

Serum Vitamin B₁₂ (picomol/L)

Mean and selected percentiles of serum concentrations, by DRI age groups and sex, Canada household population, Canadian Health Measures Survey 2007 to 2009

Sex	Age Group	n	Mean (95% conf. interval)	Selected percentiles (95% confidence intervals)						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Males	9-13	390	402 (374,429)	204 (185,223)	226 (204,248)	289 (266,313)	373 (330,416)	502 (466,537)	608 (568,648)	658 (636,679)
	14-18	279	359 (327,390)	173 (142,204)	204 (178,230)	244 (218,269)	325 (295,354)	467 (399,534)	569 (509,630)	616 (576,656)
	19-30	292	326 (306,347)	171 (150,192)	192 (181,202)	233 (206,261)	299 (283,316)	392 (352,432)	517 (470,564)	557 (476,639)
	31-50	650	326 (310,342)	153 (130,176)	179 (165,193)	234 (220,248)	298 (284,312)	402 (366,438)	529 (479,579)	591 (549,633)
	51-70	537	310 (297,323)	143 (128,158)	165 (152,177)	200 (180,220)	280 (258,301)	389 (368,411)	508 (473,544)	598 (548,649)
	71-79	170	331 (301,362)	155 (139,170)	179 (158,201)	223 (200,247)	303 (258,348)	419 (338,499)	550 (486,614)	571 (535,607)
	19-79	1649	322 (313,331)	154 (143,165)	178 (172,184)	224 (210,237)	295 (285,305)	393 (377,409)	520 (490,550)	588 (566,611)
Females	9-13	361	414 (398,430)	199 (174,224)	230 (209,250)	306 (266,346)	411 (390,431)	519 (483,555)	615 (584,646)	669 (632,705)
	14-18	285	326 (295,357)	127 (96,158)	152 (128,177)	224 (194,255)	287 (253,321)	410 (336,484)	573 (473,673)	624 (569,679)
	19-30	333	304 (282,326)	143 (126,160)	154 (138,171)	195 (181,210)	269 (245,293)	401 (351,450)	512 (442,581)	578 (513,643)
	31-50	756	342 (315,368)	141 (124,158)	167 (138,195)	222 (202,243)	307 (277,337)	457 (407,506)	571 (535,608)	626 (569,682)
	51-70	557	357 (344,370)	157 (140,173)	187 (172,201)	223 (215,231)	322 (298,345)	464 (422,506)	585 (566,604)	652 (628,675)
	71-79	169	392 (350,434)	136 (104,168)	168 (126,209)	238 (187,290)	361 (293,429)	545 (493,597)	632 (602,662)	669 (628,710)
	19-79	1815	341 (326,356)	143 (133,153)	169 (155,184)	217 (209,225)	304 (281,328)	448 (420,477)	574 (558,590)	630 (609,650)

Data source: Canadian Health Measures Survey, Cycle 1

Notes

Total household population aged 9 to 79, except those meeting the exclusion criteria. For more information regarding the exclusion criteria, please refer to the [Canadian Health Measures Survey \(CHMS\) Data User Guide: Cycle 1](#).

Bootstrap weights included with the dataset were used to estimate the 95% confidence intervals for all means and percentiles assuming a student's t-distribution with 11 degrees of freedom.

A competitive chemiluminescent enzyme immunoassay (Immulite 2000 by DPC) was used to measure serum vitamin B₁₂ levels.

Measurements that fell below the limit of detection (LOD) were assigned a value equal to half the LOD. The limit of detection is 111 pmol/L.