

Table 42
Distribution of the household population by the concentration of plasma vitamin D, by age and sex,
Canada, 2007 to 2009

	Concentration of plasma vitamin D											
	Mean		5 th percentile				10 th percentile				25 th percentile	
	Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To
nanomoles per litre												
Both sexes												
Age 6 to 11	75.0	70.4	79.6	39.3	33.7	45.0	45.7	39.3	52.1	60.0	54.0	66.1
Age 12 to 19	68.1	63.8	72.4	27.5	23.5	31.4	34.9	28.5	41.2	48.9	43.5	54.4
Age 20 to 39	65.0	61.0	69.0	24.4	23.6	31.3	34.9	31.6	38.2	46.3	42.8	49.9
Age 40 to 59	66.5	63.9	69.1	28.1	25.6	30.7	36.7	32.5	40.9	49.3	46.3	52.3
Age 60 to 79	72.0	69.5	74.5	33.9	31.3	36.4	42.2	40.4	43.9	54.6	51.5	57.7
Age 6 to 19	70.6	67.1	74.2	30.5	25.7	35.2	38.4	33.5	43.4	53.1	48.9	57.4
Age 20 to 79	67.1	64.8	69.4	29.3	26.6	32.0	36.6	34.0	39.3	49.0	46.3	51.6
Age 6 to 79	67.7	65.3	70.1	29.4	26.7	32.1	36.9	34.1	39.7	49.5	46.8	52.2
Males												
Age 6 to 11	76.8	73.0	80.6	44.1	39.4	48.9	49.5	44.1	54.9	63.6	59.7	67.5
Age 12 to 19	65.6	60.9	70.4	26.7	22.4	31.0	31.9	26.4	37.5	44.5	39.0	50.1
Age 20 to 39	60.7	55.3	66.0	25.9	21.9	29.9	32.7	27.8	37.7	44.4	40.3	48.5
Age 40 to 59	66.0	62.4	69.5	27.4	25.0	29.7	31.7	25.8	37.6	48.2	44.2	52.2
Age 60 to 79	70.5	67.5	73.5	32.9	30.3	35.6	40.7	35.9	45.6	53.4	50.0	56.7
Age 6 to 19	69.7	65.8	73.6	30.5	25.5	35.4	37.3	31.6	42.9	51.2	45.7	56.8
Age 20 to 79	64.8	61.6	68.0	27.2	24.3	30.2	33.8	30.1	37.6	47.1	43.9	50.3
Age 6 to 79	65.7	62.6	68.8	27.5	24.7	30.3	34.4	30.5	38.3	47.4	44.2	50.7
Females												
Age 6 to 11	73.1	67.1	79.1	36.0	28.9	43.0	42.4	33.9	50.9	56.3	49.1	63.5
Age 12 to 19	70.8	65.9	75.8	27.7	20.6	34.8	38.4	29.5	47.4	53.7	48.6	58.8
Age 20 to 39	69.5	65.9	73.2	31.9	27.6	36.3	38.0	34.4	41.6	49.3	45.7	52.9
Age 40 to 59	67.1	65.0	69.2	30.7	26.4	35.0	38.7	34.9	42.4	50.0	46.3	53.6
Age 60 to 79	73.3	70.3	76.3	35.0	30.4	39.6	43.0	40.4	45.6	55.8	52.0	59.6
Age 6 to 19	71.7	67.8	75.6	30.5	23.9	37.1	39.4	33.3	45.6	54.7	50.7	58.7
Age 20 to 79	69.3	67.5	71.2	32.1	29.3	34.9	39.5	36.5	42.4	50.9	48.3	53.5
Age 6 to 79	69.7	67.8	71.7	32.0	29.0	34.9	39.5	36.5	42.4	51.3	48.5	54.0

	Concentration of plasma vitamin D											
	50 th percentile			75 th percentile			90 th percentile			95 th percentile		
	Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval	
		From	To		From	To		From	To		From	To
nanomoles per litre												
Both sexes												
Age 6 to 11	74.1	70.4	77.9	87.5	83.4	91.6	103.5	96.8	110.3	114.9	107.4	122.4
Age 12 to 19	64.2	59.8	68.7	85.0	79.4	90.7	104.0	97.9	110.1	115.9	110.0	121.9
Age 20 to 39	61.2	56.6	65.8	78.8	73.6	84.1	95.6	89.6	101.5	110.5	96.6	124.5
Age 40 to 59	65.8	62.4	69.2	81.0	78.3	83.6	97.5	93.8	101.1	110.5	102.5	118.6
Age 60 to 79	71.2	66.7	75.7	88.9	84.9	92.9	103.1	101.0	105.2	112.2	109.5	114.8
Age 6 to 19	69.0	65.4	72.6	86.5	82.8	90.2	103.8	98.7	109.0	115.8	111.2	120.4
Age 20 to 79	65.1	62.3	68.0	82.0	79.9	84.0	98.6	95.4	101.8	111.4	106.7	116.0
Age 6 to 79	65.7	63.0	68.5	82.9	80.8	85.0	99.5	96.5	102.5	112.2	107.9	116.4
Males												
Age 6 to 11	76.0	73.1	79.0	88.0	83.2	92.8	102.2	96.0	108.5	113.2	105.1	121.3
Age 12 to 19	63.0	58.3	67.7	83.5	76.8	90.1	101.5	94.4	108.6	111.3	105.1	117.5
Age 20 to 39	56.8	51.9	61.7	72.9	65.9	79.8	90.0	81.3	98.7	98.8	73.2	124.3
Age 40 to 59	65.3	60.6	70.0	81.4	76.4	86.3	97.6	92.1	103.1	112.5	100.6	124.4
Age 60 to 79	69.2	64.5	73.9	86.9	81.6	92.3	101.3	97.1	105.4	109.9	102.1	117.7
Age 6 to 19	69.1	64.9	73.2	86.1	81.3	90.9	101.8	95.6	107.9	112.0	106.7	117.3
Age 20 to 79	62.6	58.8	66.5	80.1	76.0	84.3	95.4	90.9	99.9	108.4	100.3	116.5
Age 6 to 79	63.9	60.3	67.5	81.0	77.2	84.8	97.4	93.2	101.6	108.7	102.5	114.9
Females												
Age 6 to 11	72.1	66.7	77.6	86.1	81.0	91.2	106.9	97.3	116.5	115.8	104.3	127.3
Age 12 to 19	66.4	60.5	72.4	87.0	80.4	93.5	105.3	94.6	116.0	119.2	106.5	131.9
Age 20 to 39	66.1	61.4	70.9	84.1	81.5	86.6	104.0	96.8	111.3	121.1	108.2	133.9
Age 40 to 59	66.3	63.3	69.3	80.6	77.5	83.7	96.1	92.3	99.8	110.2	102.9	117.4
Age 60 to 79	73.0	68.4	77.6	90.8	87.4	94.2	105.1	100.6	109.6	112.3	108.4	116.2
Age 6 to 19	68.9	64.7	73.1	86.9	82.9	90.9	106.6	99.3	113.9	116.7	107.7	125.8
Age 20 to 79	67.4	65.3	69.5	83.8	82.8	84.8	101.8	98.6	104.9	113.3	107.9	118.7
Age 6 to 79	67.9	65.7	70.1	84.1	82.6	85.5	102.3	99.5	105.1	114.9	110.1	119.7

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria. For more information regarding the exclusion criteria and the limit of detection for plasma vitamin D, please refer to the *Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 1*.

Source(s): Canadian Health Measures Survey, Cycle 1.