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Concentrations of selected environmental chemicals in the Canadian population, 2014-2015

by Statistics Canada

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Concentrations of selected environmental chemicals in the Canadian population, 2014-2015

The Canadian Health Measures Survey (CHMS) is the most extensive national survey on physical health measures ever conducted in the country. Data collection consists of two main steps, a personal interview at the respondent's household followed later by a visit to the CHMS mobile clinic where physical measurements and blood and urine samples are taken. Indoor air samples are also taken from the home to measure for a number of airborne substances.

The CHMS captures a broad portrait of the health of Canadians by gathering baseline data on a variety of topics, including cardiovascular health, nutritional status, chronic diseases and physical activity, as well as exposure to infectious diseases and environmental contaminants. The survey collects health information that can't be otherwise captured, or that may be inaccurately reported, through self-report questionnaires or health care records.

The CHMS is conducted by Statistics Canada in partnership with Health Canada and the Public Health Agency of Canada.

This publication provides data users, health professionals and individual Canadians with geometric means and selected percentiles of blood and urine concentrations of selected environmental chemicals for the Canadian population by sex and age group. The results presented in this publication were collected during cycle 4 of the Canadian Health Measures Survey from January 2014 to December 2015.

Data are representative at the national level.

For additional information about the CHMS:

Toll-free number: 1-888-253-1087

E-mail: infostats@statcan.gc.ca

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Table 1.1
Acrylamide haemoglobin adducts — Whole blood concentrations (pmol/g Hb) for the Canadian population by sex and age group, 2014-2015

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	% <LOD [†]	Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		
			From	To		From	To		From	To		From	To		From	To		From	To	
Both Sexes																				
Age 3 to 5	0	60	56	65	37	32	43	61	55	66	96	84	110	100	83	120				
Age 6 to 11	0	62	59	66	42	39	45	62	58	66	90	83	96	100	94	110				
Age 12 to 19	0	63	55	72	37	33	42	60	51	70	100	83	120	120	91	160				
Age 20 to 39	0	70	60	80	37	33	41	61	53	70	170	120	220	210	170	250				
Age 40 to 59	0.32	71	62	80	38	34	42	60	50	70	180	130	230	250	170	330				
Age 60 to 79	0	63	56	71	34	26	43	59	53	65	150	110	190	190	170	210				
Age 3 to 79	0.04	67	62	73	38	35	41	60	55	66	150	130	180	200	180	230				
Males																				
Age 6 to 11	0	66	62	70	43	38	48	65	61	68	97	84	110	110	96	110				
Age 12 to 19	0	65	59	73	38	35	41	64	56	72	110	89	130	F	F	F				
Age 20 to 39	0	72	60	87	35	27	42	65	56	74	200	140	260	x	x	x				
Age 40 to 59	0.65	74	60	91	38	30	46	66	49	82	160 ^E	61 ^E	260 ^E	x	x	x				
Age 60 to 79	0	64	56	73	33	22	43	56	51	62	180	150	220	x	x	x				
Age 3 to 79	0.08	70	62	79	37	33	42	64	57	71	170^E	110^E	230^E	220	180	250				
Females																				
Age 6 to 11	0	59	54	64	38	33	43	59	54	64	85	77	92	91	82	99				
Age 12 to 19	0	61	51	72	37	29	44	57	47	68	95	74	120	120	93	150				
Age 20 to 39	0	67	58	78	37	30	44	57	49	65	150	110	180	x	x	x				
Age 40 to 59	0	68	51	89	39	35	42	53	37	68	180 ^E	100 ^E	250 ^E	x	x	x				
Age 60 to 79	0	62	54	70	37	31	43	61	54	68	110	78	140	x	x	x				
Age 3 to 79	0	65	58	72	38	36	41	58	53	62	140	100	180	180	140	220				

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[†] the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 1.2**Glycidamide haemoglobin adducts — Whole blood concentrations (pmol/g Hb) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval			
	% <LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	
Both Sexes																				
Age 3 to 5	0.21	76	69	84	49	44	53	73	65	82	120	100	130	140	110	180				
Age 6 to 11	0.39	70	65	74	44	41	48	66	60	73	100	95	110	120	110	130				
Age 12 to 19	2.38	58	51	67	34	27	41	55	49	62	99	83	120	120 ^E	58 ^E	180 ^E				
Age 20 to 39	2.20	62	52	74	34	29	39	57	49	66	170	110	230	190	170	220				
Age 40 to 59	1.92	63	55	71	35	30	39	58	50	65	130	97	160	160 ^E	57 ^E	260 ^E				
Age 60 to 79	5.03	50	44	57	25	<LOD	33	50	44	56	98	87	110	120	93	150				
Age 3 to 79	1.86	60	54	67	34	30	37	57	52	62	120	100	140	170	150	200				
Males																				
Age 6 to 11	0.40	75	70	80	47	40	54	72	64	80	120	100	130	130	97	170				
Age 12 to 19	3.57	56	49	64	35	26	44	53	47	60	99	67	130	170 ^E	85 ^E	260 ^E				
Age 20 to 39	0.58	65	53	78	37	28	46	59	46	72	160 ^E	97 ^E	220 ^E	x	x	x				
Age 40 to 59	3.23	62	50	76	30	<LOD	39	60	49	72	140	94	180	x	x	x				
Age 60 to 79	7.57	51	43	61	25 ^E	<LOD ^E	37 ^E	51	44	57	120	86	150	x	x	x				
Age 3 to 79	2.37	61	53	70	33	27	39	58	50	66	130	100	160	170	130	200				
Females																				
Age 6 to 11	0.39	64	60	70	44	42	46	63	57	69	96	87	110	99	83	110				
Age 12 to 19	1.19	61	52	71	33	26	40	58	47	68	99	81	120	120	94	140				
Age 20 to 39	3.66	59	48	73	33	26	40	55	46	64	170 ^E	88 ^E	260 ^E	x	x	x				
Age 40 to 59	0.64	63	51	79	37	34	40	57	44	69	120 ^E	41 ^E	200 ^E	x	x	x				
Age 60 to 79	2.31	50	43	58	24 ^E	<LOD ^E	38 ^E	49	41	57	87	73	100	x	x	x				
Age 3 to 79	1.35	59	53	67	34	31	37	56	51	62	110	81	140	170	110	240				

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[†] the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

	Geometric Mean																				
	10th Percentile						50th Percentile						90th Percentile			95th Percentile					
	% <LOD [†]		Estimate		Confidence interval		From		To		Estimate		Confidence interval		From		To		Estimate		Confidence interval
Both Sexes																					
Age 3 to 5	7.83	1.2	1.0	1.4	0.28 ^E	<LOD ^E	0.44 ^E	1.2	1.0	1.3	4.0	3.5	4.5	6.4 ^E	2.9 ^E	9.9 ^E					
Age 6 to 11	6.46	1.1	0.90	1.4	0.29	<LOD	0.40	1.1	0.83	1.4	3.5	2.6	4.4	5.0	4.0	6.0					
Age 12 to 19	4.95	1.1	1.1	1.2	0.26	<LOD	0.35	1.2	1.0	1.3	3.8	3.1	4.6	5.5	4.5	6.5					
Age 20 to 39	7.73	1.1	0.93	1.4	<LOD ^E	<LOD ^E	0.35 ^E	1.2	0.97	1.4	5.6 ^E	3.3 ^E	7.8 ^E	7.4	5.1	9.7					
Age 40 to 59	7.72	0.86	0.74	1.0	0.28	<LOD	0.38	0.94	0.77	1.1	2.4	1.9	2.9	4.2 ^E	2.4 ^E	5.9 ^E					
Age 60 to 79	10.28	1.1	0.96	1.2	<LOD	<LOD	<LOD	1.0	0.84	1.2	4.2	3.1	5.3	5.5 ^E	2.3 ^E	8.7 ^E					
Age 3 to 79	7.30	1.0	0.95	1.1	0.26	<LOD	0.33	1.0	0.94	1.1	4.0	3.2	4.8	6.0	5.0	7.1					
Males																					
Age 6 to 11	6.69	1.1	0.84	1.5	0.29 ^E	<LOD ^E	0.46 ^E	1.1	0.80	1.4	3.9	2.6	5.3	4.9	3.5	6.4					
Age 12 to 19	3.97	1.3	1.0	1.6	0.29	<LOD	0.37	1.3	1.0	1.6	5.4	3.7	7.1	7.0 ^E	3.5 ^E	11 ^E					
Age 20 to 39	4.68	1.5	1.0	2.1	0.53	0.41	0.65	1.3	0.85	1.7	6.1 ^E	2.4 ^E	9.8 ^E	x	x	x					
Age 40 to 59	7.14	0.91	0.71	1.2	0.28 ^E	<LOD ^E	0.46 ^E	0.95 ^E	0.58 ^E	1.3 ^E	2.8 ^E	0.93 ^E	4.6 ^E	x	x	x					
Age 60 to 79	7.53	1.2	0.91	1.5	0.36	0.30	0.42	1.2	0.82	1.6	4.7	3.1	6.4	x	x	x					
Age 3 to 79	5.89	1.2	1.0	1.3	0.35	0.28	0.43	1.2	0.97	1.3	4.3	3.0	5.6	6.2	4.3	8.0					
Females																					
Age 6 to 11	6.23	1.1	0.93	1.3	0.28 ^E	<LOD ^E	0.40 ^E	1.1	0.81	1.4	3.3	2.8	3.8	F	F	F					
Age 12 to 19	5.93	1.0	0.89	1.2	0.24 ^E	<LOD ^E	0.37 ^E	1.1	0.90	1.2	3.0	2.6	3.5	3.8	3.2	4.4					
Age 20 to 39	10.47	0.88	0.67	1.2	<LOD	<LOD	<LOD	1.0 ^E	0.59 ^E	1.5 ^E	4.6 ^E	2.5 ^E	6.7 ^E	x	x	x					
Age 40 to 59	8.28	0.81	0.70	0.94	0.31 ^E	<LOD ^E	0.44 ^E	0.93	0.76	1.1	1.8	1.1	2.4	x	x	x					
Age 60 to 79	13.22	1.0	0.77	1.3	<LOD	<LOD	<LOD	0.94 ^E	0.60 ^E	1.3 ^E	4.1	2.7	5.5	x	x	x					
Age 3 to 79	8.70	0.92	0.79	1.1	<LOD	<LOD	<LOD	0.98	0.82	1.1	3.4	2.8	4.0	5.4	3.6	7.3					

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Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 2.2**Triclosan — Urine concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile														
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval											
		From	To		From	To		From	To		From	To		From	To		From	To		From	To										
Both Sexes																															
Age 3 to 5	49.12	‡	‡	‡	<LOD	<LOD	<LOD	4.8	<LOD	6.5	33 ^E	13 ^E	53 ^E	F	F	F	170 ^E	93 ^E	250 ^E												
Age 6 to 11	49.22	‡	‡	‡	<LOD	<LOD	<LOD	5.2	<LOD	6.6	F	F	F	F	F	F	420 ^E	190 ^E	650 ^E	880 ^E	480 ^E	1300 ^E									
Age 12 to 19	38.89	13	8.7	18	<LOD	<LOD	<LOD	6.4 ^E	<LOD ^E	9.8 ^E	F	F	F	F	F	F	F	F	F	F	F										
Age 20 to 39	34.63	12 ^E	7.2 ^E	20 ^E	<LOD	<LOD	<LOD	5.4 ^E	<LOD ^E	8.0 ^E	420 ^E	190 ^E	650 ^E	880 ^E	480 ^E	1300 ^E	44.57	‡	‡	‡	<LOD	<LOD	5.9	<LOD	7.6	310 ^E	160 ^E	460 ^E	660 ^E	370 ^E	940 ^E
Age 40 to 59	41.03	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F	F	F	F	F	F										
Age 60 to 79	52.50	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F	F	F										
Age 3 to 79	44.57	‡	‡	‡	<LOD	<LOD	<LOD	5.9	<LOD	7.6	310^E	160^E	460^E	660^E	370^E	940^E															
Males																															
Age 6 to 11	50.79	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F	F	F										
Age 12 to 19	41.67	‡	‡	‡	<LOD	<LOD	<LOD	6.2 ^E	<LOD ^E	9.9 ^E	F	F	F	F	F	F	F	F	F	F	F										
Age 20 to 39	36.26	F	F	F	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	x	x	x	x	x	x	x										
Age 40 to 59	38.31	14 ^E	7.5 ^E	27 ^E	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	x	x	x	x	x	x	x										
Age 60 to 79	53.76	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	x	x	x	x	x	x	x										
Age 3 to 79	44.85	‡	‡	‡	<LOD	<LOD	<LOD	6.1^E	<LOD^E	8.5^E	270^E	120^E	430^E	640^E	320^E	970^E															
Females																															
Age 6 to 11	47.66	‡	‡	‡	<LOD	<LOD	<LOD	5.2 ^E	<LOD ^E	7.3 ^E	F	F	F	F	180 ^E	100 ^E	260 ^E														
Age 12 to 19	36.11	14	10	20	<LOD	<LOD	<LOD	F	F	F	460 ^E	220 ^E	690 ^E	740 ^E	320 ^E	1200 ^E															
Age 20 to 39	33.16	13 ^E	7.7 ^E	21 ^E	<LOD	<LOD	<LOD	5.6 ^E	<LOD ^E	7.7 ^E	F	F	F	x	x	x	x	x	x	x	x										
Age 40 to 59	43.67	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	F	F	F	x	x	x	x	x	x	x	x										
Age 60 to 79	51.15	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	x	x	x	x	x	x	x	x										
Age 3 to 79	44.28	‡	‡	‡	<LOD	<LOD	<LOD	5.7	<LOD	7.4	360^E	120^E	590^E	880^E	320^E	1400^E															

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<LOD less than the limit of detection

[†] the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)[‡] if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-1**Arsenate — Urine concentrations (µg As/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	% <LOD [†]		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval			
	%	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	
Both Sexes																				
Age 3 to 5	98.44	‡	‡	‡	<LOD	<LOD														
Age 6 to 11	98.64	‡	‡	‡	<LOD	<LOD														
Age 12 to 19	98.42	‡	‡	‡	<LOD	<LOD														
Age 20 to 39	99.45	‡	‡	‡	<LOD	<LOD														
Age 40 to 59	99.68	‡	‡	‡	<LOD	<LOD														
Age 60 to 79	99.72	‡	‡	‡	<LOD	<LOD														
Age 3 to 79	98.95	‡	‡	‡	<LOD	<LOD														
Males																				
Age 6 to 11	98.44	‡	‡	‡	<LOD	<LOD														
Age 12 to 19	98.02	‡	‡	‡	<LOD	<LOD														
Age 20 to 39	99.42	‡	‡	‡	<LOD	<LOD	<LOD	x	x	x										
Age 40 to 59	99.35	‡	‡	‡	<LOD	<LOD	x	x	x											
Age 60 to 79	99.46	‡	‡	‡	<LOD	<LOD	x	x	x											
Age 3 to 79	98.82	‡	‡	‡	<LOD	<LOD														
Females																				
Age 6 to 11	98.84	‡	‡	‡	<LOD	<LOD														
Age 12 to 19	98.81	‡	‡	‡	<LOD	<LOD														
Age 20 to 39	99.48	‡	‡	‡	<LOD	<LOD	x	x	x											
Age 40 to 59	100	‡	‡	‡	<LOD	<LOD	x	x	x											
Age 60 to 79	100	‡	‡	‡	<LOD	<LOD	x	x	x											
Age 3 to 79	99.07	‡	‡	‡	<LOD	<LOD														

x suppressed to meet the confidentiality requirements of the *Statistics Act*

<LOD less than the limit of detection

† the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.

Source: Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-2**Arsenite — Urine concentrations ($\mu\text{g As/L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile											
	% <LOD [†]		Confidence interval		Estimate		From		To		Estimate		From		To		Estimate		From		To		Estimate		From		To	
			Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To		
Both Sexes																												
Age 3 to 5	80.47	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.84	1.3	1.8 ^E	1.0 ^E	2.5 ^E							
Age 6 to 11	75.88	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.5 ^E	0.92 ^E	2.0 ^E	2.6 ^E	1.2 ^E	4.0 ^E							
Age 12 to 19	62.25	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2.1 ^E	1.2 ^E	3.0 ^E	3.2	2.1	4.4							
Age 20 to 39	62.71	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2.3	1.7	2.8	3.0	2.3	3.8							
Age 40 to 59	70.83	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.6 ^E	1.0 ^E	2.3 ^E	2.3 ^E	1.5 ^E	3.2 ^E							
Age 60 to 79	68.70	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.8	1.2	2.3	F	F	F							
Age 3 to 79	70.63	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.9	1.5	2.3	2.7	2.1	3.4								
Males																												
Age 6 to 11	76.56	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F							
Age 12 to 19	62.45	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2.6 ^E	1.4 ^E	3.9 ^E	3.6 ^E	1.9 ^E	5.4 ^E							
Age 20 to 39	57.89	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2.5 ^E	1.5 ^E	3.4 ^E	x	x	x							
Age 40 to 59	66.88	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.9	1.3	2.5	x	x	x							
Age 60 to 79	64.86	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.9 ^E	1.1 ^E	2.7 ^E	x	x	x							
Age 3 to 79	69.02	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2.2	1.7	2.6	3.0	2.3	3.8								
Females																												
Age 6 to 11	75.19	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.4	0.91	1.9	2.0	1.4	2.6							
Age 12 to 19	62.06	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.7	1.3	2.1	2.2 ^E	1.4 ^E	3.1 ^E							
Age 20 to 39	67.02	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.8 ^E	0.86 ^E	2.8 ^E	x	x	x							
Age 40 to 59	74.68	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.3 ^E	<LOD ^E	2.1 ^E	x	x	x							
Age 60 to 79	72.73	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.7 ^E	0.99 ^E	2.4 ^E	x	x	x							
Age 3 to 79	72.21	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.5	1.1	2.0	2.4^E	1.3^E	3.5^E								

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F too unreliable to be published

<LOD less than the limit of detection

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-3**Arsenocholine — Urine concentrations (µg As/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	% <LOD [†]		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval			
	%	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	
Both Sexes																				
Age 3 to 5	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 6 to 11	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 12 to 19	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 20 to 39	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 40 to 59	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 60 to 79	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 3 to 79	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Males																				
Age 6 to 11	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 12 to 19	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 20 to 39	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x		
Age 40 to 59	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x			
Age 60 to 79	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x			
Age 3 to 79	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD			
Females																				
Age 6 to 11	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 12 to 19	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		
Age 20 to 39	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x			
Age 40 to 59	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x			
Age 60 to 79	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x			
Age 3 to 79	100	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD			

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<LOD less than the limit of detection

† the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.

Source: Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-4**Arsenocholine and arsenobetaine — Urine concentrations ($\mu\text{g As/L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile			50th Percentile			90th Percentile			95th Percentile			
	% <LOD [†]		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		
	%	<LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To
Both Sexes																	
Age 3 to 5	59.96	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	16 ^E	5.4 ^E	26 ^E	F	F	F			
Age 6 to 11	59.77	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	15 ^E	5.2 ^E	25 ^E	39 ^E	13 ^E	64 ^E			
Age 12 to 19	49.80	‡	‡	‡	<LOD	<LOD	<LOD	0.75 ^E	1.2 ^E	16 ^E	9.4 ^E	22 ^E	26 ^E	13 ^E	39 ^E		
Age 20 to 39	37.12	1.9	1.5	2.5	<LOD	<LOD	<LOD	1.5 ^E	2.4 ^E	32 ^E	17 ^E	47 ^E	46 ^E	24 ^E	67 ^E		
Age 40 to 59	38.14	1.8	1.3	2.6	<LOD	<LOD	<LOD	1.3 ^E	1.9 ^E	F	F	F	37 ^E	18 ^E	56 ^E		
Age 60 to 79	30.19	2.8 ^E	1.7 ^E	4.7 ^E	<LOD	<LOD	<LOD	2.5 ^E	0.91 ^E	4.0 ^E	F	F	88 ^E	49 ^E	130 ^E		
Age 3 to 79	47.85	‡	‡	‡	<LOD	<LOD	<LOD	1.2^E	<LOD^E	1.7^E	28^E	13^E	44^E	49	33	65	
Males																	
Age 6 to 11	61.18	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F
Age 12 to 19	53.75	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	16 ^E	4.9 ^E	28 ^E	29 ^E	12 ^E	47 ^E			
Age 20 to 39	32.35	2.3 ^E	1.5 ^E	3.6 ^E	<LOD	<LOD	<LOD	F	F	F	32 ^E	14 ^E	50 ^E	X	X	X	
Age 40 to 59	37.01	2.3 ^E	1.3 ^E	4.0 ^E	<LOD	<LOD	<LOD	F	F	F	F	F	F	X	X	X	
Age 60 to 79	27.57	2.9 ^E	1.8 ^E	4.8 ^E	<LOD	<LOD	<LOD	F	F	F	41 ^E	14 ^E	67 ^E	X	X	X	
Age 3 to 79	47.68	‡	‡	‡	<LOD	<LOD	<LOD	1.6^E	<LOD^E	2.6^E	33^E	12^E	54^E	44	30	59	
Females																	
Age 6 to 11	58.37	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	14 ^E	3.9 ^E	24 ^E	F	F	F			
Age 12 to 19	45.85	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	15	11	20	24 ^E	10 ^E	38 ^E	
Age 20 to 39	41.36	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	F	F	F	X	X	X	
Age 40 to 59	39.24	1.4 ^E	0.96 ^E	2.2 ^E	<LOD	<LOD	<LOD	0.99 ^E	<LOD ^E	1.5 ^E	F	F	F	X	X	X	
Age 60 to 79	32.95	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	X	X	X	
Age 3 to 79	48.02	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	F	F	F	52^E	18^E	86^E	

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‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-5
Dimethylarsinic acid (DMA) — Urine concentrations (µg As/L) for the Canadian population by sex and age group, 2014–2015

	Geometric Mean			10th Percentile			50th Percentile			90th Percentile			95th Percentile			
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		
		From	To		From	To		From	To		From	To		From	To	
Both Sexes																
Age 3 to 5	2.34	3.4	3.0	4.0	1.2	0.94	1.4	3.4	3.0	3.9	9.2	7.3	11	13	9.1	16
Age 6 to 11	2.14	3.8	3.2	4.5	1.3	0.89	1.7	3.9	3.3	4.5	10	6.4	14	16 ^E	5.7 ^E	26 ^E
Age 12 to 19	1.38	3.6	3.0	4.3	1.2 ^E	0.77 ^E	1.7 ^E	3.3	2.8	3.9	10	7.9	13	13	8.6	18
Age 20 to 39	3.31	3.6	3.1	4.1	1.1	<LOD	1.4	3.4	2.7	4.0	9.9	8.4	11	12	9.3	15
Age 40 to 59	4.17	3.3	2.8	4.0	1.1	0.89	1.3	3.1	2.4	3.8	10 ^E	4.7 ^E	16 ^E	18 ^E	8.6 ^E	27 ^E
Age 60 to 79	3.60	3.6	2.9	4.5	1.2	0.87	1.5	3.6	2.7	4.6	11	7.5	14	14 ^E	5.3 ^E	23 ^E
Age 3 to 79	2.65	3.5	3.1	3.9	1.1	1.0	1.3	3.4	3.0	3.8	10	8.2	12	15	11	20
Males																
Age 6 to 11	1.56	4.0	3.3	4.9	1.6	1.1	2.1	3.8	3.1	4.6	11 ^E	5.9 ^E	17 ^E	20 ^E	6.7 ^E	33 ^E
Age 12 to 19	1.58	3.5	2.8	4.3	1.2 ^E	<LOD ^E	1.7 ^E	3.1	2.2	3.9	11	7.3	15	14 ^E	7.5 ^E	21 ^E
Age 20 to 39	1.17	4.0	2.9	5.4	F	F	F	4.4	2.9	6.0	9.9	7.7	12	x	x	x
Age 40 to 59	4.55	3.3	2.5	4.4	0.92 ^E	<LOD ^E	1.4 ^E	3.5 ^E	2.0 ^E	4.9 ^E	14 ^E	3.9 ^E	24 ^E	x	x	x
Age 60 to 79	3.78	3.8	2.9	4.9	1.4	1.1	1.7	3.8	2.7	4.8	11	7.4	15	x	x	x
Age 3 to 79	2.27	3.6	3.1	4.3	1.1	0.81	1.3	3.6	3.0	4.3	11	8.2	14	19^E	9.8^E	28^E
Females																
Age 6 to 11	2.71	3.7	2.9	4.6	1.0 ^E	<LOD ^E	1.5 ^E	4.0	3.1	4.8	9.9	7.0	13	13 ^E	6.1 ^E	20 ^E
Age 12 to 19	1.19	3.8	3.2	4.4	1.3 ^E	<LOD ^E	1.8 ^E	3.5	3.0	4.1	10	7.8	13	12	8.6	16
Age 20 to 39	5.24	3.2	2.6	4.0	1.2 ^E	<LOD ^E	1.7 ^E	3.3	2.7	3.9	9.9	6.8	13	x	x	x
Age 40 to 59	3.80	3.4	2.8	4.0	1.3	1.0	1.7	3.1	2.4	3.7	F	F	x	x	x	x
Age 60 to 79	3.41	3.5	2.5	4.8	0.99 ^E	<LOD ^E	1.5 ^E	3.4 ^E	2.1 ^E	4.8 ^E	11	6.9	15	x	x	x
Age 3 to 79	3.02	3.4	3.0	3.9	1.2	1.1	1.4	3.3	2.9	3.7	9.8	7.7	12	13	9.0	17

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Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.

Source: Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-6
**Monomethylarsonic acid (MMA) — Urine concentrations (µg As/L) for the Canadian population by sex and age group,
 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile							
	% <LOD [†]		Estimate		Confidence interval		From		Estimate		Confidence interval		From		Estimate		Confidence interval		From		Estimate		Confidence interval	
	%	<LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	
Both Sexes																								
Age 3 to 5	79.10	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.89	0.81	0.98	1.1	0.94	1.3					
Age 6 to 11	72.57	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2	0.89	1.4	1.5	1.2	1.8					
Age 12 to 19	57.71	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	0.88	1.8	1.8	1.3	2.4					
Age 20 to 39	63.54	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	1.1	1.6	1.6	1.3	1.9					
Age 40 to 59	74.36	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2 ^E	<LOD ^E	1.7 ^E	1.9 ^E	<LOD ^E	3.0 ^E					
Age 60 to 79	82.27	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.84	1.3	1.3	0.99	1.6					
Age 3 to 79	71.25	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2	1.0	1.4	1.6	1.3	1.9					
Males																								
Age 6 to 11	74.22	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.0	<LOD	1.3	1.5	1.1	2.0					
Age 12 to 19	54.94	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.5 ^E	0.86 ^E	2.1 ^E	2.1 ^E	1.3 ^E	2.9 ^E					
Age 20 to 39	60.82	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.4	1.1	1.6	X	X	X					
Age 40 to 59	69.48	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.4 ^E	<LOD ^E	2.1 ^E	X	X	X					
Age 60 to 79	80.00	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.83	1.3	X	X	X					
Age 3 to 79	69.65	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	1.1	1.6	1.7	1.3	2.1					
Females																								
Age 6 to 11	70.93	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2	0.90	1.5	1.5 ^E	0.93 ^E	2.0 ^E					
Age 12 to 19	60.47	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2	0.91	1.6	1.8	1.4	2.2					
Age 20 to 39	65.97	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1 ^E	<LOD ^E	1.7 ^E	X	X	X					
Age 40 to 59	79.11	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.76	1.4	X	X	X					
Age 60 to 79	84.66	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.97 ^E	<LOD ^E	1.4 ^E	X	X	X					
Age 3 to 79	72.83	‡	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.89	1.3	1.5	1.1	1.9					

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<LOD less than the limit of detection

[†] the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.

Source: Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.1-7
Combined total of inorganic-related arsenic species (arsenate, arsenite, dimethylarsinic acid and monomethylarsonic acid) — Urine concentrations (µg As/L) for the Canadian population by sex and age group, 2014–2015

	Geometric Mean		10th Percentile		50th Percentile		90th Percentile		95th Percentile				
	Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval				
	% <LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To
Both Sexes													
Age 3 to 5	0	5.0	4.5	5.6	2.3	2.0	2.6	4.6	4.0	5.1	12	9.5	14
Age 6 to 11	0	5.5	4.9	6.3	2.5	2.0	2.9	5.0	4.3	5.7	13	8.9	18
Age 12 to 19	0	5.5	4.7	6.4	2.4	1.9	2.8	4.6	3.8	5.5	14	9.3	18
Age 20 to 39	0	5.5	4.9	6.1	2.2	1.8	2.6	4.9	4.2	5.7	14	12	16
Age 40 to 59	0	5.1	4.4	6.0	2.2	2.0	2.4	4.3	3.4	5.1	14 ^E	4.8 ^E	23 ^E
Age 60 to 79	0	5.4	4.5	6.5	2.3	1.9	2.6	4.8	3.7	6.0	15	10	19
Age 3 to 79	0	5.3	4.9	5.9	2.2	2.1	2.4	4.7	4.2	5.3	14	12	16
Males													
Age 6 to 11	0	5.7	4.8	6.7	2.7	2.2	3.2	4.9	4.1	5.8	15 ^E	7.3 ^E	22 ^E
Age 12 to 19	0	5.4	4.5	6.5	2.3	1.8	2.8	4.5	3.4	5.5	16 ^E	10 ^E	22 ^E
Age 20 to 39	0	6.1	4.9	7.6	2.2 ^E	0.72 ^E	3.6 ^E	6.0 ^E	3.8 ^E	8.3 ^E	14	11	17
Age 40 to 59	0	5.2	4.2	6.6	2.0	1.6	2.5	4.6	3.0	6.1	19 ^E	7.8 ^E	31 ^E
Age 60 to 79	0	5.6	4.6	6.8	2.5	2.1	2.8	5.0	3.7	6.3	16	10	21
Age 3 to 79	0	5.6	4.9	6.4	2.2	2.0	2.4	4.9	4.1	5.7	15	12	19
Females													
Age 6 to 11	0	5.4	4.7	6.3	2.2	1.7	2.6	5.2	4.3	6.0	13	9.8	17
Age 12 to 19	0	5.6	4.9	6.4	2.4	1.9	3.0	5.0	4.3	5.7	13	11	16
Age 20 to 39	0	5.0	4.2	5.9	2.3	1.9	2.7	4.5	3.7	5.3	14	9.4	18
Age 40 to 59	0	5.0	4.3	5.8	2.5	2.2	2.8	4.2	3.5	5.0	F	F	x
Age 60 to 79	0	5.3	4.1	6.7	2.1	1.5	2.8	4.6	3.1	6.1	14	9.2	19
Age 3 to 79	0	5.1	4.6	5.7	2.3	2.1	2.5	4.5	3.9	5.1	13	10	16

x suppressed to meet the confidentiality requirements of the *Statistics Act*

^E use with caution

F too unreliable to be published

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.

Source: Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.2**Cadmium — Whole blood concentrations ($\mu\text{g/L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	% <LOD [†]		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval			
	%	<LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To			
Both Sexes																				
Age 3 to 5	36.95	0.082	<LOD	0.091	<LOD	<LOD	<LOD	0.093	0.084	0.10	0.16	0.14	0.18	0.19	0.15	0.24				
Age 6 to 11	26.92	0.094	0.086	0.10	<LOD	<LOD	<LOD	0.10	0.096	0.10	0.16	0.14	0.19	0.19	0.17	0.21				
Age 12 to 19	12.22	0.14	0.13	0.15	<LOD	<LOD	<LOD	0.12	0.12	0.13	0.29	0.25	0.33	0.54 ^E	0.15 ^E	0.94 ^E				
Age 20 to 39	2.33	0.33	0.28	0.38	0.10	0.090	0.11	0.22	0.17	0.26	2.9	1.9	3.9	4.2 ^E	2.5 ^E	5.9 ^E				
Age 40 to 59	1.81	0.41	0.37	0.45	0.12	0.097	0.15	0.33	0.26	0.39	2.1 ^E	1.2 ^E	3.0 ^E	3.4	2.3	4.4				
Age 60 to 79	0.90	0.44	0.41	0.48	0.17	0.16	0.18	0.37	0.34	0.40	1.6	1.1	2.2	2.8	2.0	3.6				
Age 3 to 79	10.88	0.31	0.29	0.32	<LOD	<LOD	<LOD	0.25	0.23	0.26	1.9	1.5	2.4	3.3	2.6	4.0				
Males																				
Age 6 to 11	29.44	0.093	0.084	0.10	<LOD	<LOD	<LOD	0.10	0.096	0.10	0.16	0.14	0.19	0.19	0.16	0.22				
Age 12 to 19	13.24	0.14	0.12	0.15	<LOD	<LOD	<LOD	0.12	0.11	0.13	0.27	0.20	0.35	F	F	F				
Age 20 to 39	3.57	0.30	0.26	0.36	0.097	0.086	0.11	0.18	0.15	0.21	3.0 ^E	1.7 ^E	4.3 ^E	3.6 ^E	1.9 ^E	5.3 ^E				
Age 40 to 59	3.08	0.38	0.34	0.42	0.11	0.095	0.13	0.27	0.21	0.32	2.1 ^E	0.93 ^E	3.3 ^E	3.4 ^E	2.1 ^E	4.6 ^E				
Age 60 to 79	1.40	0.42	0.37	0.47	0.16	0.14	0.18	0.33	0.28	0.38	2.0	1.3	2.8	3.0 ^E	1.7 ^E	4.2 ^E				
Age 3 to 79	12.42	0.28	0.27	0.30	<LOD	<LOD	<LOD	0.20	0.19	0.21	2.0	1.4	2.6	3.3	2.5	4.2				
Females																				
Age 6 to 11	24.41	0.094	0.087	0.10	<LOD	<LOD	<LOD	0.10	0.095	0.11	0.17	0.14	0.19	0.19	0.17	0.21				
Age 12 to 19	11.18	0.15	0.13	0.17	<LOD	<LOD	<LOD	0.14	0.12	0.15	0.31	0.23	0.39	F	F	F				
Age 20 to 39	1.11	0.36	0.29	0.45	0.11	0.089	0.12	0.26	0.21	0.31	2.9 ^E	1.3 ^E	4.4 ^E	4.5 ^E	2.2 ^E	6.8 ^E				
Age 40 to 59	0.57	0.44	0.38	0.51	0.16	0.13	0.20	0.37	0.31	0.44	2.1 ^E	0.82 ^E	3.3 ^E	3.4 ^E	2.0 ^E	4.7 ^E				
Age 60 to 79	0.40	0.46	0.43	0.51	0.18	0.16	0.20	0.42	0.37	0.46	1.4 ^E	0.83 ^E	2.0 ^E	2.7 ^E	1.3 ^E	4.2 ^E				
Age 3 to 79	9.33	0.33	0.31	0.35	0.099	0.095	0.10	0.28	0.25	0.30	1.8^E	1.1^E	2.5^E	3.1	2.3	4.0				

^E use with caution

F too unreliable to be published

<LOD less than the limit of detection

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.3**Lead — Whole blood concentrations ($\mu\text{g}/\text{dL}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile				
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To		From	To		From	To		From	To
Both Sexes																					
Age 3 to 5	0	0.67	0.61	0.73	0.37	0.32	0.42	0.64	0.60	0.69	1.2	0.90	1.5	1.7	1.4	2.0					
Age 6 to 11	0.22	0.59	0.55	0.62	0.33	0.31	0.35	0.56	0.52	0.59	1.0	0.89	1.1	1.3	1.0	1.5					
Age 12 to 19	0.31	0.54	0.50	0.57	0.30	0.28	0.33	0.51	0.47	0.54	0.98	0.91	1.0	1.1	0.94	1.2					
Age 20 to 39	0.19	0.80	0.74	0.88	0.43	0.39	0.47	0.78	0.67	0.88	1.5	1.2	1.7	2.0	1.6	2.5					
Age 40 to 59	0	1.2	1.0	1.3	0.58	0.53	0.63	1.1	1.0	1.1	2.4	1.9	2.9	3.2	2.3	4.0					
Age 60 to 79	0	1.5	1.4	1.6	0.74	0.66	0.81	1.4	1.3	1.5	2.9	2.5	3.3	3.8	3.0	4.6					
Age 3 to 79	0.13	0.95	0.90	1.0	0.43	0.40	0.46	0.92	0.88	0.95	2.1	1.8	2.3	2.7	2.4	3.0					
Males																					
Age 6 to 11	0.22	0.60	0.55	0.65	0.33	0.29	0.37	0.57	0.52	0.62	1.0	0.79	1.2	1.3	0.95	1.7					
Age 12 to 19	0	0.61	0.56	0.66	0.34	0.31	0.37	0.57	0.51	0.62	1.0	0.86	1.2	1.3	1.0	1.5					
Age 20 to 39	0.19	0.94	0.83	1.1	0.46	0.44	0.49	0.89	0.79	1.0	2.0	1.5	2.5	2.4	2.0	2.8					
Age 40 to 59	0	1.2	1.1	1.3	0.68	0.55	0.81	1.1	1.0	1.1	2.6 ^E	1.6 ^E	3.5 ^E	3.5	2.6	4.4					
Age 60 to 79	0	1.5	1.4	1.6	0.78	0.69	0.87	1.4	1.4	1.5	2.8	2.2	3.4	4.0	2.6	5.4					
Age 3 to 79	0.07	1.0	0.98	1.1	0.47	0.45	0.49	1.0	0.97	1.0	2.2	1.9	2.4	2.9	2.3	3.5					
Females																					
Age 6 to 11	0.22	0.58	0.54	0.62	0.32	0.30	0.35	0.55	0.51	0.58	1.0	0.93	1.1	1.2	0.86	1.5					
Age 12 to 19	0.62	0.47	0.42	0.52	0.28	0.24	0.31	0.46	0.41	0.51	0.82	0.69	0.95	1.0	0.88	1.1					
Age 20 to 39	0.18	0.69	0.63	0.75	0.40	0.34	0.45	0.63	0.50	0.76	1.2	1.1	1.4	1.4	1.3	1.6					
Age 40 to 59	0	1.1	0.95	1.2	0.48	0.42	0.54	1.0	0.92	1.2	2.4	1.9	2.8	2.7	2.4	3.0					
Age 60 to 79	0	1.4	1.3	1.6	0.66	0.54	0.78	1.3	1.2	1.5	2.9	2.4	3.5	3.7	2.8	4.7					
Age 3 to 79	0.18	0.87	0.81	0.94	0.40	0.36	0.43	0.83	0.78	0.89	2.0	1.6	2.3	2.6	2.3	2.8					

^E use with caution[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.4-1**Mercury (inorganic) — Urine concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean			10th Percentile			50th Percentile			90th Percentile			95th Percentile			
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		
		From	To		From	To		From	To		From	To		From	To	
Both Sexes																
Age 3 to 5	83.98	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	0.25 ^E	<LOD ^E	0.36 ^E	0.41 ^E	0.20 ^E	0.61 ^E	
Age 6 to 11	69.94	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	0.58 ^E	0.35 ^E	0.80 ^E	1.3	0.93	1.8	
Age 12 to 19	65.49	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	0.53	0.38	0.68	0.96	0.65	1.3	
Age 20 to 39	50.99	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	1.1 ^E	0.50 ^E	1.6 ^E	2.1 ^E	1.1 ^E	3.1 ^E	
Age 40 to 59	40.31	‡	‡	‡	<LOD	<LOD	<LOD	0.26	0.21	0.32	1.9	1.3	2.5	3.5 ^E	2.0 ^E	5.1 ^E
Age 60 to 79	41.69	‡	‡	‡	<LOD	<LOD	<LOD	0.26	0.20	0.32	1.5	1.1	1.9	2.4	2.0	2.7
Age 3 to 79	56.35	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	0.94	1.6	2.2	1.7	2.7	
Males																
Age 6 to 11	69.74	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	0.49 ^E	0.21 ^E	0.76 ^E	1.3 ^E	0.68 ^E	1.9 ^E	
Age 12 to 19	65.03	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	0.50	0.37	0.64	0.72	0.56	0.88	
Age 20 to 39	51.14	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.69	1.4	1.9 ^E	0.99 ^E	2.8 ^E	
Age 40 to 59	39.42	0.33	0.25	0.42	<LOD	<LOD	<LOD	0.31	0.20	0.43	1.9 ^E	0.91 ^E	2.8 ^E	3.6 ^E	1.5 ^E	5.7 ^E
Age 60 to 79	39.68	0.28	0.23	0.35	<LOD	<LOD	<LOD	0.25 ^E	<LOD ^E	0.35 ^E	1.7	1.1	2.3	2.4	1.6	3.1
Age 3 to 79	55.68	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	0.87	1.7	2.2	1.5	2.9	
Females																
Age 6 to 11	70.14	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	0.67 ^E	0.37 ^E	0.97 ^E	1.4 ^E	0.76 ^E	1.9 ^E	
Age 12 to 19	65.97	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	1.0	0.68	1.3	
Age 20 to 39	50.85	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F	
Age 40 to 59	41.20	‡	‡	‡	<LOD	<LOD	<LOD	0.22	<LOD	0.29	1.9 ^E	1.1 ^E	2.8 ^E	3.4 ^E	1.6 ^E	5.3 ^E
Age 60 to 79	43.72	‡	‡	‡	<LOD	<LOD	<LOD	0.26	0.19	0.34	1.4	1.1	1.6	2.3	1.6	3.1
Age 3 to 79	57.04	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	0.82	1.7	2.2	1.3^E	3.2^E	

^E use with caution^F too unreliable to be published

<LOD less than the limit of detection

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.4-2**Mercury (total) — Whole blood concentrations ($\mu\text{g}/\text{L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval			
	% <LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	
Both Sexes																				
Age 3 to 5	71.19	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.85 ^E	<LOD ^E	1.3 ^E	1.3 ^E	0.54 ^E	2.1 ^E				
Age 6 to 11	59.57	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1	0.84	1.3	1.5	0.96	2.0				
Age 12 to 19	61.33	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.3	0.92	1.7	2.2 ^E	1.2 ^E	3.2 ^E				
Age 20 to 39	40.54	‡	‡	‡	<LOD	<LOD	<LOD	0.48	<LOD	0.65	2.0	1.6	2.4	2.9	2.0	3.8				
Age 40 to 59	27.69	0.77	0.65	0.92	<LOD	<LOD	<LOD	0.80	0.63	0.98	3.1	2.2	4.1	3.7	2.9	4.6				
Age 60 to 79	24.92	0.88	0.73	1.1	<LOD	<LOD	<LOD	0.92	0.76	1.1	3.3	2.6	4.0	4.6	3.1	6.1				
Age 3 to 79	44.82	‡	‡	‡	<LOD	<LOD	<LOD	0.59	0.47	0.72	2.5	1.9	3.1	3.5	2.9	4.2				
Males																				
Age 6 to 11	60.39	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.93	0.62	1.2	1.3 ^E	0.80 ^E	1.9 ^E				
Age 12 to 19	61.79	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.4 ^E	0.79 ^E	1.9 ^E	F	F	F				
Age 20 to 39	38.79	0.56	0.45	0.69	<LOD	<LOD	<LOD	0.47 ^E	<LOD ^E	0.65 ^E	2.0	1.5	2.5	2.9 ^E	1.3 ^E	4.6 ^E				
Age 40 to 59	29.56	0.84	0.72	0.98	<LOD	<LOD	<LOD	0.90	0.72	1.1	3.5	2.5	4.4	4.1	2.9	5.3				
Age 60 to 79	24.65	0.86	0.69	1.1	<LOD	<LOD	<LOD	0.85	0.63	1.1	3.4	2.5	4.4	5.3	3.6	7.0				
Age 3 to 79	44.99	‡	‡	‡	<LOD	<LOD	<LOD	0.58	0.45	0.71	2.8	2.0	3.6	3.7	2.6	4.8				
Females																				
Age 6 to 11	58.75	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2	0.89	1.5	1.6 ^E	0.95 ^E	2.3 ^E				
Age 12 to 19	60.87	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.2 ^E	0.63 ^E	1.7 ^E	2.0 ^E	0.94 ^E	3.0 ^E				
Age 20 to 39	42.25	‡	‡	‡	<LOD	<LOD	<LOD	0.50 ^E	<LOD ^E	0.69 ^E	2.0	1.6	2.5	2.9	2.0	3.8				
Age 40 to 59	25.85	0.71	0.55	0.90	<LOD	<LOD	<LOD	0.72	0.50	0.95	2.3 ^E	1.4 ^E	3.2 ^E	3.4	2.4	4.5				
Age 60 to 79	25.20	0.89	0.72	1.1	<LOD	<LOD	<LOD	0.97	0.79	1.1	3.3	2.5	4.0	4.2	3.1	5.3				
Age 3 to 79	44.64	‡	‡	‡	<LOD	<LOD	<LOD	0.60	0.47	0.74	2.2	1.6	2.8	3.3	2.7	4.0				

^E use with caution^F too unreliable to be published

<LOD less than the limit of detection

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 3.4-3**Methylmercury — Whole blood concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile						
	% <LOD [†]		Estimate		Confidence interval		From		To		Confidence interval		From		To		Confidence interval		From		To		
Both Sexes																							
Age 20 to 39	25.76	0.42	0.34	0.52	<LOD	<LOD	<LOD	0.48	0.35	0.61	1.8	1.4	2.2	2.2	1.7	2.6							
Age 40 to 59	17.41	0.66	0.51	0.84	<LOD	<LOD	<LOD	0.56 ^E	0.33 ^E	0.79 ^E	3.7	2.5	4.9	4.3	3.3	5.3							
Age 60 to 79	11.20	0.83	0.63	1.1	<LOD	<LOD	<LOD	0.78 ^E	0.49 ^E	1.1 ^E	3.8	2.7	5.0	5.1	3.3	6.9							
Age 20 to 79	18.12	0.59	0.51	0.68	<LOD	<LOD	<LOD	0.57	0.45	0.68	2.8	1.9	3.7	4.1	3.5	4.6							
Males																							
Age 20 to 39	26.59	0.44	0.34	0.56	<LOD	<LOD	<LOD	0.47 ^E	0.26 ^E	0.68 ^E	2.0	1.5	2.5	x	x	x							
Age 40 to 59	13.73	0.76	0.60	0.97	<LOD	<LOD	<LOD	0.56 ^E	0.26 ^E	0.85 ^E	3.7	2.6	4.8	x	x	x							
Age 60 to 79	13.98	0.75	0.54	1.0	<LOD	<LOD	<LOD	0.66 ^E	0.33 ^E	1.0 ^E	3.5 ^E	1.5 ^E	5.5 ^E	x	x	x							
Age 20 to 79	18.16	0.62	0.53	0.71	<LOD	<LOD	<LOD	0.56	0.41	0.71	2.9	1.9	4.0	4.0	3.2	4.8							
Females																							
Age 20 to 39	25.00	0.41 ^E	0.28 ^E	0.60 ^E	<LOD	<LOD	<LOD	0.48 ^E	0.28 ^E	0.69 ^E	1.6	1.0	2.2	x	x	x							
Age 40 to 59	20.86	0.57 ^E	0.39 ^E	0.83 ^E	<LOD	<LOD	<LOD	0.57 ^E	0.23 ^E	0.91 ^E	3.7 ^E	1.2 ^E	6.1 ^E	x	x	x							
Age 60 to 79	8.33	0.91	0.69	1.2	0.25 ^E	<LOD ^E	0.36 ^E	0.88	0.60	1.2	4.0	2.7	5.3	x	x	x							
Age 20 to 79	18.08	0.57	0.46	0.70	<LOD	<LOD	<LOD	0.57	0.43	0.72	2.5^E	0.99^E	4.0^E	4.4	3.2	5.7							

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[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 4.1**Butyl paraben — Urine concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean			10th Percentile			50th Percentile			90th Percentile			95th Percentile		
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To		From	To
Both Sexes															
Age 3 to 5	83.37	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F
Age 6 to 11	90.08	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.1 ^E	0.30 ^E	1.8 ^E
Age 12 to 19	80.40	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F
Age 20 to 39	81.77	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F
Age 40 to 59	81.09	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F
Age 60 to 79	80.00	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	6.8	4.4	9.1
Age 3 to 79	83.15	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	4.3^E	2.0^E	6.6^E
Males															
Age 6 to 11	91.02	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Age 12 to 19	90.48	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Age 20 to 39	91.23	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x
Age 40 to 59	91.56	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x
Age 60 to 79	91.94	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	x	x	x
Age 3 to 79	90.12	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Females															
Age 6 to 11	89.15	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	1.7 ^E	0.67 ^E	2.8 ^E
Age 12 to 19	70.36	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F
Age 20 to 39	73.30	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	x	x	x
Age 40 to 59	70.89	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	x	x	x
Age 60 to 79	67.24	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	6.4 ^E	3.6 ^E	9.1 ^E	x	x	x
Age 3 to 79	76.26	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F	F	F	F

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[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)

‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 4.2**Ethyl paraben — Urine concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean		10th Percentile		50th Percentile		90th Percentile		95th Percentile			
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To
Both Sexes												
Age 3 to 5	65.95	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Age 6 to 11	78.79	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	2.0 ^E	1.1 ^E	2.9 ^E
Age 12 to 19	68.91	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	28 ^E
Age 20 to 39	54.42	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Age 40 to 59	52.56	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	98 ^E
Age 60 to 79	58.89	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	38 ^E	22 ^E	55 ^E
Age 3 to 79	64.86	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	27^E	14^E	39^E
Males												
Age 6 to 11	83.20	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	1.5 ^E	<LOD ^E	2.2 ^E
Age 12 to 19	80.56	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Age 20 to 39	64.91	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	10 ^E	2.9 ^E	17 ^E
Age 40 to 59	56.49	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	x
Age 60 to 79	70.97	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	x
Age 3 to 79	71.69	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	11	6.9	14
Females												
Age 6 to 11	74.42	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	2.9 ^E	1.4 ^E	4.3 ^E
Age 12 to 19	57.31	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	F	F	F
Age 20 to 39	45.03	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	F	x
Age 40 to 59	48.73	‡	‡	‡	<LOD	<LOD	<LOD	F	F	F	F	x
Age 60 to 79	45.98	‡	‡	‡	<LOD	<LOD	<LOD	F	F	66 ^E	31 ^E	100 ^E
Age 3 to 79	58.11	‡	‡	‡	<LOD	<LOD	<LOD	<LOD	<LOD	39^E	14^E	64^E

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‡ if >40% of samples were below the LOD, the percentile distribution is reported but means were not calculated

Note: Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 4.3**Methyl paraben — Urine concentrations ($\mu\text{g/L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean		10th Percentile		50th Percentile		90th Percentile		95th Percentile							
	Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval							
	% <LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To			
Both Sexes																
Age 3 to 5	6.26	12	9.3	15	1.9 ^E	<LOD ^E	2.7 ^E	8.0	5.9	10	110 ^E	50 ^E	170 ^E	330 ^E	110 ^E	560 ^E
Age 6 to 11	9.73	7.6	6.4	9.1	1.4	<LOD	1.8	6.1	4.0	8.2	43	30	57	F	F	F
Age 12 to 19	8.12	14 ^E	9.1 ^E	21 ^E	<LOD	<LOD	<LOD	9.7	6.4	13	300 ^E	130 ^E	470 ^E	520 ^E	250 ^E	780 ^E
Age 20 to 39	7.18	16 ^E	9.3 ^E	28 ^E	1.3 ^E	<LOD ^E	1.9 ^E	F	F	F	300 ^E	170 ^E	430 ^E	390 ^E	180 ^E	610 ^E
Age 40 to 59	11.22	21 ^E	11 ^E	38 ^E	<LOD	<LOD	<LOD	F	F	F	270 ^E	93 ^E	440 ^E	550 ^E	250 ^E	860 ^E
Age 60 to 79	8.61	20	16	26	1.4 ^E	<LOD ^E	2.0 ^E	22 ^E	8.2 ^E	36 ^E	F	F	F	680 ^E	210 ^E	1200 ^E
Age 3 to 79	8.39	17	13	22	<LOD	<LOD	<LOD	15	9.8	20	270	190	340	490	340	640
Males																
Age 6 to 11	10.55	6.2	4.8	8.2	<LOD	<LOD	<LOD	5.1	3.9	6.3	F	F	F	F	F	F
Age 12 to 19	10.32	8.1 ^E	5.2 ^E	12 ^E	<LOD	<LOD	<LOD	6.1 ^E	3.1 ^E	9.1 ^E	F	F	F	F	F	F
Age 20 to 39	9.36	9.5 ^E	5.6 ^E	16 ^E	F	F	F	F	F	F	F	F	F	x	x	x
Age 40 to 59	16.88	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	x	x	x
Age 60 to 79	12.90	7.4	5.4	10	<LOD	<LOD	<LOD	4.6 ^E	2.7 ^E	6.5 ^E	77	50	100	x	x	x
Age 3 to 79	10.51	9.4	6.9	13	<LOD	<LOD	<LOD	6.8^E	4.2^E	9.4^E	F	F	F	F	F	F
Females																
Age 6 to 11	8.91	9.5	7.3	12	1.4 ^E	<LOD ^E	2.1 ^E	10 ^E	4.9 ^E	16 ^E	55 ^E	27 ^E	84 ^E	140 ^E	58 ^E	220 ^E
Age 12 to 19	5.93	24 ^E	14 ^E	42 ^E	F	F	F	F	F	F	370	240	510	590 ^E	260 ^E	910 ^E
Age 20 to 39	5.24	F	F	F	F	F	F	F	F	F	370	270	480	x	x	x
Age 40 to 59	5.70	35 ^E	18 ^E	69 ^E	F	F	F	F	F	F	260	200	320	x	x	x
Age 60 to 79	4.02	54 ^E	28 ^E	100 ^E	F	F	F	85 ^E	53 ^E	120 ^E	680 ^E	220 ^E	1100 ^E	x	x	x
Age 3 to 79	6.28	30	21	43	1.8	1.3	2.4	F	F	F	310^E	170^E	440^E	510^E	170^E	850^E

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Table 4.4**Propyl paraben — Urine concentrations ($\mu\text{g/L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile				
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To		From	To		From	To		From	To
Both Sexes																					
Age 3 to 5	20.16	1.5	1.1	2.0	<LOD	<LOD	<LOD	1.2 ^E	0.67 ^E	1.7 ^E	16 ^E	7.3 ^E	24 ^E	F	F	F					
Age 6 to 11	22.76	1.2	0.99	1.6	<LOD	<LOD	<LOD	0.95 ^E	0.58 ^E	1.3 ^E	11	7.8	14	F	F	F					
Age 12 to 19	18.42	2.3 ^E	1.6 ^E	3.3 ^E	<LOD	<LOD	<LOD	1.8 ^E	1.1 ^E	2.4 ^E	55 ^E	17 ^E	92 ^E	110 ^E	56 ^E	170 ^E					
Age 20 to 39	17.68	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F	F	F	F		
Age 40 to 59	19.87	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F	F	F	F		
Age 60 to 79	26.39	3.0 ^E	2.0 ^E	4.6 ^E	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	F	F	F	F		
Age 3 to 79	20.83	2.5	1.8	3.5	<LOD	<LOD	<LOD	2.0^E	1.2^E	2.7^E	59^E	34^E	85^E	130^E	67^E	180^E					
Males																					
Age 6 to 11	23.44	0.99	0.69	1.4	<LOD	<LOD	<LOD	0.85 ^E	0.51 ^E	1.2 ^E	F	F	F	F	F	F	F	F	F	F	
Age 12 to 19	26.98	1.2	0.88	1.7	<LOD	<LOD	<LOD	0.86 ^E	0.50 ^E	1.2 ^E	F	F	F	F	F	F	x	x	x	x	
Age 20 to 39	24.56	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	F	x	x	x	x		
Age 40 to 59	26.62	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	F	x	x	x	x	x		
Age 60 to 79	38.17	0.85 ^E	0.53 ^E	1.4 ^E	<LOD	<LOD	<LOD	0.45 ^E	<LOD ^E	0.69 ^E	23 ^E	8.0 ^E	37 ^E	x	x	x	x	x	x	x	
Age 3 to 79	26.51	1.3	0.96	1.8	<LOD	<LOD	<LOD	0.77	0.55	0.99	F	F	F	F	F	F					
Females																					
Age 6 to 11	22.09	1.6	1.3	1.9	<LOD	<LOD	<LOD	1.3 ^E	0.64 ^E	2.0 ^E	15 ^E	5.0 ^E	25 ^E	44 ^E	13 ^E	76 ^E					
Age 12 to 19	9.88	4.4 ^E	2.5 ^E	7.7 ^E	<LOD	<LOD	<LOD	3.5 ^E	1.5 ^E	5.5 ^E	F	F	F	150 ^E	82 ^E	220 ^E					
Age 20 to 39	11.52	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	x	x	x	x	x	x		
Age 40 to 59	13.29	F	F	F	<LOD	<LOD	<LOD	F	F	F	F	F	F	x	x	x	x	x	x		
Age 60 to 79	13.79	10 ^E	5.1 ^E	20 ^E	<LOD	<LOD	<LOD	13 ^E	4.8 ^E	21 ^E	F	F	F	x	x	x	x	x	x	x	
Age 3 to 79	15.21	4.9^E	3.2^E	7.6^E	<LOD	<LOD	<LOD	5.6^E	1.9^E	9.4^E	83^E	38^E	130^E	170^E	58^E	280^E					

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Table 5.1**Benzene — Whole blood concentrations ($\mu\text{g}/\text{L}$) for the Canadian population by sex and age group, Canadian Health Measures Survey cycle 4 (2014–2015)**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile				
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To		From	To		From	To		From	To
Both Sexes																					
Age 12 to 19	9.65	0.028 ^E	0.019 ^E	0.041 ^E	0.0087 ^E	<LOD ^E	0.014 ^E	0.029 ^E	0.013 ^E	0.045 ^E	0.087	0.068	0.11	0.12	0.074	0.16	0.17 ^E	0.11 ^E	0.24 ^E		
Age 20 to 39	6.69	0.033 ^E	0.021 ^E	0.051 ^E	0.0097 ^E	<LOD ^E	0.014 ^E	0.031 ^E	0.0097 ^E	0.052 ^E	0.12	0.074	0.16	0.14	0.089	0.18	0.17 ^E	0.11 ^E	0.24 ^E		
Age 40 to 59	6.26	0.041 ^E	0.027 ^E	0.062 ^E	0.010 ^E	<LOD ^E	0.015 ^E	0.037 ^E	0.014 ^E	0.060 ^E	0.18	0.13	0.22	0.29 ^E	0.18 ^E	0.40 ^E	0.29 ^E	0.18 ^E	0.40 ^E		
Age 60 to 79	6.93	0.031	0.023	0.042	0.0084 ^E	<LOD ^E	0.013 ^E	0.030	0.021	0.039	0.13	0.085	0.17	0.24 ^E	0.15 ^E	0.33 ^E	0.24 ^E	0.15 ^E	0.33 ^E		
Age 12 to 79	7.48	0.034^E	0.024^E	0.050^E	0.0093^E	<LOD^E	0.013^E	0.033^E	0.017^E	0.049^E	0.14	0.090	0.19	0.21	0.16	0.26					
Males																					
Age 12 to 19	7.85	0.031 ^E	0.021 ^E	0.045 ^E	0.011 ^E	<LOD ^E	0.016 ^E	0.034 ^E	0.015 ^E	0.052 ^E	0.087	0.057	0.12	0.12	0.061 ^E	0.18 ^E	0.12 ^E	0.061 ^E	0.18 ^E		
Age 20 to 39	6.79	0.035	0.025	0.051	0.0096 ^E	<LOD ^E	0.015 ^E	0.037 ^E	0.017 ^E	0.056 ^E	0.11	0.071	0.15	0.14	0.089	0.18	0.14	0.089	0.18		
Age 40 to 59	5.38	0.041 ^E	0.024 ^E	0.070 ^E	F	F	F	F	F	F	0.18	0.12	0.23	0.25 ^E	0.084 ^E	0.41 ^E	0.25 ^E	0.084 ^E	0.41 ^E		
Age 60 to 79	5.47	0.038	0.028	0.051	0.0098 ^E	<LOD ^E	0.015 ^E	0.032	0.023	0.041	0.23 ^E	0.14 ^E	0.33 ^E	0.38 ^E	0.19 ^E	0.57 ^E	0.38 ^E	0.19 ^E	0.57 ^E		
Age 12 to 79	6.44	0.037	0.026	0.054	0.0097^E	<LOD^E	0.015^E	0.036^E	0.019^E	0.054^E	0.16	0.10	0.21	0.23	0.15	0.31					
Females																					
Age 12 to 19	11.45	0.025 ^E	0.017 ^E	0.038 ^E	<LOD	<LOD	<LOD	0.027 ^E	0.013 ^E	0.042 ^E	0.085	0.064	0.11	0.11	0.045 ^E	0.17 ^E	0.11	0.045 ^E	0.17 ^E		
Age 20 to 39	6.60	0.030 ^E	0.016 ^E	0.057 ^E	0.0091 ^E	<LOD ^E	0.014 ^E	F	F	F	F	F	F	0.19 ^E	0.12 ^E	0.26 ^E	0.19 ^E	0.12 ^E	0.26 ^E		
Age 40 to 59	7.09	0.041 ^E	0.028 ^E	0.059 ^E	0.011 ^E	<LOD ^E	0.015 ^E	0.035 ^E	0.017 ^E	0.052 ^E	0.18 ^E	0.11 ^E	0.24 ^E	0.29 ^E	0.18 ^E	0.41 ^E	0.29 ^E	0.18 ^E	0.41 ^E		
Age 60 to 79	8.39	0.026	0.019	0.038	0.0077 ^E	<LOD ^E	0.013 ^E	0.027 ^E	0.015 ^E	0.038 ^E	0.094	0.069	0.12	0.12	0.076	0.16	0.12	0.076	0.16		
Age 12 to 79	8.49	0.032^E	0.021^E	0.048^E	0.0090^E	<LOD^E	0.013^E	0.030^E	0.015^E	0.045^E	0.13^E	0.071^E	0.19^E	0.19	0.14	0.25					

^E use with caution^F too unreliable to be published

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[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 5.2**Ethylbenzene — Whole blood concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean			10th Percentile			50th Percentile			90th Percentile			95th Percentile			
	Confidence interval			Confidence interval			Confidence interval			Confidence interval			Confidence interval			
	% <LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To
Both Sexes																
Age 12 to 19	15.37	0.022	0.017	0.027	<LOD	<LOD	<LOD	0.022	0.016	0.027	0.053	0.044	0.061	0.065	0.052	0.077
Age 20 to 39	12.75	0.024	0.019	0.032	<LOD	<LOD	<LOD	0.023	0.016	0.029	0.062 ^E	0.034 ^E	0.089 ^E	F	F	F
Age 40 to 59	8.36	0.029	0.023	0.036	0.012 ^E	<LOD ^E	0.016 ^E	0.025	0.017	0.033	0.098	0.070	0.13	0.12	0.10	0.14
Age 60 to 79	10.55	0.027	0.024	0.030	<LOD	<LOD	<LOD	0.026	0.022	0.029	0.087	0.074	0.10	0.12	0.084	0.15
Age 12 to 79	11.90	0.026	0.022	0.031	<LOD	<LOD	<LOD	0.024	0.018	0.029	0.078	0.061	0.094	0.11	0.089	0.13
Males																
Age 12 to 19	17.51	0.021	0.016	0.028	<LOD	<LOD	<LOD	0.023 ^E	0.014 ^E	0.032 ^E	0.053	0.043	0.062	0.066	0.048	0.083
Age 20 to 39	11.64	0.028	0.022	0.037	<LOD	<LOD	<LOD	0.026	0.019	0.033	0.063 ^E	0.020 ^E	0.11 ^E	F	F	F
Age 40 to 59	8.31	0.029	0.022	0.039	<LOD	<LOD	<LOD	0.027 ^E	0.014 ^E	0.040 ^E	0.11	0.073	0.14	0.12	0.088	0.15
Age 60 to 79	7.88	0.032	0.028	0.037	0.012	<LOD	0.014	0.029	0.024	0.034	0.10	0.071	0.14	0.13	0.084	0.18
Age 12 to 79	11.62	0.028	0.023	0.035	<LOD	<LOD	<LOD	0.027	0.019	0.034	0.088	0.067	0.11	0.12	0.086	0.15
Females																
Age 12 to 19	13.24	0.022	0.018	0.027	<LOD	<LOD	<LOD	0.021	0.017	0.026	0.054	0.043	0.065	0.064	0.048	0.079
Age 20 to 39	13.82	0.021	0.015	0.029	<LOD	<LOD	<LOD	0.020 ^E	0.012 ^E	0.027 ^E	0.053 ^E	0.015 ^E	0.091 ^E	0.077 ^E	0.036 ^E	0.12 ^E
Age 40 to 59	8.41	0.028	0.023	0.035	0.012 ^E	<LOD ^E	0.017 ^E	0.024	0.019	0.030	0.083 ^E	0.038 ^E	0.13 ^E	0.12	0.096	0.15
Age 60 to 79	13.29	0.023	0.020	0.026	<LOD	<LOD	<LOD	0.023	0.019	0.026	0.060	0.041	0.078	0.079	0.064	0.094
Age 12 to 79	12.16	0.024	0.020	0.029	<LOD	<LOD	<LOD	0.022	0.018	0.026	0.065	0.046	0.084	0.093	0.068	0.12

^E use with caution^F too unreliable to be published

<LOD less than the limit of detection

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 5.3**Toluene — Whole blood concentrations ($\mu\text{g}/\text{L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile				
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To		From	To		From	To		From	To
Both Sexes																					
Age 12 to 19	0	0.096	0.070	0.13	0.039	0.028	0.050	0.097	0.061	0.13	0.22 ^E	0.14 ^E	0.31 ^E	0.30 ^E	0.17 ^E	0.44 ^E	F	F	F	F	
Age 20 to 39	0	0.12	0.094	0.16	0.047 ^E	0.027 ^E	0.067 ^E	0.12 ^E	0.076 ^E	0.17 ^E	0.30 ^E	0.19 ^E	0.41 ^E	0.46	0.30	0.61	F	F	F	F	
Age 40 to 59	0.17	0.13	0.10	0.18	0.045	0.029	0.060	0.11	0.071	0.14	0.51	0.34	0.67	0.72	0.55	0.88	F	F	F	F	
Age 60 to 79	0.18	0.12	0.089	0.16	0.038 ^E	0.023 ^E	0.054 ^E	0.099 ^E	0.061 ^E	0.14 ^E	0.49	0.34	0.64	0.70	0.46	0.94	F	F	F	F	
Age 12 to 79	0.08	0.12	0.094	0.16	0.044	0.028	0.059	0.11	0.076	0.14	0.42	0.27	0.58	0.55	0.39	0.71	F	F	F	F	
Males																					
Age 12 to 19	0	0.095	0.068	0.13	0.038	0.026	0.050	0.099	0.063	0.14	0.22 ^E	0.13 ^E	0.32 ^E	0.30 ^E	0.19 ^E	0.42 ^E	F	F	F	F	
Age 20 to 39	0	0.13	0.097	0.19	0.046 ^E	0.016 ^E	0.076 ^E	0.14 ^E	0.081 ^E	0.20 ^E	0.30	0.23	0.36	0.44 ^E	0.26 ^E	0.63 ^E	F	F	F	F	
Age 40 to 59	0.35	0.14	0.11	0.19	0.051 ^E	0.024 ^E	0.077 ^E	0.11	0.078	0.14	0.50 ^E	0.26 ^E	0.75 ^E	0.73 ^E	0.37 ^E	1.1 ^E	F	F	F	F	
Age 60 to 79	0.36	0.14	0.10	0.20	0.039 ^E	0.017 ^E	0.060 ^E	0.12 ^E	0.064 ^E	0.18 ^E	0.58 ^E	0.35 ^E	0.81 ^E	0.79	0.53	1.0	F	F	F	F	
Age 12 to 79	0.17	0.13	0.10	0.18	0.044 ^E	0.023 ^E	0.065 ^E	0.12	0.085	0.15	0.46	0.30	0.61	0.65	0.41	0.88	F	F	F	F	
Females																					
Age 12 to 19	0	0.096	0.071	0.13	0.040	0.028	0.052	0.091 ^E	0.055 ^E	0.13 ^E	0.22 ^E	0.14 ^E	0.31 ^E	F	F	F	F	F	F	F	
Age 20 to 39	0	0.12	0.086	0.15	0.047 ^E	0.029 ^E	0.065 ^E	0.12 ^E	0.058 ^E	0.17 ^E	0.33 ^E	0.12 ^E	0.54 ^E	0.47 ^E	0.29 ^E	0.65 ^E	F	F	F	F	
Age 40 to 59	0	0.13 ^E	0.087 ^E	0.19 ^E	0.044	0.031	0.057	0.11 ^E	0.040 ^E	0.18 ^E	0.53	0.33	0.72	0.71	0.56	0.86	F	F	F	F	
Age 60 to 79	0	0.10	0.076	0.14	0.037 ^E	0.022 ^E	0.051 ^E	0.096	0.067	0.12	0.29 ^E	0.13 ^E	0.45 ^E	0.47 ^E	0.23 ^E	0.70 ^E	F	F	F	F	
Age 12 to 79	0	0.11	0.086	0.15	0.043	0.030	0.055	0.10 ^E	0.058 ^E	0.14 ^E	0.37 ^E	0.17 ^E	0.57 ^E	0.53	0.43	0.64	F	F	F	F	

^E use with caution^F too unreliable to be published[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 5.4-1**m-Xylene & p-xylene — Whole blood concentrations ($\mu\text{g}/\text{L}$) for the Canadian population by sex and age group, 2014–2015**

	Geometric Mean				10th Percentile				50th Percentile				90th Percentile				95th Percentile			
	% <LOD [†]		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval		Confidence interval			
	%	<LOD [†]	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To	Estimate	From	To			
Both Sexes																				
Age 12 to 19	7.90	0.054	0.043	0.067	0.024 ^E	<LOD ^E	0.033 ^E	0.055	0.044	0.066	0.12	0.092	0.14	0.16	0.12	0.20				
Age 20 to 39	7.21	0.059	0.046	0.076	<LOD	<LOD	<LOD	0.055	0.037	0.073	0.16	0.12	0.19	F	F	F				
Age 40 to 59	6.43	0.067	0.054	0.083	<LOD ^E	<LOD ^E	0.034 ^E	0.069	0.050	0.088	0.21	0.15	0.26	0.27	0.21	0.33				
Age 60 to 79	7.44	0.071	0.063	0.080	0.025	<LOD	0.034	0.068	0.057	0.079	0.22	0.17	0.27	0.31	0.23	0.39				
Age 12 to 79	7.27	0.063	0.053	0.075	0.023	<LOD	0.030	0.061	0.047	0.076	0.18	0.15	0.21	0.26	0.22	0.30				
Males																				
Age 12 to 19	7.63	0.056	0.045	0.070	0.027	<LOD	0.035	0.059	0.044	0.073	0.12	0.085	0.15	0.16 ^E	0.089 ^E	0.23 ^E				
Age 20 to 39	6.51	0.073	0.056	0.095	0.027 ^E	<LOD ^E	0.039 ^E	0.070	0.052	0.088	F	F	F	F	F	F				
Age 40 to 59	6.98	0.062	0.047	0.082	<LOD	<LOD	<LOD	0.068 ^E	0.042 ^E	0.094 ^E	0.26	0.17	0.35	0.30	0.23	0.38				
Age 60 to 79	6.16	0.082	0.066	0.10	F	F	F	0.077	0.060	0.094	0.30 ^E	0.19 ^E	0.41 ^E	0.35 ^E	0.12 ^E	0.58 ^E				
Age 12 to 79	6.86	0.069	0.057	0.083	<LOD	<LOD	<LOD	0.069	0.055	0.084	0.21	0.15	0.27	0.30	0.22	0.39				
Females																				
Age 12 to 19	8.17	0.051	0.039	0.067	<LOD	<LOD	<LOD	0.052	0.040	0.064	0.11	0.084	0.14	0.15	0.11	0.20				
Age 20 to 39	7.89	0.047	0.035	0.065	<LOD	<LOD	<LOD	0.046 ^E	0.027 ^E	0.066 ^E	0.12 ^E	0.048 ^E	0.19 ^E	0.17	0.14	0.20				
Age 40 to 59	5.92	0.072	0.059	0.089	0.032	0.024	0.041	0.070	0.050	0.089	0.20	0.17	0.24	0.24 ^E	0.13 ^E	0.34 ^E				
Age 60 to 79	8.74	0.062	0.056	0.068	0.025	<LOD	0.033	0.058	0.050	0.067	0.16	0.11	0.21	0.24 ^E	0.15 ^E	0.33 ^E				
Age 12 to 79	7.66	0.059	0.049	0.069	0.024	<LOD	0.030	0.056	0.042	0.071	0.16	0.12	0.19	0.21	0.18	0.23				

^E use with caution^F too unreliable to be published

<LOD less than the limit of detection

[†]the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.

Table 5.4-2***o-Xylene — Whole blood concentrations (µg/L) for the Canadian population by sex and age group, 2014–2015***

	Geometric Mean				10th Percentile			50th Percentile			90th Percentile			95th Percentile		
	% <LOD [†]	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		
		From	To		From	To		From	To		From	To		From	To	
Both Sexes																
Age 12 to 19	32.17	0.013	0.0099	0.017	<LOD	<LOD	<LOD	0.014	0.0090	0.019	0.041	0.028	0.053	0.052	0.038	0.067
Age 20 to 39	32.41	0.012	0.0090	0.017	<LOD	<LOD	<LOD	0.012 ^E	<LOD ^E	0.018 ^E	0.046	0.036	0.057	F	F	F
Age 40 to 59	26.49	0.017	0.014	0.021	<LOD	<LOD	<LOD	0.018	0.012	0.023	0.060	0.049	0.071	0.087	0.063	0.11
Age 60 to 79	26.75	0.018	0.016	0.021	<LOD	<LOD	<LOD	0.019	0.015	0.023	0.077	0.058	0.096	0.096	0.070	0.12
Age 12 to 79	29.57	0.015	0.012	0.019	<LOD	<LOD	<LOD	0.016	0.011	0.020	0.056	0.045	0.066	0.082	0.063	0.10
Males																
Age 12 to 19	31.58	0.013	0.0098	0.017	<LOD	<LOD	<LOD	0.014	0.0097	0.019	0.041 ^E	0.023 ^E	0.058 ^E	0.053 ^E	0.029 ^E	0.077 ^E
Age 20 to 39	30.07	0.016 ^E	0.011 ^E	0.024 ^E	<LOD	<LOD	<LOD	0.016 ^E	<LOD ^E	0.023 ^E	F	F	F	F	F	F
Age 40 to 59	26.28	0.016	0.012	0.022	<LOD	<LOD	<LOD	0.018 ^E	0.0099 ^E	0.025 ^E	0.058 ^E	0.033 ^E	0.084 ^E	0.099 ^E	0.060 ^E	0.14 ^E
Age 60 to 79	22.02	0.021	0.017	0.026	<LOD	<LOD	<LOD	0.021	0.016	0.027	0.082	0.064	0.10	F	F	F
Age 12 to 79	27.71	0.017	0.013	0.021	<LOD	<LOD	<LOD	0.017	0.012	0.023	0.065	0.047	0.082	0.097^E	0.044^E	0.15^E
Females																
Age 12 to 19	32.75	0.013	0.0098	0.017	<LOD	<LOD	<LOD	0.013 ^E	<LOD ^E	0.019 ^E	0.040	0.028	0.051	0.049	0.038	0.061
Age 20 to 39	34.69	0.0098 ^E	<LOD ^E	0.014 ^E	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.035	0.026	0.044	0.048	0.039	0.056
Age 40 to 59	26.69	0.018	0.014	0.023	<LOD	<LOD	<LOD	0.018 ^E	0.011 ^E	0.025 ^E	0.059	0.044	0.075	0.078	0.053	0.10
Age 60 to 79	31.43	0.016	0.014	0.018	<LOD	<LOD	<LOD	0.017	0.013	0.021	0.054	0.037	0.070	0.089 ^E	0.052 ^E	0.13 ^E
Age 12 to 79	31.38	0.014	0.011	0.017	<LOD	<LOD	<LOD	0.015	0.010	0.019	0.049	0.039	0.058	0.064	0.048	0.080

^E use with caution

F too unreliable to be published

<LOD less than the limit of detection

[†] the results presented in this column represent the proportion of the sample that had results that were below the limit of detection (LOD)**Note:** Any results less than the LOD are assigned a value equal to half the value of the LOD.**Source:** Statistics Canada, Canadian Health Measures Survey, Cycle 4, 2014-2015.