intake of iron, which are provided in the IOM report, were used for calculating iron inadequacy. The following summarizes how the full probability method was used to estimate iron inadequacy:

- SIDE was used to estimate the usual intake distribution of iron. A file containing the intake value at 9,999 evenly spaced percentiles was generated for each domain.
- From Appendix I of the IOM report on the DRIs for iron, Table I-3 and Table I-4 were used. For females aged 14 to 18 years and menstruating women, the tables for the mixed adolescent and adult populations were used.
- For example, for the mixed adolescent population, intakes below 4.49 mg/d are assumed to have 100% probability of inadequacy (risk=1.0). Those with intakes above or equal to 14.39 mg/d are assumed to have zero risk of inadequacy. For intakes between these two extremes, the risk of inadequacy is calculated as 100 minus the midpoint of the percentile of requirement.
- Each of the 9,999 intake values fell into one of the specified requirement ranges, each with a corresponding risk value. The corresponding risk values are 1, 0.9625, 0.925, 0.85, 0.75, 0.65, 0.55, 0.45, 0.35, 0.25, 0.15, 0.075, 0.0375 and 0. The average of these 9,999 risk values was the estimate of the iron inadequacy for that age–sex group.
- Standard errors for the estimates were calculated with the probability approach using the bootstrap method.

- For additional information on iron estimation and the probability method, consult Appendix 3 of the Health Canada publication *Canadian Community Health Survey, Cycle 2.2, Nutrition (2004)—A Guide to Accessing and Interpreting the Data*, or the section 'Assessing the Adequacy of Intakes of Groups' in Chapter 14 of the IOM's DRI report on iron (IOM, 2001).

Appendix C: 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 other nutrients scheduled to be released in future volumes of the compendium, but for a variety of reasons some of these nutrients will not be 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 D: References

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