## Canadian Health Measures Survey: Cycle 2 Data Tables



2009 to 2011



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# **Canadian Health Measures Survey: Cycle 2 Data Tables**

2009 to 2011

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## **Symbols**

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- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the Statistics Act
- E use with caution
- F too unreliable to be published
- \* significantly different from reference category (p < 0.05)

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## Introduction

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.

During CHMS cycle 2, physical measurements were collected in 18 sites across Canada from 6,395 people representing the Canadian population aged 3 to 79. Collection sites were located in seven provinces: Newfoundland and Labrador, Nova Scotia, Quebec, Ontario, Manitoba, Alberta and British Columbia. Collection started in August 2009 and continued until November 2011. Data are representative at the national level.

This publication is part of the release of CHMS data that began on September 20, 2012. Tables will be added to the publication at the time of future releases (planned for November 21, 2012 and April 17, 2013).

In addition to the data tables, each release of data is also accompanied by a user guide, data dictionaries, derived variable documentation, and analytical articles.

Many of the data tables for cycle 2 have the same or similar content to the data tables for cycle 1. Appendix 1 provides a concordance table for the two cycles.

For additional information about the CHMS:

Toll-free number: 1-800-263-1136

E-mail: infostats@statcan.gc.ca

Telecommunication device for the 1-866-753-7083

hearing impaired:

Statistics Canada website: www.statcan.gc.ca

## **Statistical tables**

Table 1 Average resting diastolic blood pressure, by age and sex, household population, Canada, 2009 to 2011

				Aver	age restin	g diastoli	c blood pressi	ıre				
	Mea	ın		5th perc	entile		10th pe	rcentile		25th per	centile	
	Estimate	Confide		Estimate	Confide interva		Estimate	Confide interva		Estimate	Confider interva	
		From	То		From	To		From	То		From	То
					millimetre	s of mer	cury (mmHg)					
Both sexes												
Age 6 to 11 Age 12 to 19	61 62	61 60	62 63	49 50	48 48	51 53	52 53	51 51	53 55	56 57	55 55	57 58
Age 20 to 39	69	67	70	55	54	57	58	57	59	62	61	63
Age 40 to 59	74	73	76	59	56	62	62	60	64	67	66	69
Age 60 to 79 Age 6 to 79	72 <b>70</b>	71 <b>69</b>	73 <b>71</b>	57 <b>54</b>	55 <b>54</b>	59 <b>55</b>	60 <b>57</b>	58 <b>57</b>	61 <b>58</b>	66 <b>62</b>	64 <b>61</b>	67 <b>63</b>
•	70	09	71	54	34	33	31	31	30	02	01	63
Males Age 6 to 11	61	60	62	48	46	50	50	48	53	56	54	57
Age 12 to 19	62	60	64	50	46	54	52	49	55	57	54	59
Age 20 to 39	70	69	72	57	55	60	59	58	61	64	62	65
Age 40 to 59	77	75	79	63	61	66	66	65	67	70	68	71
Age 60 to 79	73 <b>71</b>	72 <b>70</b>	74 <b>72</b>	58 <b>55</b>	56 <b>53</b>	59 <b>56</b>	60 <b>58</b>	57 <b>57</b>	62 <b>59</b>	66 <b>64</b>	65 <b>63</b>	68 <b>65</b>
Age 6 to 79	/1	70	12	55	33	30	30	31	39	04	03	65
Females Age 6 to 11	62	61	63	51	49	53	53	52	54	56	55	57
Age 12 to 19	62	60	63	51	49	53	54	53	55	57	56	58
Age 20 to 39	67	65	69	53	50	56	57	56	58	60	59	62
Age 40 to 59	71	69	73	56	53	60	60	57	62	65	63	66
Age 60 to 79	71	70	72	56	53	59	59	57	61	65	63	67
Age 6 to 79	68	67	69	54	54	55	56	56	57	61	60	62
				Aver	age restin	g diastoli	c blood pressu	ire				
	50th perc	entile		75th perc	entile		90th perc	entile		95th perc	entile	
	Estimate	Confider interva		Estimate	Confiden interval		Estimate	Confidence interval	ce	Estimate	Confiden interva	
		From	То	•	From	То		From	То	_	From	То
_					millimetres	of merc	ury (mmHg)					
Both sexes					millimetres	of merc	ury (mmHg)					—
Age 6 to 11	60	59	61	65	64	66	71	70	72	74	72	77
Age 6 to 11 Age 12 to 19	61	60	62	65 65	64 64	66 67	71 70	68	73	73	70	77
Age 6 to 11 Age 12 to 19 Age 20 to 39	61 67	60 66	62 68	65 65 73	64 64 71	66 67 74	71 70 79	68 76	73 83	73 85	70 80	77 90
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	61 67 73	60 66 71	62 68 74	65 65 73 79	64 64 71 77	66 67 74 82	71 70 79 87	68 76 84	73 83 89	73 85 90	70 80 86	77 90 93
Age 6 to 11 Age 12 to 19 Age 20 to 39	61 67	60 66	62 68	65 65 73	64 64 71	66 67 74	71 70 79	68 76	73 83	73 85	70 80	77 90
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Males	61 67 73 71 <b>68</b>	60 66 71 70 <b>68</b>	62 68 74 71 <b>69</b>	65 65 73 79 77 <b>75</b>	64 64 71 77 76 <b>74</b>	66 67 74 82 78 <b>76</b>	71 70 79 87 83 82	68 76 84 81 <b>80</b>	73 83 89 85 <b>85</b>	73 85 90 86 <b>87</b>	70 80 86 84 <b>85</b>	77 90 93 89 <b>89</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11	61 67 73 71 <b>68</b>	60 66 71 70 <b>68</b>	62 68 74 71 <b>69</b>	65 65 73 79 77 <b>75</b>	64 64 71 77 76 <b>74</b>	66 67 74 82 78 <b>76</b>	71 70 79 87 83 <b>82</b>	68 76 84 81 <b>80</b>	73 83 89 85 <b>85</b>	73 85 90 86 <b>87</b>	70 80 86 84 <b>85</b>	77 90 93 89 <b>89</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19	61 67 73 71 <b>68</b> 59	60 66 71 70 <b>68</b> 58 59	62 68 74 71 <b>69</b> 60 63	65 65 73 79 77 <b>75</b> 65 66	64 64 71 77 76 <b>74</b> 63 64	66 67 74 82 78 <b>76</b>	71 70 79 87 83 <b>82</b>	68 76 84 81 <b>80</b> 68 67	73 83 89 85 <b>85</b> 72 73	73 85 90 86 <b>87</b> 75 74	70 80 86 84 <b>85</b> 71 70	77 90 93 89 <b>89</b> 79 78
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	61 67 73 71 <b>68</b> 59 61 69	60 66 71 70 <b>68</b> 58 59 68	62 68 74 71 <b>69</b> 60 63 70	65 65 73 79 77 <b>75</b> 65 66 75	64 64 71 77 76 <b>74</b> 63 64 73	66 67 74 82 78 <b>76</b> 66 68 78	71 70 79 87 83 <b>82</b> 70 70 82	68 76 84 81 <b>80</b> 68 67 76	73 83 89 85 <b>85</b> 72 73 88	73 85 90 86 <b>87</b> 75 74 86	70 80 86 84 <b>85</b> 71 70 81	77 90 93 89 <b>89</b> 79 78 91
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	61 67 73 71 <b>68</b> 59 61 69 75	60 66 71 70 <b>68</b> 58 59 68 74	62 68 74 71 <b>69</b> 60 63 70 77	65 65 73 79 77 <b>75</b> 65 66 75	64 64 71 77 76 <b>74</b> 63 64 73 80	66 67 74 82 78 <b>76</b> 66 68 78 84	71 70 79 87 83 <b>82</b> 70 70 82 89	68 76 84 81 <b>80</b> 68 67 76 86	73 83 89 85 <b>85</b> 72 73 88 92	73 85 90 86 <b>87</b> 75 74 86 93	70 80 86 84 <b>85</b> 71 70 81 84	77 90 93 89 <b>89</b> 79 78 91 101
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	61 67 73 71 <b>68</b> 59 61 69	60 66 71 70 <b>68</b> 58 59 68	62 68 74 71 <b>69</b> 60 63 70	65 65 73 79 77 <b>75</b> 65 66 75	64 64 71 77 76 <b>74</b> 63 64 73	66 67 74 82 78 <b>76</b> 66 68 78	71 70 79 87 83 <b>82</b> 70 70 82	68 76 84 81 <b>80</b> 68 67 76	73 83 89 85 <b>85</b> 72 73 88	73 85 90 86 <b>87</b> 75 74 86	70 80 86 84 <b>85</b> 71 70 81	77 90 93 89 <b>89</b> 79 78 91
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	61 67 73 71 68 59 61 69 75 72 70	60 66 71 70 <b>68</b> 58 59 68 74 71 <b>69</b>	62 68 74 71 <b>69</b> 60 63 70 77 74 <b>71</b>	65 65 73 79 77 <b>75</b> 66 66 75 82 78	64 64 71 77 76 <b>74</b> 63 64 73 80 77 <b>76</b>	66 67 74 82 78 <b>76</b> 66 68 78 84 80 <b>79</b>	71 70 79 87 83 <b>82</b> 70 70 82 89 84 <b>85</b>	68 76 84 81 <b>80</b> 68 67 76 86 82 <b>82</b>	73 83 89 85 <b>85</b> 72 73 88 92 86 <b>88</b>	73 85 90 86 <b>87</b> 75 74 86 93 87 <b>89</b>	70 80 86 84 <b>85</b> 71 70 81 84 85 <b>86</b>	77 90 93 89 <b>89</b> 79 78 91 101 89 <b>91</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 59 Age 6 to 17 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Females Age 6 to 11	61 67 73 71 68 59 61 69 75 72 70	60 66 71 70 <b>68</b> 58 59 68 74 71 <b>69</b>	62 68 74 71 <b>69</b> 60 63 70 77 74 <b>71</b>	65 65 73 79 77 <b>75</b> 65 66 75 82 78 <b>77</b>	64 64 71 77 76 <b>74</b> 63 64 73 80 77 <b>76</b>	66 67 74 82 78 <b>76</b> 66 68 78 84 80 <b>79</b>	71 70 79 87 83 82 70 70 82 89 84 85	68 76 84 81 <b>80</b> 68 67 76 86 82 <b>82</b>	73 83 89 85 <b>85</b> <b>85</b> 72 73 88 92 86 <b>88</b>	73 85 90 86 <b>87</b> 75 74 86 93 87 <b>89</b>	70 80 86 84 <b>85</b> 71 70 81 84 85 <b>86</b>	77 90 93 89 <b>89</b> 79 78 91 101 89 <b>91</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 59 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Age 6 to 79	61 67 73 71 68 59 61 69 75 72 <b>70</b>	60 66 71 70 <b>68</b> 58 59 68 74 71 <b>69</b>	62 68 74 71 <b>69</b> 60 63 70 77 74 <b>71</b>	65 65 73 79 77 <b>75</b> 65 66 75 82 78 <b>77</b>	64 64 71 77 76 <b>74</b> 63 64 73 80 77 <b>76</b> 65 63	66 67 74 82 78 <b>76</b> 66 68 78 84 80 <b>79</b>	71 70 79 87 83 <b>82</b> 70 70 82 89 84 <b>85</b>	68 76 84 80 80 68 67 76 86 82 82	73 83 89 85 <b>85</b> 72 73 88 89 86 <b>88</b> 87 373	73 85 90 86 <b>87</b> 75 74 86 93 87 <b>89</b>	70 80 86 84 <b>85</b> 71 70 81 84 85 <b>86</b>	77 90 93 89 <b>89</b> 79 78 91 101 89 <b>91</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 10 to 79 Age 6 to 11 Age 12 to 19 Age 20 to 39	61 67 73 71 68 59 61 69 75 72 70	60 66 71 70 68 58 59 68 74 71 69	62 68 74 71 <b>69</b> 60 63 70 77 74 <b>71</b> 62 62 66	65 65 73 79 77 <b>75</b> 66 75 82 78 <b>77</b>	64 64 71 77 76 <b>74</b> 63 64 73 80 77 <b>76</b> 65 63 69	66 67 74 82 78 <b>76</b> 66 68 84 80 <b>79</b> 67 66 72	71 70 79 87 83 <b>82</b> 70 70 82 89 84 <b>85</b>	68 76 84 81 <b>80</b> 68 67 76 86 82 <b>82</b> <b>82</b>	73 83 89 85 85 72 73 88 92 86 88 73 73 79	73 85 90 86 <b>87</b> 75 74 86 93 87 <b>89</b>	70 80 86 84 <b>85</b> 71 70 81 84 85 <b>86</b> 72 70 77	77 90 93 89 <b>89</b> 79 78 91 101 89 <b>91</b> 77
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79	61 67 73 71 68 59 61 69 75 72 <b>70</b>	60 66 71 70 <b>68</b> 58 59 68 74 71 <b>69</b>	62 68 74 71 <b>69</b> 60 63 70 77 74 <b>71</b>	65 65 73 79 77 <b>75</b> 65 66 75 82 78 <b>77</b>	64 64 71 77 76 <b>74</b> 63 64 73 80 77 <b>76</b> 65 63	66 67 74 82 78 <b>76</b> 66 68 78 84 80 <b>79</b>	71 70 79 87 83 <b>82</b> 70 70 82 89 84 <b>85</b>	68 76 84 80 80 68 67 76 86 82 82	73 83 89 85 <b>85</b> 72 73 88 89 86 <b>88</b> 87 373	73 85 90 86 <b>87</b> 75 74 86 93 87 <b>89</b>	70 80 86 84 <b>85</b> 71 70 81 84 85 <b>86</b>	77 90 93 89 <b>89</b> 79 78 91 101 89 <b>91</b>

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 2 Average resting systolic blood pressure, by age and sex, household population, Canada, 2009 to 2011

				Ave	rage resti	ing systoli	c blood pressu	re				
	Mea	an		5th perc	entile		10th per	centile		25th per	centile	
	Estimate	Confide		Estimate	Confide		Estimate	Confide interv		Estimate	Confide	
		From	То	•	From	То		From	То		From	То
	<u> </u>				millimetre	es of mer	cury (mmHg)					
Both sexes	·											
Age 6 to 11	94	94	95	82	81	83	84	83	85	88	88	89
Age 12 to 19 Age 20 to 39	98 105	97 103	99 107	86 87	84 85	87 90	88 91	87 90	89 92	92 97	91 95	93 98
Age 40 to 59	113	111	116	92	88	96	96	94	99	103	100	106
Age 60 to 79	124	122	125	99	98	100	103	101	104	111	109	114
Age 6 to 79	110	108	111	88	87	88	91	91	92	98	97	99
Males												
Age 6 to 11	94	93	95	82	80	83	84	83	85	88	87	89
Age 12 to 19	100	99	101	87	84	89	89	88	90	93	92	94
Age 20 to 39	109	106	111	92	90	94	94	90	99	101	99	103
Age 40 to 59	116	114	119	97	94	99	101	97	104	107	105	109
Age 60 to 79 Age 6 to 79	122 <b>112</b>	120 <b>110</b>	125 <b>113</b>	99 <b>89</b>	97 <b>88</b>	100 <b>90</b>	102 <b>93</b>	100 <b>92</b>	104 <b>94</b>	111 <b>101</b>	108 <b>100</b>	114 <b>102</b>
· ·	112	110	113	69	00	90	93	92	94	101	100	102
Females Age 6 to 11	95	94	96	83	81	84	84	82	86	89	88	90
Age 12 to 19	96	95	97	84	83	86	87	86	88	91	90	92
Age 20 to 39	101	100	102	85	83	88	88	86	91	93	91	96
Age 40 to 59	110	107	113	89	85	93	93	88	98	100	96	103
Age 60 to 79	125	124	127	100	97	102	103	100	105	112	109	115
Age 6 to 79	108	106	109	87	85	88	90	89	91	96	95	97
				Ave	rage resti	ing systoli	c blood pressu	re				
	50th per	centile		75th per	centile		90th per	centile		95th per	centile	
	50th per Estimate	centile Confide interv		75th per Estimate	centile Confide interv		90th per Estimate	centile Confide interv		95th per Estimate	centile Confide interv	
		Confide			Confide			Confide			Confide	
		Confide interv	al		Confide interv From	al To		Confide interv	al		Confide interv	/al
Roth sexes		Confide interv	al		Confide interv From	al To	Estimate	Confide interv	al		Confide interv	/al
Both sexes Age 6 to 11		Confide interv	al		Confide interv From	al To	Estimate	Confide interv	al		Confide interv	/al
	Estimate	Confide interv From	ral To	Estimate -	Confide interv From millimetre	To es of mero	Estimate  Cury (mmHg)	Confide interv From	To	Estimate	Confide interv From	/al To
Age 6 to 11	Estimate 93	From  92 96 101	94 98 105	99 102 111	Confide interv From millimetre 98 101 108	99 104 114	Estimate  Cury (mmHg)  104 108 119	From  102 106 116	107 111 122	109 112 126	From  105 110 119	70 To 113 114 132
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	93 97 103 112	92 96 101 109	94 98 105 114	99 102 111 121	Confide interv From millimetre 98 101 108 119	99 104 114 124	Estimate  cury (mmHg)  104 108 119 131	Confide interv From  102 106 116 129	107 111 122 134	109 112 126 139	Confider intervention   From   105   110   119   134	70 To 113 114 132 144
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	93 97 103 112 121	92 96 101 109 120	94 98 105 114 123	99 102 111 121 133	Confide interv From millimetre  98 101 108 119 131	99 104 114 124 136	Estimate  cury (mmHg)  104 108 119 131 146	Confide interv From  102 106 116 129 143	107 111 122 134 149	109 112 126 139 157	Confide intervent	To 113 114 132 144 165
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	93 97 103 112	92 96 101 109	94 98 105 114	99 102 111 121	Confide interv From millimetre 98 101 108 119	99 104 114 124	Estimate  cury (mmHg)  104 108 119 131	Confide interv From  102 106 116 129	107 111 122 134	109 112 126 139	Confider intervention   From   105   110   119   134	70 To 113 114 132 144
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 <b>Males</b>	93 97 103 112 121 107	92 96 101 109 120 105	94 98 105 114 123 108	99 102 111 121 133 118	Confide interv From millimetre  98 101 108 119 131 116	99 104 114 124 136 120	Estimate  104 108 119 131 146 131	Confide interv From  102 106 116 129 143 128	107 111 122 134 149 133	109 112 126 139 157 138	Confide intervent	113 114 132 144 165 140
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11	93 97 103 112 121 107	92 96 101 109 120 105 91	94 98 105 114 123 108	99 102 111 121 133 118	Confide intervention of the control	99 104 114 124 136 120	Estimate  104 108 119 131 146 131 105	Confide interv  From  102 106 116 129 143 128	107 111 122 134 149 133	109 112 126 139 157 138	Confide intervent   From    105   110   119   134   149   135   106	To  113 114 132 144 165 140
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19	93 97 103 112 121 107	92 96 101 109 120 91 97	94 98 105 114 123 108	99 102 111 121 133 118 98 104	Confide interview   From   millimetre   98   101   108   119   131   116   96   102	99 104 114 124 136 <b>120</b> 99 106	Estimate  104 108 119 131 146 131	Confide interv From  102 106 116 129 143 128	107 111 122 134 149 133	109 112 126 139 157 138	Confide intervent   From    105	70  113 114 132 144 165 140  115 116
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	93 97 103 112 121 107	92 96 101 109 120 105 91 97 105	94 98 105 114 123 108 93 101 110	99 102 111 121 133 118 98 104 115	Confide interv  From millimetre  98 101 108 119 131 116 96 102 112	99 104 114 136 120 99 106 118	Estimate  104 108 119 131 146 131 105 111 121	Confide interv  From  102 106 116 1129 143 128  101 109 117	107 1111 122 134 149 133 109 113 126	109 112 126 139 157 138	Confide intervention    105 110 119 134 149 135 106 112 119	113 114 132 144 165 140 115 116 138
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	93 97 103 112 121 107	92 96 101 109 120 91 97	94 98 105 114 123 108	99 102 111 121 133 118 98 104	Confide interview   From   millimetre   98   101   108   119   131   116   96   102	99 104 114 124 136 120  99 106 118 125	Estimate  104 108 119 131 146 131	Confide interv  From  102 106 116 129 143 128	107 111 122 134 149 133	109 112 126 139 157 138	Confide intervention of the confidence of the co	To  113 114 132 144 165 140  115 116 138 149
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	93 97 103 112 121 107 92 99 107 114	92 96 101 109 120 105	94 98 105 114 123 108 93 101 110 117	99 102 111 121 133 118 98 104 115	Confide interv  From millimetre  98 101 108 119 131 116 96 102 112 120	99 104 114 136 120 99 106 118	Estimate  104 108 119 131 146 131 105 111 121 134	Confide interv  From  102 106 116 1129 143 128  101 109 117	107 1111 122 134 149 133 109 113 126 140	109 112 126 139 157 138	Confide intervention    105 110 119 134 149 135 106 112 119	113 114 132 144 165 140 115 116 138
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 2 to 39 Age 40 to 59  Females	93 97 103 112 121 107 92 99 107 114 119	92 96 101 109 120 105 91 97 105 111 117	94 98 105 114 123 108 93 101 110 117 122 112	99 102 111 121 133 118 98 104 115 122 131 119	Confide interv From millimetre  98 101 108 119 131 116 96 102 112 120 126 117	99 104 114 124 136 120 99 106 118 125 135 121	Estimate  104 108 119 131 146 131 105 111 121 134 143 131	Confide interv From  102 106 116 129 143 128 101 109 117 128 139 127	107 111 122 134 149 133 109 113 126 140 146 135	109 112 126 139 157 138 111 114 129 140 152 139	Confide intervention of the confidence of the co	To  113 114 132 144 165 140  115 116 138 145 143
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 17 Age 20 to 39 Age 40 to 59 Age 60 to 79  Page 60 to 79 Age 60 to 79 Age 60 to 79  Pemales Age 6 to 11	93 97 103 112 121 107 92 99 107 114 119 110	92 96 101 109 125 91 97 105 111 117 107	94 98 105 114 123 108 93 101 110 117 122 112	99 102 111 121 133 118 98 104 115 122 131 119	Promise Promis	99 104 114 124 136 120  99 106 118 125 135 121	Estimate  104 108 119 131 146 131 105 111 121 134 143 131	Confide interv  From  102 106 116 129 143 128 101 109 117 128 139 127	107 111 122 134 149 133 109 113 126 140 146 135	109 112 126 139 157 138 111 114 129 140 152 139	Confide intervention of the confidence of the co	To  113 114 132 144 165 140  115 116 138 149 155 143
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19	93 97 103 112 121 107 92 99 107 114 119 110	92 96 101 109 120 105 91 117 107 93 95	94 98 105 114 123 108 93 101 110 117 122 112	99 102 111 121 133 118 98 104 115 122 131 119 99 100	Confide interv  From millimetre  98 101 108 119 131 116 96 102 112 120 126 117 98 99	99 104 114 124 136 120 99 106 118 125 135 121 101 102	Estimate  104 108 119 131 146 131 105 111 121 121 134 143 131	Confide interv  From  102 106 116 129 143 128  101 109 117 128 139 127	107 1111 122 134 149 133 109 113 126 140 146 135	109 112 126 139 157 138 111 114 129 140 152 139	Confide intervention of the confidence of the co	To  113 114 132 144 165 140  115 116 138 149 155 143
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59  Females Age 6 to 11 Age 12 to 19 Age 6 to 179  Age 6 to 179  Age 10 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	93 97 103 112 121 107 92 99 107 114 119 110	92 96 101 109 120 105 111 117 107 93 95 98	94 98 105 114 123 108 93 101 110 117 122 112 95 97 101	99 102 111 121 133 118 98 104 115 122 131 119 99 100 105	Confide interv From millimetre  98 101 108 119 131 116 96 102 112 120 126 117 98 99 103	99 104 114 124 136 120 99 106 118 125 121 101 102 107	Estimate  104 108 119 131 146 131 105 111 121 134 143 131 104 105 113	Confide interv  From  102 106 116 129 143 128  101 109 117 128 139 127	107 111 122 134 149 133 109 113 126 140 146 135	109 112 126 139 157 138 111 114 129 140 152 139 108 108 108 123	Confide intervention of the confidence of the co	113 114 132 144 165 140 115 116 138 149 155 143
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Males Age 6 to 11 Age 12 to 19 Age 6 to 19 Age 6 to 19 Age 6 to 17 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 17 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 6 to 79 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 40 to 59	93 97 103 112 121 107 92 99 107 114 119 110 94 96 99 109	92 96 101 109 120 105 111 117 107 93 95 98 105	94 98 105 114 123 108 93 101 110 117 122 112 95 97 101 113	99 102 111 121 133 118 98 104 115 122 131 119 99 100 105 117	Promise Promis	99 104 114 136 120  99 106 118 125 135 121  101 102 107 121	Estimate  104 108 119 131 146 131 105 111 121 134 143 131 104 105 113 128	Confide interv  From  102 106 116 1129 143 128 101 109 117 128 139 127 102 103 1100 124	107 111 122 134 149 133 109 113 126 140 146 135	109 112 126 139 157 138 111 114 129 140 152 139 108 108 123 133	Confide intervention of the confidence of the co	113 114 165 140 110 111 131 138 138
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59  Females Age 6 to 11 Age 12 to 19 Age 6 to 179  Age 6 to 179  Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 11 Age 12 to 19 Age 20 to 39	93 97 103 112 121 107 92 99 107 114 119 110	92 96 101 109 120 105 111 117 107 93 95 98	94 98 105 114 123 108 93 101 110 117 122 112 95 97 101	99 102 111 121 133 118 98 104 115 122 131 119 99 100 105	Confide interv From millimetre  98 101 108 119 131 116 96 102 112 120 126 117 98 99 103	99 104 114 124 136 120 99 106 118 125 121 101 102 107	Estimate  104 108 119 131 146 131 105 111 121 134 143 131 104 105 113	Confide interv  From  102 106 116 129 143 128  101 109 117 128 139 127	107 111 122 134 149 133 109 113 126 140 146 135	109 112 126 139 157 138 111 114 129 140 152 139 108 108 108 123	Confide intervention of the confidence of the co	113 114 132 144 165 140 115 116 138 149 155 143

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 3 Average resting heart rate, by age and sex, household population, Canada, 2009 to 2011

					Averag	e resting	heart rate					
	Mea	ın		5th perc	entile		10th pe	rcentile		25th per	entile	
	Estimate	Confide interv		Estimate	Confide interv		Estimate	Confider interva		Estimate	Confide interv	
		From	То		From	То		From	То		From	То
					beats	per min	ute (bpm)					
Both sexes												
Age 6 to 11	81	79	82	63	62	64	65	64	67	71	69	73
Age 12 to 19 Age 20 to 39	74 69	72 68	76 70	54 52	53 50	56 55	58 56	55 55	60 58	66 62	64 60	67 63
Age 40 to 59	67	66	68	53	51	55	56	55	57	60	60	61
Age 60 to 79	66	65	67	49	48	50	52	51	54	58	57	59
Age 6 to 79	69	69	70	52	51	53	56	55	57	61	60	62
Males	79	76	81	62	61	64	64	62	C.F.	69	66	70
Age 6 to 11 Age 12 to 19	79	70	75	62 53	51	64 55	55	53	65 57	63	60	72 66
Age 20 to 39	67	66	69	53	50	55	56	54	58	60	58	62
Age 40 to 59	67	65	68	53	52	54	55	54	56	59	59	60
Age 60 to 79	64	63	65	48	47	49	50	49	51	56	54	58
Age 6 to 79	68	67	69	52	51	53	55	54	56	60	59	61
Females Age 6 to 11	83	81	84	64	62	66	68	65	71	75	73	77
Age 12 to 19	75	74	77	59	54	63	62	60	64	68	66	70
Age 20 to 39	71	69	72	51	47	56	58	55	61	63	61	66
Age 40 to 59	68	67	69	54	50	58	58	56	59	61	60	63
Age 60 to 79	68	67	69	51	47	54	56	54	57	60	58	62
Age 6 to 79	71	70	71	54	51	57	58	57	59	63	62	64
					Averag	e resting	neart rate					
	50th per	centile		75th perce	entile		90th perc	entile		95th perc	entile	
	Estimate	Confider interva		Estimate	Confiden		Estimate	Confidence	е	Estimate	Confider	
					interva			interval				
		From	То	-	interva From	То	-	From	То	-	From	To
		From	То	-	From	То	ute (bpm)		То	_		То
Both sexes		From	То	<u>-</u>	From	То	ute (bpm)		То	_		То
Age 6 to 11		77	82	<b>-</b> 87	From beats	To per min	95	From	98	103	From 96	109
Age 6 to 11 Age 12 to 19	73	77 71	82 74	81	From beats	To per min	95 89	92 87	98 92	93	96 88	109 98
Age 6 to 11 Age 12 to 19 Age 20 to 39	73 68	77 71 67	82 74 70	81 76	From beats 86 78 74	To per min 89 83 77	95 89 80	92 87 78	98 92 83	93 85	96 88 83	109 98 86
Age 6 to 11 Age 12 to 19	73	77 71	82 74	81	From beats	To per min	95 89	92 87	98 92	93	96 88	109 98
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	73 68 66	77 71 67 64	82 74 70 67	81 76 72	86 78 74 71	To per min  89 83 77 73	95 89 80 79	92 87 78 77	98 92 83 81	93 85 85	96 88 83 82	109 98 86 88
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 <b>Males</b>	73 68 66 65 <b>68</b>	77 71 67 64 64 67	82 74 70 67 66 <b>68</b>	81 76 72 72 <b>75</b>	86 78 74 71 70 74	To per min  89 83 77 73 73 76	95 89 80 79 79 83	92 87 78 77 77 82	98 92 83 81 82 <b>85</b>	93 85 85 85 <b>88</b>	96 88 83 82 83 87	109 98 86 88 88 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11	73 68 66 65 <b>68</b>	77 71 67 64 64 <b>67</b>	82 74 70 67 66 <b>68</b>	81 76 72 72 <b>75</b>	From  beats  86 78 74 71 70 74 81	70 per min 89 83 77 73 73 76 90	95 89 80 79 79 83	92 87 78 77 77 <b>82</b>	98 92 83 81 82 <b>85</b>	93 85 85 85 <b>88</b>	96 88 83 82 83 <b>87</b>	109 98 86 88 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19	73 68 66 65 <b>68</b> 76	77 71 67 64 64 <b>67</b> 73 69	82 74 70 67 66 <b>68</b> 79 74	81 76 72 72 <b>75</b> 86 79	86 78 74 71 70 74	70 per min 89 83 77 73 76 90 82	95 89 80 79 79 83	92 87 78 77 77 <b>82</b> 88 84	98 92 83 81 82 <b>85</b>	93 85 85 85 <b>88</b> 99	96 88 83 82 83 <b>87</b>	109 98 86 88 <b>90</b> 109 108
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11	73 68 66 65 <b>68</b>	77 71 67 64 64 <b>67</b>	82 74 70 67 66 <b>68</b>	81 76 72 72 <b>75</b>	From  beats  86 78 74 71 70 74 81	70 per min 89 83 77 73 73 76 90	95 89 80 79 79 83	92 87 78 77 77 <b>82</b>	98 92 83 81 82 <b>85</b>	93 85 85 85 <b>88</b>	96 88 83 82 83 <b>87</b>	109 98 86 88 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	73 68 66 65 <b>68</b> 76 71 65 64 63	77 71 67 64 64 <b>67</b> 73 69 63 63 63	82 74 70 67 66 <b>68</b> 79 74 68 66 66 64	81 76 72 72 <b>75</b> 86 79 74 72 69	86 78 74 71 70 74 81 76 71 69 68	70 per min 89 83 77 73 73 76 90 82 77 74 70	95 89 80 79 79 83 92 89 80 80 76	92 87 78 77 77 <b>82</b> 88 84 77 75 73	98 92 83 81 82 <b>85</b> 96 94 82 84 80	93 85 85 85 <b>88</b> 99 97 84 86 86	96 88 83 82 83 <b>87</b> 88 86 82 81 80	109 98 86 88 <b>90</b> 109 108 86 91 92
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	73 68 66 65 <b>68</b> 76 71 65 64	77 71 67 64 64 <b>67</b> 73 69 63 63	82 74 70 67 66 <b>68</b> 79 74 68 66	81 76 72 72 <b>75</b> 86 79 74 72	86 78 74 71 70 <b>74</b> 81 76 71 69	Per min  89 83 77 73 73 76  90 82 77 74	95 89 80 79 79 83	92 87 78 77 77 <b>82</b> 88 84 77 75	98 92 83 81 82 <b>85</b> 96 94 82 84	93 85 85 85 88 99 97 84 86	96 88 83 82 83 <b>87</b> 88 86 82 81	109 98 86 88 <b>90</b> 109 108 86 91
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	73 68 66 65 <b>68</b> 76 71 65 64 63 <b>66</b>	77 71 67 64 64 67 73 69 63 63 61 65	82 74 70 67 66 <b>68</b> 79 74 68 66 64 <b>67</b>	81 76 72 72 75 86 79 74 72 69	86 78 74 71 70 74 81 76 71 69 68 73	70 per min 89 83 77 73 76 90 82 77 74 70 76	95 89 80 79 79 83 92 89 80 80 76 83	92 87 78 77 <b>82</b> 88 84 77 75 73 <b>80</b>	98 92 83 81 82 <b>85</b> 96 94 82 84 80 <b>85</b>	93 85 85 88 88 99 97 84 86 86 88	96 88 83 82 83 <b>87</b> 88 86 82 81 80 <b>85</b>	109 98 86 88 <b>90</b> 109 108 86 91 92 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 6 to 79  Females Age 6 to 11	73 68 66 65 <b>68</b> 76 71 65 64 63 <b>66</b>	77 71 67 64 64 67 73 69 63 63 61 65	82 74 70 67 66 <b>68</b> 79 74 68 66 64 <b>67</b>	81 76 72 72 <b>75</b> 86 79 74 72 69 <b>74</b>	86 78 74 71 70 74 81 76 69 68 73	70 per min 89 83 77 73 73 76 90 82 77 74 70 76	95 89 80 79 79 83 92 89 80 76 83	92 87 78 77 77 <b>82</b> 88 84 77 75 73 <b>80</b>	98 92 83 81 82 <b>85</b> 96 94 82 84 80 <b>85</b>	93 85 85 88 88 99 97 84 86 86 88	96 88 83 82 83 87 88 86 82 81 80 85	109 98 86 88 88 <b>90</b> 109 108 86 91 92 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19	73 68 66 65 <b>68</b> 76 71 65 64 63 <b>66</b>	77 71 67 64 64 67 73 69 63 63 61 65	82 74 70 66 68 79 74 68 66 64 67	81 76 72 72 75 86 79 74 72 69 74	86 78 74 71 70 74 81 76 73 88 73 87 79	70 per min 89 83 77 73 73 76 90 82 77 74 70 76	95 89 80 79 79 83 80 80 76 83	92 87 78 77 77 <b>82</b> 88 84 77 75 73 <b>80</b> 91 87	98 92 83 81 82 <b>85</b> 96 94 82 84 80 <b>85</b>	93 85 85 85 88 99 97 84 86 86 88	96 88 83 82 83 87 88 86 82 81 80 85	109 98 86 88 88 <b>90</b> 109 108 86 91 92 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 6 to 79  Females Age 6 to 11	73 68 66 65 <b>68</b> 76 71 65 64 63 <b>66</b>	77 71 67 64 64 67 73 69 63 63 61 65	82 74 70 67 66 <b>68</b> 79 74 68 66 64 <b>67</b>	81 76 72 72 <b>75</b> 86 79 74 72 69 <b>74</b>	86 78 74 71 70 74 81 76 69 68 73	70 per min 89 83 77 73 73 76 90 82 77 74 70 76	95 89 80 79 79 83 92 89 80 76 83	92 87 78 77 77 <b>82</b> 88 84 77 75 73 <b>80</b>	98 92 83 81 82 <b>85</b> 96 94 82 84 80 <b>85</b>	93 85 85 88 88 99 97 84 86 86 88	96 88 83 82 83 87 88 86 82 81 80 85	109 98 86 88 88 <b>90</b> 109 108 86 91 92 <b>90</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 12 to 19 Age 20 to 39	73 68 66 65 <b>68</b> 76 71 65 64 63 <b>66</b>	77 71 67 64 64 67 73 69 63 63 61 165	82 74 70 67 66 <b>68</b> 79 74 68 66 64 <b>67</b>	81 76 72 72 75 86 79 74 72 69 74	86 78 74 71 70 74 81 76 71 69 68 73	70 per min 89 83 77 73 73 76 90 82 77 74 70 76	95 89 80 79 79 83 89 80 80 76 83	92 87 78 77 82 88 84 77 75 73 80	98 92 83 81 82 <b>85</b> 96 94 82 84 80 <b>85</b>	93 85 85 88 88 99 97 84 86 86 88 81 104 92 85	96 88 83 82 83 87 88 86 82 81 80 85	109 98 86 88 88 90 109 108 86 91 92 90 110 94 88

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 4 Distribution of the household population by blood pressure norms, by age and sex, Canada, 2009 to 2011

				Blood pres	ssure norms				
	Within the acc	ceptable range	)	Acceptable, but a	at the high er table range	nd of	Above the ac	ceptable range	)
	Estimate	Confidence i	nterval	Estimate	Confidence	interval	Estimate	Confidence	interval
	•	From	То		From	То		From	То
				per	cent				
Both sexes Age 18 to 39 Age 40 to 59 Age 60 to 79 Age 18 to 79	94.7 82.4 67.0 <b>84.0</b>	89.4 77.1 62.8 <b>80.5</b>	97.4 86.7 71.0 <b>86.9</b>	F 9.6 17.9 <b>9.0</b>	7.0 14.5 <b>7.3</b>	12.9 21.9 <b>11.1</b>	F 6.5 <sup>E</sup> 10.6 <b>5.4</b>	3.9 8.2 <b>3.8</b>	10.6 13.5 <b>7.5</b>
Males Age 18 to 39 Age 40 to 59 Age 60 to 79 Age 18 to 79	91.7 75.8 69.3 <b>80.7</b>	81.9 67.8 61.9 <b>75.0</b>	96.4 82.3 75.7 <b>85.4</b>	F 11.3 <sup>E</sup> 17.4 <b>10.5</b>	7.6 12.4 <b>7.6</b>	16.5 23.7 <b>14.5</b>	F 10.5 E 9.7 E <b>6.9</b> E	5.5 6.6 <b>4.2</b>	19.2 14.1 <b>11.3</b>
Females Age 18 to 39 Age 40 to 59 Age 60 to 79 Age 18 to 79	97.7 89.1 65.0 <b>87.2</b>	95.7 83.1 60.8 <b>85.0</b>	98.8 93.1 69.0 <b>89.1</b>	F 7.7 <sup>E</sup> 18.4 <b>7.6</b>	4.3 13.4 <b>6.0</b>	13.6 24.8 <b>9.5</b>	F F 11.3 <sup>E</sup> <b>3.8</b> E	7.7 <b>2.7</b>	16.5 <b>5.5</b>
				Blood pres	ssure norms				
	Modera	ately high		н	ligh		Very	high	
	Estimate	Confidence	e interval	Estimate	e Confid inter		Estimate	Confidence	interval
		From	То		From	т То		From	То
				рег	rcent				
Both sexes Age 18 to 39 Age 40 to 59 Age 60 to 79 Age 18 to 79	X F 3.9	E 2.4	6.4 <b>1.7</b>	) )	<b>(</b>	· · · · · · · · · · · · · · · · · · ·	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>
Males Age 18 to 39 Age 40 to 59 Age 60 to 79 Age 18 to 79	X X 3.1 <b>0.9</b>	E 1.9	5.0 <b>1.6</b>	) )	<b>(</b>	· · · · · · · · · · · · · · · · · · ·	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>
Females Age 18 to 39 Age 40 to 59 Age 60 to 79 Age 18 to 79	X X 4.6 1.3	E 2.3	9.3 <b>2.3</b>	) ) )	<b>(</b>	· · · · · · · · · · · · · · · · · · ·	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>	0.0 0.0 0.0 <b>0.0</b>

Note(s): The norms used in this table can be found in D. Abbott, N. Campbell, P. Carruthers-Czyzewski, A. Chockalingam, M. David, G. Dunkley, E. Ellis, J.G. Fodor, D. McKay, V.R. Ramsden, 1994, "Guidelines for measurement of blood pressure, follow-up, and lifestyle counselling", Canadian Journal of Public Health, Vol. 85 (suppl 2), p. S29-S35. Total household population aged 18 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2)
Source(s): Canadian Health Measures Survey, Cycle 2.

Table 5
Household population who self-reported taking hypertension medication or had a hypertensive blood pressure measurement by age and sex, Canada, 2009 to 2011

	Taking hypertension me hyperte		Not taking hypertension medication and no measured hypertension				
	Estimate	Confidence in	nterval	Estimate	Confidence interval		
		From	То	_	From	To	
			perce	ent			
Both sexes							
Age 6 to 11	2.7 <sup>E</sup>	1.6	4.6	97.3	95.4	98.4	
Age 12 to 19	X	-		99.5	98.8	99.8	
Age 20 to 39	3.6 <sup>E</sup>	2.0	6.2	96.4	93.8	98.0	
Age 40 to 59	21.7	16.6	27.8	78.3	72.2	83.4	
Age 60 to 79	52.4	47.7	57.1	47.6	42.9	52.3	
Age 6 to 79	18.0	15.8	20.4	82.0	79.6	84.2	
Males							
Age 6 to 11	3.2 ₺	1.7	5.9	96.8	94.1	98.3	
Age 12 to 19	X			99.3	97.8	99.8	
Age 20 to 39	3.2 ₺	1.6	6.2	96.8	93.8	98.4	
Age 40 to 59	28.6	20.4	38.6	71.4	61.4	79.6	
Age 60 to 79	57.7	51.7	63.4	42.3	36.6	48.3	
Age 6 to 79	20.8	17.0	25.2	79.2	74.8	83.0	
Females							
Age 6 to 11	F			97.8	95.3	99.0	
Age 12 to 19	X	-		99.8	99.0	100.0	
Age 20 to 39	F	-		96.0	91.1	98.3	
Age 40 to 59	14.6	10.3	20.4	85.4	79.6	89.7	
Age 60 to 79	47.6	41.0	54.3	52.4	45.7	59.0	
Age 6 to 79	15.1	12.9	17.6	84.9	82.4	87.1	

Note(s): Measured hypertension is characterized by a systolic or diastolic blood pressure ≥ 95th percentile for 6 to 17 year olds (2004, "National High Blood Pressure Education Program Working Group on High Blood Pressure in Children and Adolescents. The fourth report on the diagnosis, evaluation, and treatment of high blood pressure in children and adolescents", *Pediatrics*, Vol. 114(2 Suppl. 4th report), pp. 555-76). Measured hypertension is characterized by a systolic blood pressure ≥ 140 bpm or a diastolic blood pressure ≥ 90 bpm for 18 to 79 year olds (Chobanian AV, Bakris GL, Black HR, et al., 2003, "Seventh report on the Joint National Comittee on the Prevention, Detection, Evaluation, and Treatment of High Blood Pressure", Hypertension, 42(6) pp. 1206-52). Total household population aged 6 to 79, except those meeting the exclusion criteria (see the *Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2*).

Table 6 Total grip strength of the household population, by age and sex, Canada, 2009 to 2011

	·				Total grip strength							_
	Mea	ın		5th perc	entile		10th per	rcentile		25th per	centile	
	Estimate	Confide interv		Estimate	Confid- inter		Estimate	Confide interva		Estimate	Confide interv	
		From	То		From	То		From	То		From	То
						kilogran	ns					
Both sexes												
Age 6 to 11	26	25	27	12	11	13	15	13	16	19	18	20
Age 12 to 19 Age 20 to 39	58 73	56 70	60 75	31 40	29 35		35 45	33 43	38 47	42 52	40 50	45 55
Age 40 to 59	73	68	73	41	39		44	43	46	52	49	54
Age 60 to 79	60	58	62	31	28		35	33	37	43	42	45
Age 6 to 79	65	63	67	26	25	28	34	33	36	46	45	48
Males												
Age 6 to 11	27 68	25 65	28 71	12 30	10 27	14 34	16 36	13 29	19 42	20 51	17 43	22 58
Age 12 to 19 Age 20 to 39	92	89	95	68	59		72	67	77	84	80	88
Age 40 to 59	88	84	92	58	46		66	56	75	77	71	82
Age 60 to 79	77	74	80	53	48		57	53	60	65	62	68
Age 6 to 79	81	78	83	27	26	29	45	42	48	69	66	73
Females	0.5	0.4	00	40	40	4.4	4.4	40	47	40	40	00
Age 6 to 11 Age 12 to 19	25 47	24 46	26 49	12 32	10 30		14 35	12 34	17 36	19 39	18 37	20 41
Age 20 to 39	53	51	56	35	28		41	36	45	47	45	48
Age 40 to 59	53	51	55	36	32		41	39	43	46	44	47
Age 60 to 79	45	43	46	29	22		31	30	33	37	36	39
Age 6 to 79	49	48	50	25	24	27	32	30	33	42	40	43
	50th and			7511		tal grip st				05th		
	50th perc			75th perc			90th per			95th perc		
	Estimate	Confident interva		Estimate	Confider interval		Estimate	Confiden interva		Estimate	Confide interva	
		From	То	_	From	То	•	From	То	-	From	То
						kilogran	ns					
Both sexes												
Age 6 to 11	25	24	25	31	29	32	37	35	39	42	39	46
Age 12 to 19	54 69	51	57	71 93	67 89	74 96	86	82 99	89	92	90	94
Age 20 to 39 Age 40 to 59	65	65 60	74 69	93 88	89 84	96 92	104 103	99 98	110 108	111 110	106 105	116 115
Age 60 to 79	56	53	58	75	72	78	90	87	94	97	94	99
Age 6 to 79	60	57	62	84	81	86	98	95	102	107	104	110
Males												
Age 6 to 11	25	24	26	31	29	34	39	35	43	44	39	48
Age 12 to 19	70	66	73	83	80	87	92	90	94	100	96	104
Age 20 to 39 Age 40 to 59	93 88	89 84	96 92	100 100	95 97	105 103	111 110	106 105	116 115	118 116	113 112	124 120
Age 60 to 79	76	72	79	88	84	91	97	94	100	103	99	107
Age 6 to 79	84	81	86	96	93	99	107	105	110	113	110	117
Females												
Age 6 to 11	24	22	25	30	28	31	35	33	36	38	36	40
Age 12 to 19 Age 20 to 39	46 52	44 50	49 54	54 59	53 56	56 62	59 67	58 62	61 72	63 73	59 65	66 80
Age 40 to 59	52	50 50	54 55	59 59	56 57	62 61	65	62 62	72 67	73 69	65	80 72
Age 60 to 79	44	42	46	51	49	52	56	53	59	60	55	65
Age 6 to 79	49	48	51	56	55	58	63	61	66	68	63	72

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 7 Distribution of the household population by grip strength norms, by age and sex, Canada, 2009 to 2011

				Grip stren	gth norms				
	Needs im	provement		Fa	air		Go	ood	
	Estimate	Confidence	interval	Estimate	Confidence	interval	Estimate	Confidence	interval
		From	То		From	То		From	To
				pero	cent				
Both sexes									
Age 15 to 19	45.9	36.4	55.7	22.2	16.6	29.0	19.9	14.5	26.7
Age 20 to 39	32.8	26.3	40.0	29.6	24.1	35.9	17.9	13.6	23.2
Age 40 to 59	24.8	18.4	32.6	18.5	14.6	23.2	21.0	17.3	25.4
Age 60 to 69	28.0	21.3	35.9	19.7	16.2	23.7	14.0	10.8	18.1
Age 15 to 69	30.1	25.2	35.4	23.1	20.6	25.9	18.8	16.7	21.0
Males									
Age 15 to 19	52.4	38.1	66.3	25.0 E	15.7	37.5	12.9 E	7.2	22.0
Age 20 to 39	23.7	18.4	29.8	33.2	25.7	41.7	22.5	17.1	29.1
Age 40 to 59	26.2 E	16.5	38.8	18.0	12.7	24.8	22.2	15.4	30.9
Age 60 to 69	31.9	23.5	41.6	23.9	18.2	30.7	15.6	11.6	20.5
Age 15 to 69	28.3	22.2	35.4	25.1	22.0	28.6	20.6	16.7	25.0
Females									
Age 15 to 19	39.1	32.1	46.5	19.1	14.4	25.0	27.3	21.4	34.1
Age 20 to 39	42.0	32.8	51.8	26.1	19.1	34.4	13.3 E	8.4	20.4
Age 40 to 59	23.5	17.2	31.2	19.1	13.9	25.7	19.9	15.3	25.5
Age 60 to 69	24.3	18.1	31.8	15.7	12.6	19.2	12.6	8.8	17.7
Age 15 to 69	31.7	27.3	36.5	21.1	17.3	25.5	17.0	14.2	20.1

			Grip strength norms	3		
	Very g	ood		Excelle	ent	
	Estimate	Confidence int	erval	Estimate	Confidence in	terval
		From	То		From	То
			percent			
Both sexes						
Age 15 to 19	8.7 E	6.0	12.4	3.4 €	2.0	5.7
Age 20 to 39	12.8	9.0	17.8	6.9 ⋿	3.8	12.0
Age 40 to 59	20.4	15.9	25.8	15.2	11.4	19.9
Age 60 to 69	21.9	18.8	25.3	16.4	11.6	22.6
Age 15 to 69	16.8	13.6	20.6	11.3	8.1	15.4
Males						
Age 15 to 19	6.6 ⋿	3.8	11.2	3.1 ⋿	1.5	6.1
Age 20 to 39	13.3 E	7.5	22.5	7.3 E	4.6	11.5
Age 40 to 59	12.5	8.9	17.2	21.2	15.6	28.0
Age 60 to 69	17.4	12.7	23.3	11.3 E	7.4	16.8
Age 15 to 69	13.0	9.4	17.6	13.0	9.9	16.9
Females						
Age 15 to 19	10.8 ⋿	7.2	16.1	F		
Age 20 to 39	12.2	8.5	17.3	F		
Age 40 to 59	28.3	20.8	37.2	9.2 ⋿	6.2	13.5
Age 60 to 69	26.2	21.0	32.1	21.2 <sup>E</sup>	14.5	29.9
Age 15 to 69	20.6	16.4	25.5	9.5 ⊑	6.0	14.9

Table 8 Number of partial curl-ups completed by the household population, by age and sex, Canada, 2009 to 2011

					Number	r of partia	l curl-ups					
	Mea	n		5th perc	entile		10th perc	entile		25th perc	entile	
	Estimate	Confide interva		Estimate	Confide interval		Estimate	Confider interva		Estimate	Confider interva	
		From	То		From	То		From	То		From	То
						number						
Both sexes												
Age 8 to 11 Age 12 to 19	11 19	10 18	13 20	0† 0†‡	0 -3	0 3	0†‡ 7 E	0	0 10	F 14	13	16
Age 20 to 39	15	14	16	0†	0	0	0†‡	0	0	F		
Age 40 to 59	10	8	11	0†	0	0	0†	0	0	0†‡	0	0
Age 60 to 69 Age 8 to 69	4 <b>12</b>	4 <b>12</b>	5 <b>13</b>	0† <b>0†</b>	0 <b>0</b>	0 <b>0</b>	0† <b>0†</b>	0 <b>0</b>	0 <b>0</b>	0† <b>0†</b>	0 <b>0</b>	0 <b>0</b>
Males				•			•			•		
Age 8 to 11	11	10	13	0†_	0	0	0†‡	0	0	F		
Age 12 to 19 Age 20 to 39	21 19	20 17	22 20	7 E 0†	4 0	11 0	12 0†‡	9 -6	15 6	19 13	16 10	22 15
Age 40 to 59	13	11	15	0†	0	Ö	0†‡	Ö	Ö	0†‡	-2	2
Age 60 to 69	7	5	8	0†	0	0	0†	0	0	0 <u>†</u>	0	0
Age 8 to 69	15	14	16	0†	0	0	0†‡	0	0	F	•	•
Females Age 8 to 11	12	10	13	0†	0	0	0†	0	0	F		
Age 12 to 19	17	16	19	0†‡	-1	1	Ė			12	9	14
Age 20 to 39	11	10	13	0†	0	0	0†	0	0	0†	0	0
Age 40 to 59 Age 60 to 69	7 2 E	5 1	8	0† 0†	0	0	0† 0†	0	0	0† 0†	0	0
Age 8 to 69	9	9	10	0†	Ō	Ō	0†	Ō	Ö	0†‡	Ō	Ō
					Numbe	r of partia	l curl-ups					
	50th perc	entile		75th per	centile		90th perc	entile		95th perc	entile	
	Estimate	Confide interv		Estimate	Confide interval		Estimate	Confider interva		Estimate	Confider interval	
		From	То		From	To		From	То		From	То
						number						
Both sexes												
Age 8 to 11	10	8 22	12	19	16 25	21 25	25† 25†	24 25	26 25	25†	25 25	25 25
Age 12 to 19 Age 20 to 39	23 18	16	24 20	25† 25†	25 25	25 25	25† 25†	25 25	25 25	25† 25†	25 25	25 25
Age 40 to 59	F			22	20	25	25	24	25	25	25	25
Age 60 to 69 Age 8 to 69	0† <sup>E</sup> <b>12</b>	0 <b>11</b>	0 <b>13</b>	F 24	24	24	24 <b>25</b>	21 <b>25</b>	26 <b>25</b>	25† <b>25</b>	25 <b>25</b>	25 <b>25</b>
Males	12	• • • • • • • • • • • • • • • • • • • •	13	24	24	24	23	23	23	23	23	23
Age 8 to 11	10 ⊑	6	13	18	14	22	25†	24	26	25†	25	25
Age 12 to 19	24	23	24	25†	25	25	25†	25	25	25†	25	25
Age 20 to 39 Age 40 to 59	24 14 E	21 9	27 19	25† 24	25 24	25 25	25† 25	25 25	25 25	25† 25	25 25	25 25
Age 60 to 69	0† E		0	13 E		20	25†	24	26	25†	25	25
Age 8 to 69	19	16	22	24	24	24	25	25	25	25	25	25
Females	40	•	40	40	40	22	251	24	200	251	05	25
Age 8 to 11 Age 12 to 19	10 19	8 16	12 23	19 25†	16 25	23 25	25† 25†	24 25	26 25	25† 25†	25 25	25 25
Age 20 to 39	10	7	13	22	19	24	25†	25	25	25†	25	25
Age 40 to 59	0† E		0	14 ⊑	8	19	25†	23	27	25†	25	25
	_ ·		_	~ .	-	_	_					
Age 60 to 69 Age 8 to 69	0† <b>F</b>	0	0	0† <b>19</b>	0 <b>18</b>	0 <b>21</b>	F 25†	25	25	23 E <b>25</b>	11 <b>25</b>	36 <b>25</b>

noise introduced in order to calculate estimate

‡ coefficient of variation could not be calculated, use confidence interval as quality measure

Note(s): Total household population aged 8 to 69, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Table 9 Distribution of the household population by partial curl-up norms, by age and sex, Canada, 2009 to 2011

				Partial curl-	-up norms				
	Needs im	provement		Fa	iir		Go	ood	
	Estimate	Confidence	interval	Estimate	Confidence	interval	Estimate	Confidence interval	
		From	То	_	From	То	•	From	То
				perc	ent				
Both sexes									
Age 15 to 19	19.2	13.5	26.5	13.5	9.8	18.3	8.7 E	4.8	15.3
Age 20 to 39	27.8	23.4	32.7	13.1	9.1	18.5	9.8 E	6.7	14.1
Age 40 to 59	51.7	44.9	58.5	5.6 E	3.4	8.9	10.4	7.8	13.7
Age 60 to 69	77.9	75.2	80.3	2.5 E	1.3	4.7	3.9 E	2.5	6.0
Age 15 to 69	43.2	40.0	46.4	8.7	7.2	10.5	9.1	7.6	11.0
Males									
Age 15 to 19	F			9.8 E	5.1	18.0	F		
Age 20 to 39	18.1	13.7	23.4	11.5 E	7.0	18.2	F		
Age 40 to 59	36.1	28.0	45.1	8.6 E	4.8	14.9	8.8 E	5.8	13.2
Age 60 to 69	69.0	62.6	74.8	F			4.9 E	2.7	8.4
Age 15 to 69	31.7	27.1	36.6	9.0	6.4	12.6	7.1 ⊑	4.8	10.2
Females									
Age 15 to 19	24.2	17.5	32.5	17.7	12.9	23.8	F		
Age 20 to 39	37.3	30.3	44.9	14.7 E	8.5	24.2	13.7	9.5	19.4
Age 40 to 59	66.3	57.4	74.2	F			11.9 E	7.5	18.2
Age 60 to 69	86.9	80.3	91.6	X			F		
Age 15 to 69	54.4	51.0	57.8	8.4	6.1	11.6	11.2	8.3	14.9

			Partial curl-up norms	S		
	Very g	ood		Excell	ent	
	Estimate	Confidence int	erval	Estimate	Confidence in	terval
		From	То		From	То
			percent			
Both sexes	•					<u>.</u>
Age 15 to 19	12.7	8.9	17.8	45.9	38.7	53.2
Age 20 to 39	15.1	11.8	19.2	34.2	30.0	38.7
Age 40 to 59	12.0	8.4	17.0	20.3	16.1	25.2
Age 60 to 69	6.4	4.9	8.2	9.4	6.8	12.8
Age 15 to 69	12.5	10.1	15.4	26.4	24.0	28.9
Males						
Age 15 to 19	13.4 E	7.8	22.1	53.7	42.0	65.1
Age 20 to 39	15.0	10.4	21.1	49.8	40.3	59.3
Age 40 to 59	16.2 <sup>E</sup>	10.6	23.8	30.3	23.4	38.3
Age 60 to 69	9.1 ⋿	5.5	14.6	14.3 E	9.4	21.1
Age 15 to 69	14.5	11.3	18.4	37.8	32.5	43.4
Females						
Age 15 to 19	11.9 E	7.6	18.3	37.2	28.3	47.1
Age 20 to 39	15.3	10.9	21.0	19.0	14.9	24.0
Age 40 to 59	8.2 E	5.0	13.1	10.9 E	6.4	18.0
Age 60 to 69	3.6 €	2.0	6.6	F		
Age 15 to 69	10.6	8.1	13.8	15.3	12.8	18.3

Table 10 Distribution of the household population by back fitness norms, by age and sex, Canada, 2009 to 2011

				Back fitne	ess norms				
	Needs im	provement		Fa	air		Go	ood	
	Estimate	Confidence	interval	Estimate	Confidence	interval	Estimate	Confidence interval	
		From	То		From	То		From	To
				pero	cent				
Both sexes									
Age 15 to 19	6.1 E	3.9	9.3	12.7	9.3	17.1	19.8	16.1	24.1
Age 20 to 39	12.5	9.1	16.9	16.9	12.4	22.6	23.4	17.7	30.2
Age 40 to 59	23.6	18.3	29.9	23.2	18.2	29.1	20.0	16.1	24.5
Age 60 to 69	32.2	25.2	40.0	33.3	28.2	38.8	12.6	9.9	15.8
Age 15 to 69	19.3	16.2	22.9	21.5	18.3	25.1	20.1	17.2	23.3
Males									
Age 15 to 19	F			12.7 E	6.8	22.7	25.1	19.0	32.3
Age 20 to 39	8.9 E	5.1	15.1	15.5 E	9.0	25.5	30.1	20.7	41.5
Age 40 to 59	18.2 E	11.6	27.4	20.0	15.6	25.2	22.2	17.2	28.1
Age 60 to 69	31.2	23.0	40.8	31.0	25.3	37.3	17.3	13.2	22.4
Age 15 to 69	15.5	11.6	20.4	19.3	16.0	23.1	24.6	19.7	30.4
Females									
Age 15 to 19	7.6 E	3.9	14.5	12.7 E	7.5	20.8	14.4 E	9.5	21.2
Age 20 to 39	16.2	11.7	21.9	18.4 E	12.6	25.9	16.5 E	11.1	23.8
Age 40 to 59	29.0	22.6	36.4	26.4	18.9	35.6	17.8	12.8	24.1
Age 60 to 69	33.1	23.4	44.6	35.4	28.1	43.4	8.2 E	5.5	11.9
Age 15 to 69	23.2	19.3	27.8	23.7	19.2	29.0	15.5	12.9	18.7

	Very g	ood		Excelle	ent	
	Estimate	Confidence int	erval	Estimate	Confidence in	terval
		From	То		From	То
			percent			
Both sexes						
Age 15 to 19	46.8	40.5	53.3	14.5	11.3	18.5
Age 20 to 39	34.7	29.5	40.3	12.5	10.2	15.1
Age 40 to 59	22.9	18.1	28.4	10.4	7.7	13.9
Age 60 to 69	16.8	12.4	22.2	5.2 <sup>E</sup>	3.4	7.8
Age 15 to 69	28.3	25.3	31.6	10.7	9.4	12.3
Males						
Age 15 to 19	46.8	38.0	55.8	10.9 ⋿	7.2	16.1
Age 20 to 39	33.4	26.4	41.3	12.1 <sup>E</sup>	6.9	20.2
Age 40 to 59	25.0	20.5	30.0	14.7 ⋿	9.9	21.2
Age 60 to 69	14.4	10.2	20.0	6.1 ⋿	3.8	9.5
Age 15 to 69	28.5	24.4	32.9	12.2	9.3	15.8
Females						
Age 15 to 19	46.9	36.5	57.6	18.4	14.1	23.6
Age 20 to 39	36.1	28.9	44.0	12.9	9.7	16.9
Age 40 to 59	20.8 €	14.1	29.5	6.1 ⋿	3.3	10.8
Age 60 to 69	18.9	13.6	25.7	F		
Age 15 to 69	28.2	24.9	31.7	9.3	7.7	11.2

Table 11 Sit and reach measure completed by the household population, by age and sex, Canada, 2009 to 2011

					Sit	and reach	measure					
	Me	an		5th per	centile		10th per	centile		25th pe	rcentile	
	Estimate	Confide		Estimate	Confide		Estimate	Confide		Estimate	Confide	
	•	From	То	•	From	То	•	From	То	•	From	To
						centimet	res					
Both sexes												
Age 6 to 11	25.9	25.1	26.6	11.9	9.9	13.8	15.7	14.2	17.3	20.5	19.3	21.6
Age 12 to 19	25.7	24.4	27.0	7.5	5.5	9.5	11.2	9.5	12.9	16.8	14.6	18.9
Age 20 to 39	26.1	24.3	28.0	F			8.1 E	4.2	11.9	18.8	15.0	22.6
Age 40 to 59	25.5	24.4	26.6	8.9	7.4	10.3	11.8	10.2	13.3	18.5	17.2	19.8
Age 60 to 69 Age 6 to 69	21.5 <b>25.3</b>	20.4 <b>24.4</b>	22.6 <b>26.1</b>	3.3 E <b>6.3</b>	1.0 <b>5.1</b>	5.6 <b>7.6</b>	6.5 <b>10.3</b>	4.2 <b>9.0</b>	8.8 <b>11.6</b>	13.7 <b>17.8</b>	12.2 <b>16.6</b>	15.2 <b>18.9</b>
Males	25.5	24.4	20.1	0.3	3.1	7.0	10.3	9.0	11.6	17.0	10.0	10.9
Age 6 to 11	24.0	23.1	24.8	11.4	9.2	13.6	15.2	13.3	17.1	19.3	17.9	20.7
Age 12 to 19	21.6	19.4	23.7	4.3 E	2.5	6.2	8.2	5.6	10.9	13.9	12.0	15.8
Age 20 to 39	22.4	19.6	25.3	0.0†‡	-3.8	3.8	F			13.9	9.0	18.8
Age 40 to 59	23.0	21.9	24.1	5.9 €	2.6	9.3	9.6	7.8	11.4	16.2	14.9	17.5
Age 60 to 69	17.0	16.1	17.9	0.0†‡	-0.7	0.7	3.3 €	1.1	5.6	9.4	6.9	11.9
Age 6 to 69	22.0	20.9	23.0	3.2 ⊑	1.7	4.7	7.0	5.2	8.7	14.3	13.3	15.3
Females												
Age 6 to 11	27.9	26.8	29.0	11.8	7.8	15.8	16.6	13.1	20.2	23.2	21.7	24.7
Age 12 to 19	30.1	28.6	31.5	14.2	12.9	15.5	15.9	14.4	17.4	23.9	21.7	26.1
Age 20 to 39	29.9	28.4	31.4	11.1 E	6.0	16.2	15.6	12.5	18.7	23.8	20.3	27.2
Age 40 to 59	27.9	26.3	29.5	10.9	7.1	14.8	15.0	13.1	16.9	20.9	18.3	23.6
Age 60 to 69	26.1	24.7	27.6	8.7	6.6	10.8	12.2	10.6	13.8	20.4	18.4	22.3
Age 6 to 69	28.6	27.7	29.4	11.1	9.0	13.1	15.0	14.1	15.9	22.2	20.5	23.9
					Sit	and reach	measure					
	50th pe	rcentile		75th per			90th per	centile		95th pe	rcentile	
	Estimate	Confide		Estimate	Confide		Estimate	Confide		Estimate	Confide	
		inter										
		inter	To	-	inter	To	-	From	То	•	From	To
				-			res	From	То			То
Both sexes				-		То	res	From	То			То
Age 6 to 11	26.5	From 25.6	To 27.4	31.6	From 30.7	To centimet	35.2	33.9	36.4	37.5	From 35.9	39.1
Age 6 to 11 Age 12 to 19	26.1	25.6 24.3	27.4 27.9	34.1	30.7 32.7	To centimet 32.4 35.4	35.2 39.0	33.9 37.2	36.4 40.8	43.0	35.9 41.1	39.1 44.9
Age 6 to 11 Age 12 to 19 Age 20 to 39	26.1 27.3	25.6 24.3 25.3	27.4 27.9 29.3	34.1 34.5	30.7 32.7 33.2	32.4 35.4 35.9	35.2 39.0 41.3	33.9 37.2 38.8	36.4 40.8 43.8	43.0 43.4	35.9 41.1 42.7	39.1 44.9 44.1
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	26.1 27.3 25.9	25.6 24.3 25.3 24.6	27.4 27.9 29.3 27.2	34.1 34.5 32.7	30.7 32.7 33.2 31.3	32.4 35.4 35.9 34.0	35.2 39.0 41.3 37.7	33.9 37.2 38.8 36.7	36.4 40.8 43.8 38.7	43.0 43.4 41.3	35.9 41.1 42.7 39.0	39.1 44.9 44.1 43.6
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69	26.1 27.3 25.9 21.9	25.6 24.3 25.3 24.6 20.5	27.4 27.9 29.3 27.2 23.4	34.1 34.5 32.7 28.5	30.7 32.7 33.2 31.3 26.9	32.4 35.4 35.9 34.0 30.1	35.2 39.0 41.3 37.7 36.1	33.9 37.2 38.8 36.7 34.5	36.4 40.8 43.8 38.7 37.6	43.0 43.4 41.3 39.1	35.9 41.1 42.7 39.0 36.8	39.1 44.9 44.1 43.6 41.3
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	26.1 27.3 25.9	25.6 24.3 25.3 24.6	27.4 27.9 29.3 27.2	34.1 34.5 32.7	30.7 32.7 33.2 31.3	32.4 35.4 35.9 34.0	35.2 39.0 41.3 37.7	33.9 37.2 38.8 36.7	36.4 40.8 43.8 38.7	43.0 43.4 41.3	35.9 41.1 42.7 39.0	39.1 44.9 44.1 43.6
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69	26.1 27.3 25.9 21.9 <b>26.1</b>	25.6 24.3 25.3 24.6 20.5 <b>25.4</b>	27.4 27.9 29.3 27.2 23.4 <b>26.9</b>	34.1 34.5 32.7 28.5 <b>33.0</b>	30.7 32.7 33.2 31.3 26.9 32.2	32.4 35.4 35.9 34.0 30.1 33.8	35.2 39.0 41.3 37.7 36.1 38.5	33.9 37.2 38.8 36.7 34.5 <b>37.6</b>	36.4 40.8 43.8 38.7 37.6 <b>39.3</b>	43.0 43.4 41.3 39.1 <b>42.3</b>	35.9 41.1 42.7 39.0 36.8 41.6	39.1 44.9 44.1 43.6 41.3 <b>43.1</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 <b>Age 6 to 69</b> <b>Males</b> Age 6 to 11	26.1 27.3 25.9 21.9 26.1	25.6 24.3 25.3 24.6 20.5 25.4	27.4 27.9 29.3 27.2 23.4 <b>26.9</b>	34.1 34.5 32.7 28.5 <b>33.0</b>	30.7 32.7 33.2 31.3 26.9 32.2	32.4 35.4 35.9 34.0 30.1 <b>33.8</b>	35.2 39.0 41.3 37.7 36.1 38.5	33.9 37.2 38.8 36.7 34.5 <b>37.6</b>	36.4 40.8 43.8 38.7 37.6 <b>39.3</b>	43.0 43.4 41.3 39.1 <b>42.3</b>	35.9 41.1 42.7 39.0 36.8 <b>41.6</b>	39.1 44.9 44.1 43.6 41.3 <b>43.1</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69 Males Age 6 to 11 Age 12 to 19	26.1 27.3 25.9 21.9 26.1 24.0 21.3	25.6 24.3 25.3 24.6 20.5 <b>25.4</b> 22.7 19.3	27.4 27.9 29.3 27.2 23.4 <b>26.9</b> 25.3 23.2	34.1 34.5 32.7 28.5 <b>33.0</b> 29.3 28.7	30.7 32.7 33.2 31.3 26.9 <b>32.2</b> 28.0 25.8	32.4 35.4 35.9 34.0 30.1 <b>33.8</b> 30.6 31.6	35.2 39.0 41.3 37.7 36.1 38.5	33.9 37.2 38.8 36.7 34.5 <b>37.6</b>	36.4 40.8 43.8 38.7 37.6 <b>39.3</b> 35.1 38.1	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0	35.9 41.1 42.7 39.0 36.8 41.6	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 <b>Males</b> Age 6 to 11 Age 12 to 19 Age 20 to 39	26.1 27.3 25.9 21.9 <b>26.1</b> 24.0 21.3 24.0	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3	27.4 27.9 29.3 27.2 23.4 <b>26.9</b> 25.3 23.2 27.8	34.1 34.5 32.7 28.5 <b>33.0</b> 29.3 28.7 31.2	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1	To centimet  32.4 35.4 35.9 34.0 30.1 33.8  30.6 31.6 34.2	35.2 39.0 41.3 37.7 36.1 38.5 33.3 34.7 37.1	33.9 37.2 38.8 36.7 34.5 <b>37.6</b> 31.4 31.4 33.6	36.4 40.8 43.8 38.7 37.6 <b>39.3</b> 35.1 38.1 40.7	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 36.5	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69 Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	26.1 27.3 25.9 21.9 <b>26.1</b> 24.0 21.3 24.0 23.3	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3 21.1	27.4 27.9 29.3 27.2 23.4 26.9 25.3 23.2 27.8 25.6	34.1 34.5 32.7 28.5 <b>33.0</b> 29.3 28.7 31.2 30.7	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1 28.7	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 34.2 32.6	35.2 39.0 41.3 37.7 36.1 <b>38.5</b> 33.3 34.7 37.1 34.7	33.9 37.2 38.8 36.7 34.5 <b>37.6</b> 31.4 31.4 33.6 33.4	36.4 40.8 43.8 38.7 37.6 <b>39.3</b> 35.1 38.1 40.7 36.0	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6	35.9 41.1 42.7 39.0 36.8 <b>41.6</b> 33.5 33.5 36.5 35.0	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4 38.3
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69	26.1 27.3 25.9 21.9 <b>26.1</b> 24.0 21.3 24.0	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3	27.4 27.9 29.3 27.2 23.4 <b>26.9</b> 25.3 23.2 27.8	34.1 34.5 32.7 28.5 <b>33.0</b> 29.3 28.7 31.2	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1	To centimet  32.4 35.4 35.9 34.0 30.1 33.8  30.6 31.6 34.2	35.2 39.0 41.3 37.7 36.1 38.5 33.3 34.7 37.1	33.9 37.2 38.8 36.7 34.5 <b>37.6</b> 31.4 31.4 33.6	36.4 40.8 43.8 38.7 37.6 <b>39.3</b> 35.1 38.1 40.7	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 36.5	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69  Age 6 to 69	26.1 27.3 25.9 21.9 <b>26.1</b> 24.0 21.3 24.0 23.3 16.4	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3 21.1 14.7	27.4 27.9 29.3 27.2 23.4 26.9 25.3 23.2 27.8 25.6 18.1	34.1 34.5 32.7 28.5 <b>33.0</b> 29.3 28.7 31.2 30.7 23.9	30.7 32.7 33.2 31.3 26.9 <b>32.2</b> 28.0 25.8 28.1 28.7 21.8	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 34.2 32.6 25.9	35.2 39.0 41.3 37.7 36.1 <b>38.5</b> 33.3 34.7 37.1 34.7 29.9	33.9 37.2 38.8 36.7 34.5 <b>37.6</b> 31.4 33.4 33.4 27.6	36.4 40.8 43.8 38.7 37.6 <b>39.3</b> 35.1 38.1 40.7 36.0 32.1	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6 33.2	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 36.5 36.0 30.1	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4 38.3 36.3
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69  Females	26.1 27.3 25.9 21.9 26.1 24.0 21.3 24.0 23.3 16.4 22.4	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3 21.1 14.7	27.4 27.9 29.3 27.2 23.4 26.9 25.3 23.2 27.8 25.6 18.1 23.8	34.1 34.5 32.7 28.5 33.0 29.3 28.7 31.2 30.7 23.9 29.9	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1 28.7 21.8 28.5	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 34.2 32.6 25.9 31.4	35.2 39.0 41.3 37.7 36.1 <b>38.5</b> 33.3 34.7 37.1 34.7 29.9 <b>35.0</b>	33.9 37.2 38.8 36.7 34.5 37.6 31.4 31.4 33.6 27.6 33.9	36.4 40.8 38.7 37.6 39.3 35.1 38.1 40.7 36.0 32.1 36.1	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6 33.2	35.9 41.1 42.7 39.0 36.8 41.6 33.5 36.5 36.5 35.0 30.1 36.2	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4 38.3 36.3
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69  Feales Age 6 to 69 Females Age 6 to 11	26.1 27.3 25.9 21.9 26.1 24.0 21.3 24.0 23.3 16.4 22.4	25.6 24.3 25.3 24.6 20.5 <b>25.4</b> 22.7 19.3 20.3 21.1 14.7 <b>21.0</b>	27.4 27.9 29.3 27.2 23.4 26.9 25.3 23.2 27.8 25.6 18.1 23.8	34.1 34.5 32.7 28.5 33.0 29.3 28.7 31.2 30.7 23.9 29.9	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1 28.7 21.8 28.5	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 25.9 31.4	35.2 39.0 41.3 37.7 36.1 38.5 33.3 34.7 37.1 34.7 29.9 35.0	33.9 37.2 38.8 36.7 34.5 37.6 31.4 33.6 33.4 27.6 33.9	36.4 40.8 43.8 38.7 37.6 39.3 35.1 38.1 36.0 32.1 36.1 37.7	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6 33.2 <b>38.0</b>	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 33.5 36.5 36.5 37.1	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4 45.4 38.3 36.3 <b>39.7</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69 Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 59 Age 6 to 69 Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69	26.1 27.3 25.9 21.9 26.1 24.0 21.3 24.0 23.3 16.4 22.4	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3 21.1 14.7 21.0	27.4 27.9 29.3 27.2 23.4 <b>26.9</b> 25.3 23.2 27.8 25.6 18.1 <b>23.8</b>	34.1 34.5 32.7 28.5 33.0 29.3 28.7 31.2 30.7 23.9 29.9	30.7 30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1 28.7 21.8 28.5	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 34.2 25.9 31.4	35.2 39.0 41.3 37.7 36.1 38.5 33.3 34.7 37.1 34.7 29.9 35.0	33.9 37.2 38.8 36.7 34.5 <b>37.6</b> 31.4 33.6 33.4 27.6 <b>33.9</b> 35.1 39.4	36.4 40.8 43.8 38.7 37.6 39.3 35.1 38.1 40.7 36.0 32.1 36.1	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6 33.2 <b>38.0</b>	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 36.5 36.0 30.1 36.2	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4 38.3 36.3 <b>39.7</b> 41.0 46.1
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69  Females	26.1 27.3 25.9 21.9 26.1 24.0 21.3 24.0 23.3 16.4 22.4	25.6 24.3 25.3 24.6 20.5 <b>25.4</b> 22.7 19.3 20.3 21.1 14.7 <b>21.0</b>	27.4 27.9 29.3 27.2 23.4 26.9 25.3 23.2 27.8 25.6 18.1 23.8	34.1 34.5 32.7 28.5 33.0 29.3 28.7 31.2 30.7 23.9 29.9	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1 28.7 21.8 28.5	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 25.9 31.4	35.2 39.0 41.3 37.7 36.1 38.5 33.3 34.7 37.1 34.7 29.9 35.0	33.9 37.2 38.8 36.7 34.5 37.6 31.4 33.6 33.4 27.6 33.9	36.4 40.8 43.8 38.7 37.6 39.3 35.1 38.1 36.0 32.1 36.1 37.7	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6 33.2 <b>38.0</b>	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 33.5 36.5 36.5 37.1	39.1 44.9 44.1 43.6 41.3 <b>43.1</b> 37.3 42.4 45.4 45.4 38.3 36.3 <b>39.7</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 6 to 69  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 69  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	26.1 27.3 25.9 21.9 26.1 24.0 21.3 24.0 23.3 16.4 22.4	25.6 24.3 25.3 24.6 20.5 25.4 22.7 19.3 20.3 21.1 14.7 21.0 28.1 29.0 28.5	27.4 27.9 29.3 27.2 23.4 26.9 25.3 23.2 27.8 25.6 18.1 23.8	34.1 34.5 32.7 28.5 33.0 29.3 28.7 31.2 30.7 23.9 29.9	30.7 32.7 33.2 31.3 26.9 32.2 28.0 25.8 28.1 28.7 21.8 28.5	32.4 35.4 35.9 34.0 30.1 33.8 30.6 31.6 34.2 32.6 25.9 31.4 34.1 39.1 38.8	35.2 39.0 41.3 37.7 36.1 <b>38.5</b> 33.3 34.7 37.1 34.7 29.9 <b>35.0</b>	33.9 37.2 38.8 36.7 34.5 <b>37.6</b> 31.4 33.6 33.4 27.6 <b>33.9</b> 35.1 39.4 41.8	36.4 40.8 43.8 38.7 37.6 39.3 35.1 36.0 32.1 36.1 37.7 44.5 44.4	43.0 43.4 41.3 39.1 <b>42.3</b> 35.4 38.0 41.0 36.6 33.2 <b>38.0</b>	35.9 41.1 42.7 39.0 36.8 41.6 33.5 33.5 36.5 36.0 30.1 36.2	39.1 44.9 44.1 43.6 41.3 43.1 37.3 42.4 45.4 38.3 36.3 39.7 41.0 46.1 45.7

<sup>†</sup> noise introduced in order to calculate estimate

‡ coefficient of variation could not be calculated, use confidence interval as quality measure

Note(s): Total household population aged 6 to 69, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Table 12 Distribution of the household population by sit and reach norms, by age and sex, Canada, 2009 to 2011

	Needs im	provement		F	air		Go	od	
	Estimate	Confidence	interval	Estimate	te Confidence interval		Estimate	Confidence interval	
		From	То		From	То		From	То
				per	cent				
Both sexes									
Age 15 to 19	46.1	38.8	53.5	17.2	13.1	22.2	14.0	11.4	17.2
Age 20 to 39	41.8	33.7	50.5	18.7	14.3	24.1	16.0 E	11.0	22.7
Age 40 to 59	29.2	24.5	34.3	24.6	20.3	29.5	13.6	10.7	17.1
Age 60 to 69	36.1	31.0	41.5	20.0	16.4	24.3	17.2	13.6	21.5
Age 15 to 69	36.4	32.8	40.2	21.1	18.9	23.4	15.1	12.2	18.4
Males									
Age 15 to 19	53.1	41.8	64.0	14.7 E	9.9	21.4	13.2	9.6	18.0
Age 20 to 39	47.9	37.8	58.2	18.3	13.5	24.3	14.8 E	9.0	23.4
Age 40 to 59	24.6	20.8	28.7	27.1	21.0	34.2	13.8	10.5	18.1
Age 60 to 69	41.7	34.6	49.2	19.6 E	12.9	28.5	15.8	11.5	21.3
Age 15 to 69	38.4	34.2	42.9	21.6	18.8	24.6	14.4	11.8	17.6
Females									
Age 15 to 19	38.6	31.0	46.8	19.7	15.2	25.2	14.9	10.4	20.8
Age 20 to 39	35.6	26.1	46.4	19.1	13.2	26.8	17.3 E	11.3	25.4
Age 40 to 59	33.6	26.3	41.9	22.1	17.4	27.7	13.3	9.3	18.8
Age 60 to 69	30.3	24.9	36.4	20.5	16.8	24.8	18.7	13.6	25.1
Age 15 to 69	34.3	29.5	39.5	20.6	17.8	23.6	15.7	12.0	20.2

			Sit and reach norms	S				
	Very g	ood		Excelle	ent			
	Estimate	Confidence int	erval	Estimate	Confidence int	erval		
		From	То		From	То		
			percent					
Both sexes								
Age 15 to 19	13.3	9.6	18.2	9.4 €	5.9	14.8		
Age 20 to 39	11.5	8.6	15.4	11.9	8.9	15.8		
Age 40 to 59	19.9	15.2	25.6	12.8	9.8	16.5		
Age 60 to 69	11.9	9.6	14.7	14.8	10.8	19.8		
Age 15 to 69	15.0	12.7	17.7	12.4	10.6	14.5		
Males								
Age 15 to 19	12.1 <sup>E</sup>	7.4	19.2	F				
Age 20 to 39	11.2 E	7.4	16.5	7.8 €	4.2	14.2		
Age 40 to 59	23.6 €	16.2	33.0	10.9 €	6.6	17.6		
Age 60 to 69	16.2	11.6	22.2	6.7	4.8	9.2		
Age 15 to 69	16.8	13.3	20.9	8.8	6.8	11.3		
Females								
Age 15 to 19	14.6 E	8.6	23.7	12.1 <sup>E</sup>	6.4	21.8		
Age 20 to 39	11.9 E	8.0	17.4	16.1	11.4	22.2		
Age 40 to 59	16.4	11.3	23.0	14.5 E	10.0	20.8		
Age 60 to 69	7.4 E	5.0	10.8	23.1 E	15.7	32.5		
Age 15 to 69	13.3	10.6	16.6	16.1	13.1	19.6		

Table 13 Distribution of the household population by musculoskeletal fitness norms, by age and sex, Canada, 2009 to 2011

				Musculoskeleta	al fitness norn	ns				
	Needs Im	provement		F	air		G	ood		
	Estimate	Confidence	Interval	Estimate	ate Confidence Interval		Estimate	Confidence	Interval	
		From	То		From	То		From	To	
		Percent								
Both sexes										
Age 15 to 19	13.4	11.0	16.2	41.5	35.1	48.2	32.1	26.4	38.5	
Age 20 to 39	14.7	10.8	19.7	31.2	27.3	35.4	34.8	29.7	40.3	
Age 40 to 59	15.5 E		22.3	25.3	21.2	29.9	34.3	29.3	39.6	
Age 60 to 69	19.7 E		27.8	32.0	27.1	37.4	29.2	25.0	33.7	
Age 15 to 69	15.7	12.7	19.2	29.8	26.8	33.0	33.5	30.4	36.8	
Males										
Age 15 to 19	8.8 E	5.6	13.7	48.4	41.1	55.7	32.3	25.1	40.3	
Age 20 to 39	9.0 €	4.8	16.1	30.1	25.3	35.3	35.9	28.5	44.1	
Age 40 to 59	12.2 E	6.4	22.1	22.9	16.8	30.3	34.4	28.2	41.1	
Age 60 to 69	21.2 E	14.6	29.9	34.2	27.2	42.0	29.4	23.4	36.1	
Age 15 to 69	12.0	8.4	16.9	29.4	26.3	32.7	34.1	29.8	38.6	
Females										
Age 15 to 19	18.2	13.8	23.6	34.3	24.5	45.6	32.0	23.6	41.7	
Age 20 to 39	20.5	16.1	25.8	32.4	26.5	38.8	33.6	28.1	39.6	
Age 40 to 59	18.9 E	12.6	27.3	27.6	23.2	32.6	34.1	26.7	42.5	
Age 60 to 69	18.2 E	11.8	27.1	29.9	24.6	35.8	29.0	22.3	36.8	
Age 15 to 69	19.3	15.8	23.4	30.3	26.8	34.1	33.0	28.1	38.3	

		M	usculoskeletal fitness n	norms							
	Very g	ood		Excelle	ent						
	Estimate	Confidence Int	erval	Estimate	Confidence In	erval					
		From	То		From	То					
			Percent								
Both sexes											
Age 15 to 19	11.3	8.0	15.8	1.7 ⊑	1.0	2.9					
Age 20 to 39	16.7	12.6	21.9	2.5 €	1.3	4.9					
Age 40 to 59	19.6	15.6	24.3	5.3 ⋿	3.7	7.6					
Age 60 to 69	16.6	13.4	20.4	F							
Age 15 to 69	17.4	14.6	20.6	3.6	2.5	5.1					
Males											
Age 15 to 19	8.2 E	4.6	14.5	X							
Age 20 to 39	22.3	15.5	31.0	2.7 €	1.5	4.9					
Age 40 to 59	22.1	17.2	28.0	8.5 ⋿	5.2	13.6					
Age 60 to 69	11.3 E	7.7	16.2	F							
Age 15 to 69	19.4	15.6	23.9	5.1 E	3.4	7.7					
Females											
Age 15 to 19	14.5 E	8.9	22.8	X							
Age 20 to 39	11.1 <sup>E</sup>	7.6	15.9	F							
Age 40 to 59	17.2 <sup>E</sup>	11.7	24.4	F							
Age 60 to 69	21.6	16.7	27.5	X F							
Age 15 to 69	15.4	12.6	18.6	F							

Table 14 Distribution of the household population by aerobic fitness norms, by age and sex, Canada, 2009 to 2011

				Aerobic fitr	ness norms				
	Needs im	provement		F	air		Go	od	
	Estimate	Confidence	interval	Estimate	Estimate Confidence interval		Estimate	Confidence	interval
		From	То		From	То	•	From	To
				per	cent				
Both sexes	<u> </u>								
Age 15 to 19	7.4 E	4.4	12.3	18.2	15.8	20.8	38.9	32.5	45.6
Age 20 to 39	14.7	10.4	20.2	24.6	20.6	29.1	40.7	31.8	50.2
Age 40 to 59	20.0 E	12.8	29.9	32.0	27.7	36.7	24.9	20.6	29.7
Age 60 to 69	45.1	39.0	51.3	32.9	27.0	39.4	16.6	12.1	22.3
Age 15 to 69	19.4	14.9	25.0	27.9	25.8	30.1	31.5	26.9	36.5
Males									
Age 15 to 19	F			24.4	18.3	31.8	30.0 €	19.2	43.5
Age 20 to 39	16.1 E	10.5	23.9	32.0	25.8	38.8	30.2	20.9	41.4
Age 40 to 59	18.6 E	10.8	30.0	22.4	16.2	30.3	30.0	23.9	36.8
Age 60 to 69	34.2	25.0	44.7	27.6 E	18.7	38.8	28.1	21.0	36.3
Age 15 to 69	18.1	12.6	25.3	27.1	24.2	30.1	29.9	24.4	36.0
Females									
Age 15 to 19	6.8 E	3.3	13.2	11.4 E	7.7	16.5	48.4	37.2	59.8
Age 20 to 39	13.0 E	8.0	20.7	16.3 E	11.0	23.6	52.5	40.2	64.5
Age 40 to 59	21.4 E	13.6	32.0	41.3	34.7	48.3	20.0	13.9	28.0
Age 60 to 69	54.3	45.3	63.1	37.3	29.5	45.8	7.0 E	3.5	13.2
Age 15 to 69	20.8	15.8	26.9	28.8	24.8	33.2	33.2	27.0	40.1

			Aerobic fitness norm	S		15.7 13.6 6.8 7.9			
	Very g	ood		Excelle	ent				
	Estimate	Confidence int	erval	Estimate	Confidence in	terval			
		From	То		From	То			
			percent						
Both sexes									
Age 15 to 19	25.2	19.7	31.6	10.4 E	6.8	15.7			
Age 20 to 39	13.1	9.9	17.1	7.0 €	3.4				
Age 40 to 59	18.8	14.0	24.7	4.3 €	2.7	6.8			
Age 60 to 69	4.7 E	2.9	7.5	X					
Age 15 to 69	15.6	13.3	18.3	5.5 <sup>E</sup>	3.8	7.9			
Males									
Age 15 to 19	25.2 E	17.2	35.3	12.4 <sup>E</sup>	7.8	19.2			
Age 20 to 39	15.0	10.5	20.9	F					
Age 40 to 59	22.4	17.0	29.0	6.6 ⋿	3.6	11.7			
Age 60 to 69	8.8 E	5.3	14.3	X					
Age 15 to 69	18.3	15.1	21.9	6.7 E	4.5	9.9			
Females									
Age 15 to 19	25.2	17.4	34.9	8.3 ⋿	4.8	13.8			
Age 20 to 39	11.0 E	6.8	17.2	F					
Age 40 to 59	15.2 <sup>E</sup>	10.3	22.1	F					
Age 60 to 69	X			X					
Age 15 to 69	12.9	10.3	15.9	4.3 ⊑	2.2	8.2			

Table 15 Mean predicted maximal aerobic power of the household population, by age and sex, Canada, 2009 to 2011

				N	lean max	timal oxyge	en consumption	า				
	Me	an		5th per	centile		10th pe	rcentile		25th pe	rcentile	
	Estimate	Confide inter		Estimate	Confide interv		Estimate	Confide inter		Estimate	Confide interv	
	•	From	То	•	From	То	•	From	То	'	From	To
					millilitres	per kilogra	am per minute					
Both sexes												
Age 8 to 11	50.4	50.2	50.7	45.2	44.8	45.5	45.7	45.4	46.0	47.0	46.0	48.0
Age 12 to 19	47.8	47.5	48.0	38.2	36.8	39.6	40.2	39.5	41.0	43.2	42.8	43.7
Age 20 to 39	41.4	40.5	42.4	32.4	31.4	33.4	33.6	32.9	34.4	36.8	36.0	37.7
Age 40 to 59	32.7	31.4	33.9	22.6	21.4	23.8	24.3	22.4	26.2	28.9	27.5	30.4
Age 60 to 69 Age 8 to 69	25.1 <b>38.0</b>	24.6 <b>37.3</b>	25.6 <b>38.6</b>	18.6 <b>22.4</b>	17.6 <b>21.7</b>	19.7 <b>23.2</b>	19.4 <b>25.5</b>	18.9 <b>23.9</b>	19.8 <b>27.1</b>	21.1 <b>30.8</b>	20.6 <b>29.9</b>	21.6 <b>31.7</b>
Males	00.0	01.0	00.0		2	20.2	20.0	20.0		00.0	20.0	01
Age 8 to 11	50.8	50.3	51.4	45.0	44.3	45.7	45.6	45.1	46.1	46.9	45.1	48.7
Age 12 to 19	50.7	49.9	51.4	41.2	37.1	45.3	43.6	41.6	45.6	46.9	45.6	48.2
Age 20 to 39	43.7	42.1	45.3	32.9	31.6	34.1	34.0	32.2	35.7	39.5	36.2	42.7
Age 40 to 59	35.3	33.5	37.2	24.2	22.0	26.4	26.7	24.2	29.2	30.2	28.3	32.2
Age 60 to 69	26.5	25.4	27.5	X			19.4	18.6	20.1	21.5	19.5	23.5
Age 8 to 69	40.5	39.3	41.6	24.2	22.3	26.1	27.7	26.1	29.3	32.7	31.0	34.3
Females												
Age 8 to 11	50.1	49.6	50.5	45.2	44.8	45.5	45.8	45.6	46.1	47.0	45.8	48.3
Age 12 to 19	44.9	44.1	45.6	37.4	35.4	39.4	39.0	37.7	40.3	41.1	40.2	42.0
Age 20 to 39	38.8	38.0	39.7	31.5	30.2	32.9	33.1	32.0	34.3	36.1	35.2	36.9
Age 40 to 59	30.1	29.3	30.9	21.3	19.2	23.4	23.0	21.5	24.6	27.0	24.7	29.3
Age 60 to 69	24.0 <b>35.5</b>	23.2 <b>34.9</b>	24.8 <b>36.0</b>	18.5 <b>21.4</b>	17.5 <b>20.7</b>	19.5	19.4	18.6	20.2 <b>24.3</b>	21.0 <b>29.6</b>	20.2 <b>28.9</b>	21.8
Age 8 to 69	33.3	34.9	30.0	21.4	20.7	22.1	23.4	22.4	24.3	29.0	20.9	30.4
				N	lean max	imal oxyge	en consumption	1				
	50th pe	rcentile		75th pe	rcentile		90th ne	rcentile		95th pe	rcentile	
							00111 po			00tii pc	TOCTIMO	
	Estimate	Confide inter		Estimate	Confide		Estimate	Confide		Estimate	Confide	
	Estimate			Estimate							Confide	
	Estimate	inter	val		inter	val To		inter	/al		Confide interv	/al
Roth sexes	Estimate .	inter	val		inter	val To	Estimate -	inter	/al		Confide interv	/al
Both sexes Age 8 to 11	Estimate	inter	val		inter	val To	Estimate -	inter	/al		Confide interv	/al
		From	/al To		From millilitres	val To per kilogra	Estimate -	From	ral To	Estimate	Confide interv	/al To
Age 8 to 11	50.2 47.6 40.4	From 49.9 47.2 39.6	To  50.6 48.0 41.2	54.0 52.5 45.7	From millilitres 51.2 51.9 43.7	70 per kilogra 56.8 53.1 47.8	Estimate am per minute 55.9	55.8 54.3 49.4	70 To 56.1 55.5 51.0	56.3 56.1 51.3	From  56.1 54.5 49.2	56.4 57.8 53.4
Age 8 to 11 Age 12 to 19	50.2 47.6	From 49.9 47.2	To 50.6 48.0	54.0 52.5	51.2 51.9 43.7 35.0	To  per kilogra  56.8 53.1	Estimate  am per minute  55.9 54.9 50.2 41.3	From 55.8 54.3	56.1 55.5 51.0 43.8	56.3 56.1 51.3 44.6	From  56.1 54.5 49.2 42.8	70 To 56.4 57.8
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69	50.2 47.6 40.4 31.9 23.8	49.9 47.2 39.6 30.8 22.8	50.6 48.0 41.2 33.0 24.9	54.0 52.5 45.7 36.8 28.7	51.2 51.9 43.7 35.0 28.1	70 per kilogra 56.8 53.1 47.8 38.7 29.3	Estimate  am per minute  55.9 54.9 50.2 41.3 30.6	55.8 54.3 49.4 38.7 29.8	56.1 55.5 51.0 43.8 31.3	56.3 56.1 51.3 44.6 33.5	From  56.1 54.5 49.2 42.8 29.6	56.4 57.8 53.4 46.4 37.4
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	50.2 47.6 40.4 31.9	49.9 47.2 39.6 30.8	50.6 48.0 41.2 33.0	54.0 52.5 45.7 36.8	51.2 51.9 43.7 35.0	70 per kilogra 56.8 53.1 47.8 38.7	Estimate  am per minute  55.9 54.9 50.2 41.3	55.8 54.3 49.4 38.7	56.1 55.5 51.0 43.8	56.3 56.1 51.3 44.6	From  56.1 54.5 49.2 42.8	56.4 57.8 53.4 46.4
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69	50.2 47.6 40.4 31.9 23.8 37.8	49.9 47.2 39.6 30.8 22.8 36.9	50.6 48.0 41.2 33.0 24.9 38.7	54.0 52.5 45.7 36.8 28.7 <b>45.0</b>	51.2 51.9 43.7 35.0 28.1 44.1	70 per kilogra 56.8 53.1 47.8 38.7 29.3 45.8	Estimate  55.9 54.9 50.2 41.3 30.6 50.4	55.8 54.3 49.4 38.7 29.8 49.8	56.1 55.5 51.0 43.8 31.3 51.0	56.3 56.1 51.3 44.6 33.5 53.6	56.1 54.5 49.2 42.8 29.6 52.6	56.4 57.8 53.4 46.4 37.4 54.6
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 80 to 69 Age 8 to 69 Males Age 8 to 11	50.2 47.6 40.4 31.9 23.8 <b>37.8</b>	49.9 47.2 39.6 30.8 22.8 36.9	50.6 48.0 41.2 33.0 24.9 38.7	54.0 52.5 45.7 36.8 28.7 <b>45.0</b>	51.2 51.9 43.7 35.0 28.1 44.1	70 To per kilogra 56.8 53.1 47.8 38.7 29.3 45.8	Estimate  am per minute  55.9 54.9 50.2 41.3 30.6 50.4	55.8 54.3 49.4 38.7 29.8 49.8	56.1 55.5 51.0 43.8 31.3 51.0	56.3 56.1 51.3 44.6 33.5 53.6	56.1 54.5 49.2 42.8 29.6 52.6	56.4 57.8 53.4 46.4 37.4 54.6
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 80 to 69 <b>Males</b> Age 8 to 11 Age 12 to 19	50.2 47.6 40.4 31.9 23.8 <b>37.8</b> 50.6 51.8	49.9 47.2 39.6 30.8 22.8 36.9	50.6 48.0 41.2 33.0 24.9 38.7	54.0 52.5 45.7 36.8 28.7 <b>45.0</b>	From millilitres  51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2	70 To Per kilogra 56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1	Estimate  55.9 54.9 50.2 41.3 30.6 50.4	55.8 54.3 49.4 38.7 29.8 49.8	56.1 55.5 51.0 43.8 31.3 51.0	56.3 56.1 51.3 44.6 33.5 53.6	56.1 54.5 49.2 42.8 29.6 52.6	56.4 57.8 53.4 46.4 37.4 <b>54.6</b> 56.5 61.5
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69 Males Age 8 to 11 Age 12 to 19 Age 20 to 39	50.2 47.6 40.4 31.9 23.8 <b>37.8</b> 50.6 51.8 43.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4	70 per kilogra 56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1 50.8	Estimate  m per minute  55.9 54.9 50.2 41.3 30.6 50.4 56.0 55.9 51.0	55.8 54.3 49.4 38.7 29.8 49.8	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2	56.1 54.5 49.2 42.8 29.6 52.6 56.1 57.6 50.3	56.4 57.8 53.4 46.4 54.6 56.5 61.5 58.1
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	50.2 47.6 40.4 31.9 23.8 37.8 50.6 51.8 43.9 34.4	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 38.4	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4 38.3	yal To  per kilogra  56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1 50.8 41.3	Estimate  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 49.1 42.5	56.1 55.5 51.0 43.8 31.3 51.0	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2 46.1	56.1 54.5 49.2 42.8 29.6 52.6	56.4 57.8 53.4 46.4 37.4 <b>54.6</b> 56.5 61.5
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69 Males Age 8 to 11 Age 12 to 19 Age 20 to 39	50.2 47.6 40.4 31.9 23.8 <b>37.8</b> 50.6 51.8 43.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4	70 per kilogra 56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1 50.8	Estimate  m per minute  55.9 54.9 50.2 41.3 30.6 50.4 56.0 55.9 51.0	55.8 54.3 49.4 38.7 29.8 49.8	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2	56.1 54.5 49.2 42.8 29.6 52.6 56.1 57.6 50.3	56.4 57.8 53.4 46.4 54.6 56.5 61.5 58.1
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69	50.2 47.6 40.4 31.9 23.8 <b>37.8</b> 50.6 51.8 43.9 34.4 26.8	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4 25.2	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 38.4 28.3	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8 29.8	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4 38.3 29.2	70 per kilogra 56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1 50.8 41.3 30.5	Estimate  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6 33.6	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 49.1 42.5 28.9	56.1 55.5 51.0 43.8 31.3 <b>51.0</b> 56.2 57.7 52.9 46.6 38.2	56.3 56.1 51.3 44.6 33.5 53.6 59.5 54.2 46.1 X	56.1 54.5 49.2 42.8 29.6 52.6 56.1 57.6 50.3 43.9	56.4 57.8 53.4 46.4 37.4 <b>54.6</b> 56.5 61.5 58.1
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 69 Age 8 to 69	50.2 47.6 40.4 31.9 23.8 37.8 50.6 51.8 43.9 34.4 26.8 40.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4 25.2 39.2 49.6	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 38.4 28.3 42.5	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8 29.8 <b>47.8</b>	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.9 53.2 47.4 38.3 29.2 46.2	yal To  per kilogra  56.8 53.1 47.8 38.7 29.3 45.8  55.6 55.1 50.8 41.3 30.5 49.5	Estimate  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6 33.6 52.3	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 42.5 28.9 51.2	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9 46.6 38.2 53.5	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2 46.1 X 55.1	56.1 54.5 49.2 42.8 29.6 52.6 56.1 57.6 50.3 43.9 54.2	56.4 57.8 53.4 46.4 37.4 54.6 56.5 58.1 48.4 55.9
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 69 Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Females Age 8 to 11 Age 12 to 19	50.2 47.6 40.4 31.9 23.8 37.8 50.6 51.8 43.9 34.4 26.8 40.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4 25.2 39.2 49.6 43.3	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 42.5 50.3 44.5	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8 29.8 <b>47.8</b>	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4 38.3 29.2 46.2 50.2 47.3	ral To per kilogra 56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1 50.8 41.3 30.5 49.5	Estimate  m per minute  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6 43.6 52.3	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 49.1 42.5 28.9 51.2	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9 46.6 38.2 53.5	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2 46.1 X 55.1	Confide intended inte	76.4 56.4 57.8 53.4 46.4 54.6 56.5 58.1 48.4 55.9
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 8 to 11 Age 12 to 19 Age 20 to 59 Age 60 to 69 Age 8 to 69  Females Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 8 to 11 Age 12 to 19 Age 20 to 39	50.2 47.6 40.4 31.9 23.8 37.8 50.6 51.8 43.9 34.4 26.8 40.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4 25.2 39.2 49.6 43.3 37.6	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 38.4 42.5 50.3 44.5 39.3	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8 29.8 29.8 47.8	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4 38.3 29.2 46.2 50.2 47.3 39.7	ral To per kilogra 56.8 53.1 47.8 38.7 45.8 55.6 55.1 50.8 41.3 30.5 49.5 52.2 48.7 41.6	Estimate  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6 33.6 52.3	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 49.1 42.5 51.2 55.1 50.9 40.5	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9 46.6 38.2 53.5	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2 46.1 X 55.1	Confide intent   From    56.1   54.5   49.2   42.8   29.6   52.6    56.1   57.6   50.3   43.9   54.2    56.0   53.4   44.7	56.4 57.8 53.4 46.4 37.4 54.6 55.9 56.6 55.9
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 8 to 69  Females Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 8 to 69	50.2 47.6 40.4 31.9 23.8 37.8 50.6 51.8 43.9 34.4 26.8 40.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4 25.2 39.2 49.6 43.3 37.6 29.4	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 38.4 28.3 42.5 50.3 44.5 39.3 30.8	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8 29.8 <b>47.8</b> 51.2 48.0 40.7	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4 38.3 29.2 46.2 50.2 47.3 39.7 32.4	70 per kilogra 56.8 53.1 47.8 38.7 29.3 45.8 55.6 55.1 50.8 41.3 30.5 49.5 52.2 48.7 41.6 34.5	Estimate  am per minute  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6 33.6 52.3	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 42.5 28.9 51.2 55.1 50.9 40.5 35.2	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9 46.6 38.2 53.5 56.4 54.5 49.6 49.6 7	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2 46.1 X 55.1 56.3 54.2 49.5 36.8	Confide intent   From   56.1   54.5   49.2   42.8   29.6   56.1   57.6   50.3   43.9   54.2   56.0   53.4   44.7   36.2	56.4 57.8 53.4 46.4 37.4 <b>54.6</b> 56.5 61.5 58.1 48.4 55.9
Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Males Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 69 Age 8 to 69  Females Age 8 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39	50.2 47.6 40.4 31.9 23.8 37.8 50.6 51.8 43.9 34.4 26.8 40.9	49.9 47.2 39.6 30.8 22.8 36.9 50.1 51.0 42.1 30.4 25.2 39.2 49.6 43.3 37.6	50.6 48.0 41.2 33.0 24.9 38.7 51.1 52.6 45.8 38.4 42.5 50.3 44.5 39.3	54.0 52.5 45.7 36.8 28.7 <b>45.0</b> 54.8 54.2 49.1 39.8 29.8 29.8 47.8	51.2 51.9 43.7 35.0 28.1 44.1 53.9 53.2 47.4 38.3 29.2 46.2 50.2 47.3 39.7	ral To per kilogra 56.8 53.1 47.8 38.7 45.8 55.6 55.1 50.8 41.3 30.5 49.5 52.2 48.7 41.6	Estimate  55.9 54.9 50.2 41.3 30.6 50.4  56.0 55.9 51.0 44.6 33.6 52.3	55.8 54.3 49.4 38.7 29.8 49.8 55.9 54.1 49.1 42.5 51.2 55.1 50.9 40.5	56.1 55.5 51.0 43.8 31.3 51.0 56.2 57.7 52.9 46.6 38.2 53.5	56.3 56.1 51.3 44.6 33.5 53.6 56.3 59.5 54.2 46.1 X 55.1	Confide intent   From    56.1   54.5   49.2   42.8   29.6   52.6    56.1   57.6   50.3   43.9   54.2    56.0   53.4   44.7	56.4 57.8 53.4 46.4 37.4 54.6 55.9 56.6 55.9

Note(s): Total household population aged 8 to 69, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). Equation for predicted maximal aerobic power has not been validated for children aged 8 to 14 years.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 16
Measured neck circumference, by age and sex, household population aged 3 to 19, Canada, 2009 to 2011

					Measur	ed neck ci	rcumference					
	Me	an		5th per	centile		10th pe	rcentile		25th pe	rcentile	
	Estimate	Confide inter		Estimate	Confide interv		Estimate	Confid inter		Estimate	Confident inter	
	•	From	То	•	From	То	'	From	То		From	To
						centimet	res					
Both sexes Age 3 to 5	24.6	24.4	24.9	21.9	21.4	22.4	22.5	22.2	22.7	23.4	23.2	23.6
Age 6 to 11	27.5 32.8	27.3 32.4	27.8 33.3	24.2 27.9	24.0 27.2	24.5 28.6	24.8 28.5	24.5 28.0	25.1 28.9	25.8 30.2	25.5 29.8	26.1 30.5
Age 12 to 19 Age 3 to 19	32.8 <b>29.8</b>	32.4 <b>29.5</b>	33.3 <b>30.0</b>	27.9 <b>23.5</b>	27.2	28.6 23.6	24.3	28.0 <b>24.2</b>	28.9 <b>24.5</b>	26.3	29.8 <b>26.0</b>	26.5
Age 6 to 19	30.8	30.5	31.0	25.1	24.9	25.3	25.9	25.6	26.2	27.7	27.4	28.0
Males												
Age 6 to 11	28.1	27.7	28.5	24.8	24.1	25.5	25.3	24.8	25.7	26.1	25.4	26.8
Age 12 to 19 Age 6 to 19	34.7 <b>32.1</b>	34.0 <b>31.7</b>	35.3 <b>32.5</b>	28.1 <b>25.5</b>	26.1 <b>25.0</b>	30.1 <b>26.0</b>	29.8 <b>26.1</b>	28.1 <b>25.7</b>	31.4 <b>26.5</b>	32.6 <b>28.0</b>	31.6 <b>27.6</b>	33.6 <b>28.5</b>
Females												
Age 6 to 11	27.0	26.8	27.1	23.9	23.6	24.3	24.4	24.1	24.7	25.4	25.2	25.6
Age 12 to 19 Age 6 to 19	31.0 <b>29.4</b>	30.5 <b>29.1</b>	31.4 <b>29.7</b>	27.9 <b>24.6</b>	27.4 <b>24.3</b>	28.4 <b>24.9</b>	28.2 <b>25.4</b>	27.8 <b>25.2</b>	28.5 <b>25.6</b>	29.3 <b>27.4</b>	28.9 <b>27.3</b>	29.7 <b>27.6</b>
	50th pe	rcentile		75th pe		ed neck ci	rcumference 90th pe	rcentile		95th ne	ercentile	
	Estimate	Confide		Estimate	Confide		Estimate	Confid		Estimate	Confid	2000
	LStillate	inter		LStilllate	inter		Louinate	inter		LStilliate	inter	
		From	То	•	From	То		From	То		From	То
						centimet	res					
Both sexes				05.7					07.0	07.0		
Age 3 to 5 Age 6 to 11	24.4 27.3	24.2 26.9	24.6 27.6	25.7 28.8	25.2 28.5	26.2 29.1	26.9 30.6	26.1 29.7	27.8 31.4	27.6 31.8	27.0 31.4	28.2 32.1
Age 12 to 19	32.5	31.8	33.1	35.2	34.7	35.7	37.5	37.0	38.0	39.1	38.0	40.2
Age 3 to 19	29.1	28.8	29.5	32.6	32.1	33.0	35.7	35.2	36.2	37.5	37.0	38.1
Age 6 to 19	30.2	29.8	30.5	33.5	32.8	34.1	36.2	35.6	36.8	38.0	37.4	38.6
Males Age 6 to 11	27.8	27.4	28.1	29.4	28.8	30.1	31.6	30.6	32.5	32.2	30.7	33.7
Age 12 to 19	34.9	34.2	35.5	36.8	36.0	37.5	38.8	37.7	39.8	40.9	39.4	42.3
Age 6 to 19	32.1	31.3	33.0	35.4	35.0	35.9	37.7	37.1	38.4	39.2	37.7	40.7
Females	00.0	26.6	27.1	28.2	28.0	20.4	20.2	28.8	29.9	30.6	29.3	21.0
Age 6 to 11 Age 12 to 19	26.8 30.6	26.6 30.1	27.1 31.0	28.2 32.0	28.0 31.3	28.4 32.7	29.3 33.8	28.8 33.1	29.9 34.5	30.6 34.8	29.3 34.1	31.9 35.5
Age 6 to 19	29.3	28.9	29.7	31.2	30.7	31.7	33.0	32.2	33.8	34.2	33.3	35.1

Note(s): Total household population aged 3 to 19, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 17 Measured waist circumference of the household population - World Health Organization (WHO) protocol, by age and sex, Canada, 2009 to 2011

					Measure	d waist o	ircumference					
	-	Mean		5th pe	rcentile		10th p	ercentile		25th pe	ercentile	
	Estimate	Confidence	e interval	Estimate	Confid		Estimate	Confid inter		Estimate	Confid inter	
		From	То		From	То		From	То		From	То
						centime	tres					
Both sexes												
Age 3 to 5	51.3	50.6	51.9	45.1	44.5	45.6	46.1	45.5	46.8	48.4	47.6	49.1
Age 6 to 11 Age 12 to 19	60.5 74.6	59.8 73.0	61.3 76.2	49.2 58.8	47.7 56.2	50.7 61.4	50.6 61.2	49.3 59.6	51.8 62.8	53.9 66.4	52.8 64.8	55.0 67.9
Age 12 to 19 Age 20 to 39	74.6 85.7	83.6	87.7	66.5	64.6	68.3	69.9	68.1	0∠.8 71.7	75.4	73.4	77.5
Age 40 to 59	93.8	92.1	95.6	71.5	69.1	74.0	75.9	73.9	77.8	83.2	81.0	85.4
Age 60 to 79	97.4	95.6	99.2	72.8	70.1	75.5	77.5	74.8	80.1	86.5	84.1	89.0
Age 3 to 79	86.3	84.9	87.6	54.7	53.8	55.6	62.8	61.5	64.0	73.5	71.9	75.1
Age 6 to 79	87.5	86.1	88.9	59.9	58.6	61.3	66.4	65.5	67.3	75.2	74.0	76.4
Males	C4.0	60.0	60.0	50.2	40.7	F4.0	E4.0	50.0	F2.0	55.4	F2.7	FC (
Age 6 to 11	61.8 76.3	60.8 74.3	62.8 78.2	50.3 56.2	48.7 52.9	51.9 59.5	51.9 60.9	50.0 56.0	53.9 65.7	55.1 67.8	53.7 65.7	56.6 69.9
Age 12 to 19 Age 20 to 39	76.3 88.9	86.2	91.6	71.3	52.9 70.4	72.1	72.8	70.7	74.8	79.0	76.2	81.8
Age 40 to 59	97.8	95.6	99.9	78.5	75.1	81.8	83.3	80.5	86.1	88.7	86.9	90.4
Age 60 to 79	103.3	100.7	106.0	82.5	79.3	85.7	86.3	83.0	89.7	93.9	90.7	97.2
Age 6 to 79	90.9	89.3	92.5	59.4	57.5	61.3	68.9	67.8	70.0	79.4	77.8	81.1
Females	50.0	=0.4	50.0	40.0	40.0	40.0	=0.4	40.0		50.0	=4.0	
Age 6 to 11	59.2	58.4	59.9	48.3	46.9	49.6	50.1	48.8	51.4	52.8	51.6	54.0
Age 12 to 19	72.8	70.8	74.9	60.2	58.6	61.8	61.3	60.4	62.3	65.0	63.2	66.7
Age 20 to 39	82.3	79.9	84.7	64.8	62.9	66.7	66.5	64.7	68.3	71.5	69.0	73.9
Age 40 to 59	89.9 91.9	87.4 89.7	92.3 94.1	69.3 70.0	66.6 66.9	72.1 73.2	71.6 73.6	68.5 71.3	74.7 75.8	78.5 79.7	76.5	80.5 81.6
Age 60 to 79 Age 6 to 79	84.0	82.6	85.5	<b>60.3</b>	<b>58.9</b>	61.7	64.6	63.4	65.7	79.7 <b>72.1</b>	77.7 <b>70.7</b>	73.5
					Measure	d waist o	circumference					
	50th p	ercentile		75th perc			90th pe	rcentile		95th pe	rcentile	
	Estimate	Confider interval		Estimate	Confidenc interval	e	Estimate	Confider interval		Estimate	Confide interv	
		From	То	F	rom	То		From	То		From	То
	<u> </u>					centime	tres					
Both sexes												
Age 3 to 5	50.5	49.9	51.1		51.9	54.4	57.2	55.7	58.8	58.8	55.8	
Age 3 to 5 Age 6 to 11	58.1	56.9	59.2	65.4	64.5	54.4 66.3	57.2 72.5	69.8	75.3	77.9	73.9	81.8
Age 3 to 5 Age 6 to 11 Age 12 to 19	58.1 72.3	56.9 70.9	59.2 73.8	65.4 80.5	64.5 77.4	54.4 66.3 83.5	57.2 72.5 90.2	69.8 84.6	75.3 95.8	77.9 101.1	73.9 95.8	81.8 106.5
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	58.1 72.3 83.4	56.9 70.9 81.3	59.2 73.8 85.6	65.4 80.5 94.1	64.5 77.4 91.8	54.4 66.3 83.5 96.3	57.2 72.5 90.2 104.5	69.8 84.6 98.0	75.3 95.8 111.0	77.9 101.1 113.6	73.9 95.8 109.3	81.8 106.5 118.0
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	58.1 72.3 83.4 92.4	56.9 70.9 81.3 90.4	59.2 73.8 85.6 94.4	65.4 80.5 94.1 101.9	64.5 77.4 91.8 99.1	54.4 66.3 83.5 96.3 104.8	57.2 72.5 90.2 104.5 113.7	69.8 84.6 98.0 110.1	75.3 95.8 111.0 117.3	77.9 101.1 113.6 120.0	73.9 95.8 109.3 116.2	81.8 106.5 118.0 123.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	58.1 72.3 83.4 92.4 97.4	56.9 70.9 81.3 90.4 95.1	59.2 73.8 85.6 94.4 99.6	65.4 80.5 94.1 101.9 106.9	64.5 77.4 91.8 99.1 03.9	54.4 66.3 83.5 96.3 104.8 109.8	57.2 72.5 90.2 104.5 113.7 118.0	69.8 84.6 98.0 110.1 115.0	75.3 95.8 111.0 117.3 121.0	77.9 101.1 113.6 120.0 125.2	73.9 95.8 109.3 116.2 121.3	81.8 106.5 118.0 123.7 129.2
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79	58.1 72.3 83.4 92.4	56.9 70.9 81.3 90.4	59.2 73.8 85.6 94.4	65.4 80.5 94.1 101.9 106.9 1 <b>98.1</b>	64.5 77.4 91.8 99.1 03.9 <b>96.4</b>	54.4 66.3 83.5 96.3 104.8	57.2 72.5 90.2 104.5 113.7	69.8 84.6 98.0 110.1	75.3 95.8 111.0 117.3	77.9 101.1 113.6 120.0	73.9 95.8 109.3 116.2	81.8 106.5 118.0 123.7 129.2 <b>119.4</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79	58.1 72.3 83.4 92.4 97.4 <b>86.0</b>	56.9 70.9 81.3 90.4 95.1 <b>84.2</b>	59.2 73.8 85.6 94.4 99.6 <b>87.9</b>	65.4 80.5 94.1 101.9 106.9 1 <b>98.1</b>	64.5 77.4 91.8 99.1 03.9 <b>96.4</b>	54.4 66.3 83.5 96.3 104.8 109.8 <b>99.7</b>	57.2 72.5 90.2 104.5 113.7 118.0 110.3	69.8 84.6 98.0 110.1 115.0 <b>107.5</b>	75.3 95.8 111.0 117.3 121.0 <b>113.1</b>	77.9 101.1 113.6 120.0 125.2 <b>117.5</b>	73.9 95.8 109.3 116.2 121.3 <b>115.6</b>	81.8 106.5 118.0 123.7 129.2 <b>119.4</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11	58.1 72.3 83.4 92.4 97.4 <b>86.0</b> 86.8	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b>	59.2 73.8 85.6 94.4 99.6 <b>87.9</b> <b>88.4</b>	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6	64.5 77.4 91.8 99.1 03.9 <b>96.4</b> <b>96.9</b>	54.4 66.3 83.5 96.3 104.8 109.8 <b>99.7</b> <b>100.2</b>	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5	69.8 84.6 98.0 110.1 115.0 107.5 107.7	75.3 95.8 111.0 117.3 121.0 113.1 113.3	77.9 101.1 113.6 120.0 125.2 117.5 118.0	73.9 95.8 109.3 116.2 121.3 115.6 116.1	81.8 106.5 118.0 123.7 129.2 <b>119.4</b> <b>119.9</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males Age 60 to 11 Age 12 to 19	58.1 72.3 83.4 92.4 97.4 86.0 86.8	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7	59.2 73.8 85.6 94.4 99.6 <b>87.9</b> <b>88.4</b> 60.4 75.6	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6	64.5 77.4 91.8 99.1 03.9 <b>96.4</b> <b>96.9</b> 64.9 79.5	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5	69.8 84.6 98.0 110.1 115.0 107.5 107.7	75.3 95.8 111.0 117.3 121.0 113.1 113.3	77.9 101.1 113.6 120.0 125.2 117.5 118.0	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2	81.8 106.5 118.0 123.7 129.2 <b>119.4</b> <b>119.9</b> 92.2 106.2
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8	59.2 73.8 85.6 94.4 99.6 <b>87.9</b> <b>88.4</b> 60.4 75.6 90.5	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6 66.6 83.3 95.9	64.5 77.4 91.8 99.1 03.9 <b>96.4</b> <b>96.9</b> 64.9 79.5 92.9	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3	69.8 84.6 98.0 110.1 115.0 107.5 107.7	75.3 95.8 111.0 117.3 121.0 <b>113.1</b> <b>113.3</b> 79.7 104.5 114.3	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 40 to 59	58.1 72.3 83.4 92.4 97.4 <b>86.0</b> 86.8 58.9 73.7 87.2 95.9	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8 93.6	59.2 73.8 85.6 94.4 99.6 <b>87.9</b> <b>88.4</b> 60.4 75.6 90.5 98.2	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6 66.6 83.3 95.9 104.7	64.5 77.4 91.8 99.1 03.9 <b>96.4</b> <b>96.9</b> 64.9 79.5 92.9 00.5	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0 108.9	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0	69.8 84.6 98.0 110.1 115.0 107.5 107.7	75.3 95.8 111.0 117.3 121.0 <b>113.1</b> <b>113.3</b> 79.7 104.5 114.3 118.9	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6 119.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 60 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8	59.2 73.8 85.6 94.4 99.6 <b>87.9</b> <b>88.4</b> 60.4 75.6 90.5	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6 66.6 83.3 95.9 104.7 1 111.6 1	64.5 77.4 91.8 99.1 03.9 <b>96.4</b> <b>96.9</b> 64.9 79.5 92.9 00.5 08.4	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3	69.8 84.6 98.0 110.1 115.0 107.5 107.7	75.3 95.8 111.0 117.3 121.0 <b>113.1</b> <b>113.3</b> 79.7 104.5 114.3	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2 131.0
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 60 to 79  Males Age 60 to 79 Age 60 to 79 Age 60 to 79	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2 95.9 101.5 91.1	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8 93.6 98.3 <b>89.3</b>	59.2 73.8 85.6 94.4 99.6 <b>87.9</b> <b>88.4</b> 60.4 75.6 90.5 98.2 104.6 <b>92.8</b>	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6 66.6 83.3 95.9 104.7 111.6 1	64.5 77.4 91.8 91.8 99.1 03.9 96.4 96.9 64.9 79.5 92.9 00.5 08.4 99.3	54.4 66.3 83.5 96.3 104.8 109.8 <b>99.7</b> <b>100.2</b> 68.3 87.0 99.0 108.9 114.7 <b>104.4</b>	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0 122.0 113.1	69.8 84.6 98.0 110.1 115.0 107.5 107.7 71.2 88.8 100.3 109.1 117.8 109.9	75.3 95.8 111.0 117.3 121.0 113.1 113.3 79.7 104.5 114.3 118.9 126.1 116.2	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6 119.9 126.6 118.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7 122.2 115.5	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2 131.0 122.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 6 to 79  France 10 to 59 Age 6 to 79 Age 6 to 79 Age 6 to 79 France 10 to 79 Age 6 to 79 France 10 to 79	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2 95.9 101.5 91.1	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8 93.6 98.3 <b>89.3</b>	59.2 73.8 85.6 94.4 99.6 87.9 88.4 60.4 75.6 90.5 98.2 104.6 92.8	65.4 80.5 94.1 101.9 106.9 1 98.6 66.6 83.3 95.9 104.7 111.6 101.8	64.5 77.4 91.8 91.8 99.1 03.9 96.4 96.9 64.9 79.5 900.5 08.4 99.3	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0 108.9 114.7 104.4	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0 122.0 113.1	69.8 84.6 98.0 110.1 115.0 <b>107.5</b> <b>107.7</b> 71.2 88.8 100.3 109.1 117.8 <b>68.6</b>	75.3 95.8 111.0 117.3 121.0 <b>113.1</b> <b>113.3</b> 79.7 104.5 114.3 118.9 126.1 <b>116.2</b>	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6 119.9 126.6 118.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7 122.2 115.5	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2 131.0 122.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Females Age 60 to 11 Age 12 to 19 Age 60 to 79	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2 95.9 101.5 91.1	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8 93.6 98.3 <b>89.3</b>	59.2 73.8 85.6 94.4 99.6 87.9 88.4 60.4 75.6 90.5 98.2 104.6 92.8 58.6 72.7	65.4 80.5 94.1 101.9 106.9 1 98.6 66.6 83.3 95.9 104.7 111.6 101.8	64.5 77.4 991.8 99.1 03.9 <b>96.4</b> <b>96.9</b> 64.9 79.5 92.9 00.5 <b>08.5</b> <b>09.5</b>	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 108.9 114.7 104.4 65.0 81.7	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0 122.0 113.1	69.8 84.6 98.0 110.1 115.0 107.5 107.7 71.2 88.8 100.3 109.1 117.8 68.6 82.7	75.3 95.8 111.0 117.3 121.0 <b>113.1</b> <b>113.3</b> 79.7 104.5 114.3 118.9 126.1 71.9 91.6	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6 119.9 126.6 118.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7 122.2 115.5	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2 131.0 122.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 77  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2 95.9 101.5 91.1 57.1 70.2 78.1	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8 93.6 98.3 <b>89.3</b> 55.6 67.7 74.5	59.2 73.8 85.6 94.4 99.6 87.9 88.4 60.4 75.6 90.5 98.2 104.6 92.8 58.6 72.7 81.7	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6 66.6 83.3 95.9 104.7 111.6 1 101.8	64.5 77.4 991.8 99.1 03.9 96.4 96.9 64.9 79.5 92.9 00.5 08.4 99.3	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0 108.9 114.7 104.4 65.0 81.7 93.9	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0 122.0 113.1	69.8 84.6 98.0 110.1 115.0 107.5 71.2 88.8 100.3 109.1 117.8 109.9	75.3 95.8 111.0 117.3 121.0 113.1 113.3 79.7 104.5 114.3 118.9 126.1 116.2 71.9 91.6 108.8	77.9 101.1 113.6 120.0 125.2 117.5 118.0  81.1 102.7 113.6 119.9 126.6 118.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7 122.2 115.5 70.7 88.0 105.0	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2 131.0 122.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Frail State	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2 95.9 101.5 91.1 57.1 70.2 78.1 86.8	56.9 70.9 81.3 90.4 95.1 84.2 85.2 57.4 71.7 83.8 93.6 98.3 55.6 67.7 74.5 83.6	59.2 73.8 85.6 94.4 99.6 87.9 88.4 60.4 75.6 90.5 98.2 104.6 92.8 58.6 72.7 81.7 90.1	65.4 80.5 94.1 101.9 106.9 1 98.6 66.6 83.3 95.9 104.7 111.6 101.8 63.9 77.7 89.9 98.0	64.5 77.4 991.8 99.1 03.9 96.4 96.9 64.9 79.5 92.9 00.5 08.4 99.3	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0 108.9 114.7 104.4 65.0 81.7 93.9 101.6	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0 122.0 113.1 70.3 87.1 100.8 111.5	69.8 84.6 98.0 110.1 115.0 107.7 107.7 71.2 88.8 100.3 109.1 117.8 109.9	75.3 95.8 111.0 117.3 121.0 113.1 113.3 79.7 104.5 114.3 118.9 126.1 116.2 71.9 91.6 108.8 115.6	77.9 101.1 113.6 120.0 125.2 117.5 118.0 81.1 102.7 113.6 119.9 126.6 118.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7 722.2 115.5 70.7 88.0 105.0 114.2	81.8 106.5 118.0 123.7 129.2 119.4 119.9 92.2 106.2 118.9 125.2 131.0 122.3 78.5 100.5 124.7 125.6
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 77  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	58.1 72.3 83.4 92.4 97.4 86.0 86.8 58.9 73.7 87.2 95.9 101.5 91.1 57.1 70.2 78.1	56.9 70.9 81.3 90.4 95.1 <b>84.2</b> <b>85.2</b> 57.4 71.7 83.8 93.6 98.3 <b>89.3</b> 55.6 67.7 74.5	59.2 73.8 85.6 94.4 99.6 87.9 88.4 60.4 75.6 90.5 98.2 104.6 92.8 58.6 72.7 81.7	65.4 80.5 94.1 101.9 106.9 1 98.1 98.6 66.6 83.3 95.9 104.7 111.6 101.8 63.9 77.7 89.9 98.0 99.7	64.5 77.4 991.8 99.1 03.9 96.4 96.9 64.9 79.5 92.9 00.5 08.4 99.3	54.4 66.3 83.5 96.3 104.8 109.8 99.7 100.2 68.3 87.0 99.0 108.9 114.7 104.4 65.0 81.7 93.9	57.2 72.5 90.2 104.5 113.7 118.0 110.3 110.5 75.5 96.7 107.3 114.0 122.0 113.1	69.8 84.6 98.0 110.1 115.0 107.5 71.2 88.8 100.3 109.1 117.8 109.9	75.3 95.8 111.0 117.3 121.0 113.1 113.3 79.7 104.5 114.3 118.9 126.1 116.2 71.9 91.6 108.8	77.9 101.1 113.6 120.0 125.2 117.5 118.0  81.1 102.7 113.6 119.9 126.6 118.9	73.9 95.8 109.3 116.2 121.3 115.6 116.1 70.1 99.2 108.2 114.7 122.2 115.5 70.7 88.0 105.0	61.7. 81.8. 106.5. 123.7. 129.2. 119.4. 119.9. 92.2. 118.9. 92.2. 131.0. 122.3. 78.5. 100.5. 124.7. 125.6. 124.7.

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 18 Measured waist circumference of the household population - National Institutes of Health (NIH) protocol, by age and sex, Canada, 2009 to 2011

-					Measure	d waist o	ircumference					
		Mean		5th pe	ercentile		10th p	ercentile		25th pe	ercentile	
	Estimate	Confidence	e interval	Estimate	Confid		Estimate	Confic		Estimate	Confid inter	
		From	То		From	То		From	То		From	То
						centime	tres					
Both sexes												
Age 3 to 5	51.7	51.0	52.4	45.4	44.8	46.1	46.4	45.6	47.1	48.4 54.7	47.4	49.5
Age 6 to 11 Age 12 to 19	61.7 76.8	60.9 75.1	62.5 78.4	49.9 59.8	48.3 57.2	51.5 62.5	51.5 63.1	50.5 61.1	52.5 65.1	54.7 68.4	53.7 67.0	55.8 69.9
Age 12 to 19 Age 20 to 39	87.7	85.7	89.7	68.6	66.9	70.3	71.7	70.1	73.3	77.7	76.3	79.1
Age 40 to 59	95.2	93.5	97.0	73.4	70.3	76.6	78.8	76.6	81.1	85.5	83.6	87.3
Age 60 to 79	98.3	96.6	100.1	75.0	72.0	77.9	79.5	77.1	81.9	88.1	85.6	90.6
Age 3 to 79	87.8	86.5	89.1	55.3	54.4	56.2	64.5	63.3	65.7	75.9	74.6	77.2
Age 6 to 79	89.1	87.7	90.4	61.4	60.1	62.7	68.1	67.1	69.0	77.4	76.3	78.6
Males	62.8	C4 0	63.8	50.8	49.3	52.3	F4.0	50.1	53.5	55.3	54.0	56.6
Age 6 to 11		61.8 75.6	79.8	50.8 57.1	53.4	52.3 60.9	51.8 62.3	57.6	67.0	69.0	66.9	71.2
Age 12 to 19 Age 20 to 39	77.7 90.3	75.6 87.5	93.1	72.1	70.7	73.4	62.3 74.2	71.4	77.0	80.7	77.8	83.6
Age 40 to 59	98.3	96.2	100.4	80.5	78.2	82.8	84.2	81.5	86.9	89.5	87.9	91.1
Age 60 to 79	103.4	100.7	106.0	82.6	80.3	85.0	86.8	83.8	89.8	94.0	90.6	97.3
Age 6 to 79	91.8	90.2	93.4	60.9	59.0	62.8	69.9	68.6	71.2	80.8	79.5	82.1
Females												
Age 6 to 11	60.6	59.8	61.4	48.9	47.4	50.4	51.2	49.6	52.7	54.0	52.8	55.3
Age 12 to 19	75.8	73.7	77.9	61.6	59.9	63.4	63.2	61.3	65.1	67.8	66.4	69.2
Age 20 to 39	85.0	82.7	87.3	66.9	64.8	69.0	68.8	66.8	70.7	73.9	71.7	76.1
Age 40 to 59	92.0	89.6	94.5	71.4	69.1	73.8	74.4	71.1	77.7	80.6	78.6	82.7
Age 60 to 79 Age 6 to 79	93.8 <b>86.3</b>	91.7 <b>84.9</b>	95.8 <b>87.8</b>	71.9 <b>61.7</b>	68.9 <b>60.4</b>	75.0 <b>62.9</b>	76.1 <b>67.0</b>	73.7 <b>65.6</b>	78.4 <b>68.3</b>	83.1 <b>74.5</b>	80.2 <b>72.9</b>	85.9 <b>76.0</b>
					Measure	ed waist o	circumference					
	50th p	ercentile		75th perc	entile		90th pe	rcentile		95th pe	rcentile	
	Estimate	Confider interva		Estimate	Confiden interval	се	Estimate	Confider interval		Estimate	Confide interv	
		From	То		rom	То	_	From	То		From	То
					10111							
					TOTT	centime	tres					
Both sexes												
Age 3 to 5	50.8	50.1	51.4	54.0	52.9	55.0	57.6	55.9	59.3	60.1	56.1	64.2
Age 3 to 5 Age 6 to 11	59.3	58.0	60.6	54.0 67.0	52.9 65.9	55.0 68.2	57.6 74.1	70.7	77.6	79.6	75.1	84.1
Age 3 to 5 Age 6 to 11 Age 12 to 19	59.3 74.5	58.0 72.8	60.6 76.1	54.0 67.0 82.9	52.9 65.9 79.8	55.0 68.2 86.0	57.6 74.1 92.6	70.7 86.7	77.6 98.6	79.6 104.0	75.1 99.1	84.1 108.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	59.3 74.5 85.4	58.0 72.8 83.5	60.6 76.1 87.4	54.0 67.0 82.9 96.1	52.9 65.9 79.8 93.7	55.0 68.2 86.0 98.5	57.6 74.1 92.6 106.1	70.7 86.7 100.3	77.6 98.6 111.9	79.6 104.0 117.2	75.1 99.1 110.8	84.1 108.9 123.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	59.3 74.5 85.4 93.6	58.0 72.8 83.5 92.2	60.6 76.1 87.4 95.1	54.0 67.0 82.9 96.1 103.0 1	52.9 65.9 79.8 93.7 00.6	55.0 68.2 86.0 98.5 105.4	57.6 74.1 92.6 106.1 113.3	70.7 86.7 100.3 109.5	77.6 98.6 111.9 117.1	79.6 104.0 117.2 120.9	75.1 99.1 110.8 116.1	84.1 108.9 123.7 125.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	59.3 74.5 85.4 93.6 98.1	58.0 72.8 83.5 92.2 95.8	60.6 76.1 87.4 95.1 100.5	54.0 67.0 82.9 96.1 103.0 1	52.9 65.9 79.8 93.7 00.6 04.7	55.0 68.2 86.0 98.5 105.4 110.2	57.6 74.1 92.6 106.1 113.3 118.9	70.7 86.7 100.3 109.5 115.5	77.6 98.6 111.9 117.1 122.3	79.6 104.0 117.2 120.9 124.4	75.1 99.1 110.8 116.1 120.8	84.1 108.9 123.7 125.7 127.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	59.3 74.5 85.4 93.6	58.0 72.8 83.5 92.2	60.6 76.1 87.4 95.1	54.0 67.0 82.9 96.1 103.0 107.4 1	52.9 65.9 79.8 93.7 00.6 04.7 <b>97.7</b>	55.0 68.2 86.0 98.5 105.4	57.6 74.1 92.6 106.1 113.3	70.7 86.7 100.3 109.5	77.6 98.6 111.9 117.1	79.6 104.0 117.2 120.9	75.1 99.1 110.8 116.1	84.1 108.9 123.7 125.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males	59.3 74.5 85.4 93.6 98.1 87.8 88.6	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b>	60.6 76.1 87.4 95.1 100.5 <b>89.4</b> <b>90.1</b>	54.0 67.0 82.9 96.1 103.0 1 107.4 1 99.6	52.9 65.9 79.8 93.7 00.6 04.7 <b>97.7</b> <b>97.8</b>	55.0 68.2 86.0 98.5 105.4 110.2 <b>101.1</b>	57.6 74.1 92.6 106.1 113.3 118.9 111.0	70.7 86.7 100.3 109.5 115.5 <b>108.4</b> <b>108.8</b>	77.6 98.6 111.9 117.1 122.3 113.5 113.6	79.6 104.0 117.2 120.9 124.4 119.3 119.4	75.1 99.1 110.8 116.1 120.8 117.1 117.5	84.1 108.9 123.7 125.7 127.9 <b>121.5</b> <b>121.2</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males Age 6 to 11	59.3 74.5 85.4 93.6 98.1 87.8 88.6	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b>	60.6 76.1 87.4 95.1 100.5 89.4 90.1	54.0 67.0 82.9 96.1 103.0 107.4 99.4 99.6	52.9 65.9 79.8 93.7 00.6 04.7 <b>97.7</b> <b>97.8</b>	55.0 68.2 86.0 98.5 105.4 110.2 <b>101.1</b> <b>101.4</b>	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2	70.7 86.7 100.3 109.5 115.5 <b>108.4</b> <b>108.8</b>	77.6 98.6 111.9 117.1 122.3 113.5 113.6	79.6 104.0 117.2 120.9 124.4 119.3 119.4	75.1 99.1 110.8 116.1 120.8 117.1 117.5	84.1 108.9 123.7 125.7 127.9 <b>121.5</b> <b>121.2</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b>	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b> 57.8 73.3	60.6 76.1 87.4 95.1 100.5 <b>89.4</b> <b>90.1</b> 61.5 77.1	54.0 67.0 82.9 96.1 103.0 107.4 199.4 99.6	52.9 65.9 79.8 93.7 00.6 04.7 <b>97.7</b> <b>97.8</b> 66.8 81.4	55.0 68.2 86.0 98.5 105.4 110.2 <b>101.1</b> <b>101.4</b> 70.1 88.4	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2	70.7 86.7 100.3 109.5 115.5 <b>108.4</b> <b>108.8</b> 73.0 90.0	77.6 98.6 111.9 117.1 122.3 113.5 113.6	79.6 104.0 117.2 120.9 124.4 119.3 119.4	75.1 99.1 110.8 116.1 120.8 117.1 117.5	84.1 108.9 123.7 125.7 127.9 <b>121.5</b> <b>121.2</b> 94.3 109.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b> 57.8 73.3 85.3	60.6 76.1 87.4 95.1 100.5 <b>89.4</b> <b>90.1</b> 61.5 77.1 91.4	54.0 67.0 82.9 96.1 103.0 1 107.4 199.4 99.6 68.4 84.9 96.9	52.9 65.9 79.8 93.7 00.6 04.7 <b>97.7</b> <b>97.8</b> 66.8 81.4	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2	70.7 86.7 100.3 109.5 115.5 <b>108.4</b> <b>108.8</b> 73.0 90.0 101.0	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8	84.1 108.9 123.7 125.7 127.9 <b>121.5</b> <b>121.2</b> 94.3 109.9 125.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 40 to 59	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b> 57.8 73.3 85.3 93.9	60.6 76.1 87.4 95.1 100.5 <b>89.4</b> <b>90.1</b> 61.5 77.1 91.4 99.2	54.0 67.0 82.9 96.1 107.4 107.4 99.4 99.6 68.4 84.9 96.9	52.9 65.9 79.8 93.7 00.6 04.7 <b>97.7</b> <b>97.8</b> 66.8 81.4 93.7 01.4	55.0 68.2 86.0 98.5 105.4 110.2 <b>101.1</b> <b>101.4</b> 70.1 88.4 100.2 108.1	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5	70.7 86.7 100.3 109.5 115.5 <b>108.4</b> <b>108.8</b> 73.0 90.0 101.0 107.4	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0	84.1 108.9 123.7 125.7 127.9 121.5 121.2 94.3 109.9 125.7 124.8
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b> 57.8 73.3 85.3	60.6 76.1 87.4 95.1 100.5 <b>89.4</b> <b>90.1</b> 61.5 77.1 91.4	54.0 67.0 82.9 96.1 107.4 199.4 99.6 68.4 84.9 96.9 104.7 1112.3	52.9 65.9 93.7 00.6 04.7 <b>97.7</b> <b>97.8</b> 66.8 81.4 93.7 01.4 08.6	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2	70.7 86.7 100.3 109.5 115.5 <b>108.4</b> <b>108.8</b> 73.0 90.0 101.0	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8	84.1 108.9 123.7 125.7 127.9 <b>121.5</b> <b>121.2</b> 94.3 109.9 125.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4 96.5 101.8 <b>92.1</b>	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b> 57.8 73.3 85.3 93.9 99.4 <b>90.5</b>	60.6 76.1 87.4 95.1 100.5 <b>89.4</b> <b>90.1</b> 61.5 77.1 91.4 99.2 104.1 <b>93.7</b>	54.0 67.0 82.9 96.1 103.0 107.4 199.4 99.6 68.4 84.9 96.9 104.7 112.3 112.3	52.9 79.8 93.7 00.6 97.7 97.7 97.8 66.8 81.4 93.7 01.4 00.4	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2 108.1 116.1 104.5	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5 120.4	70.7 86.7 100.5 115.5 108.4 108.8 73.0 90.0 101.0 107.4 117.4 109.4	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6 123.5 116.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4 125.0	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0 118.9 117.5	84.1 108.9 123.7 125.7 127.5 121.2 94.3 109.9 125.7 124.8 131.2 122.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Males Age 6 to 17 Age 7 to 19 Age 8 to 59 Age 6 to 79  Females Age 6 to 11	59.3 74.5 85.4 93.6 98.1 87.8 88.6 59.6 75.2 88.4 96.5 101.8 92.1	58.0 72.8 83.5 92.2 95.8 <b>86.2</b> <b>87.1</b> 57.8 73.3 85.3 93.9 99.4 <b>90.5</b>	60.6 76.1 87.4 95.1 100.5 89.4 90.1 61.5 77.1 91.4 99.2 104.1 93.7	54.0 67.0 82.9 96.1 107.4 107.4 99.4 99.6 68.4 84.9 96.9 104.7 112.3 1 102.4 1	52.9 65.9 79.8 93.7 00.6 97.7 97.8 66.8 81.4 93.7 01.4 08.6 <b>00.4</b>	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2 108.1 116.1 104.5	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5 120.4 112.8	70.7 86.7 100.3 109.5 115.5 108.4 108.8 73.0 90.0 101.0 107.4 117.4 117.4 70.4	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6 123.5 116.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4 125.0 119.8	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0 118.9 117.5	84.1 108.9 123.7 125.7 127.9 121.5 121.2 94.3 109.9 125.7 124.8 131.2 122.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 6 to 79	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4 96.5 101.8 <b>92.1</b>	58.0 72.8 83.5 92.2 95.8 86.2 87.1 57.8 73.3 85.3 93.9 99.4 90.5	60.6 76.1 87.4 95.1 100.5 89.4 90.1 61.5 77.1 99.2 104.1 93.7 60.5 76.0	54.0 67.0 82.9 96.1 103.0 107.4 99.4 99.6 68.4 84.9 96.9 104.7 112.3 1102.4 1 65.5 81.3	52.9 65.9 79.8 93.7 004.7 <b>97.7</b> <b>97.8</b> 66.8 81.4 93.7 01.4 08.6 <b>00.4</b>	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2 108.1 116.1 104.5 66.4 85.0	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5 120.4 112.8	70.7 86.7 100.3 109.5 115.5 108.4 108.8 73.0 90.0 101.0 107.4 117.4 109.4 70.4 85.5	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6 123.5 116.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4 125.0 119.8	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0 118.9 117.5	84.1 108.9 123.7 125.7 121.5 121.2 94.3 109.9 125.7 124.8 131.2 122.1 80.5 104.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4 96.5 101.8 <b>92.1</b> 58.7 73.5	58.0 72.8 83.5 92.2 95.8 86.2 87.1 57.8 73.3 85.3 93.9 99.4 90.5	60.6 76.1 87.4 95.1 100.5 88.4 90.1 61.5 77.1 91.4 99.2 104.1 93.7 60.5 76.0 84.9	54.0 67.0 82.9 96.1 103.0 107.4 199.4 99.6 68.4 84.9 96.9 104.7 112.3 1102.4 1 65.5 81.3 92.8	52.9 65.9 79.8 93.7 90.6 04.7 <b>97.8</b> 66.8 81.4 93.7 01.4 00.4 64.5 77.7 88.6	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2 108.1 116.1 104.5 66.4 85.0 97.0	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5 120.4 112.8	70.7 86.7 100.3 109.5 115.5 108.4 108.8 73.0 90.0 101.0 107.4 117.4 109.4 70.4 85.5 96.9	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6 123.5 116.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4 125.0 119.8	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0 118.9 117.5 73.8 90.2 107.5	84.1 108.9 123.7 125.7 127.9 121.5 121.2 94.3 109.9 125.7 124.8 131.2 122.1 80.5 104.9 126.0
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Page 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 19 Age 20 to 39 Age 40 to 59 Age 20 to 39 Age 40 to 59	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4 96.5 101.8 <b>92.1</b> 58.7 73.5 81.4	58.0 72.8 83.5 92.2 95.8 86.2 87.1 57.8 73.3 93.9 99.4 90.5 56.9 71.0 78.0 85.7	60.6 76.1 87.4 95.1 100.5 89.4 90.1 61.5 77.1 91.4 99.2 104.1 93.7 60.5 76.0 84.9 92.1	54.0 67.0 82.9 96.1 107.4 107.4 99.4 99.6 68.4 84.9 96.9 104.7 112.3 1 102.4 1 65.5 81.3 99.4	52.9 65.9 79.8 93.7 97.7 97.7 97.8 66.8 81.4 08.6 00.4 64.5 77.7 896.3	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2 108.1 116.1 104.5 66.4 85.0 97.0 102.5	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5 120.4 112.8 72.3 89.6 104.5 112.0	70.7 86.7 100.3 109.5 115.5 108.4 108.8 73.0 90.0 101.0 107.4 117.4 109.4 70.4 85.5 96.9 107.7	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6 123.5 116.2 74.2 93.6 112.0 112.0 116.3	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4 125.0 119.8 77.1 97.6 116.7 123.3	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0 118.9 117.5 73.8 90.2 107.5 107.5	84.1 108.9 123.7 125.7 127.9 121.5 121.2 94.3 109.9 125.7 124.8 131.2 122.1 80.5 104.9 126.0 131.2
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	59.3 74.5 85.4 93.6 98.1 <b>87.8</b> <b>88.6</b> 59.6 75.2 88.4 96.5 101.8 <b>92.1</b> 58.7 73.5	58.0 72.8 83.5 92.2 95.8 86.2 87.1 57.8 73.3 85.3 93.9 99.4 90.5	60.6 76.1 87.4 95.1 100.5 88.4 90.1 61.5 77.1 91.4 99.2 104.1 93.7 60.5 76.0 84.9	54.0 67.0 82.9 96.1 103.0 107.4 199.4 99.6 68.4 84.9 96.9 104.7 112.3 1102.4 1 65.5 81.3 92.8	52.9 65.9 79.8 93.7 97.7 97.7 97.8 66.8 81.4 08.6 00.4 64.5 77.7 896.3	55.0 68.2 86.0 98.5 105.4 110.2 101.1 101.4 70.1 88.4 100.2 108.1 116.1 104.5 66.4 85.0 97.0	57.6 74.1 92.6 106.1 113.3 118.9 111.0 111.2 77.7 99.5 108.1 113.5 120.4 112.8	70.7 86.7 100.3 109.5 115.5 108.4 108.8 73.0 90.0 101.0 107.4 117.4 109.4 70.4 85.5 96.9	77.6 98.6 111.9 117.1 122.3 113.5 113.6 82.5 109.1 115.2 119.6 123.5 116.2	79.6 104.0 117.2 120.9 124.4 119.3 119.4 82.0 106.0 117.2 119.4 125.0 119.8	75.1 99.1 110.8 116.1 120.8 117.1 117.5 69.6 102.1 108.8 114.0 118.9 117.5 73.8 90.2 107.5	84.1 108.9 123.7 125.7 127.9 121.5 121.2 94.3 109.9 125.7 124.8 131.2 122.1 80.5 104.9 126.0

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 19 Measured hip circumference, by age and sex, household population, Canada, 2009 to 2011

					Measu	red hip c	ircumference					
	-	Mean		5th pe	ercentile		10th p	ercentile		25th p	ercentile	
	Estimate	Confidence	ce interval	Estimate	Confid inte		Estimate	Confid inter		Estimate	Confid inter	
		From	То		From	То		From	То		From	То
						centime	tres					
Both sexes												
Age 3 to 5	59.1	58.4	59.8	51.9	51.0	52.8	53.3	52.6	53.9	55.3	54.6	56.1
Age 6 to 11	73.1	72.4	73.9	59.7	58.3	61.1	61.6	60.1	63.1	66.2	65.0	67.3
Age 12 to 19	94.2	92.6	95.8	76.9	72.8	81.1	81.4	78.2	84.6	87.8	86.0	89.6
Age 20 to 39	102.1	100.5	103.7	87.9	85.3	90.5	90.4	88.8	92.0	94.9	93.5	96.3
Age 40 to 59	104.4	103.1	105.7	89.9	88.2	91.6	91.9	90.0	93.8	97.4	96.2	98.6
Age 60 to 79	105.1	103.8	106.4	90.2	88.4	91.9	92.9	91.1	94.7	98.1	97.1	99.1
Age 3 to 79	99.1	98.2	100.0	66.5	65.6	67.5	80.6	79.3	81.9	92.6	91.5	93.7
Age 6 to 79	100.5	99.5	101.5	75.4	73.9	77.0	84.9	83.5	86.3	93.5	92.5	94.5
Males												
Age 6 to 11	73.4	72.6	74.2	59.9	57.5	62.4	61.9	59.8	64.1	66.4	64.8	67.9
Age 12 to 19	93.5	91.4	95.6	73.5	66.3	80.6	78.7	73.1	84.2	87.5	85.0	90.0
Age 20 to 39	102.0	100.0	103.9	88.9	86.6	91.2	91.0	88.4	93.6	95.4	94.0	96.9
Age 40 to 59	102.6	101.2	104.0	89.8	87.5	92.1	91.4	88.6	94.2	96.9	95.3	98.6
		101.2	105.5	91.2	89.8		93.9	92.2	95.5	98.0	96.4	99.6
Age 60 to 79 Age 6 to 79	103.9 <b>99.4</b>	98.4	105.5 100.5	91.2 <b>73.5</b>	71.3	92.7 <b>75.6</b>	93.9 <b>85.5</b>	92.2 <b>83.9</b>	95.5 <b>87.1</b>	98.0 <b>93.8</b>	96.4 <b>92.8</b>	99.6 <b>94.8</b>
•	33.4	30.4	100.5	73.3	71.5	73.0	03.5	03.3	07.1	33.0	32.0	34.0
Females Age 6 to 11	72.9	71.8	74.0	59.5	57.8	61.2	61.2	59.7	62.7	66.0	64.0	68.0
Age 12 to 19	95.0	92.7	97.2	79.8	76.6	83.0	82.5	80.6	84.4	88.4	86.3	90.6
Age 20 to 39	102.3	100.3	104.3	85.8	81.3	90.3	89.9	88.5	91.2	93.9	91.8	96.0
Age 40 to 59	106.3	104.2	108.3	89.9	86.7	93.2	92.4	90.1	94.7	97.6	95.3	99.9
Age 60 to 79 Age 6 to 79	106.2 <b>101.6</b>	104.4 <b>100.4</b>	108.0 <b>102.7</b>	88.2 <b>77.0</b>	85.0 <b>75.7</b>	91.5 <b>78.3</b>	91.9 <b>84.8</b>	89.4 <b>82.7</b>	94.3 <b>86.8</b>	98.6 <b>93.2</b>	97.1 <b>92.0</b>	100.0 <b>94.4</b>
	101.0	100.4	102.7	11.0	70.7	70.0	04.0	02.7	00.0	30.2	52.0	04.4
	50th ne	ercentile		75th ner		ed hip ci	rcumference	ercentile		95th n	ercentile	
	50th pe	ercentile Confider		75th per Estimate	centile Confider	nce	rcumference 90th pe Estimate	Confide		95th p Estimate	ercentile Confid	
		Confider interva	al	Estimate	centile Confider interva	nce	90th pe	Confide interv	al		Confid- inter	val
		Confide		Estimate	centile Confider	nce al To	90th pe Estimate	Confide			Confid	
Doth cours		Confider interva	al	Estimate	centile Confider interva	nce	90th pe Estimate	Confide interv	al		Confid- inter	val
Both sexes Age 3 to 5		Confider interva	al	Estimate	centile Confider interva	nce al To	90th pe Estimate	Confide interv	al		Confid- inter	val
Age 3 to 5	Estimate _	Confider interval	To 59.3	Estimate	Confider interval	To centime	90th pe Estimate  tres 66.1	Confider intervention From 64.6	To 67.5	Estimate -	Confidinter From 65.9	To
Age 3 to 5 Age 6 to 11	Estimate	From  57.1 70.8	To 59.3 72.7	Estimate	Confider interval	To centime:	90th pe Estimate — tres 66.1 85.2	From 64.6 83.7	To 67.5 86.7	Estimate	Confidinten From  65.9 88.3	To 69.0 93.3
Age 3 to 5 Age 6 to 11 Age 12 to 19	58.2 71.7 92.8	From  57.1 70.8 91.3	59.3 72.7 94.3	62.0 79.1 100.7	Confider interval From  60.7 78.1 98.6	To centime: 63.3 80.0 102.8	90th pe Estimate	Confider intervention   From   64.6   83.7   104.7	67.5 86.7 111.9	67.5 90.8 115.2	Confidinter From  65.9 88.3 110.1	69.0 93.3 120.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	58.2 71.7 92.8 100.4	From 57.1 70.8 91.3 98.3	59.3 72.7 94.3 102.4	62.0 79.1 100.7 107.9	Confider interval From 60.7 78.1 98.6 106.6	To centime: 63.3 80.0 102.8 109.2	90th pe Estimate	From  64.6 83.7 104.7 110.8	67.5 86.7 111.9 120.0	Estimate  67.5  90.8  115.2 122.9	Confid inter From  65.9 88.3 110.1 119.3	69.0 93.3 120.3 126.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	58.2 71.7 92.8 100.4 102.5	From  57.1 70.8 91.3 98.3 101.3	59.3 72.7 94.3 102.4 103.6	62.0 79.1 100.7 107.9 108.8	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.0	To centime 63.3 80.0 102.8 109.2 111.6	90th pe Estimate	From  64.6 83.7 104.7 110.8 117.0	67.5 86.7 111.9 120.0 121.2	67.5 90.8 115.2 122.9 124.8	Confid inter From 65.9 88.3 110.1 119.3 120.2	69.0 93.3 120.3 126.4 129.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	58.2 71.7 92.8 100.4 102.5 103.8	57.1 70.8 91.3 98.3 101.3 102.6	59.3 72.7 94.3 102.4 103.6 105.0	62.0 79.1 100.7 107.9 108.8 110.4	Centile Confider interval From  60.7 78.1 98.6 106.6 106.0 108.9	To centime  63.3 80.0 102.8 109.2 111.6 111.9	90th pe Estimate	Confide interv From 64.6 83.7 104.7 110.8 117.0 115.9	67.5 86.7 111.9 120.0 121.2 120.9	Estimate	65.9 88.3 110.1 119.3 120.2 119.6	69.0 93.3 120.3 126.4 129.3 130.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79	58.2 71.7 92.8 100.4 102.5 103.8 100.1	57.1 70.8 91.3 98.3 101.3 102.6 98.9	59.3 72.7 94.3 102.4 103.6 105.0 101.3	62.0 79.1 100.7 107.9 108.8 110.4 107.2	Centile Confider interval From  60.7 78.1 98.6 106.6 106.0 108.9 106.1	To centime  63.3 80.0 102.8 109.2 111.9 111.9 108.3	90th pe Estimate — tres 66.1 85.2 108.3 115.4 119.1 118.4 115.7	Confider intervention   From   64.6   83.7   104.7   110.8   117.0   115.9   113.3	67.5 86.7 111.9 120.0 121.2 120.9 118.1	67.5 90.8 115.2 122.9 124.8 125.0 122.8	65.9 88.3 110.1 119.3 120.2 119.6 120.7	69.0 93.3 120.3 126.4 129.3 130.4 <b>124.9</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79	58.2 71.7 92.8 100.4 102.5 103.8	57.1 70.8 91.3 98.3 101.3 102.6	59.3 72.7 94.3 102.4 103.6 105.0	62.0 79.1 100.7 107.9 108.8 110.4 107.2	Centile Confider interval From  60.7 78.1 98.6 106.6 106.0 108.9	To centime  63.3 80.0 102.8 109.2 111.6 111.9	90th pe Estimate	Confide interv From 64.6 83.7 104.7 110.8 117.0 115.9	67.5 86.7 111.9 120.0 121.2 120.9	Estimate	65.9 88.3 110.1 119.3 120.2 119.6	69.0 93.3 120.3 126.4 129.3 130.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5	59.3 72.7 94.3 102.4 103.6 105.0 101.3	62.0 79.1 100.7 107.9 108.8 110.4 107.2	Centile Confider interva From  60.7 78.1 98.6 106.6 106.0 108.9 106.1 106.4	To centime  63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5	90th pe Estimate ————————————————————————————————————	64.6 83.7 104.7 110.8 117.9 113.3 114.1	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9	65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0	69.0 93.3 120.3 126.4 129.3 130.4 124.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5	59.3 72.7 94.3 102.4 103.6 105.0 101.3 101.8	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4	Centile Confider interval From  60.7 78.1 98.6 106.6 106.0 108.9 106.1 106.4 77.2	To centime  63.3 80.0 102.8 111.6 111.9 108.3 108.5 80.9	90th pe Estimate — tres 66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4	Confide intervention    64.6   83.7   104.7   110.8   117.0   115.9   114.1   82.5	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9	65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0	69.0 93.3 120.3 126.4 129.3 130.4 124.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7	From  57.1 70.8 91.3 98.3 101.3 98.9 99.5	59.3 72.7 94.3 102.4 103.0 101.3 101.8	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.9 106.1 106.4  77.2 98.0	63.3 80.0 102.8 109.2 111.9 108.3 108.5	90th pe Estimate	64.6 83.7 104.7 110.8 117.0 115.9 113.3 114.1	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0  89.0 109.3	69.0 93.3 120.3 126.4 129.3 130.4 124.9 93.5 121.3
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7	57.1 70.8 91.3 98.3 102.6 98.9 99.5	59.3 72.7 94.3 102.4 105.0 101.3 101.8 72.6 93.6 103.4	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.0 108.9 106.1 106.4  77.2 98.0 105.5	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5	90th pe Estimate — tres 66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4	Confide intervention   64.6   83.7   104.7   110.8   117.0   115.9   113.3   114.1   82.5   103.2   106.7	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9 91.3 115.3 120.1	65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0 89.0 109.3 113.2	69.0 93.3 120.3 126.4 129.3 130.4 124.9 93.5 121.3 126.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7	From  57.1 70.8 91.3 98.3 101.3 98.9 99.5	59.3 72.7 94.3 102.4 103.0 101.3 101.8	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.9 106.1 106.4  77.2 98.0	63.3 80.0 102.8 109.2 111.9 108.3 108.5	90th pe Estimate	64.6 83.7 104.7 110.8 117.0 115.9 113.3 114.1	67.5 86.7 111.9 120.9 118.1 118.8 89.3 113.5 118.0 117.7	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0  89.0 109.3	69.0 93.3 120.3 120.4 129.3 130.4 124.9 93.5 121.3 126.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0	57.1 70.8 91.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2	59.3 72.7 94.3 102.4 103.6 105.0 101.8 72.6 93.6 103.4 103.4 103.5	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4 79.1 100.5 107.4 106.7 108.7	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.9 106.1 106.4  77.2 98.0 105.5 104.4 106.7	63.3 80.0 102.8 109.2 111.9 108.3 108.5 80.9 102.9 109.4 108.9 110.7	90th pe Estimate  66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4  85.9 108.3 112.3 113.5 113.6	Confide interv From  64.6 83.7 104.7 110.8 117.0 115.9 113.3 114.1  82.5 103.2 106.7 109.3 111.6	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0 117.7	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9 91.3 115.3 120.1 117.6 119.8	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0  89.0 109.3 113.2 114.0 113.9	69.0 93.3 120.3 120.3 130.4 124.9 124.9 93.5 121.3 126.9 121.2 125.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6	59.3 72.7 94.3 102.6 103.6 105.0 101.3 101.8 72.6 93.6 103.4 103.5	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4 79.1 100.5 107.4 106.7 108.7	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.0 108.9 106.1 106.4  77.2 98.0 105.5 104.4	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 102.9	90th pe Estimate	64.6 83.7 104.7 117.0 115.9 113.3 114.1 82.5 103.2 109.3	67.5 86.7 111.9 120.9 118.1 118.8 89.3 113.5 118.0 117.7	67.5 90.8 115.2 122.9 124.8 125.0 122.8 191.3 115.3 120.1 117.6	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0  89.0 109.3 113.2 114.0	69.0 93.3 120.3 120.4 129.3 130.4 124.9 93.5 121.3 126.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0 102.7 100.3	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2 98.9	59.3 72.7 94.3 102.4 103.6 105.0 101.3 101.8 72.6 93.6 103.4 103.5 104.1 101.8	62.0 79.1 100.7 107.9 108.8 110.4 107.4 79.1 100.5 107.4 106.7 106.7	60.7 78.1 98.6 106.0 108.9 106.4 77.2 98.0 105.5 104.4 106.1	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 102.9 104.7 107.7	90th pe Estimate  66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4  85.9 108.3 112.3 113.5 113.6 112.3	64.6 83.7 104.7 117.0 115.9 114.1 82.5 106.7 109.3 111.6	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0 117.7 115.6	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9 91.3 115.3 120.1 117.6	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0 89.0 109.3 113.2 114.0 113.9 114.3	69.0 93.3 120.3 126.4 129.3 130.4 124.9 124.9 93.5 121.3 126.9 121.2 125.7
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 6 to 79  Page 6 to 79 Age 6 to 79  Fremales Age 6 to 11	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0 102.7 100.3	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2 98.9	59.3 72.7 94.3 102.4 103.6 105.0 101.8 72.6 93.6 103.4 103.5 104.1 101.8 73.8	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4 79.1 100.5 107.4 106.7 108.7 106.4	Centile Confider interval From  60.7 78.1 98.6 106.0 108.9 106.1 106.4 77.2 98.0 105.5 104.4 106.7 105.1 78.0	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 109.4 108.9 110.7 107.7	90th pe Estimate	64.6 83.7 104.7 110.8 117.0 115.9 113.3 114.1 82.5 103.7 109.3 111.6 109.4	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0 117.7 115.6 115.2	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9 91.3 115.3 115.3 120.1 117.6 119.8 117.4	Confid inter From  65.9 88.3 110.1 119.3 120.7 121.0 89.0 109.3 113.2 114.0 113.9 114.3	93.5 126.4 129.3 130.4 124.9 124.9 93.5 121.3 126.9 121.3 126.9 121.3 126.9
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 40 to 59 Age 60 to 79  Females Age 6 to 79	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0 102.7 100.3	57.1 70.8 91.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2 98.9	59.3 72.7 94.3 102.4 103.6 105.0 101.3 101.8 72.6 93.6 103.4 103.4 104.1 104.1 104.8	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4 79.1 100.5 107.4 106.7 108.7 106.4	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.0 108.9 106.1 106.4  77.2 98.0 105.1 104.4 106.7 105.1  78.0 97.2	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 110.7 107.7 80.1 104.7	90th pe Estimate  66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4 85.9 108.3 112.3 113.5 113.6 112.3	64.6 83.7 104.7 110.8 117.0 115.9 113.3 114.1 82.5 103.2 106.7 109.4 84.0 103.4	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0 117.7 115.6 115.2	67.5 90.8 115.2 122.9 124.8 125.0 122.8 120.1 117.6 119.8 117.4	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0  89.0 109.3 113.2 114.3 84.1 106.9	93.5 126.9 93.3 120.3 120.3 130.4 124.9 124.9 121.3 126.9 121.2 125.7 120.5
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0 102.7 100.3	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2 98.9	59.3 72.7 94.3 102.4 103.6 105.0 101.3 101.8 72.6 93.6 103.4 103.4 103.5 104.1 101.8 73.8 96.1 102.7	62.0 79.1 100.7 107.9 108.8 110.4 107.4 106.7 106.7 106.7 106.7 108.7 106.4	Centile  Confider interval  From  60.7 78.1 98.6 106.0 108.9 106.4  77.2 98.0 105.5 104.4 106.7 105.1  78.0 97.2 105.6	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 102.9 107.7 107.7	90th pe Estimate  66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4  85.9 108.3 112.3 113.5 113.6 112.3	64.6 83.7 104.7 117.0 115.9 114.1 82.5 103.2 106.7 109.3 111.6 84.0 103.4	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0 117.7 115.2 86.2 112.5 125.5	67.5 90.8 115.2 122.9 124.8 125.0 122.8 121.9 91.3 115.3 120.1 117.6 119.8 117.4	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0 89.0 109.3 113.2 114.0 113.9 114.3 84.1 106.9 119.4	93.5 121.2 92.3 120.3 120.3 120.3 120.3 124.9 124.9 93.5 121.3 126.9 121.2 125.7 120.5
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 20 to 39 Age 40 to 59	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0 102.7 100.3	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2 98.9 70.2 91.8 96.6 101.4	59.3 72.7 94.3 102.4 105.0 101.3 101.8 72.6 93.6 103.4 103.5 104.1 101.8 73.8 96.1 102.4	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4 79.1 100.5 107.4 106.7 108.7 106.4	Centile  Confider interval  From  60.7 78.1 98.6 106.6 106.0 108.9 106.1 106.4 77.2 98.0 105.5 104.4 106.7 105.1 78.0 97.2 105.6 109.1	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 102.9 107.7 107.7 80.1 104.7 110.3	90th pe Estimate	64.6 83.7 104.7 110.8 117.0 115.9 113.3 114.1 82.5 103.2 106.7 109.3 111.6 109.4 84.0 103.4 112.0 120.3	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 115.6 115.2	67.5 90.8 115.2 122.9 124.8 125.0 122.8 122.9 91.3 115.3 120.1 117.6 119.8 117.4	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0 89.0 109.3 113.2 114.0 113.9 114.3 84.1 106.9 119.4 124.9	93.5 120.3 120.3 120.3 130.4 124.9 124.9 93.5 121.3 126.9 121.2 125.7 120.5
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 17 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 17	58.2 71.7 92.8 100.4 102.5 103.8 100.1 100.7 71.6 91.8 101.1 102.0 102.7 100.3	57.1 70.8 91.3 98.3 101.3 102.6 98.9 99.5 70.5 90.0 98.8 100.6 101.2 98.9	59.3 72.7 94.3 102.4 103.6 105.0 101.3 101.8 72.6 93.6 103.4 103.4 103.5 104.1 101.8 73.8 96.1 102.7	62.0 79.1 100.7 107.9 108.8 110.4 107.2 107.4 79.1 100.5 107.4 106.7 108.7 106.4	Centile  Confider interval  From  60.7 78.1 98.6 106.0 108.9 106.4  77.2 98.0 105.5 104.4 106.7 105.1  78.0 97.2 105.6	63.3 80.0 102.8 109.2 111.6 111.9 108.3 108.5 80.9 102.9 102.9 107.7 107.7	90th pe Estimate  66.1 85.2 108.3 115.4 119.1 118.4 115.7 116.4  85.9 108.3 112.3 113.5 113.6 112.3	64.6 83.7 104.7 117.0 115.9 114.1 82.5 103.2 106.7 109.3 111.6 84.0 103.4	67.5 86.7 111.9 120.0 121.2 120.9 118.1 118.8 89.3 113.5 118.0 117.7 115.2 86.2 112.5 125.5	67.5 90.8 115.2 122.9 124.8 125.0 122.8 121.9 91.3 115.3 120.1 117.6 119.8 117.4	Confid inter From  65.9 88.3 110.1 119.3 120.2 119.6 120.7 121.0 89.0 109.3 113.2 114.0 113.9 114.3 84.1 106.9 119.4	93.5 126.9 124.9 93.5 121.3 126.9 124.9 93.5 121.3 126.9 121.2 125.7 120.5

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 20 Measured waist-to-hip ratio, by age and sex, household population, Canada, 2009 to 2011

					weasi	ired waist-	to-hip ratio					
	Me	an		5th per	centile		10th pe	rcentile		25th pe	rcentile	
	Estimate	Confide		Estimate	Confide		Estimate	Confide		Estimate	Confide inter	
	•	From	То	•	From	То	•	From	То	•	From	То
						ratio						
Both sexes												
Age 3 to 5	0.88	0.87	0.88	0.78	0.76	0.80	0.81	0.79	0.83	0.84	0.82	0.85
Age 6 to 11	0.84	0.84	0.85	0.76	0.75	0.76	0.77	0.76	0.77	0.80	0.79	0.81
Age 12 to 19	0.81	0.81	0.82	0.72	0.71	0.73	0.74	0.73	0.75	0.77	0.76	0.78
Age 20 to 39	0.86	0.85	0.86	0.73	0.72	0.74	0.75	0.74	0.76	0.80	0.79	0.81
Age 40 to 59	0.91	0.90	0.92	0.77	0.75	0.79	0.80	0.79	0.81	0.85	0.84	0.86
Age 60 to 79	0.93	0.93	0.94	0.78	0.76	0.79	0.81	0.80	0.83	0.86	0.85	0.87
Age 3 to 79	0.88	0.88	0.89	0.74	0.74	0.75	0.77	0.76	0.77	0.82	0.81	0.82
Age 6 to 79	0.88	0.88	0.89	0.74	0.74	0.75	0.77	0.76	0.77	0.81	0.81	0.82
Males												
Age 6 to 11	0.85	0.84	0.86	0.77	0.76	0.78	0.78	0.77	0.80	0.81	0.80	0.83
Age 12 to 19	0.83	0.82	0.84	0.75	0.74	0.76	0.76	0.75	0.77	0.79	0.78	0.79
Age 20 to 39	0.88	0.87	0.89	0.76	0.74	0.79	0.79	0.76	0.82	0.83	0.82	0.85
Age 40 to 59	0.96	0.95	0.97	0.85	0.83	0.88	0.87	0.86	0.89	0.91	0.89	0.92
Age 60 to 79	0.99	0.98	1.01	0.87	0.86	0.89	0.90	0.88	0.91	0.94	0.92	0.95
Age 6 to 79	0.92	0.91	0.93	0.78	0.77	0.78	0.80	0.79	0.81	0.85	0.84	0.86
Females	0.00	0.00	0.04	0.74	0.70	0.70	0.70	0.75	0.77	0.70	0.70	0.70
Age 6 to 11	0.83	0.83	0.84	0.74	0.72	0.76	0.76	0.75	0.77	0.79	0.78	0.79
Age 12 to 19	0.80	0.79	0.81	0.70	0.69	0.72	0.72	0.71	0.73	0.75	0.74	0.76
Age 20 to 39	0.83	0.82	0.84	0.72	0.71	0.73	0.74	0.72	0.75	0.76	0.75	0.78
Age 40 to 59	0.86	0.86	0.87	0.74	0.71	0.76	0.77	0.75	0.79	0.81	0.80	0.82
Age 60 to 79	0.88	0.87	0.89	0.76	0.74	0.78	0.78	0.76	0.80	0.83	0.82	0.84
Age 6 to 79	0.85	0.84	0.85	0.73	0.72	0.74	0.75	0.74	0.76	0.79	0.78	0.80
					Measu	red waist-	to-hip ratio					
	50th pe			75th pe			90th pe			95th pe		
	Estimate	Confide inter		Estimate	Confide interv		Estimate	Confide interv		Estimate	Confide inter	
	•	From	То	•	From	To	•	From	То	•	From	То
		1 10111			1 10111	10						
		110111			110111	ratio						
Both sexes		TIOIII			TTOIII							
Both sexes Age 3 to 5	0.87	0.86	0.88	0.90	0.90		0.93	0.92	0.94	0.96	0.93	0.99
	0.87 0.83			0.90 0.87		ratio	0.93 0.91	0.92 0.90	0.94 0.92	0.96 0.93	0.93 0.91	0.99 0.96
Age 3 to 5		0.86	0.88		0.90	ratio						
Age 3 to 5 Age 6 to 11	0.83	0.86 0.83	0.88 0.84	0.87	0.90 0.86	ratio 0.91 0.87	0.91	0.90	0.92	0.93	0.91	0.96
Age 3 to 5 Age 6 to 11 Age 12 to 19	0.83 0.80	0.86 0.83 0.80	0.88 0.84 0.81 0.86 0.92	0.87 0.84 0.90 0.96	0.90 0.86 0.83 0.89 0.95	0.91 0.87 0.85	0.91 0.89 0.95 1.00	0.90 0.87 0.94 0.99	0.92 0.91	0.93 0.93	0.91 0.91	0.96 0.94
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	0.83 0.80 0.85	0.86 0.83 0.80 0.84	0.88 0.84 0.81 0.86	0.87 0.84 0.90	0.90 0.86 0.83 0.89	0.91 0.87 0.85 0.92	0.91 0.89 0.95	0.90 0.87 0.94 0.99	0.92 0.91 0.97	0.93 0.93 0.98	0.91 0.91 0.95	0.96 0.94 1.00
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	0.83 0.80 0.85 0.91	0.86 0.83 0.80 0.84 0.89	0.88 0.84 0.81 0.86 0.92	0.87 0.84 0.90 0.96	0.90 0.86 0.83 0.89 0.95	0.91 0.87 0.85 0.92 0.97	0.91 0.89 0.95 1.00	0.90 0.87 0.94	0.92 0.91 0.97 1.01	0.93 0.93 0.98 1.03	0.91 0.91 0.95 1.02	0.96 0.94 1.00 1.05
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	0.83 0.80 0.85 0.91 0.93	0.86 0.83 0.80 0.84 0.89 0.92	0.88 0.84 0.81 0.86 0.92 0.94	0.87 0.84 0.90 0.96 0.99	0.90 0.86 0.83 0.89 0.95 0.98	0.91 0.87 0.85 0.92 0.97 1.01	0.91 0.89 0.95 1.00 1.05	0.90 0.87 0.94 0.99 1.04	0.92 0.91 0.97 1.01 1.06	0.93 0.93 0.98 1.03 1.08	0.91 0.91 0.95 1.02 1.06	0.96 0.94 1.00 1.05 1.10
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males	0.83 0.80 0.85 0.91 0.93 <b>0.87</b>	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> <b>0.87</b>	0.88 0.84 0.81 0.86 0.92 0.94 <b>0.88</b>	0.87 0.84 0.90 0.96 0.99 <b>0.94</b>	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b>	0.91 0.87 0.85 0.92 0.97 1.01 0.94 0.95	0.91 0.89 0.95 1.00 1.05 <b>0.99</b>	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b>	0.92 0.91 0.97 1.01 1.06 1.00	0.93 0.93 0.98 1.03 1.08 1.03	0.91 0.95 1.02 1.06 1.01	0.96 0.94 1.00 1.05 1.10 <b>1.04</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11	0.83 0.80 0.85 0.91 0.93 0.87	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> <b>0.87</b>	0.88 0.84 0.81 0.86 0.92 0.94 0.88 0.88	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> <b>0.94</b>	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b> <b>0.93</b>	0.91 0.87 0.85 0.92 0.97 1.01 0.94 0.95	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> <b>0.99</b>	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b>	0.92 0.91 0.97 1.01 1.06 1.00 1.00	0.93 0.93 0.98 1.03 1.08 1.03 1.03	0.91 0.91 0.95 1.02 1.06 1.01 1.02	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19	0.83 0.80 0.85 0.91 0.93 <b>0.87</b> 0.87	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> <b>0.87</b>	0.88 0.84 0.81 0.86 0.92 0.94 <b>0.88</b> <b>0.88</b>	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> <b>0.94</b>	0.90 0.86 0.83 0.89 0.95 0.93 0.93	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b>	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> <b>0.99</b>	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b>	0.92 0.91 0.97 1.01 1.06 1.00 1.00	0.93 0.93 0.98 1.03 1.08 1.03 1.03	0.91 0.95 1.02 1.06 1.01 1.02	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	0.83 0.80 0.85 0.91 0.93 0.87 0.87	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> 0.87	0.88 0.84 0.81 0.86 0.92 0.94 0.88 0.88	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> <b>0.87</b> 0.85 0.92	0.90 0.86 0.83 0.95 0.95 0.93 0.93	0.91 0.87 0.85 0.97 1.01 <b>0.94</b> <b>0.95</b>	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> <b>0.99</b>	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.90 0.89 0.94	0.92 0.91 0.97 1.01 1.06 1.00 1.00	0.93 0.93 0.98 1.03 1.08 1.03 1.03	0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97	0.96 0.94 1.00 1.05 1.10 1.04 1.04
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	0.83 0.80 0.85 0.91 0.93 <b>0.87</b> <b>0.84</b> 0.82 0.87 0.95	0.86 0.83 0.80 0.84 0.92 <b>0.87</b> <b>0.87</b> 0.83 0.81 0.86 0.94	0.88 0.84 0.86 0.92 0.94 <b>0.88</b> 0.88 0.88	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> <b>0.94</b> 0.85 0.85 0.92 0.99	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b> <b>0.93</b>	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b>	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> <b>0.99</b> 0.92 0.91 0.97 1.03	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.90 0.89 0.94 1.01	0.92 0.91 0.97 1.01 1.06 1.00 1.00	0.93 0.93 0.98 1.03 1.08 1.03 1.03 0.94 0.94 1.00	0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97 1.02	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 60 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 60 to 79	0.83 0.80 0.85 0.91 0.93 <b>0.87</b> 0.87	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> 0.87	0.88 0.84 0.81 0.86 0.94 0.88 0.88 0.88	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> 0.87 0.85 0.92 0.99 1.04	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b> 0.85 0.84 0.91 0.98	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b> 0.89 0.86 0.94 1.00	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> 0.99	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.90 0.89 0.94 1.01 1.06	0.92 0.91 0.97 1.01 1.06 1.00 1.00 0.94 0.93 1.00 1.05 1.09	0.93 0.93 0.98 1.03 1.08 1.03 1.03 0.94 0.94 1.00 1.06	0.91 0.91 0.95 1.02 1.06 <b>1.01</b> <b>1.02</b> 0.88 0.91 0.97 1.02 1.08	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04 1.00 0.96 1.02 1.10 1.11
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 62 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79 Age 60 to 79 Age 60 to 79	0.83 0.80 0.85 0.91 0.93 <b>0.87</b> <b>0.84</b> 0.82 0.87 0.95	0.86 0.83 0.80 0.84 0.92 <b>0.87</b> <b>0.87</b> 0.83 0.81 0.86 0.94	0.88 0.84 0.86 0.92 0.94 <b>0.88</b> 0.88 0.88	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> <b>0.94</b> 0.85 0.85 0.92 0.99	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b> <b>0.93</b>	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b>	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> <b>0.99</b> 0.92 0.91 0.97 1.03	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.90 0.89 0.94 1.01	0.92 0.91 0.97 1.01 1.06 1.00 1.00	0.93 0.93 0.98 1.03 1.08 1.03 1.03 0.94 0.94 1.00	0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97 1.02	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	0.83 0.80 0.85 0.91 0.93 <b>0.87</b> 0.87	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> 0.87	0.88 0.84 0.81 0.86 0.94 0.88 0.88 0.88	0.87 0.84 0.90 0.96 0.99 <b>0.94</b> 0.87 0.85 0.92 0.99 1.04	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b> 0.85 0.84 0.91 0.98	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b> 0.89 0.86 0.94 1.00	0.91 0.89 0.95 1.00 1.05 <b>0.99</b> 0.99	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.90 0.89 0.94 1.01 1.06	0.92 0.91 0.97 1.01 1.06 1.00 1.00 0.94 0.93 1.00 1.05 1.09	0.93 0.93 0.98 1.03 1.08 1.03 1.03 0.94 0.94 1.00 1.06	0.91 0.91 0.95 1.02 1.06 <b>1.01</b> <b>1.02</b> 0.88 0.91 0.97 1.02 1.08	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04 1.00 0.96 1.02 1.10 1.11
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  France 6 to 79  France 79 Age 6 to 79 Age 6 to 79	0.83 0.80 0.85 0.91 0.93 0.87 0.87 0.87 0.82 0.82 0.87 0.95 0.99	0.86 0.83 0.80 0.84 0.92 <b>0.87</b> <b>0.87</b> 0.83 0.81 0.94 0.97 <b>0.90</b>	0.88 0.84 0.81 0.92 0.94 0.88 0.88 0.86 0.89 0.96 1.00 0.92	0.87 0.84 0.90 0.96 0.99 0.94 0.94 0.87 0.85 0.92 0.99 1.04 0.97	0.90 0.86 0.83 0.89 0.95 0.98 0.93 0.93 0.85 0.84 0.91 0.98 1.03 0.96	0.91 0.87 0.85 0.92 1.01 <b>0.94</b> <b>0.95</b> 0.89 0.89 0.89 0.94 1.00 1.05 <b>0.99</b>	0.91 0.89 0.95 1.00 1.05 0.99 0.99 0.92 0.91 0.97 1.03 1.08 1.02	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.89 0.94 1.01 1.06 <b>1.01</b>	0.92 0.91 0.97 1.01 1.06 1.00 1.00 0.94 0.93 1.00 1.09 1.09	0.93 0.93 0.98 1.03 1.08 1.03 1.03 1.03 0.94 1.00 1.06 1.10	0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97 1.02 1.08 1.04	0.96 0.94 1.00 1.05 1.10 1.04 1.04 1.00 0.96 1.02 1.10 1.11 1.07
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 6 to 79	0.83 0.80 0.85 0.91 0.93 0.87 0.87 0.82 0.87 0.95 0.99 0.91	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> <b>0.83</b> 0.81 0.94 0.97 <b>0.90</b>	0.88 0.84 0.81 0.86 0.94 0.88 0.88 0.86 0.83 0.96 1.00 0.92	0.87 0.84 0.90 0.96 0.99 0.94 0.94 0.87 0.85 0.92 0.99 1.04 0.97	0.90 0.86 0.83 0.89 0.95 0.98 0.93 0.93 0.93 0.85 0.84 0.91 0.98 0.96	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b> 0.86 0.94 1.00 1.05 <b>0.99</b>	0.91 0.89 0.95 1.00 1.05 0.99 0.99 0.92 0.91 0.97 1.03 1.08 1.02	0.90 0.87 0.99 1.04 0.98 0.99 0.90 0.89 0.94 1.01 1.06 1.01	0.92 0.91 0.97 1.01 1.06 1.00 1.00 0.94 0.93 1.00 1.05 1.09 1.04	0.93 0.93 0.98 1.03 1.03 1.03 1.03 0.94 1.00 1.06	0.91 0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97 1.02 1.08 1.04	0.96 0.94 1.00 1.05 1.10 1.04 1.04 1.00 0.96 1.02 1.10 1.11 1.07
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 77  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	0.83 0.80 0.85 0.91 0.93 <b>0.87</b> 0.84 0.82 0.87 0.95 0.99 <b>0.91</b>	0.86 0.83 0.80 0.84 0.92 0.87 0.83 0.81 0.86 0.94 0.97 0.90	0.88 0.84 0.81 0.92 0.94 0.88 0.88 0.89 0.96 1.00 0.92	0.87 0.84 0.90 0.96 0.99 0.94 0.94 0.87 0.85 0.92 0.99 1.04 0.97	0.90 0.86 0.83 0.89 0.95 0.98 <b>0.93</b> 0.85 0.84 0.91 0.98 1.03 <b>0.96</b>	0.91 0.87 0.85 0.97 1.01 <b>0.95</b> 0.89 0.89 0.86 0.94 1.00 1.05 <b>0.99</b>	0.91 0.89 0.95 1.00 1.05 0.99 0.99 0.92 0.91 0.97 1.03 1.08 1.02	0.90 0.87 0.94 0.99 1.04 <b>0.98</b> <b>0.99</b> 0.89 0.94 1.01 1.06 <b>1.01</b>	0.92 0.91 0.97 1.01 1.06 1.00 1.00 0.94 0.93 1.00 1.05 1.09 1.04	0.93 0.93 0.98 1.03 1.08 1.03 1.03 1.03 0.94 1.00 1.06 1.10 0.92 0.91	0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97 1.02 1.08 1.04	0.96 0.94 1.00 1.05 1.10 <b>1.04</b> 1.04 1.00 0.96 1.02 1.10 1.11 1.07
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 6 to 79	0.83 0.80 0.85 0.91 0.93 0.87 0.87 0.82 0.87 0.95 0.99 0.91	0.86 0.83 0.80 0.84 0.89 0.92 <b>0.87</b> <b>0.83</b> 0.81 0.94 0.97 <b>0.90</b>	0.88 0.84 0.81 0.86 0.94 0.88 0.88 0.86 0.83 0.96 1.00 0.92	0.87 0.84 0.90 0.96 0.99 0.94 0.94 0.87 0.85 0.92 0.99 1.04 0.97	0.90 0.86 0.83 0.89 0.95 0.98 0.93 0.93 0.93 0.85 0.84 0.91 0.98 0.96	0.91 0.87 0.85 0.92 0.97 1.01 <b>0.94</b> <b>0.95</b> 0.86 0.94 1.00 1.05 <b>0.99</b>	0.91 0.89 0.95 1.00 1.05 0.99 0.99 0.92 0.91 0.97 1.03 1.08 1.02	0.90 0.87 0.99 1.04 0.98 0.99 0.90 0.89 0.94 1.01 1.06 1.01	0.92 0.91 0.97 1.01 1.06 1.00 1.00 0.94 0.93 1.00 1.05 1.09 1.04	0.93 0.93 0.98 1.03 1.03 1.03 1.03 0.94 1.00 1.06	0.91 0.91 0.95 1.02 1.06 1.01 1.02 0.88 0.91 0.97 1.02 1.08 1.04	0.96 0.94 1.00 1.05 1.10 1.04 1.04 1.00 0.96 1.02 1.10 1.11 1.07

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 21 Distribution of the household population with a body mass index less than 30 kg/m<sup>2</sup>, by the sum of the five skinfolds, by age and sex, Canada, 2009 to 2011

					Sı	ım of five	skinfolds					
	Me	ean		5th pe	ercentile		10th p	ercentile		25th p	ercentile	
	Estimate	Confid inte		Estimate	Confid inter		Estimate	Confid inte		Estimate	Confid inter	
		From	То		From	То		From	То		From	To
						millime	tres					
Both sexes	-											
Age 3 to 5	37.5	36.0	39.0	25.7	24.3	27.0	27.2	26.2	28.2	30.2	29.5	30.9
Age 6 to 11	51.5	49.5	53.4	24.8	23.8	25.8	27.1	25.9	28.4	32.1	31.1	33.2
Age 12 to 19	59.5	57.4	61.7	26.3	24.4	28.3	29.5	28.1	31.0	37.5	34.7	40.2
Age 20 to 39	68.8	64.4	73.1	28.9	26.7	31.1	32.9	29.5	36.2	47.0	40.4	53.6
Age 40 to 59	77.4	73.8	80.9	36.4	31.8	40.9	41.9	38.9	44.8	57.6	53.8	61.4
Age 60 to 79	74.9	71.7	78.1	36.5	33.3	39.8	43.9	39.9	47.9	55.6	52.1	59.2
Age 3 to 79	68.1	66.2	70.0	28.7	28.1	29.2	32.5	31.5	33.5	44.6	42.9	46.4
Age 6 to 79	69.5	67.6	71.5	29.0	28.4	29.5	33.5	32.3	34.6	47.1	44.8	49.3
Males												
Age 6 to 11	50.8	47.7	53.9	23.7	22.4	25.0	25.7	24.6	26.9	29.7	27.9	31.6
Age 12 to 19	48.3	45.7	51.0	24.8	22.6	27.0	26.3	24.5	28.2	31.5	29.8	33.
Age 20 to 39	56.3	51.2	61.5	28.7	23.9	33.5	29.6	27.3	31.8	36.2	30.7	41.8
Age 40 to 59	62.3	58.1	66.6	31.9	25.7	38.1	37.5	32.7	42.4	46.5	39.6	53.4
Age 60 to 79	60.3	57.8	62.7	33.4	27.7	39.1	38.5	35.1	42.0	48.2	44.9	51.4
Age 6 to 79	57.1	55.1	59.1	27.2	25.9	28.5	29.6	28.3	30.8	38.4	36.4	40.4
Females Age 6 to 11	52.2	50.0	54.3	26.7	24.4	29.0	29.4	27.7	31.1	34.5	32.3	36.7
Age 12 to 19	71.5	68.5	74.5	36.0	31.8	40.2	41.4	36.6	46.2	52.1	48.8	55.5
Age 20 to 39	81.5	76.4	86.5	40.1	30.6	49.6	50.9	43.8	58.1	62.9	57.3	68.5
	91.8	86.9	96.8	51.9	46.1	57.7	56.3	46.2	66.4	75.9	71.5	80.2
Age 40 to 59 Age 60 to 79	88.0	82.8	93.1	49.4	39.2	59.6	57.0	51.4	62.7	71.0	62.9	79.0
Age 6 to 79	81.9	79.4	84.4	36.4	33.0	39.8	45.1	42.3	48.0	61.9	60.2	63.7
	50th per	centile		75th per		ım of five	90th pe	rcentile		95th pe	ercentile	
	Estimate	Confide interv		Estimate	Confiden		Estimate	Confide		Estimate	Confide	
	_	From	То		From	То	_	From	То	_	From	To
						millime	tres					
Both sexes												
Age 3 to 5	35.1	33.6	36.6	41.1	39.2	43.0	48.0	44.1	51.8	59.0	46.2	71.7
Age 6 to 11	42.5	39.3	45.7	65.0	58.4	71.5	89.8	81.2	98.3	107.5	97.0	117.9
Age 12 to 19	53.9	51.4	56.4	76.4	71.8	81.0	98.8	91.5	106.2	113.4	105.4	121.4
Age 20 to 39	67.4	63.1	71.6	87.4	81.2	93.5	108.1	100.3	115.8	123.5	113.5	133.
Age 40 to 59	75.3	71.6	78.9	97.7	90.6	104.7	111.1	102.1	120.1	125.1	115.9	134.4
Age 60 to 79	71.9	68.0	75.8	91.1	84.6	97.7	113.3	106.7	119.9	120.9	117.0	124.9
Age 3 to 79	65.2	62.7 64.7	67.7	87.3 88.8	83.7 85.2	90.8 92.5	107.9 108.6	103.8 104.3	112.0 112.9	119.9 120.9	114.4 115.6	125.3 126.2
Age 6 to 79	67.0	04.7	69.3	00.0	03.2	92.5	100.0	104.3	112.9	120.9	115.6	120.2
Males Age 6 to 11	38.8	35.2	42.4	65.2	55.0	75.5	95.3	80.8	109.9	109.0	91.7	126.4
Age 12 to 19	39.8	37.5	42.2 62.3	60.2 70.2	54.9	65.5 75.6	77.9	70.3	85.4	98.5	88.0	109.0
Age 20 to 39	53.9	45.6			64.9		87.3	74.9	99.7	99.2	87.0	111.5
Age 40 to 59	62.4	58.3	66.6	73.1	67.6	78.6	89.3	79.9	98.6	99.0	89.7	108.3
Age 60 to 79 Age 6 to 79	58.8 <b>55.3</b>	54.3 <b>52.2</b>	63.4 <b>58.4</b>	72.3 <b>70.8</b>	67.5 <b>68.4</b>	77.1 <b>73.2</b>	84.8 <b>86.7</b>	81.3 <b>82.1</b>	88.3 <b>91.3</b>	88.6 <b>99.4</b>	82.7 <b>94.0</b>	94.5 <b>104.</b> 9
Females												
Age 6 to 11	45.3	42.2	48.5	63.7	57.5	69.9	84.6	77.2	92.0	97.1	90.4	103.
Age 12 to 19	67.1	62.6	71.6	87.4	81.6	93.1	109.7	98.6	120.9	118.8	108.6	129.0
Age 20 to 39	76.1	70.5	81.7	99.2	89.8	108.5	120.8	108.9	132.7	126.2	122.1	130.
AUE 40 IU 33												
			98.0					113.6	133.7		124.0	
Age 40 to 59 Age 60 to 79	91.8 85.9	85.6 79.1	98.0 92.7	107.5	100.8 101.2	114.2 111.5	123.7 120.1	113.6 115.3	133.7 124.9	130.8 126.8	124.0 118.6	137.5 135.0

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

102.0

97.6

106.3

119.2

113.6

124.8

85.6 79.1 **77.4** 

80.6

Age 6 to 79

83.8

125.1

131.2

128.1

Table 22 Measured standing height, by age and sex, household population, Canada, 2009 to 2011

					Mea	asured star	nding height					
		Mean		5th	percentile		10th	percentile		25th	h percentile	
	Estimate	Confidence	e interval	Estimate	Confidence	e interval	Estimate	Confidence	e interval	Estimate	Confidence	e interval
		From	То		From	То		From	То		From	То
	<u> </u>					centime	etres					
Both sexes												
Age 3 to 5	106.45	105.49	107.41	93.74	91.38	96.10	96.08	94.88	97.28	100.98	99.63	102.34
Age 6 to 11	134.84	133.64	136.03	117.16	115.05	119.26	119.78	118.41	121.15	125.75	123.54	127.97
Age 12 to 19	166.24	164.71	167.77	147.81	142.29	153.32	152.45	150.03	154.87	159.10	157.24	160.96
Age 20 to 39	170.35	169.18	171.53	155.08	152.79	157.38	157.91	156.02	159.80	162.42	160.76	164.09
Age 40 to 59	168.27	167.39	169.15	154.16	152.36	155.96	156.44	155.13	157.75	161.55	160.35	162.74
Age 60 to 79	165.32	164.79	165.86	150.57	149.00	152.15	152.90	151.93	153.88	158.87	158.11	159.63
Age 3 to 79 Age 6 to 79	163.73 165.77	163.11 165.11	164.36 166.43	124.79 139.96	122.69 137.89	126.88 142.02	145.99 151.58	144.31 150.40	147.67 152.76	158.42 159.25	157.59 158.44	159.24 160.06
Males				.00.00	.000		.01.00		.020	.00.20		
Age 6 to 11	134.58	133.25	135.92	118.47	116.14	120.80	120.16	118.66	121.65	125.83	122.61	129.04
Age 12 to 19	170.62	168.35	172.90	145.74	134.78	156.70	152.87	144.70	161.03	164.79	160.96	168.61
Age 20 to 39	177.70	176.52	178.87	165.76	163.61	167.92	168.00	165.69	170.30	173.67	171.68	175.67
Age 40 to 59	174.66	173.61	175.71	163.83	162.49	165.17	166.15	164.09	168.22	169.59	168.44	170.74
Age 60 to 79	172.61	171.61	173.61	162.02	161.00	163.04	163.38	161.72	165.04	167.72	165.90	169.54
Age 6 to 79	171.83	171.24	172.42	138.74	136.47	141.01	160.18	158.44	161.92	168.39	167.42	169.36
Females Age 6 to 11	135.11	133.18	137.04	115.96	112.02	119.90	119.42	117.13	121.72	125.39	122.35	128.44
Age 12 to 19	161.68	159.99	163.36	150.12	146.54	153.69	152.38	149.85	154.91	157.09	154.71	159.48
Age 12 to 19 Age 20 to 39	162.98	161.42	164.53	150.12	150.76	155.75	155.13	152.81	154.91	158.69	157.03	160.35
Age 40 to 59	161.83	160.78	162.88	151.02	147.91	154.13	154.07	152.01	157.45	157.38	156.30	158.46
		158.19	159.17	147.82	147.91	149.44	150.59	149.02	152.15		152.85	155.27
Age 60 to 79	158.68 <b>159.73</b>	158.19 158.86	160.60	147.82 142.45	146.20 139.46	149.44 145.44	150.59 1 <b>50.10</b>	149.02 148.52	152.15 151.67	154.06 <b>155.85</b>	154.91	155.27 156.79
Age 6 to 79	159.75	130.00	160.60	142.43	139.46	143.44	150.10	140.52	131.07	155.65	154.91	156.79
					Mea	asured star	nding height					
	50th	percentile		75th	percentile		90th	percentile		95th	h percentile	
	Estimate	Confidence		Estimate	Confidence		Estimate	Confidence		Estimate		
		From	То		From	То		From	То		From	То
						centime	etres					
Both sexes												
Age 3 to 5	106.99	105.49	108.50	111.54	109.70	113.38	116.24	114.43	118.05	120.17	117.17	123.17
Age 3 to 5 Age 6 to 11	135.08	133.61	136.56	143.58	141.94	145.23	150.58	148.74	152.42	154.31	152.71	155.91
Age 3 to 5 Age 6 to 11 Age 12 to 19	135.08 165.62	133.61 164.42	136.56 166.83	143.58 174.51	141.94 172.98	145.23 176.04	150.58 180.18	148.74 178.64	152.42 181.72	154.31 183.08	152.71 180.41	155.91 185.75
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	135.08 165.62 170.33	133.61 164.42 169.00	136.56 166.83 171.66	143.58 174.51 178.79	141.94 172.98 177.65	145.23 176.04 179.93	150.58 180.18 182.81	148.74 178.64 181.80	152.42 181.72 183.83	154.31 183.08 185.50	152.71 180.41 184.53	155.91 185.75 186.47
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	135.08 165.62 170.33 168.23	133.61 164.42 169.00 167.33	136.56 166.83 171.66 169.14	143.58 174.51 178.79 174.90	141.94 172.98 177.65 173.44	145.23 176.04 179.93 176.36	150.58 180.18 182.81 180.71	148.74 178.64 181.80 179.46	152.42 181.72 183.83 181.96	154.31 183.08 185.50 183.51	152.71 180.41 184.53 182.21	155.91 185.75 186.47 184.80
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	135.08 165.62 170.33 168.23 164.78	133.61 164.42 169.00 167.33 163.59	136.56 166.83 171.66 169.14 165.96	143.58 174.51 178.79 174.90 172.84	141.94 172.98 177.65 173.44 171.55	145.23 176.04 179.93 176.36 174.12	150.58 180.18 182.81 180.71 178.07	148.74 178.64 181.80 179.46 176.94	152.42 181.72 183.83 181.96 179.19	154.31 183.08 185.50 183.51 180.85	152.71 180.41 184.53 182.21 180.01	155.91 185.75 186.47 184.80 181.69
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	135.08 165.62 170.33 168.23	133.61 164.42 169.00 167.33	136.56 166.83 171.66 169.14	143.58 174.51 178.79 174.90	141.94 172.98 177.65 173.44	145.23 176.04 179.93 176.36	150.58 180.18 182.81 180.71	148.74 178.64 181.80 179.46	152.42 181.72 183.83 181.96	154.31 183.08 185.50 183.51	152.71 180.41 184.53 182.21	155.91 185.75 186.47 184.80
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79	135.08 165.62 170.33 168.23 164.78 <b>166.05</b>	133.61 164.42 169.00 167.33 163.59 <b>165.11</b>	136.56 166.83 171.66 169.14 165.96 <b>166.98</b>	143.58 174.51 178.79 174.90 172.84 174.70 175.02	141.94 172.98 177.65 173.44 171.55 173.78 174.14	145.23 176.04 179.93 176.36 174.12 175.62 175.90	150.58 180.18 182.81 180.71 178.07 <b>180.56</b>	148.74 178.64 181.80 179.46 176.94 <b>179.86</b>	152.42 181.72 183.83 181.96 179.19 <b>181.26</b>	154.31 183.08 185.50 183.51 180.85 <b>183.53</b>	152.71 180.41 184.53 182.21 180.01 <b>182.95</b>	155.91 185.75 186.47 184.80 181.69 <b>184.10</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79	135.08 165.62 170.33 168.23 164.78 166.05 166.65	133.61 164.42 169.00 167.33 163.59 165.11 165.66	136.56 166.83 171.66 169.14 165.96 166.98 167.64	143.58 174.51 178.79 174.90 172.84 174.70 175.02	141.94 172.98 177.65 173.44 171.55 173.78 174.14	145.23 176.04 179.93 176.36 174.12 175.62 175.90	150.58 180.18 182.81 180.71 178.07 180.56 180.73	148.74 178.64 181.80 179.46 176.94 179.86 179.97	152.42 181.72 183.83 181.96 179.19 181.26 181.49	154.31 183.08 185.50 183.51 180.85 183.53 183.58	152.71 180.41 184.53 182.21 180.01 182.95 183.01	155.91 185.75 186.47 184.80 181.69 184.10 184.15
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19	135.08 165.62 170.33 168.23 164.78 166.05 166.65	133.61 164.42 169.00 167.33 163.59 165.11 165.66	136.56 166.83 171.66 169.14 165.96 166.98 167.64	143.58 174.51 178.79 174.90 172.84 174.70 175.02	141.94 172.98 177.65 173.44 171.55 173.78 174.14	145.23 176.04 179.93 176.36 174.12 175.62 175.90	150.58 180.18 182.81 180.71 178.07 180.56 180.73	148.74 178.64 181.80 179.46 176.94 179.86 179.97	152.42 181.72 183.83 181.96 179.19 181.26 181.49	154.31 183.08 185.50 183.51 180.85 183.53 183.58	152.71 180.41 184.53 182.21 180.01 182.95 183.01	155.91 185.75 186.47 184.80 181.69 184.10 184.15
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19 Age 20 to 39	135.08 165.62 170.33 168.23 164.78 166.05 166.65	133.61 164.42 169.00 167.33 163.59 165.11 165.66	136.56 166.83 171.66 169.14 165.96 166.98 167.64	143.58 174.51 178.79 174.90 172.84 174.70 175.02	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03	145.23 176.04 179.93 176.36 174.12 175.62 175.90	150.58 180.18 182.81 180.71 178.07 180.56 180.73	148.74 178.64 181.80 179.46 176.94 179.86 179.97 146.99 180.23 184.51	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48	154.31 183.08 185.50 183.51 180.85 183.53 183.58	152.71 180.41 184.53 182.21 180.01 182.95 183.01	155.91 185.75 186.47 184.80 181.69 <b>184.10</b> <b>184.15</b> 155.17 187.97 190.79
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 40 to 59	135.08 165.62 170.33 168.23 164.78 166.05 166.65	133.61 164.42 169.00 167.33 163.59 165.11 165.66 132.56 171.72 177.39 172.66	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50	148.74 178.64 181.80 179.46 176.94 179.86 179.97 146.99 180.23 184.51 182.18	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38	155.91 185.75 186.47 184.80 181.69 <b>184.10</b> <b>184.15</b> 155.17 187.97 190.79 186.83
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79	135.08 165.62 170.33 168.23 164.78 166.05 166.65	133.61 164.42 169.00 167.33 163.59 <b>165.11</b> <b>165.66</b> 132.56 171.72 177.39 172.66 171.57	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92 174.19	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41 176.01	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 180.94	148.74 178.64 181.80 179.46 176.94 179.86 179.97 146.99 180.23 184.51 182.18 180.10	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75	155.91 185.75 186.47 184.80 181.69 184.10 184.15 155.17 187.97 190.79 186.83 184.58
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79	135.08 165.62 170.33 168.23 164.78 166.05 166.65	133.61 164.42 169.00 167.33 163.59 165.11 165.66 132.56 171.72 177.39 172.66	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50	148.74 178.64 181.80 179.46 176.94 179.86 179.97 146.99 180.23 184.51 182.18	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38	155.91 185.75 186.47 184.80 181.69 <b>184.10</b> <b>184.15</b> 155.17 187.97 190.79 186.83
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	135.08 165.62 170.33 168.23 164.78 166.05 166.65 134.86 173.46 178.71 174.29 172.28 174.51	133.61 164.42 169.00 167.33 163.59 165.11 165.66 132.56 171.72 177.39 172.66 171.57	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92 174.19	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41 176.01	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23 180.14	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 183.58	148.74 178.64 181.80 179.46 176.94 179.86 179.97 146.99 180.23 184.51 182.18 180.10	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79 184.16	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10 183.16	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75 185.00	155.91 185.75 186.47 184.80 181.69 184.10 184.15 155.17 187.97 190.79 186.83 184.58
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Page 6 to 79  Age 6 to 79  Page 6 to 79  Age 6 to 79  Females Age 6 to 11	135.08 165.62 170.33 168.23 164.78 166.05 166.65 134.86 173.46 178.71 174.29 172.88 174.51	133.61 164.42 169.00 167.33 163.59 165.11 165.66 171.72 177.39 172.66 171.57 173.54	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92 174.19 175.48	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12 179.73	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41 176.01 179.33	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23 180.14	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 180.94 183.58	148.74 178.64 181.80 179.46 179.86 179.97 146.99 180.23 184.51 182.18 180.10 183.00	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79 184.16	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10 185.68	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75 185.00	155.91 185.75 186.47 184.80 181.69 184.10 184.15 155.17 187.97 190.79 186.83 184.58 186.36
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 6 to 79	135.08 165.62 170.33 168.23 164.78 166.05 166.65 134.86 173.46 178.71 174.29 172.88 174.51	133.61 164.42 169.00 167.33 163.59 165.11 165.66 132.56 171.72 177.39 172.66 171.57 173.54	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92 174.19 175.48	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12 179.73	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41 176.01 179.33	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23 180.14	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 180.94 183.58	148.74 178.64 181.80 179.46 176.94 179.97 146.99 180.23 184.51 182.18 180.10 183.00	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79 184.16	154.31 183.08 185.50 183.51 180.55 183.53 183.58 152.81 186.03 187.69 185.10 183.16 185.68	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75 185.00	155.91 185.75 186.47 184.80 181.69 184.10 155.17 187.97 190.79 186.83 184.58 186.36
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	135.08 165.62 170.33 168.23 164.78 166.05 134.86 173.46 178.71 174.29 172.88 174.51	133.61 164.42 169.00 167.33 163.59 165.11 165.66 132.56 171.72 177.39 172.66 171.57 173.54	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92 174.19 175.48	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12 179.73	141.94 172.95 177.65 173.44 171.57 173.78 174.14 140.86 176.11 181.03 178.41 176.01 179.33	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23 180.14	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 183.50 183.58	148.74 178.64 181.80 179.46 179.94 179.86 179.97 146.99 180.23 184.51 182.18 180.10 183.00	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79 184.16	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10 183.16 185.68	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75 185.00	155.91 185.75 186.47 184.80 181.69 184.10 155.17 187.97 190.79 186.83 184.58 186.36
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Page 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Age 6 to 79  Females Age 20 to 39 Age 40 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	135.08 165.62 170.33 168.23 164.78 166.05 166.65 134.86 173.46 178.71 174.29 172.88 174.51	133.61 164.42 169.00 167.33 163.59 165.11 165.66 171.72 177.39 172.66 171.57 173.54	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 175.92 174.19 137.16 163.50 164.54 163.01	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12 179.73	141.94 172.98 177.65 173.44 171.55 173.78 174.14 140.86 176.11 181.03 178.41 176.01 179.33	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23 180.14	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 183.58 152.14 171.04 171.20 170.23	148.74 178.64 181.80 179.46 179.97 179.86 179.97 146.99 180.23 184.51 182.18 180.10 183.00	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79 184.16	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10 185.68	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75 185.00	155.91 185.75 186.47 184.80 181.69 184.10 184.15 155.17 187.97 190.79 186.83 184.58 186.36
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 11 Age 12 to 19 Age 20 to 39	135.08 165.62 170.33 168.23 164.78 166.05 134.86 173.46 178.71 174.29 172.88 174.51	133.61 164.42 169.00 167.33 163.59 165.11 165.66 132.56 171.72 177.39 172.66 171.57 173.54	136.56 166.83 171.66 169.14 165.96 166.98 167.64 137.16 175.21 180.04 175.92 174.19 175.48	143.58 174.51 178.79 174.90 172.84 174.70 175.02 142.50 178.14 181.89 179.53 177.12 179.73	141.94 172.95 177.65 173.44 171.57 173.78 174.14 140.86 176.11 181.03 178.41 176.01 179.33	145.23 176.04 179.93 176.36 174.12 175.62 175.90 144.14 180.16 182.74 180.66 178.23 180.14	150.58 180.18 182.81 180.71 178.07 180.56 180.73 150.06 182.85 185.50 183.50 183.50 183.58	148.74 178.64 181.80 179.46 179.94 179.86 179.97 146.99 180.23 184.51 182.18 180.10 183.00	152.42 181.72 183.83 181.96 179.19 181.26 181.49 153.14 185.47 186.48 184.82 181.79 184.16	154.31 183.08 185.50 183.51 180.85 183.53 183.58 152.81 186.03 187.69 185.10 183.16 185.68	152.71 180.41 184.53 182.21 180.01 182.95 183.01 150.45 184.10 184.60 183.38 181.75 185.00	155.91 185.75 186.47 184.80 181.69 184.10 155.17 187.97 190.79 186.83 184.58 186.36

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 23 Measured weight, by age and sex, household population, Canada, 2009 to 2011

						Measured	l weight					
	Me	ean		5th pe	ercentile		10th	percentile		25th pe	ercentile	
	Estimate	Confid		Estimate	Confid inter		Estimat		idence erval	Estimate	Confid inter	
		From	То		From	To		From	То		From	To
						kilogr	ams					
Both sexes	<u> </u>											
Age 3 to 5	18.7	18.2	19.2	13.9	13.1	14.7	14.	4 14.0	14.8	16.1	15.5	16.7
Age 6 to 11	33.4	32.5	34.2	20.7	19.6	21.8	21.		22.8	25.5	24.7	26.4
Age 12 to 19	62.7	60.3	65.2	38.4	32.4	44.4	43.		46.3	51.2	48.9	53.4
Age 20 to 39	75.6	72.5	78.7	51.1	49.5	52.6	54.		56.4	61.6	59.0	64.3
Age 40 to 59	79.7	77.7	81.7	54.2	51.4	57.0	58.		60.7	64.8	61.9	67.7
Age 60 to 79	78.0	76.0	80.1	51.6	48.7	54.4	57.	2 54.7	59.6	66.5	63.9	69.2
Age 3 to 79	71.1	69.4	72.8	25.5	24.7	26.4	41.	0 39.5	42.6	58.2	56.8	59.6
Age 6 to 79	73.0	71.2	74.7	35.2	33.6	36.9	47.	7 45.6	49.8	59.8	58.4	61.2
Males												
Age 6 to 11	33.9	32.9	34.9	21.1	19.8	22.3	22.	9 20.9	24.8	25.8	24.6	27.0
Age 12 to 19	66.2	63.0	69.4	32.6	26.1	39.1	40.	9 32.6	49.3	55.3	50.4	60.3
Age 20 to 39	82.5	79.1	85.9	60.0	57.6	62.4	63.		66.7	70.4	68.6	72.2
Age 40 to 59	85.9	83.3	88.6	61.2	57.9	64.5	64.		69.6	75.0	72.6	77.5
Age 60 to 79	85.7	82.5	89.0	61.8	56.8	66.7	67.			74.7	71.7	77.7
Age 6 to 79	78.8	76.8	80.8	33.7	31.7	35.6	52.	6 49.2	56.1	67.9	65.6	70.2
Females												
Age 6 to 11	32.8	31.7	34.0	19.9	18.6	21.3	21.		22.2	24.9	23.1	26.7
Age 12 to 19	59.1	56.0	62.3	41.2	38.0	44.3	43.	3 41.9	44.7	49.3	46.8	51.8
Age 20 to 39	68.7	65.0	72.4	48.8	44.9	52.7	51.	2 49.6	52.8	56.5	54.5	58.5
Age 40 to 59	73.4	70.7	76.1	50.8	46.9	54.6	54.		57.3	60.0	58.1	61.9
Age 60 to 79	71.0	68.7	73.4	48.4	45.1	51.6	52.		55.1	60.2	57.7	62.7
Age 6 to 79	67.2	65.3	69.0	37.0	35.4	38.5	44.	9 41.8	48.0	55.8	54.4	57.3
						Measured	weight					
	50th per	centile		75th perc	entile		90th pe	rcentile		95th pe	rcentile	
											00111110	
	Estimate	Confide interv		Estimate	Confidence interval	ce	Estimate C	onfidence	interval	Estimate Co		interval
	Estimate			_		To	Estimate C	onfidence From	interval To			interval To
	Estimate	interv	al	_	interval		_				onfidence	
Both sexes	Estimate	interv	al	_	interval	То	_				onfidence	
Both sexes Age 3 to 5	Estimate -	interv	al	_	interval From	То	_				onfidence	
Age 3 to 5	18.1	From 17.5	To 18.7	20.4	interval From	To kilogra 21.4	ams 23.4	From	To 24.1	Estimate Co	From 23.0	To 26.0
Age 3 to 5 Age 6 to 11	18.1 31.2	From 17.5 29.8	To  18.7 32.6	20.4 39.3	From  19.4 37.8	To kilogra 21.4 40.8	ams 23.4 46.2	From 22.8 44.0	To 24.1 48.4	Estimate Co	From  23.0 49.2	26.0 58.1
Age 3 to 5 Age 6 to 11 Age 12 to 19	18.1 31.2 60.2	interv From 17.5 29.8 58.3	18.7 32.6 62.0	20.4 39.3 71.6	interval From 19.4 37.8 67.8	To kilogra 21.4 40.8 75.5	23.4 46.2 85.3	22.8 44.0 79.3	24.1 48.4 91.2	24.5 53.6 95.9	23.0 49.2 88.6	26.0 58.1 103.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	18.1 31.2 60.2 72.9	17.5 29.8 58.3 70.3	18.7 32.6 62.0 75.5	20.4 39.3 71.6 86.9	interval From 19.4 2 37.8 4 67.8 5 83.0 9	To kilogra 21.4 40.8 75.5 90.7	23.4 46.2 85.3 101.6	22.8 44.0 79.3 93.3	24.1 48.4 91.2 110.0	24.5 53.6 95.9 110.7	23.0 49.2 88.6 102.9	26.0 58.1 103.1 118.4
Age 3 to 5 Age 6 to 11 Age 12 to 19	18.1 31.2 60.2	17.5 29.8 58.3 70.3 75.3	18.7 32.6 62.0	20.4 39.3 71.6	19.4 37.8 67.8 83.0 90.0	To kilogra 21.4 40.8 75.5 90.7 93.8	23.4 46.2 85.3 101.6 104.1	22.8 44.0 79.3 93.3 100.7	24.1 48.4 91.2 110.0 107.6	24.5 53.6 95.9 110.7 111.0	23.0 49.2 88.6	26.0 58.1 103.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	18.1 31.2 60.2 72.9	17.5 29.8 58.3 70.3	18.7 32.6 62.0 75.5	20.4 39.3 71.6 86.9	19.4 37.8 67.8 83.0 90.0	To kilogra 21.4 40.8 75.5 90.7	23.4 46.2 85.3 101.6	22.8 44.0 79.3 93.3	24.1 48.4 91.2 110.0	24.5 53.6 95.9 110.7	23.0 49.2 88.6 102.9	26.0 58.1 103.1 118.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	18.1 31.2 60.2 72.9 77.7 76.2	17.5 29.8 58.3 70.3 75.3 74.2	18.7 32.6 62.0 75.5 80.1 78.1	20.4 39.3 71.6 86.9 91.9 87.6	19.4 3 37.8 4 67.8 3 90.0 9 84.1	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0	23.4 46.2 85.3 101.6 104.1 102.0	22.8 44.0 79.3 93.3 100.7 98.1	24.1 48.4 91.2 110.0 107.6 105.9	24.5 53.6 95.9 110.7 111.0 108.8	23.0 49.2 88.6 102.9 105.0 103.1	26.0 58.1 103.1 118.4 117.0 114.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	18.1 31.2 60.2 72.9 77.7	17.5 29.8 58.3 70.3 75.3	18.7 32.6 62.0 75.5 80.1	20.4 39.3 71.6 86.9 91.9	19.4 2 37.8 4 67.8 38.0 9 90.0 84.1 9 82.8	To kilogra 21.4 40.8 75.5 90.7 93.8	23.4 46.2 85.3 101.6 104.1	22.8 44.0 79.3 93.3 100.7	24.1 48.4 91.2 110.0 107.6	24.5 53.6 95.9 110.7 111.0	23.0 49.2 88.6 102.9 105.0	26.0 58.1 103.1 118.4 117.0
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79	18.1 31.2 60.2 72.9 77.7 76.2 71.2	17.5 29.8 58.3 70.3 75.3 74.2 <b>69.3</b>	18.7 32.6 62.0 75.5 80.1 78.1 73.0	20.4 39.3 71.6 86.9 91.9 87.6 <b>85.6</b>	19.4 2 37.8 4 67.8 38.0 9 90.0 84.1 9 82.8	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4	23.4 46.2 85.3 101.6 104.1 102.0 99.3	22.8 44.0 79.3 93.3 100.7 98.1 <b>95.0</b>	24.1 48.4 91.2 110.0 107.6 105.9 <b>103.6</b>	24.5 53.6 95.9 110.7 111.0 108.8 108.4	23.0 49.2 88.6 102.9 103.1 103.9	26.0 58.1 103.1 118.4 117.0 114.4 <b>113.0</b>
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79	18.1 31.2 60.2 72.9 77.7 76.2 71.2	17.5 29.8 58.3 70.3 74.2 69.3 70.2	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1	20.4 39.3 71.6 86.9 91.9 87.6 <b>85.6</b> 86.4	19.4 37.8 67.8 583.0 99.0 884.1 982.8 83.7	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1	26.0 58.1 103.1 118.4 117.0 114.4 113.0
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79 Males Age 6 to 11	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1	17.5 29.8 58.3 70.3 74.2 69.3 70.2	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4	19.4 2 37.8 667.8 583.0 90.0 884.1 882.8 883.7 4 37.6	To kilogra 21.4 40.8 75.5 90.7 93.8 991.0 98.4 42.6	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1	22.8 44.0 79.3 93.3 100.7 98.1 95.8 41.9	To  24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1	26.0 58.1 103.1 118.4 117.0 114.4 113.0 113.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1	17.5 29.8 58.3 70.3 75.3 74.2 69.3 70.2	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4	19.4 2 37.8 6 67.8 883.0 984.1 882.8 883.7 8	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8	24.1 48.4 91.2 110.0 107.6 103.6 104.4	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1	26.0 58.1 103.1 118.4 117.0 113.4 60.3 115.5
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9	17.5 29.8 58.3 70.3 74.2 69.3 70.2	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1	20.4 39.3 71.6 86.9 91.9 87.6 <b>85.6</b> <b>85.6</b> <b>86.4</b>	interval From  19.4 37.8 67.8 83.0 90.0 884.1 882.8 883.7 871.6 871.6 871.6 871.4 87	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8 41.9 83.9 93.3	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.3 112.9	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 105.8	26.0 58.1 103.1 118.4 117.0 114.4 113.0 113.4
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0	17.5 29.8 58.3 70.3 75.3 74.2 29.9 61.1 76.4 80.3	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1 32.8 66.1 85.4 87.6	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0	19.4 2 37.8 67.8 3.0 9 90.0 84.1 82.8 83.7 4 37.6 67.6 87.4 91.6 99.6	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 52.2 95.4 88.4	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5	22.8 44.0 79.3 93.3 100.7 95.0 95.8 41.9 83.9 93.3 100.1	24.1 48.4 91.2 110.6 105.9 103.6 104.4 50.7 102.3 112.9	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7 55.7 105.0 115.1 111.0	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 105.8	26.0 58.1 103.1 118.4 117.0 113.4 60.3 115.5 124.4 119.6
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0	17.5 29.8 58.3 70.3 74.2 69.3 70.2 29.9 61.1 76.4 80.3 79.6	18.7 32.6 62.0 75.5 80.1 78.1 32.8 66.1 85.4 87.6 86.5	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0	interval From  19.4 : 37.8 : 67.8 : 83.0 : 990.0 : 84.1 : 82.8 : 83.7 : 87.6 : 71.6 : 87.4 : 91.1 : 6 : 91.1	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 32.2 95.4 98.8	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5	22.8 44.0 79.3 30.7 98.1 95.0 95.8 41.9 83.9 93.3 100.1 102.4	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.3 112.9 111.7	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 105.8 102.8	26.0 58.1 103.1 118.4 117.0 114.4 113.0 113.4 60.3 115.5 124.4 119.6 122.0
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0	17.5 29.8 58.3 70.3 75.3 74.2 29.9 61.1 76.4 80.3	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1 32.8 66.1 85.4 87.6	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0	interval From  19.4 : 37.8 : 67.8 : 83.0 : 990.0 : 84.1 : 82.8 : 83.7 : 87.6 : 71.6 : 87.4 : 91.1 : 6 : 91.1	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 52.2 95.4 88.4	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5	22.8 44.0 79.3 93.3 100.7 95.0 95.8 41.9 83.9 93.3 100.1	24.1 48.4 91.2 110.6 105.9 103.6 104.4 50.7 102.3 112.9	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7 55.7 105.0 115.1 111.0	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 105.8	26.0 58.1 103.1 118.4 117.0 113.4 60.3 115.5 124.4 119.6
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0 83.0 79.5	17.5 29.8 58.3 70.3 75.3 74.2 69.3 70.2 29.9 61.1 76.4 80.3 79.6 77.1	18.7 32.6 62.0 75.5 80.1 73.0 74.1 32.8 66.1 85.4 87.6 86.5 82.0	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0 92.0	interval From  19.4 37.8 67.8 83.0 90.0 84.1 882.8 83.7 471.6 871.6 91.6 991.1 889.5	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 32.2 25.4 98.8 94.6	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5 107.1 104.0	22.8 44.0 79.3 93.3 100.7 98.1 95.8 41.9 83.9 93.3 100.1 102.4 100.0	24.1 48.4 91.2 110.0 107.6 105.9 104.4 50.7 102.3 112.9 111.7 108.1	24.5 53.6 95.9 110.7 111.0 108.4 108.7 55.7 105.0 115.1 111.0 115.2 111.3	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 102.5 108.3 105.6	26.0 58.1 103.1 118.4 117.0 113.4 113.0 60.3 115.5 124.4 119.6 122.0 117.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Males Age 6 to 79  France 6 to 79 Age 6 to 79 Age 6 to 79 Age 6 to 79 Age 60 to 79 Age 60 to 79 Age 6 to 79  Fremales Age 6 to 11	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0 83.0 79.5	17.5 29.8 58.3 70.3 74.2 69.3 70.2 29.9 61.1 76.4 80.3 79.6 77.1	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1 32.8 66.1 85.4 87.6 86.5 82.0	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0 95.0 92.0	interval From  19.4 2 37.8 67.8 83.0 990.0 84.1 982.8 1883.7 187.6 91.6 991.1 989.5 987.4 97.6 97.1 97.6 97.7 198.5 97.7	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 99.1 42.6 32.2 95.4 98.8 94.6	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.5 107.1 104.0	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8 41.9 83.9 93.3 100.1 102.4 100.0	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.3 111.0 111.7 108.1	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7 55.7 105.0 115.1 111.0 115.2 111.3	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 105.8 102.5 108.3 105.6	26.0 58.1 103.1 118.4 117.0 114.4 113.0 113.4 60.3 115.5 124.4 119.6 122.0 117.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 6 to 79	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0 83.0 79.5	17.5 29.8 58.3 70.3 75.3 74.2 29.9 61.1 76.4 80.3 79.6 77.1	18.7 32.6 62.0 75.5 80.1 73.0 74.1 32.8 66.1 85.4 87.6 82.0 32.8 59.5	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0 92.0	interval From  19.4 37.8 67.8 90.0 98.1 98.1 98.2 88.3 71.6 99.1 99.1 99.1 99.1 99.1 99.1 99.1 9	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 32.2 95.4 98.8 94.6	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5 107.1 104.0	22.8 44.0 79.3 33.3 100.7 98.1 95.0 95.8 41.9 83.9 93.3 100.1 102.4 100.0	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.3 112.9 1111.7 108.1	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7  55.7 105.0 115.1 111.0 115.2 111.3	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 102.5 102.5 108.3 105.6	26.0 58.1 103.1 118.4 117.0 114.4 113.0 115.5 124.4 119.6 122.0 117.1
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 17 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0 83.0 79.5	17.5 29.8 58.3 70.3 75.3 74.2 69.3 70.2 29.9 61.1 76.4 80.3 79.6 77.1 28.9 54.3 59.8	18.7 32.6 62.0 75.5 80.1 73.0 74.1 32.8 66.1 85.4 87.6 86.5 82.0	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0 92.0 38.6 65.1 76.1	interval From  19.4 37.8 67.8 83.0 90.0 84.1 98.2.8 83.7 4 91.6 991.1 98.5 97.1 66.0 77.5 67.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 9	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 82.2 95.4 98.8 94.6 40.1 79.8	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5 107.1 104.0	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8 41.9 83.9 93.3 100.1 102.4 100.0	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.3 111.9 111.7 108.1 48.2 83.2 106.3	24.5 53.6 95.9 110.7 111.0 108.4 108.7 55.7 105.0 115.1 111.0 115.2 111.3	23.0 49.2 88.6 105.0 103.1 103.9 104.1 51.1 94.5 105.8 102.5 108.3 105.6 45.7 77.7 97.0	26.0 58.1 103.1 118.4 117.0 113.4 60.3 115.5 124.4 119.6 122.0 117.1 55.9 95.7 117.2
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 20 to 39 Age 20 to 39 Age 40 to 59	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0 83.0 79.5	17.5 29.8 58.3 70.3 74.2 69.3 70.2 29.9 61.1 76.4 80.3 79.6 77.1 28.9 54.3 59.8 64.2	18.7 32.6 62.0 75.5 80.1 78.1 73.0 74.1 32.8 66.1 85.4 87.6 86.5 82.0 32.8 59.5 68.5 72.6	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0 95.0 92.0	interval From  19.4 2 37.8 67.8 83.0 990.0 84.1 982.8 1883.7 1991.6 991.1 989.5 987.4 960.0 971.6 971.7 1995.5 199	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 99.1 42.6 32.2 95.4 98.4 98.8 40.1 70.1 70.1 70.8	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5 107.1 104.0	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8 41.9 93.3 100.1 102.4 100.0 43.7 71.3 82.6 91.9	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.9 111.0 111.7 108.1 48.2 83.2 106.3 104.1	24.5 53.6 95.9 110.7 111.0 108.8 108.4 108.7  55.7 105.0 115.1 111.0 115.2 111.3	23.0 49.2 88.6 102.9 105.0 103.1 103.9 104.1 51.1 94.5 105.8 102.5 108.3 105.6 45.7 77.7 97.0 99.3	26.0 58.1 103.1 118.4 113.0 113.4 119.6 122.0 117.1 55.9 95.7 117.2 120.2
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	18.1 31.2 60.2 72.9 77.7 76.2 71.2 72.1 31.3 63.6 80.9 84.0 83.0 79.5	17.5 29.8 58.3 70.3 75.3 74.2 69.3 70.2 29.9 61.1 76.4 80.3 79.6 77.1 28.9 54.3 59.8	18.7 32.6 62.0 75.5 80.1 73.0 74.1 32.8 66.1 85.4 87.6 86.5 82.0	20.4 39.3 71.6 86.9 91.9 87.6 85.6 86.4 40.1 76.9 91.4 95.0 92.0 38.6 65.1 76.1	interval From  19.4 2 37.8 67.8 83.0 990.0 84.1 982.8 1883.7 1991.6 991.1 989.5 987.4 960.0 971.6 971.7 1995.5 199	To kilogra 21.4 40.8 75.5 90.7 93.8 91.0 88.4 89.1 42.6 82.2 95.4 98.8 94.6 40.1 79.8	23.4 46.2 85.3 101.6 104.1 102.0 99.3 100.1 46.3 93.1 103.1 105.5 107.1 104.0	22.8 44.0 79.3 93.3 100.7 98.1 95.0 95.8 41.9 83.9 93.3 100.1 102.4 100.0	24.1 48.4 91.2 110.0 107.6 105.9 103.6 104.4 50.7 102.3 111.9 111.7 108.1 48.2 83.2 106.3	24.5 53.6 95.9 110.7 111.0 108.4 108.7 55.7 105.0 115.1 111.0 115.2 111.3	23.0 49.2 88.6 105.0 103.1 103.9 104.1 51.1 94.5 105.8 102.5 108.3 105.6 45.7 77.7 97.0	26.0 58.1 103.1 118.4 117.0 113.4 60.3 115.5 124.4 119.6 122.0 117.1 55.9 95.7 117.2

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 24
Measured body mass index of the household population, by age and sex, Canada, 2009 to 2011

					ivieas	urea boay	mass index					
	N	lean		5th p	ercentile		10th p	ercentile		25th p	ercentile	
	Estimate	Confid- inter		Estimate	Confid- inter		Estimate	Confid- inter		Estimate	Confid- inter	
	•	From	То	•	From	То	•	From	То	•	From	То
					kilogra	ams per m	etre squared					
Both sexes												
Age 3 to 5	16.37	16.11	16.62	14.08	13.76	14.39	14.42	14.14	14.70	15.21	15.02	15.40
Age 6 to 11	17.98	17.70	18.25	14.00	13.67	14.33	14.56	14.05	15.08	15.59	15.21	15.98
Age 12 to 19	22.43	21.78	23.09	16.21	15.32	17.10	17.19	16.47	17.91	19.11	18.73	19.50
Age 20 to 39	25.87	25.09	26.65	19.03	18.62	19.45	20.00	19.00	21.01	22.08	21.39	22.77
Age 40 to 59	28.00	27.37	28.63	20.80	20.24	21.36	21.88	21.09	22.68	23.95	23.45	24.45
Age 60 to 79	28.44	27.76	29.12	20.56	19.76	21.36	22.36	21.57	23.14	24.65	23.92	25.39
Age 3 to 79	25.77	25.29	26.24	16.19	15.95	16.42	18.10	17.85	18.35	21.59	21.19	21.99
Age 6 to 79	26.10	25.61	26.59	17.21	16.94	17.47	19.05	18.84	19.27	22.07	21.59	22.55
Males												
Age 6 to 11	18.34	17.94	18.74	14.12	13.45	14.78	14.84	14.13	15.54	15.79	15.41	16.16
Age 12 to 19	22.38	21.55	23.21	15.35	14.06	16.64	16.78	15.55	18.02	19.10	18.57	19.63
Age 20 to 39	26.11	25.09	27.13	19.41	18.45	20.37	20.90	19.41	22.38	22.68	21.84	23.52
Age 40 to 59	28.08	27.32	28.84	21.82	20.62	23.02	22.83	21.84	23.82	25.00	24.24	25.76
Age 60 to 79	28.70	27.79	29.62	21.72	20.40	23.05	23.25	22.34	24.17	25.39	24.22	26.56
Age 6 to 79	26.22	25.63	26.81	17.14	16.70	17.59	19.33	18.94	19.73	22.68	22.10	23.25
Females	47.50	47.00	47.05	40.07	40.07	44.00	44.40	44.07	44.70	45.00	44.07	45.70
Age 6 to 11	17.59	17.33	17.85	13.87	13.37	14.38	14.42	14.07	14.76	15.36	14.97	15.76
Age 12 to 19	22.49	21.58	23.40	16.59	16.06	17.11	17.55	16.75	18.36	19.15	18.53	19.78
Age 20 to 39	25.62	24.68	26.56	18.83	18.44	19.22	19.27	18.26	20.28	21.52	20.96	22.08
Age 40 to 59	27.92	26.97	28.87	19.94	18.52	21.37	21.42	20.58	22.25	23.44	22.88	24.01
Age 60 to 79	28.19	27.32	29.07	19.74	18.54	20.94	21.63	20.77	22.49	24.30	23.77	24.83
Age 6 to 79	25.98	25.43	26.53	17.23	16.98	17.49	18.86	18.66	19.05	21.55	21.13	21.96
					Maga	بالممط لممطير						
						urea boay	mass index					
		percentile			ercentile		90th p	ercentile			ercentile	
	50th p	oercentile Confid- inter		75th p		ence		ercentile Confidinter		95th p	ercentile Confidinter	
		Confid			ercentile Confid	ence	90th p	Confid			Confid	
		Confid- inter	val		Confidentile Confidentinter From	ence val	90th p	Confid- inter	/al		Confid- inter	val
Both sexes		Confid- inter	val		Confidentile Confidentinter From	ence val	90th p Estimate	Confid- inter	/al		Confid- inter	val
Age 3 to 5	Estimate	Confidenters From	To 16.22	Estimate -	Confidential interest in the results of the results	To To T7.52	90th p Estimate etre squared	Confidenter From  17.94	To To 19.10	Estimate -	Confid inter	To 20.81
Age 3 to 5 Age 6 to 11	Estimate	Confidinter From  15.74 16.81	To  16.22 17.58	17.25 19.59	Confidenter From kilogra 16.99 19.06	To  To  17.52 20.11	90th p Estimate  etre squared  18.52 22.82	From  17.94 21.94	To 19.10 23.71	19.56 24.46	Confid inter	To 20.81 26.09
Age 3 to 5 Age 6 to 11 Age 12 to 19	15.98 17.20 21.43	Confid- inter From 15.74 16.81 20.93	To  16.22 17.58 21.92	17.25 19.59 24.39	From kilogra 16.99 19.06 23.30	To ams per m  17.52 20.11 25.49	90th p Estimate etre squared  18.52 22.82 29.07	From  17.94 21.94 27.10	To  19.10 23.71 31.03	19.56 24.46 32.53	Confid inter From  18.30 22.82 30.82	20.81 26.09 34.25
Age 3 to 5 Age 6 to 11	15.98 17.20 21.43 24.85	Confidenter From  15.74 16.81 20.93 23.94	16.22 17.58 21.92 25.77	17.25 19.59 24.39 28.61	From kilogra  16.99 19.06 23.30 27.50	To  To  17.52 20.11 25.49 29.71	90th p Estimate etre squared  18.52 22.82 29.07 33.28	From  17.94 21.94 27.10 30.85	19.10 23.71 31.03 35.71	19.56 24.46 32.53 36.50	Confidinter From  18.30 22.82 30.82 33.78	20.81 26.09 34.25 39.22
Age 3 to 5 Age 6 to 11 Age 12 to 19	15.98 17.20 21.43	Confid- inter From 15.74 16.81 20.93	To  16.22 17.58 21.92	17.25 19.59 24.39	From kilogra 16.99 19.06 23.30	To ams per m  17.52 20.11 25.49	90th p Estimate etre squared  18.52 22.82 29.07	From  17.94 21.94 27.10	To  19.10 23.71 31.03	19.56 24.46 32.53	Confid inter From  18.30 22.82 30.82	20.81 26.09 34.25
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39	15.98 17.20 21.43 24.85	Confidenter From  15.74 16.81 20.93 23.94	16.22 17.58 21.92 25.77	17.25 19.59 24.39 28.61	From kilogra  16.99 19.06 23.30 27.50	To  To  17.52 20.11 25.49 29.71	90th p Estimate etre squared  18.52 22.82 29.07 33.28	From  17.94 21.94 27.10 30.85	19.10 23.71 31.03 35.71 36.81 36.67	19.56 24.46 32.53 36.50 38.82 38.65	Confidinter From  18.30 22.82 30.82 33.78	20.81 26.09 34.25 39.22
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	15.98 17.20 21.43 24.85 27.24	Confidenter From  15.74 16.81 20.93 23.94 26.46	To  16.22 17.58 21.92 25.77 28.02	17.25 19.59 24.39 28.61 30.64	From kilogra 16.99 19.06 23.30 27.50 29.72	To To Tr. 52 20.11 25.49 29.71 31.57	90th p Estimate  etre squared  18.52 22.82 29.07 33.28 35.50	Confidenter From 17.94 21.94 27.10 30.85 34.18	19.10 23.71 31.03 35.71 36.81	19.56 24.46 32.53 36.50 38.82	Confidinter From  18.30 22.82 30.82 33.78 37.07	20.81 26.09 34.25 39.22 40.57
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	15.98 17.20 21.43 24.85 27.24 27.70	Confid inter- From 15.74 16.81 20.93 23.94 26.46 27.04	To  16.22 17.58 21.92 25.77 28.02 28.36	17.25 19.59 24.39 28.61 30.64 31.46	Confident	To  ams per m  17.52 20.11 25.49 29.71 31.57 32.04	90th p Estimate  etre squared  18.52 22.82 29.07 33.28 35.50 35.14	17.94 21.94 27.10 30.85 34.18 33.61	19.10 23.71 31.03 35.71 36.81 36.67	19.56 24.46 32.53 36.50 38.82 38.65	18.30 22.82 30.82 33.78 37.07 35.52	20.81 26.09 34.25 39.22 40.57 41.77
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40	15.74 16.81 20.93 23.94 26.46 27.04 24.53 24.78	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39	Percentile Confident   From kilogra   16.99   19.06   23.30   27.50   29.72   30.88   28.16   28.51	17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26	90th p Estimate  18.52 22.82 29.07 33.28 35.50 35.14 33.59 33.75	17.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38	19.10 23.71 31.03 35.71 36.81 36.67 34.86 35.12	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10	18.30 22.82 33.78 37.07 35.52 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40	15.74 16.81 20.93 23.94 26.46 27.04 24.78	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39	Percentile  Confidente From  kilogra  16.99 19.06 23.30 27.50 29.50 29.50 28.16 28.51	To  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26	90th p Estimate	7.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38	19.10 23.71 31.03 35.71 36.81 36.67 34.86 35.12	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10	18.30 22.82 30.82 33.78 37.07 35.52 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40	Confident	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39	recentile Confidente From kilogra 16.99 19.06 23.30 27.50 29.72 30.88 28.16 28.51	To ams per m  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26	90th p Estimate  etre squared  18.52 22.82 29.07 33.28 35.50 35.14 33.59 33.75  23.51 28.84	77.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38	19.10 23.71 31.03 35.71 36.81 36.67 34.86 35.12	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10	18.30 22.82 30.82 33.78 37.07 35.52 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40	15.74 16.81 20.93 23.94 26.46 27.04 24.78 16.84 20.71 24.42	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39	Confidente	17.52 20.11 25.49 29.71 31.57 32.04 29.73 30.26 20.94 26.02 30.08	90th p Estimate	Trom  17.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38	19.10 23.71 31.03 35.71 36.81 36.67 34.86 35.12 24.99 31.80 34.82	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17	18.30 22.82 30.82 33.78 35.52 35.56 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 38.86
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71	15.74 16.81 20.93 23.94 26.46 27.04 24.53 24.78	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64	recentile  Confidente From  kilogra  16.99 19.06 23.30 27.50 29.70 29.72 30.88 28.16 28.51  18.81 23.11 27.52 29.61	To  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26  20.94 26.02 30.08 31.67	90th p Estimate	17.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38	19.10 23.71 31.03 35.71 36.67 34.86 35.12 24.99 31.80 34.82 36.21	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17 35.78 36.36	18.30 22.82 30.82 33.78 37.07 35.52 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 38.86 38.42
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71 28.08	15.74 16.81 20.93 23.94 26.46 27.04 24.53 24.78 16.84 20.71 24.42 27.04 27.15	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03 17.71 21.74 26.54 28.38 29.02	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64 31.58	recentile Confidente From kilogra 16.99 19.06 23.30 27.50 29.72 30.88 28.16 28.51 18.81 23.11 27.52 29.61 30.58	To ams per m  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26  20.94 26.02 30.08 31.67 32.58	90th p Estimate  etre squared  18.52 22.82 29.07 33.28 35.50 35.14 33.59 33.75  23.51 28.84 31.87 33.75 34.87	77.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38 22.04 25.88 28.93 31.28 33.18	19.10 23.71 31.03 35.71 36.81 36.81 34.86 35.12 24.99 31.80 34.82 36.21 36.55	19.56 24.46 32.53 36.50 38.82 38.65 37.10 25.44 33.17 35.78 36.36	18.30 22.82 30.82 33.78 37.07 35.56 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 28.66 35.22 38.86 38.42 39.98
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Age 6 to 79	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71	15.74 16.81 20.93 23.94 26.46 27.04 24.53 24.78	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64	recentile  Confidente From  kilogra  16.99 19.06 23.30 27.50 29.70 29.72 30.88 28.16 28.51  18.81 23.11 27.52 29.61	To  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26  20.94 26.02 30.08 31.67	90th p Estimate	17.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38	19.10 23.71 31.03 35.71 36.67 34.86 35.12 24.99 31.80 34.82 36.21	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17 35.78 36.36	18.30 22.82 30.82 33.78 37.07 35.52 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 38.86 38.42
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 60 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71 28.08	15.74 16.81 20.93 23.94 26.46 27.04 24.53 24.78 16.84 20.71 24.42 27.04 27.15	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03 17.71 21.74 26.54 28.38 29.02	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64 31.58	recentile Confidente From kilogra 16.99 19.06 23.30 27.50 29.72 30.88 28.16 28.51 18.81 23.11 27.52 29.61 30.58	To ams per m  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26  20.94 26.02 30.08 31.67 32.58	90th p Estimate  etre squared  18.52 22.82 29.07 33.28 35.50 35.14 33.59 33.75  23.51 28.84 31.87 33.75 34.87	77.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38 22.04 25.88 28.93 31.28 33.18	19.10 23.71 31.03 35.71 36.81 36.81 34.86 35.12 24.99 31.80 34.82 36.21 36.55	19.56 24.46 32.53 36.50 38.82 38.65 37.10 25.44 33.17 35.78 36.36	18.30 22.82 30.82 33.78 37.07 35.56 35.76 35.86	20.81 26.09 34.25 39.22 40.57 41.77 38.16 28.66 35.22 38.86 38.42 39.98
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Page 6 to 79  Age 6 to 79  Age 6 to 79  Freales Age 6 to 79  Fremales Age 6 to 11	15.98 17.20 21.43 24.85 27.70 25.16 25.40 17.28 21.23 25.48 27.71 28.08 25.99	15.74 16.81 20.93 23.94 24.53 24.78 16.84 20.71 24.42 27.15 25.48	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03 17.71 21.74 26.54 28.38 29.02 26.50	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64 31.58 29.68	Confidente	17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26 20.94 26.02 30.08 31.67 32.58 30.63	90th p Estimate  18.52 22.82 29.07 33.28 35.50 35.14 33.59 33.75 23.51 28.84 31.87 33.75 34.87	Trom  17.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38  22.04 25.88 28.93 31.28 33.18 31.60	19.10 23.71 31.03 35.71 36.81 36.87 34.86 35.12 24.99 31.80 34.82 36.21 36.25 34.62	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17 35.78 36.36 37.40 35.82	Tender 18.30 22.82 30.82 33.70 35.56 35.86 22.22 31.12 34.31 34.31 34.32	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 39.86 38.42 39.98 37.33
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Females Age 6 to 11 Age 12 to 19	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71 28.08 25.99	15.74 16.81 20.93 23.94 26.46 27.04 24.53 24.78 16.84 20.71 24.72 27.04 27.15 25.48	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03 17.71 21.74 28.38 29.02 26.50	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64 31.58 29.68	Percentile Confidente From kilogra 16.99 19.06 23.30 27.50 29.72 30.88 28.16 28.51 18.81 23.11 23.11 23.15 29.61 30.58 28.73	To  17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26  20.94 26.02 30.08 31.67 32.58 30.63	90th p Estimate	17.94 21.94 27.10 30.85 34.18 33.61 32.32 32.38 22.04 25.89 33.18 31.60	19.10 23.71 31.03 35.71 36.81 36.67 34.86 35.12 24.99 31.80 34.82 36.21 36.55 34.62	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17 35.78 36.36 37.40 35.82	18.30 22.82 30.82 33.78 37.07 35.52 35.76 35.86 22.22 31.12 32.71 34.81 34.32	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 39.98 37.33
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Males Age 6 to 17 Age 6 to 79  Page 6 to 79  Age 6 to 79  Females Age 6 to 11	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71 28.08 25.99	Confident of the control of the cont	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03 17.71 21.74 26.54 28.38 29.02 26.50	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64 31.58 29.68	recentile Confidente From kilogra 16.99 19.06 23.30 27.50 29.72 30.88 28.16 28.51 18.81 23.11 27.52 29.61 30.58 28.73	17.52 20.11 25.49 29.71 31.57 32.04 29.73 30.26 20.94 26.02 30.08 31.67 32.58 30.63 19.53 25.53 29.52	90th p Estimate	Tr.94 21.94 27.10 30.85 30.418 33.61 32.32 32.38 22.04 25.88 33.1.28 33.160 20.49 26.43 30.91	19.10 23.71 31.03 35.71 36.81 36.87 34.86 35.12 24.99 31.80 34.82 36.21 36.55 34.62	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17 35.78 36.36 37.40 35.82	18.30 22.82 30.82 33.78 37.07 35.52 35.76 35.86 22.22 31.12 32.71 34.31 34.31 34.32	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 38.86 35.22 39.98 37.33
Age 3 to 5 Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79 Age 3 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females Age 6 to 17 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79	15.98 17.20 21.43 24.85 27.24 27.70 25.16 25.40 17.28 21.23 25.48 27.71 28.08 25.99	15.74 16.81 20.93 23.94 26.46 27.04 24.73 24.78 16.84 27.15 25.48 16.50 20.91 22.68	16.22 17.58 21.92 25.77 28.02 28.36 25.79 26.03 17.71 21.74 26.54 28.38 29.02 26.50	17.25 19.59 24.39 28.61 30.64 31.46 29.07 29.39 19.88 24.56 28.80 30.64 31.58 29.68	Confidenter	To 17.52 20.11 25.49 29.71 31.57 32.04 29.97 30.26 20.94 26.02 30.08 31.67 32.58 30.63	90th p Estimate  18.52 22.82 29.07 33.28 35.50 35.14 33.59 33.75 23.51 28.84 31.87 33.75 33.11 21.45 29.31 34.32	17.94 21.94 27.10 30.85 33.61 32.32 32.38 22.04 25.88 28.93 31.28 33.18 31.60	19.10 23.71 31.03 35.71 36.81 36.87 34.86 35.12 24.99 31.80 34.82 36.21 36.55 34.62 22.41 32.18 37.73	19.56 24.46 32.53 36.50 38.82 38.65 36.96 37.10 25.44 33.17 35.78 36.36 37.40 35.82	Tender Te	20.81 26.09 34.25 39.22 40.57 41.77 38.16 38.35 28.66 35.22 38.86 38.42 39.98 37.33 24.33 33.62 42.63

Note(s): Total household population aged 3 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 25
Distribution of the household population aged 5 to 18, by body mass index norms based on direct measures—World Health Organization (WHO) system, by age and sex, Canada, 2009 to 2011

		Во	dy mass in	dex norms bas	ed on dire	ct measure	es-World Heal	th Organi	zation (WH	O) system		
	Thinr	ess		Noi	rmal		Overw	eight/		Obe	ese	
	Estimate		dence rval	Estimate	Confid- inter		Estimate	Confident inter		Estimate	Confident interview	
		From	То		From	То	•	From	То	•	From	То
					perce	nt						
Both sexes Age 5 to 11 Age 12 to 18 Age 5 to 18	F F <b>2.0</b> <sup>E</sup>	1.0	3.8	65.5 67.2 <b>66.5</b>	61.7 61.0 <b>62.9</b>	69.2 72.9 <b>69.9</b>	19.7 19.5 <b>19.6</b>	16.4 14.9 <b>16.3</b>	23.4 25.1 <b>23.3</b>	13.1 11.0 <b>12.0</b>	10.5 7.9 <b>10.0</b>	16.3 15.2 <b>14.3</b>
Males Age 5 to 11 Age 12 to 18 Age 5 to 18	X F <b>F</b>			59.0 64.7 <b>62.0</b>	51.9 55.2 <b>55.9</b>	65.7 73.1 <b>67.8</b>	19.8 19.7 <sup>E</sup> <b>19.7</b>	14.8 13.1 <b>15.1</b>	26.0 28.4 <b>25.4</b>	19.5 11.5 <sup>E</sup> <b>15.2</b>	15.5 7.7 <b>12.7</b>	24.1 16.9 <b>18.1</b>
Females Age 5 to 11 Age 12 to 18 Age 5 to 18	X X <b>0.9</b> E	0.5		72.6 69.9 <b>71.1</b>	69.8 60.7 <b>65.3</b>	75.2 77.8 <b>76.3</b>	19.6 19.3 <b>19.4</b>	16.1 13.9 <b>15.2</b>	23.6 26.0 <b>24.4</b>	6.3 <sup>E</sup> 10.5 <sup>E</sup> <b>8.6</b>	4.1 6.9 <b>6.4</b>	9.8 15.6 <b>11.5</b>

Note(s): De Onis M, Onyango AW, Borghi E, Siyam A, Nishida C, Siekmann J. Development of a WHO growth reference for schoolaged children and adolescents.

Bulletin of the World Health Organization 2007;85:660-7. www.who.int/childgrowth/en. Total household population aged 5 to 18, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). World Health Organization (WHO).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 26
Distribution of the household population aged 3 to 17, by body mass index norms based on direct measures—Center for Disease Control (CDC) system, by age and sex, Canada, 2009 to 2011

		Body	mass inde	ex norms based	d on direc	t measures	— Center for E	Disease (	Control (CD	C) system		
	Under	veight		Normal	weight		Overw	eight		Obe	ese	
	Estimate	Confide interv		Estimate	Confide interv		Estimate	Confid- inter		Estimate	Confide inter	
		From	То		From	То	_	From	То	_	From	То
	<u> </u>					percer	ıt					
Both sexes												
Age 3 to 5	2.5 €	1.4	4.5	65.5	60.3	70.4	17.5 E	12.0	24.9	14.4 E		21.0
Age 6 to 11	4.3 €	2.1	8.6	70.5	64.7	75.8	12.4	10.0	15.3	12.7	9.8	16.4
Age 12 to 17	5.6 E	3.2	9.7	68.7	60.7	75.6	15.5	11.2	21.0	10.3	7.4	14.0
Age 3 to 17	4.5 ⊑	2.9	7.0	68.8	65.0	72.4	14.7	12.2	17.6	12.0	10.1	14.2
Age 6 to 17	5.0 ⊑	3.1	7.9	69.5	64.9	73.8	14.1	11.3	17.4	11.4	9.7	13.4
Males												
Age 6 to 11	F			66.4	57.4	74.2	11.3	8.1	15.4	18.4	13.9	23.8
Age 12 to 17	F			67.8	58.6	75.8	12.9 E	8.1	20.1	10.8	7.7	15.0
Age 6 to 17	6.4 <sup>E</sup>	3.9	10.4	67.1	61.8	72.0	12.2	9.1	16.1	14.3	11.6	17.4
Females												
Age 6 to 11	4.7 €	2.6	8.3	75.0	70.0	79.4	13.7	10.7	17.3	6.7 E	4.2	10.5
Age 12 to 17	X			69.6	58.0	79.3	18.3 E	12.1	26.7	9.6 E	6.0	15.1
Age 6 to 17	3.5 ⊑	1.9	6.4	72.1	65.4	78.0	16.1	12.2	21.0	8.3	5.9	11.4

Note(s): The norms used in this table can be found in National Center for Health Statistics, 2000, Clinical Growth Charts, Department of Health and Human Services, Public Health Service, Center for Disease Control, Hyattsville, MD. http://www.cdc.gov/nchs/about/major/nhanes/growthcharts/clinicalcharts.htm (accessed Dec. 19, 2006). Total household population aged 3 to 17, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only. Center for Disease Control (CDC).

Table 27
Distribution of the household population aged 3 to 17, by body mass index norms based on direct measures—Cole system, by age and sex, Canada, 2009 to 2011

		Body mass index norms based on direct measures—Cole system									
	Neither overw	veight or obes	Э	Overw	eight/		Obese				
	Estimate	ate Confidence interval		Estimate	Confidence interval		Estimate	Confidence interval			
		From	То	•	From	То	'	From	То		
				perc	ent						
Both sexes									<u> </u>		
Age 3 to 5	79.5	72.4	85.2	14.2 E	9.9	20.2	6.2 E	3.5	10.9		
Age 6 to 11	76.9	72.3	80.9	15.1	12.3	18.2	8.1	5.7	11.3		
Age 12 to 17	73.1	66.2	79.1	18.0	13.8	23.1	8.9	6.3	12.3		
Age 3 to 17	75.7	71.9	79.2	16.2	13.3	19.6	8.1	6.5	10.0		
Age 6 to 17	74.9	70.9	78.4	16.6	13.8	20.0	8.5	6.8	10.5		
Males											
Age 6 to 11	74.0	66.3	80.4	15.4	10.9	21.1	10.7 E	7.1	15.7		
Age 12 to 17	74.7	65.5	82.1	16.6 E	11.2	23.8	8.7 E	6.1	12.5		
Age 6 to 17	74.4	67.7	80.1	16.0	11.9	21.3	9.6	7.3	12.6		
Females											
Age 6 to 11	80.0	76.4	83.2	14.7	11.5	18.7	5.3 E	2.9	9.3		
Age 12 to 17	71.4	60.3	80.4	19.6 E	13.0	28.4	9.0 E	5.6	14.1		
Age 6 to 17	75.4	69.5	80.5	17.3	13.2	22.4	7.3	5.1	10.3		

Note(s): The norms used in this table can be found in T.J. Cole, M.C. Bellizzi , K.M. Flegal & W.H. Dietz, 2000, "Establishing a Standard Definition for Child Overweight and Obesity Worldwide. International survey," *The BMJ*, Vol. 320, p. 1240-1243. Total household population aged 3 to 17, except those meeting the exclusion criteria (see the *Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2*). The sample size for 3 to 5 year olds produces reliable national estimates for both sexes combined only.

Table 28
Distribution of the household population aged 18 to 79, by body mass index norms based on direct measures, by age and sex, Canada, 2009 to 2011

			Body n	nass index norms	based on dir	ect measures			
	Underv	Underweight			Weight		Overweight		
	Estimate	Estimate Confidence interval		Estimate	Confidence interval		Estimate	Confidence	interval
		From	То		From	То		From	То
				ре	rcent				
Both sexes									
Age 18 to 39	3.1 E		4.8	49.7	43.2	56.2	28.5	24.1	33.3
Age 40 to 59 Age 60 to 79	0.9 E F	0.5	1.5	32.3 25.6	27.3 19.9	37.8 32.2	37.4 38.8	31.1 34.0	44.1 43.9
Age 18 to 79	2.0	1.4	2.7	37.6	33.1	42.3	34.2	<b>30.9</b>	37.7
Males									
Age 18 to 39	X			44.6	37.3	52.1	33.7	27.5	40.6
Age 40 to 59	X			24.0	18.3	30.7	44.6	35.0	54.7
Age 60 to 79	X			21.2	14.8	29.4	42.6	33.8	51.8
Age 18 to 79	F		•	31.6	27.4	36.0	39.9	35.7	44.3
Females Age 18 to 39	3.8 €	2.4	5.9	55.0	44.9	64.7	23.0	16.5	31.2
Age 40 to 59	3.8 <sup>L</sup>		2.7	55.0 40.7	32.7	49.3	30.1	24.4	36.4
Age 60 to 79	1:4- F	0.7	2.1	29.6	22.8	37.5	35.4	30.0	41.3
Age 18 to 79	2.6	1.9	3.7	43.7	37.6	50.0	28.6	24.1	33.5
			Body m	ass index norms	based on dire	ect measures			
	Obese,	class I		Obese	, class II		Obese,	class III	
	Estimate	Confidence	interval	Estimate	Confidence	interval	Estimate	Confidence	interval
		From	То		From	То		From	То
				pe	rcent				
Both sexes									
Age 18 to 39	11.3	8.5	14.9	4.7 E		8.1	2.7 E	1.5	4.6
Age 40 to 59	17.2	14.0	21.0	8.1 E		12.5	4.1 E	2.8	6.0
Age 60 to 79	23.1	20.4	26.1	6.0	4.5	7.8	4.6 E	2.8	7.5
Age 18 to 79	16.2	14.0	18.7	6.3	4.6	8.8	3.6	2.8	4.8
Males Age 18 to 39	13.3	9.6	18.0	F			F		
Age 40 to 59	22.6	9.6 18.5	27.3	F	•	•	F	•	
	25.7	20.1	32.1	6.6 ⊑	4.4	9.7	3.3 E	1.7	6.4
			22.5	5.5 E		9.9	2.2 ⊑	1.2	4.0
Age 60 to 79	19.5	16.9	22.5	0.0					
Age 60 to 79 Age 18 to 79 Females									
Age 60 to 79 Age 18 to 79 Females Age 18 to 39	9.2 ⊑	6.2	13.5	5.4 E	3.0	9.4	F		
Age 60 to 79 Age 18 to 79 Females					3.0	9.4 15.5 7.6		3.7 3.3	9.6 10.0

Note(s): The norms used in this table can be found in Health Canada, 2003, "Description of the Canadian Guidelines for Body Weight Classification in Adults," Canadian Guidelines for Body Weight Classification in Adults, Health Canada Catalogue no. H49-179/2003E, p. 9-12. http://www.hc-sc.gc.ca/fn-an/nutrition/weights-poids/guide-ld-adult/weight\_book\_tc-livres\_des\_poids\_tm-eng.php (accessed Dec. 19, 2006). Total household population aged 18 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Table 29
Ratio of the best forced expiratory volume in one second to forced vital capacity (FEV<sub>1</sub>/ FVC), by age and sex, household population, Canada, 2009 to 2011

					Best FEV <sub>1</sub> / FVC ratio							
	N	lean		5th p	ercentile		10th p	ercentile		25th p	ercentile	
	Estimate	Confide inter		Estimate	Confide inter		Estimate	Confid- inter		Estimate	Confide inter	
	•	From	То	•	From	То	•	From	То	•	From	To
						ratio						
Both sexes												
Age 6 to 11	0.850	0.842	0.859	0.742	0.710	0.773	0.766	0.746	0.786	0.812	0.803	0.821
Age 12 to 19	0.843 0.802	0.835 0.790	0.852	0.719 0.686	0.695 0.648	0.743 0.725	0.754 0.721	0.727 0.696	0.781 0.746	0.806 0.763	0.795 0.752	0.817
Age 20 to 39 Age 40 to 59	0.802	0.790	0.813 0.775	0.663	0.629	0.725	0.721	0.684	0.746	0.763	0.732	0.774 0.751
Age 60 to 79	0.741	0.736	0.746	0.581	0.544	0.618	0.657	0.648	0.667	0.742	0.702	0.731
Age 6 to 79	0.788	0.782	0.793	0.667	0.651	0.683	0.703	0.694	0.713	0.749	0.742	0.756
Males												
Age 6 to 11	0.836	0.823	0.849	0.725	0.677	0.774	0.744	0.718	0.770	0.798	0.782	0.815
Age 12 to 19	0.823	0.812	0.835	0.677	0.629	0.724	0.723	0.686	0.759	0.791	0.775	0.807
Age 20 to 39	0.796	0.784	0.808	0.691 0.658	0.658 0.619	0.724 0.698	0.718 0.691	0.693 0.670	0.742 0.712	0.756	0.741	0.772
Age 40 to 59 Age 60 to 79	0.767 0.735	0.758 0.729	0.775 0.741	0.658	0.536	0.698	0.649	0.670	0.712	0.736 0.707	0.718 0.696	0.753 0.718
Age 6 to 79	0.782	0.729	0.741	0.570	0.642	0.680	0.649	0.616	0.001 <b>0.712</b>	0.742	0.090	0.710
Females												
Age 6 to 11	0.865	0.857	0.873	0.762	0.742	0.782	0.794	0.779	0.809	0.839	0.833	0.845
Age 12 to 19	0.864	0.854	0.874	0.745	0.710	0.780	0.787	0.766	0.807	0.824	0.815	0.832
Age 20 to 39	0.808	0.793	0.822	0.670	0.605	0.735	0.729	0.686	0.772	0.772	0.755	0.790
Age 40 to 59	0.770	0.762	0.778	0.671	0.621	0.721	0.703	0.683	0.723	0.745	0.736	0.754
Age 60 to 79	0.746	0.735	0.757	0.594	0.537	0.652	0.663	0.647	0.679	0.719	0.707	0.731
Age 6 to 79	0.793	0.787	0.800	0.670	0.645	0.695	0.708	0.696	0.719	0.754	0.749	0.759
					Ве	est FEV <sub>1</sub> / F	VC ratio					
	50th p	ercentile		75th p	ercentile		90th p	ercentile		95th p	ercentile	
		0 6 -1	anco	Estimate	Confide		Estimate	Confid	ence	Estimate	Confide	
	Estimate	Confide inter		Estimate	inter		Estimate	inter	/al	Loumato	inter	vai
	Estimate			Estimate .			Estillate •		/al To	-		To
	Estimate	inter	val	Estimate .	inter	/al	•	inter		-	inter	
Both sexes	Estimate	inter	val	Estimate	inter	ral To	•	inter		-	inter	
	0.857	inter	val	0.890	inter	ral To	•	inter		0.942	inter	То
Age 6 to 11 Age 12 to 19	0.857 0.848	From  0.851 0.840	70 To 0.863 0.855	0.890 0.889	From  0.881 0.876	70 To ratio 0.899 0.902	0.926 0.931	From 0.910 0.920	0.941 0.942	0.942 0.950	From 0.929 0.939	0.955 0.962
Age 6 to 11 Age 12 to 19 Age 20 to 39	0.857 0.848 0.806	0.851 0.840 0.793	0.863 0.855 0.818	0.890 0.889 0.842	0.881 0.876 0.834	70 To ratio 0.899 0.902 0.850	0.926 0.931 0.880	0.910 0.920 0.865	0.941 0.942 0.895	0.942 0.950 0.907	0.929 0.939 0.880	0.955 0.962 0.935
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	0.857 0.848 0.806 0.775	0.851 0.840 0.793 0.767	0.863 0.855 0.818 0.782	0.890 0.889 0.842 0.803	0.881 0.876 0.834 0.798	70 ratio 0.899 0.902 0.850 0.808	0.926 0.931 0.880 0.828	0.910 0.920 0.865 0.823	0.941 0.942 0.895 0.832	0.942 0.950 0.907 0.841	0.929 0.939 0.880 0.828	0.955 0.962 0.935 0.854
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	0.857 0.848 0.806 0.775 0.775	0.851 0.840 0.793 0.767 0.749	0.863 0.855 0.818 0.782 0.757	0.890 0.889 0.842 0.803 0.787	0.881 0.876 0.834 0.798 0.776	70 ratio 0.899 0.902 0.850 0.808 0.798	0.926 0.931 0.880 0.828 0.814	0.910 0.920 0.865 0.823 0.803	0.941 0.942 0.895 0.832 0.824	0.942 0.950 0.907 0.841 0.836	0.929 0.939 0.880 0.828 0.824	0.955 0.962 0.935 0.854 0.848
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79	0.857 0.848 0.806 0.775	0.851 0.840 0.793 0.767	0.863 0.855 0.818 0.782	0.890 0.889 0.842 0.803	0.881 0.876 0.834 0.798	70 ratio 0.899 0.902 0.850 0.808	0.926 0.931 0.880 0.828	0.910 0.920 0.865 0.823	0.941 0.942 0.895 0.832	0.942 0.950 0.907 0.841	0.929 0.939 0.880 0.828	To 0.955
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Males	0.857 0.848 0.806 0.775 0.775	0.851 0.840 0.793 0.767 0.749	0.863 0.855 0.818 0.782 0.757	0.890 0.889 0.842 0.803 0.787 0.830	0.881 0.876 0.834 0.798 0.776	70 ratio 0.899 0.902 0.850 0.808 0.798	0.926 0.931 0.880 0.828 0.814	0.910 0.920 0.865 0.823 0.803	0.941 0.942 0.895 0.832 0.824	0.942 0.950 0.907 0.841 0.836	0.929 0.939 0.880 0.828 0.824	0.955 0.962 0.935 0.854 0.848
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79	0.857 0.848 0.806 0.775 0.753 <b>0.791</b>	0.851 0.840 0.793 0.767 0.749 <b>0.786</b>	0.863 0.855 0.818 0.782 0.757 <b>0.795</b>	0.890 0.889 0.842 0.803 0.787	0.881 0.876 0.834 0.798 0.776 <b>0.826</b>	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835	0.926 0.931 0.880 0.828 0.814 <b>0.875</b>	0.910 0.920 0.865 0.823 0.803 <b>0.866</b>	0.941 0.942 0.895 0.832 0.824 <b>0.885</b>	0.942 0.950 0.907 0.841 0.836 <b>0.903</b>	0.929 0.939 0.880 0.828 0.824 <b>0.892</b>	0.955 0.962 0.935 0.854 0.848 <b>0.914</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11	0.857 0.848 0.806 0.775 0.753 <b>0.791</b>	0.851 0.840 0.793 0.767 0.749 <b>0.786</b>	0.863 0.855 0.818 0.782 0.757 <b>0.795</b>	0.890 0.889 0.842 0.803 0.787 <b>0.830</b> 0.879 0.872 0.837	0.881 0.876 0.834 0.776 0.826 0.869 0.855 0.825	70 ratio 0.899 0.902 0.850 0.808 0.798 0.835 0.889 0.889	0.926 0.931 0.880 0.828 0.814 0.875	0.910 0.920 0.865 0.823 0.803 <b>0.866</b>	0.941 0.942 0.895 0.832 0.824 <b>0.885</b> 0.926 0.912 0.887	0.942 0.950 0.907 0.841 0.836 <b>0.903</b> 0.936 0.931	0.929 0.939 0.880 0.828 0.824 <b>0.892</b>	0.955 0.962 0.935 0.854 0.848 <b>0.914</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39	0.857 0.848 0.806 0.775 0.753 <b>0.791</b> 0.839	0.851 0.840 0.793 0.767 0.749 0.786	0.863 0.855 0.818 0.782 0.757 <b>0.795</b>	0.890 0.889 0.842 0.803 0.787 <b>0.830</b>	0.881 0.876 0.834 0.798 0.798 0.726 0.826	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.889	0.926 0.931 0.880 0.828 0.814 <b>0.875</b>	0.910 0.920 0.865 0.823 0.803 0.866	0.941 0.942 0.895 0.832 0.824 <b>0.885</b>	0.942 0.950 0.907 0.841 0.836 <b>0.903</b>	0.929 0.939 0.880 0.828 0.828 0.824 0.892	0.955 0.962 0.935 0.854 0.848 <b>0.914</b> 0.950 0.954
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	0.857 0.848 0.806 0.775 0.753 <b>0.791</b> 0.839 0.831 0.800 0.772 0.7748	0.851 0.840 0.793 0.767 0.749 0.786 0.823 0.821 0.785 0.760	0.863 0.855 0.818 0.782 0.757 0.795 0.815 0.841 0.815 0.784	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837 0.803 0.777	0.881 0.876 0.834 0.798 0.776 <b>0.826</b> 0.855 0.855 0.855	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.849 0.849 0.812 0.786	0.926 0.931 0.880 0.828 0.814 <b>0.875</b> 0.907 0.903 0.871 0.828 0.807	0.910 0.920 0.865 0.823 0.803 <b>0.866</b> 0.887 0.894 0.855 0.823	0.941 0.942 0.895 0.832 0.824 <b>0.885</b> 0.926 0.912 0.837 0.832	0.942 0.950 0.907 0.841 0.836 <b>0.903</b> 0.931 0.907 0.839 0.818	0.929 0.939 0.880 0.824 0.892 0.922 0.908 0.871 0.827	0.955 0.962 0.935 0.854 0.848 <b>0.914</b> 0.950 0.954 0.851 0.851
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19	0.857 0.848 0.806 0.775 0.753 0.791 0.839 0.831 0.800 0.772	0.851 0.840 0.793 0.767 0.749 0.786	0.863 0.855 0.818 0.782 0.795 0.895 0.841 0.855 0.841 0.815 0.784	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837	0.881 0.876 0.876 0.876 0.778 0.776 0.826 0.869 0.855 0.825 0.794	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.889 0.849 0.812	0.926 0.931 0.880 0.828 0.814 <b>0.875</b> 0.907 0.903 0.871 0.828	0.910 0.920 0.823 0.803 0.866 0.887 0.894 0.855 0.823	0.941 0.942 0.895 0.824 0.885 0.926 0.912 0.887 0.832	0.942 0.950 0.907 0.841 0.836 0.903 0.936 0.931 0.907 0.839	0.929 0.939 0.828 0.824 0.892 0.922 0.908 0.871 0.827	0.955 0.962 0.935 0.854 0.848 <b>0.914</b> 0.950 0.954 0.944
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	0.857 0.848 0.806 0.775 0.753 0.791 0.839 0.831 0.800 0.772 0.748 0.786	0.851 0.840 0.793 0.749 0.786 0.823 0.821 0.785 0.760 0.741	0.863 0.855 0.818 0.757 0.795 0.855 0.841 0.815 0.784 0.755 0.792	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837 0.803 0.777 0.825	0.881 0.876 0.834 0.776 0.826 0.855 0.825 0.794 0.794 0.819	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.849 0.812 0.782 0.831	0.926 0.931 0.880 0.828 0.814 0.875 0.907 0.903 0.871 0.828 0.807 0.865	0.910 0.920 0.865 0.803 0.803 0.866 0.887 0.894 0.855 0.823 0.797 0.854	0.941 0.942 0.895 0.832 0.824 0.885 0.926 0.912 0.887 0.832 0.817 0.875	0.942 0.950 0.907 0.841 0.836 0.903 0.931 0.907 0.839 0.818 0.894	0.929 0.939 0.880 0.824 0.892 0.908 0.871 0.806 0.879	0.955 0.962 0.935 0.854 0.914 0.950 0.954 0.851 0.851 0.850
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 59 Age 6 to 79  Page 6 to 79 Age 6 to 79 Age 6 to 79 Age 6 to 79 Age 60 to 79 Age 60 to 79	0.857 0.848 0.806 0.775 0.753 0.791 0.839 0.831 0.800 0.772 0.748 0.786	0.851 0.840 0.793 0.767 0.749 0.786 0.823 0.823 0.760 0.741 0.780	0.863 0.855 0.818 0.757 0.795 0.855 0.815 0.815 0.784 0.755 0.792	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837 0.803 0.777 0.825	0.881 0.876 0.834 0.776 0.826 0.826 0.826 0.825 0.794 0.768 0.819	7al To ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.849 0.812 0.786 0.831  0.906	0.926 0.931 0.880 0.828 0.814 <b>0.875</b> 0.907 0.903 0.871 0.828 0.807 <b>0.865</b>	0.910 0.920 0.865 0.823 0.866 0.887 0.855 0.823 0.797 0.854	0.941 0.942 0.895 0.832 0.834 0.885 0.926 0.912 0.817 0.832 0.817 0.875	0.942 0.950 0.907 0.841 0.836 0.903 0.931 0.931 0.907 0.839 0.818 0.894	0.929 0.939 0.880 0.828 0.828 0.829 0.892 0.922 0.902 0.806 0.879	0.955 0.962 0.935 0.854 0.914 0.950 0.954 0.944 0.851 0.830 0.909
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Age 6 to 17 Age 70 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19	0.857 0.848 0.806 0.775 0.753 0.791 0.839 0.831 0.800 0.772 0.748 0.786	0.851 0.840 0.793 0.767 0.749 0.786 0.823 0.821 0.785 0.760 0.741 0.780	0.863 0.855 0.855 0.818 0.782 0.757 0.795 0.841 0.815 0.785 0.792	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837 0.803 0.777 0.825	0.881 0.876 0.834 0.776 0.826 0.855 0.825 0.794 0.768 0.819	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.849 0.849 0.812 0.786 0.831	0.926 0.931 0.880 0.828 0.814 0.875 0.907 0.903 0.871 0.828 0.807 0.865	0.910 0.920 0.865 0.823 0.803 0.866 0.887 0.894 0.855 0.823 0.797 0.854	0.941 0.942 0.895 0.832 0.824 <b>0.885</b> 0.926 0.912 0.832 0.817 <b>0.875</b>	0.942 0.950 0.907 0.841 0.836 0.903 0.931 0.907 0.839 0.818 0.894	0.929 0.939 0.828 0.824 <b>0.892</b> 0.908 0.871 0.806 <b>0.879</b>	0.955 0.962 0.935 0.848 <b>0.914</b> 0.950 0.954 0.830 <b>0.909</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59  Females Age 6 to 11 Age 12 to 19 Age 6 to 10 Age 6 to 11 Age 12 to 19 Age 6 to 10 Age 10 to 39 Age 40 to 59 Age 6 to 11 Age 12 to 19 Age 20 to 39	0.857 0.848 0.806 0.775 0.753 0.791 0.839 0.831 0.800 0.772 0.748 0.786	0.851 0.840 0.793 0.749 0.786 0.823 0.821 0.785 0.761 0.780	0.863 0.855 0.818 0.785 0.757 0.795 0.855 0.841 0.815 0.784 0.755 0.792	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837 0.803 0.777 0.825	0.881 0.876 0.834 0.776 0.826 0.855 0.825 0.794 0.768 0.819	7al To ratio 0.899 0.902 0.850 0.808 0.798 0.835 0.889 0.849 0.812 0.782 0.831 0.906 0.928 0.856	0.926 0.931 0.880 0.828 0.814 0.875 0.907 0.903 0.871 0.828 0.807 0.865	0.910 0.920 0.865 0.803 0.803 0.866 0.887 0.894 0.855 0.823 0.797 0.854	0.941 0.942 0.895 0.832 0.826 0.912 0.887 0.832 0.817 0.875	0.942 0.950 0.907 0.841 0.836 0.903 0.931 0.907 0.839 0.818 0.894	0.929 0.939 0.880 0.824 0.892 0.908 0.871 0.807 0.807 0.807 0.806 0.879	0.955 0.965 0.962 0.935 0.854 0.848 <b>0.914</b> 0.950 0.954 0.944 0.851 0.830 <b>0.909</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 59 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19	0.857 0.848 0.806 0.775 0.753 0.791 0.839 0.831 0.800 0.772 0.748 0.786	0.851 0.840 0.793 0.767 0.749 0.786 0.823 0.821 0.785 0.760 0.741 0.780	0.863 0.855 0.855 0.818 0.782 0.757 0.795 0.841 0.815 0.785 0.792	0.890 0.889 0.842 0.803 0.787 0.830 0.879 0.872 0.837 0.803 0.777 0.825	0.881 0.876 0.834 0.776 0.826 0.855 0.825 0.794 0.768 0.819	70  ratio  0.899 0.902 0.850 0.808 0.798 0.835  0.889 0.849 0.849 0.812 0.786 0.831	0.926 0.931 0.880 0.828 0.814 0.875 0.907 0.903 0.871 0.828 0.807 0.865	0.910 0.920 0.865 0.823 0.803 0.866 0.887 0.894 0.855 0.823 0.797 0.854	0.941 0.942 0.895 0.832 0.824 <b>0.885</b> 0.926 0.912 0.832 0.817 <b>0.875</b>	0.942 0.950 0.907 0.841 0.836 0.903 0.931 0.907 0.839 0.818 0.894	0.929 0.939 0.828 0.824 <b>0.892</b> 0.908 0.871 0.806 <b>0.879</b>	0.955 0.962 0.935 0.848 <b>0.914</b> 0.950 0.954 0.851 0.830 <b>0.909</b>

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2)

User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 30 Best forced expiratory volume in one second (FEV<sub>1</sub>) of the household population, by age and sex, Canada, 2009 to 2011

						orced expiratory volume in one second (FEV <sub>1</sub> )						
	Me	an		5th per	centile		10th pe	rcentile		25th pe	rcentile	
	Estimate	Confide inter		Estimate	Confide		Estimate	Confide		Estimate	Confide inter	
	•	From	То	То	From	То	•	From	То	•	From	То
						litres						
Both sexes												
Age 6 to 11	1.84	1.77	1.90	1.18	1.09	1.27	1.31	1.23	1.39	1.51	1.42	1.59
Age 12 to 19	3.45	3.35	3.56	2.23	2.09	2.37	2.46	2.32	2.60	2.83	2.72	2.95
Age 20 to 39	3.64	3.54	3.74	2.37	2.19	2.54	2.61	2.42	2.80	3.00	2.85	3.15
Age 40 to 59	3.09	3.01	3.17	1.91	1.73	2.10	2.17	2.00	2.35	2.55	2.46	2.65
Age 60 to 79 Age 6 to 79	2.44 <b>3.10</b>	2.39 <b>3.04</b>	2.49 <b>3.17</b>	1.44 <b>1.68</b>	1.36 <b>1.61</b>	1.52 <b>1.74</b>	1.66 <b>1.90</b>	1.60 <b>1.82</b>	1.73 <b>1.97</b>	1.95 <b>2.43</b>	1.86 <b>2.34</b>	2.03 <b>2.51</b>
Males	5.10	0.04	0.11	1.00			1.50	1.02	1.01	2.40	2.04	2.01
Age 6 to 11	1.86	1.77	1.95	1.18	0.98	1.37	1.31	1.18	1.45	1.53	1.41	1.65
Age 12 to 19	3.81	3.67	3.95	2.11	1.75	2.46	2.50	2.16	2.84	3.14	2.89	3.39
Age 20 to 39	4.22	4.10	4.33	3.12	2.92	3.33	3.44	3.24	3.65	3.77	3.59	3.95
Age 40 to 59	3.58	3.48	3.68	2.53	2.28	2.78	2.76	2.54	2.97	3.17	2.97	3.36
Age 60 to 79	2.89	2.82	2.97	1.87	1.75	1.98	2.11	1.95	2.26	2.44	2.33	2.56
Age 6 to 79	3.57	3.50	3.65	1.84	1.77	1.91	2.31	2.24	2.38	2.97	2.86	3.09
Females												
Age 6 to 11	1.80	1.74	1.87	1.19	1.14	1.24	1.30	1.22	1.38	1.47	1.40	1.54
Age 12 to 19	3.09	2.96	3.21	2.29	2.17	2.42	2.45	2.29	2.60	2.73	2.56	2.89
Age 20 to 39	3.06	2.93	3.19	2.29	2.20	2.37	2.37	2.17	2.56	2.72	2.54	2.90
Age 40 to 59	2.61	2.52	2.70	1.85	1.77	1.92	1.95	1.76	2.14	2.28	2.15	2.42
Age 60 to 79	2.05	1.99	2.10	1.23	1.07	1.38	1.49	1.43	1.56	1.78	1.74	1.82
Age 6 to 79	2.64	2.57	2.71	1.57	1.51	1.63	1.80	1.75	1.85	2.21	2.12	2.29
				Doot form	مستسيم اسم	tory volum	. :	٦ /EE\/ \				
				Best force	ей ехріга	tory volum	e in one secon	ia (FEV <sub>1</sub> )				
	50th pe	rcentile		75th pe		tory volum	90th pe	· P		95th pe	rcentile	
	50th pe	rcentile Confide				ence		· P	ence	95th pe Estimate	ccentile Confide interv	
	<u></u>	Confide		75th pe	rcentile Confide	ence	90th pe	rcentile Confide	ence		Confide	
	<u></u>	Confide inter	/al	75th pe	rcentile Confide interv	ence val	90th pe Estimate	rcentile Confidentinter	ence val		Confide inter	val
Both sexes	Estimate	Confide interv	/al To	75th pe Estimate	rcentile  Confide interv	ence val To litres	90th pe Estimate	centile Confide inter	ence val To	Estimate	Confide interv	val To
Age 6 to 11	Estimate	Confidenter From	7al To 1.87	75th pe Estimate	Confide intervention in tervention in tervetion in ter	To litres	90th pe Estimate	Confide intervention in tervention in tervetion in tervention in tervetion in te	To	Estimate .	Confidenters From  2.53	To 2.86
Age 6 to 11 Age 12 to 19	Estimate	From  1.72 3.23	To  1.87 3.42	75th pe Estimate 	rcentile Confide interventile From 2.03 3.80	To litres	90th pe Estimate - 2.48 4.64	rcentile Confide interventile From 2.31 4.44	To 2.65	2.69 5.04	From  2.53 4.74	2.86 5.34
Age 6 to 11 Age 12 to 19 Age 20 to 39	1.79 3.33 3.60	Confidenter   From   1.72   3.23   3.46	To  1.87 3.42 3.75	75th pe Estimate 2.10 4.00 4.16	rcentile Confide interventile From  2.03 3.80 3.98	To litres 2.17 4.20 4.35	90th pe Estimate  2.48 4.64 4.79	rcentile Confide interventile From  2.31 4.44 4.70	To  2.65 4.84 4.87	2.69 5.04 5.05	Confidentern From 2.53 4.74 4.93	2.86 5.34 5.17
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	1.79 3.33 3.60 3.01	Confidenters From  1.72 3.23 3.46 2.87	1.87 3.42 3.75 3.16	75th pe Estimate 2.10 4.00 4.16 3.61	rcentile Confide interventile From 2.03 3.80 3.98 3.51	To litres  2.17 4.20 4.35 3.71	90th pe Estimate 2.48 4.64 4.79 4.10	rcentile Confide interventile From  2.31 4.44 4.70 3.97	To  2.65 4.84 4.87 4.22	2.69 5.04 5.05 4.32	Confident intervent	2.86 5.34 5.17 4.43
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	1.79 3.33 3.60 3.01 2.36	Confidenters From  1.72 3.23 3.46 2.87 2.30	1.87 3.42 3.75 3.16 2.42	75th pe Estimate 2.10 4.00 4.16 3.61 2.86	rcentile	To litres  2.17 4.20 4.35 3.71 2.93	90th pe Estimate 2.48 4.64 4.79 4.10 3.40	Confide interventile    Confide interventile    From    2.31   4.44   4.70   3.97   3.31	2.65 4.84 4.87 4.22 3.49	2.69 5.04 5.05 4.32 3.66	Confident interval	2.86 5.34 5.17 4.43 3.75
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79	1.79 3.33 3.60 3.01	Confidenters From  1.72 3.23 3.46 2.87	1.87 3.42 3.75 3.16	75th pe Estimate 2.10 4.00 4.16 3.61	rcentile Confide interventile From 2.03 3.80 3.98 3.51	To litres  2.17 4.20 4.35 3.71	90th pe Estimate 2.48 4.64 4.79 4.10	rcentile Confide interventile From  2.31 4.44 4.70 3.97	To  2.65 4.84 4.87 4.22	2.69 5.04 5.05 4.32	Confident intervent	2.86 5.34 5.17 4.43
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Males	1.79 3.33 3.60 3.01 2.36 3.03	1.72 3.23 3.46 2.87 2.30 2.94	1.87 3.42 3.75 3.16 2.42 <b>3.12</b>	75th pe Estimate 2.10 4.00 4.16 3.61 2.86 3.75	Confident interventile  Confident interventile  From  2.03 3.80 3.98 3.51 2.80 3.64	2.17 4.20 4.35 3.71 2.93 3.86	90th pe Estimate 2.48 4.64 4.79 4.10 3.40 4.31	Confident intent	2.65 4.84 4.87 4.22 3.49 4.43	2.69 5.04 5.05 4.32 3.66 4.73	2.53 4.74 4.93 4.20 3.57 4.65	2.86 5.34 5.17 4.43 3.75 4.80
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11	1.79 3.33 3.60 3.01 2.36 3.03	1.72 3.23 3.46 2.87 2.30 2.94	1.87 3.42 3.75 3.16 2.42 3.12	75th pe Estimate 2.10 4.00 4.16 3.61 2.86 3.75	Confidenters From  2.03 3.80 3.98 3.51 2.80 3.64 2.03	To litres  2.17 4.20 4.35 3.71 2.93 3.86 2.19	90th pe Estimate 2.48 4.64 4.79 4.10 3.40 4.31	2.31 4.44 4.70 3.97 3.31 4.20	2.65 4.84 4.87 4.22 3.49 4.43	2.69 5.04 5.05 4.32 3.66 <b>4.73</b>	2.53 4.74 4.93 4.20 3.57 4.65	2.86 5.34 5.17 4.43 3.75 <b>4.80</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19	1.79 3.33 3.60 3.01 2.36 3.03	1.72 3.23 3.46 2.87 2.39 1.73 3.65	1.87 3.42 3.75 3.16 2.42 3.12	75th per Estimate  2.10 4.00 4.16 3.61 2.86 3.75	Confidenter   Confidenter   From   2.03   3.80   3.98   3.51   2.80   3.64   2.03   4.28	2.17 4.20 4.35 3.71 2.93 3.86	90th pe Estimate 2.48 4.64 4.79 4.10 3.40 4.31 2.51 5.01	2.31 4.44 4.70 3.97 3.31 4.20	2.65 4.84 4.87 4.22 4.43 2.79 5.31	2.69 5.04 5.05 4.32 3.66 4.73	2.53 4.74 4.93 4.20 3.57 4.65	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19 Age 20 to 39	1.79 3.33 3.60 3.01 2.36 3.03 1.82 3.86 4.15	1.72 3.23 3.46 2.87 2.30 2.94	1.87 3.42 3.75 3.16 2.42 3.12	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70	Confident   Confident   From    2.03   3.80   3.91   2.80   3.64    2.03   4.28   4.60	ence val To litres  2.17 4.20 4.35 3.71 2.93 3.86  2.19 4.74 4.80	90th pe Estimate 2.48 4.64 4.79 4.10 3.40 4.31 2.51 5.01 5.05	2.31 4.44 4.70 2.22 4.71 4.93	2.65 4.84 4.87 4.29 4.43 2.79 5.31 5.16	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32	2.53 4.74 4.93 4.20 3.57 4.65 2.53 5.06 5.07	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68 5.57
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59	1.79 3.33 3.60 3.01 2.36 3.03  1.82 3.86 4.15 3.60	1.72 3.23 3.46 2.87 2.30 2.94 1.73 3.65 3.96 3.49	1.87 3.42 3.75 3.16 2.42 3.12	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98	Confide intervent	To litres  2.17 4.20 4.35 3.71 2.93 3.86  2.19 4.74 4.80 4.11	90th pe Estimate 2.48 4.64 4.79 4.10 3.40 4.31 2.51 5.01 5.05 4.32	2.31 4.44 4.70 3.97 3.31 4.20	2.65 4.84 4.87 4.22 3.49 4.43 2.79 5.31 5.16 4.44	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32 4.55	2.53 4.74 4.93 4.20 3.57 4.65 2.53 5.06 5.07 4.45	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68 5.57 4.66
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79 Males Age 6 to 11 Age 12 to 19 Age 20 to 39	1.79 3.33 3.60 3.01 2.36 3.03 1.82 3.86 4.15	1.72 3.23 3.46 2.87 2.30 2.94	1.87 3.42 3.75 3.16 2.42 3.12	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70	Confident   Confident   From    2.03   3.80   3.91   2.80   3.64    2.03   4.28   4.60	ence val To litres  2.17 4.20 4.35 3.71 2.93 3.86  2.19 4.74 4.80	90th pe Estimate 2.48 4.64 4.79 4.10 3.40 4.31 2.51 5.01 5.05	2.31 4.44 4.70 2.22 4.71 4.93	2.65 4.84 4.87 4.29 4.43 2.79 5.31 5.16	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32	2.53 4.74 4.93 4.20 3.57 4.65 2.53 5.06 5.07	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68 5.57
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 6 to 79  Females	1.79 3.33 3.60 3.01 2.36 3.03 1.82 3.86 4.15 3.60 2.88 3.64	1.72 3.23 3.46 2.87 2.30 2.94 1.73 3.65 3.96 3.49 2.89 2.80	1.87 3.42 3.75 3.16 2.42 3.12 1.91 4.08 4.35 3.71 2.96 3.72	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98 3.33 4.17	Confide intended in the confideration of the confid	2.17 4.20 4.35 3.71 2.93 3.86 2.19 4.74 4.80 4.11 3.40 4.28	90th pe Estimate  2.48 4.64 4.79 4.10 3.40 4.31  2.51 5.01 5.05 4.32 3.68 4.73	2.31 4.44 4.70 3.97 4.20 2.22 4.71 4.93 4.20 3.60 4.65	2.65 4.84 4.87 4.29 4.43 2.79 5.31 5.16 4.44 3.75 4.80	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32 4.55 3.91 5.01	2.53 4.74 4.93 4.20 3.57 <b>4.65</b> 2.53 5.06 5.07 4.45 3.77 <b>4.87</b>	2.86 5.34 5.17 4.43 3.75 4.80 3.07 5.68 5.57 4.66 4.05 5.15
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 60 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Fee along 50 Age 60 to 79 Age 60 to 79 Age 60 to 79  Females Age 6 to 11	1.79 3.33 3.60 3.01 2.36 3.03  1.82 3.86 4.15 3.60 2.88 3.64	1.72 3.23 3.46 2.87 2.39 4 1.73 3.65 3.96 3.49 2.80 3.55	1.87 3.42 3.75 3.16 2.42 3.12 1.91 4.08 4.35 3.71 2.96 3.72	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98 3.33 4.17	Confide interventile Confide interventile From 2.03 3.80 3.98 3.51 2.80 3.64 2.03 4.28 4.60 4.05 1.96	To litres  2.17 4.20 4.35 3.71 2.93 3.86  2.19 4.74 4.80 4.11 3.40 4.28	90th pe Estimate  2.48 4.64 4.79 4.10 3.40 4.31  2.51 5.05 4.32 3.68 4.73	Confide inten  From  2.31 4.44 4.70 3.97 3.91 4.20 2.22 4.71 4.93 4.20 3.60 4.65	2.65 4.84 4.87 4.22 3.49 4.43 2.79 5.31 5.16 4.44 3.75 4.80 2.61	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32 4.55 3.91 5.01	2.53 4.74 4.93 4.20 3.57 4.65 2.53 5.06 5.07 4.45 3.77 4.87	2.86 5.34 5.17 4.43 3.75 4.80 3.07 5.68 5.57 4.66 4.05 5.15
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 6 to 79  Females Age 6 to 11 Age 12 to 19 Age 70 to 59 Age 8 to 79  Age 6 to 79  Females Age 6 to 11 Age 12 to 19	1.79 3.33 3.60 3.01 2.36 3.03  1.82 3.86 4.15 3.60 2.88 3.64	1.72 3.23 3.46 2.87 2.30 2.94 1.73 3.65 3.96 3.49 2.80 3.55	1.87 3.42 3.75 2.42 3.16 4.08 4.35 3.71 2.96 3.72	75th per Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98 3.33 4.17	Confident Confid	2.17 4.20 4.35 3.71 2.93 3.86  2.19 4.74 4.80 4.11 3.40 4.28	90th pe Estimate  2.48 4.64 4.79 4.10 3.40 4.31  2.51 5.01 5.05 4.32 3.68 4.73	Confident   Confident   Confident   From    2.31   4.44   4.70   3.31   4.20    2.22   4.71   4.93   4.20   3.60   4.65    2.25   3.58	2.65 4.84 4.87 4.22 4.43 2.79 5.31 5.16 4.44 3.75 4.80 2.61 3.85	2.69 5.04 5.05 4.32 3.66 4.73  2.80 5.37 5.32 4.55 3.91 5.01	2.53 4.74 4.93 3.57 4.65 2.53 5.06 5.07 4.45 3.77 4.87 2.53 3.73	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68 5.57 4.66 4.05 <b>5.15</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	1.79 3.33 3.60 3.01 2.36 3.03 1.82 3.86 4.15 3.60 2.88 3.64	1.72 3.23 3.46 2.87 2.30 2.94 1.73 3.65 3.96 3.49 2.89 3.55	1.87 3.42 3.75 3.16 2.42 3.12  1.91 4.08 4.35 3.71 2.96 3.72  1.86 3.22 3.19	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98 3.33 4.17	Confide intended in the confidence of the confid	2.17 4.20 4.35 3.71 2.93 3.86 2.19 4.74 4.80 4.11 3.40 4.28 2.17 3.56 3.58	90th pe Estimate  2.48 4.64 4.79 4.10 3.40 4.31  2.51 5.01 5.05 4.32 3.68 4.73  2.43 3.72 3.80	2.31 4.44 4.70 3.97 4.20 2.22 4.71 4.93 4.20 4.65 2.25 3.58 3.59	2.65 4.84 4.87 4.29 4.43 2.79 5.31 5.16 4.44 4.80 2.61 3.85 4.01	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32 4.55 3.91 5.01	2.53 4.74 4.93 4.20 3.57 <b>4.65</b> 2.53 5.06 5.07 4.47 <b>4.87</b> 2.53 3.73 3.80	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68 5.57 4.66 4.05 <b>5.15</b>
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 60 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79	1.79 3.33 3.60 3.01 2.36 3.03  1.82 3.86 4.15 3.60 2.88 3.64  1.77 3.08 3.03 2.61	1.72 3.23 3.46 2.87 2.30 2.94 1.73 3.65 3.94 2.80 3.55 1.67 2.95 2.88 2.51	1.87 3.42 3.75 3.16 2.42 3.12  1.91 4.08 4.35 3.71 2.96 3.72  1.86 3.22 3.19 2.70	75th per Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98 3.33 4.17  2.07 3.42 3.41 2.90	Confide interventile Confide i	2.17 4.20 4.35 3.71 2.93 3.86 2.19 4.74 4.80 4.11 3.40 4.28 2.17 3.56 3.58 3.01	90th pe Estimate  2.48 4.64 4.79 4.10 3.40 4.31  2.51 5.01 5.05 4.32 3.68 4.73  2.43 3.72 3.80 3.22	2.31 4.44 4.70 3.97 3.31 4.20 2.22 4.71 3.60 4.65 2.25 3.58 3.59 3.06	2.65 4.84 4.87 4.22 3.49 4.43 2.79 5.31 5.16 4.44 3.75 4.80 2.61 3.85 4.01 3.38	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32 4.55 3.91 5.01 2.59 3.90 3.99 3.47	2.53 4.74 4.93 3.57 4.65 2.53 5.06 5.07 4.87 2.53 3.73 3.80 3.31	2.86 5.34 5.17 4.43 3.75 4.80 3.07 5.68 5.57 4.66 4.05 5.15 2.65 4.07 4.18 3.63
Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79 Age 6 to 79  Males Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 40 to 59 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39 Age 60 to 79  Females Age 6 to 11 Age 12 to 19 Age 20 to 39	1.79 3.33 3.60 3.01 2.36 3.03 1.82 3.86 4.15 3.60 2.88 3.64	1.72 3.23 3.46 2.87 2.30 2.94 1.73 3.65 3.96 3.49 2.89 3.55	1.87 3.42 3.75 3.16 2.42 3.12  1.91 4.08 4.35 3.71 2.96 3.72  1.86 3.22 3.19	75th pe Estimate  2.10 4.00 4.16 3.61 2.86 3.75  2.11 4.51 4.70 3.98 3.33 4.17	Confide intense	2.17 4.20 4.35 3.71 2.93 3.86 2.19 4.74 4.80 4.11 3.40 4.28 2.17 3.56 3.58	90th pe Estimate  2.48 4.64 4.79 4.10 3.40 4.31  2.51 5.01 5.05 4.32 3.68 4.73  2.43 3.72 3.80	2.31 4.44 4.70 3.97 4.20 2.22 4.71 4.93 4.20 4.65 2.25 3.58 3.59	2.65 4.84 4.87 4.29 4.43 2.79 5.31 5.16 4.44 4.80 2.61 3.85 4.01	2.69 5.04 5.05 4.32 3.66 4.73 2.80 5.37 5.32 4.55 3.91 5.01	2.53 4.74 4.93 4.20 3.57 <b>4.65</b> 2.53 5.06 5.07 4.47 <b>4.87</b> 2.53 3.73 3.80	2.86 5.34 5.17 4.43 3.75 <b>4.80</b> 3.07 5.68 5.57 4.66 4.05 <b>5.15</b>

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 31 Best forced vital capacity (FVC) in the household population, by age and sex, Canada, 2009 to 2011

					Best for	ced vital c	apacity (FVC)					
	Me	ean		5th per	rcentile		10th pe	rcentile	ile 25th per		rcentile	
	Estimate	Confid- inter		Estimate	Confid		Estimate	timate Confidence interval		Estimate	Confide inter	
	_		То	•	From	То	•	From	То	,	From	To
						litres						
Both sexes												
Age 6 to 11	2.17	2.08	2.25	1.35	1.23	1.46	1.53	1.43	1.63	1.77	1.66	1.88
Age 12 to 19	4.12	3.98	4.26	2.61	2.46	2.75	2.87	2.72	3.02	3.34	3.18	3.51
Age 20 to 39	4.56	4.41	4.71	2.88	2.54	3.22	3.35	3.08	3.61	3.74	3.54	3.93
Age 40 to 59	4.03	3.91	4.14	2.60	2.36	2.84	2.91	2.70	3.12	3.31	3.20	3.43
Age 60 to 79 Age 6 to 79	3.29 <b>3.95</b>	3.22 <b>3.86</b>	3.36 <b>4.04</b>	2.04 <b>2.14</b>	1.96 <b>2.07</b>	2.13 <b>2.21</b>	2.24 <b>2.47</b>	2.14 <b>2.39</b>	2.35 <b>2.55</b>	2.61 <b>3.13</b>	2.52 <b>3.04</b>	2.71 <b>3.23</b>
Males												
Age 6 to 11	2.24	2.11	2.36	1.40	1.15	1.65	1.58	1.39	1.76	1.83	1.66	2.00
Age 12 to 19	4.65	4.45	4.84	2.62	2.20	3.03	3.00	2.66	3.34	3.75	3.46	4.04
Age 20 to 39	5.30	5.15	5.45	3.81	3.44	4.18	4.29	4.02	4.56	4.78	4.57	5.00
Age 40 to 59	4.68	4.54	4.83	3.41	3.25	3.56	3.59	3.20	3.98	4.13	3.89	4.37
Age 60 to 79 Age 6 to 79	3.93 <b>4.58</b>	3.84 <b>4.47</b>	4.02 <b>4.68</b>	2.69 <b>2.39</b>	2.57 <b>2.27</b>	2.80 <b>2.50</b>	2.91 <b>3.03</b>	2.74 <b>2.88</b>	3.08 <b>3.18</b>	3.39 <b>3.89</b>	3.23 <b>3.78</b>	3.56 <b>4.00</b>
•	4.36	4.47	4.00	2.39	2.21	2.50	3.03	2.00	3.10	3.09	3.76	4.00
Females Age 6 to 11	2.09	2.01	2.18	1.35	1.27	1.42	1.51	1.43	1.59	1.70	1.60	1.81
Age 12 to 19	3.59	3.44	3.73	2.61	2.45	2.76	2.81	2.63	2.99	3.12	2.91	3.33
Age 20 to 39	3.81	3.63	3.99	2.70	2.48	2.92	2.88	2.55	3.22	3.43	3.24	3.62
Age 40 to 59	3.39	3.28	3.50	2.38	2.24	2.53	2.61	2.35	2.87	3.05	2.93	3.17
Age 60 to 79	2.73	2.65	2.81	1.90	1.75	2.05	2.08	1.98	2.17	2.35	2.25	2.44
Age 6 to 79	3.33	3.24	3.42	2.01	1.92	2.09	2.32	2.26	2.38	2.80	2.67	2.92
					Best for	ced vital c	apacity (FVC)					
	50th pe	ercentile		75th pe	rcentile		90th pe	ercentile		95th pe	rcentile	
	Estimate	Confid		Estimate	Confid		Estimate	Confid		Estimate	Confide inter	
		From	То	•	From	То	•	From	То	•	From	To
						litres						
Both sexes												
Age 6 to 11	2.13	2.00	2.26	2.50	2.39	2.60	2.90	2.76	3.04	3.10	2.99	3.21
Age 12 to 19	3.91	3.77	4.05	4.80	4.59	5.02	5.69	5.40	5.98	6.03	5.84	6.22
Age 20 to 39	4.50	4.34	4.66	5.38	5.19	5.56	5.93	5.75	6.11	6.33	6.08	6.59
Age 40 to 59 Age 60 to 79	3.91 3.17	3.74 3.09	4.07 3.24	4.74 3.88	4.54 3.79	4.94 3.97	5.30 4.50	5.15 4.35	5.46 4.65	5.64 4.97	5.51 4.85	5.77 5.09
Age 6 to 79	3.87	3.75	3.24	4.77	4.65	4.89	5.52	5.42	5.63	5.91	5.78	6.05
Males												
Age 6 to 11	2.23	2.06	2.39	2.58	2.45	2.71	3.00	2.79	3.20	3.16	2.94	3.38
Age 12 to 19	4.79	4.49	5.09	5.54	5.27	5.82	6.03	5.85	6.21	6.39	6.19	6.60
Age 20 to 39	5.36	5.15	5.57	5.80	5.63	5.97	6.33	6.07	6.58	6.70	6.56	6.84
Age 40 to 59	4.72	4.50	4.95	5.18	5.04	5.32	5.64	5.50	5.78	5.90	5.58	6.22
Age 60 to 79 Age 6 to 79	3.92 <b>4.72</b>	3.81 <b>4.57</b>	4.04 <b>4.86</b>	4.43 <b>5.38</b>	4.34 <b>5.26</b>	4.51 <b>5.50</b>	4.97 <b>5.92</b>	4.89 <b>5.78</b>	5.06 <b>6.05</b>	5.20 <b>6.25</b>	5.09 <b>6.07</b>	5.32 <b>6.43</b>
_	4.72	4.57	4.00	3.30	3.20	3.30	3.32	3.76	0.03	0.23	0.07	0.43
Females Age 6 to 11	2.02	1.88	2.17	2.42	2.31	2.52	2.80	2.63	2.97	2.99	2.87	3.10
Age 12 to 19	3.55	3.38	3.73	3.98	3.83	4.13	4.41	4.23	4.58	4.62	4.45	4.79
Age 20 to 39	3.79	3.57	4.01	4.20	4.04	4.37	4.56	4.38	4.75	4.92	4.51	5.33
Age 40 to 59	3.35	3.22	3.48	3.74	3.58	3.90	4.15	3.99	4.31	4.39	4.22	4.55
Age 60 to 79	2.70	2.59	2.81	3.09	3.02	3.17	3.46	3.27	3.65	3.63	3.45	3.81
A 0 1 - 70	2.20	3.25	0.40	3.86	3.73	0.00		4 4 7	4 45	4.55	4 45	4.00
Age 6 to 79	3.36	3.25	3.46	3.00	3.73	3.99	4.31	4.17	4.45	4.55	4.45	4.66

Note(s): Total household population aged 6 to 79, except those meeting the exclusion criteria (see the Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2).

Source(s): Canadian Health Measures Survey, Cycle 2.

Table 32 Chronic obstructive pulmonary disease (COPD) in the household population aged 35 to 79, by age and sex, Canada, 2009 to 2011

·		Chronic Obstructive Pulmonary Disease (COPD)								
	Measured airflow obstructi	ion consistent wit	h COPD	Absence of COPD base	Absence of COPD based on measured airflow					
	Estimate	Confidence in	nterval	Estimate	Confidence i	nterval				
		То	From		То	From				
			perce	nt						
Both sexes Age 35 to 59 Age 60 to 79 Age 35 to 79	9.9 18.7 <b>12.5</b>	7.3 15.9 <b>10.5</b>	13.5 21.9 <b>14.9</b>	90.1 81.3 <b>87.5</b>	86.5 78.1 <b>85.1</b>	92.7 84.1 <b>89.5</b>				
Males Age 35 to 59 Age 60 to 79 Age 35 to 79	11.5 <sup>E</sup> 20.7 <b>14.1</b>	7.5 16.4 <b>11.0</b>	17.2 25.8 <b>17.9</b>	88.5 79.3 <b>85.9</b>	82.8 74.2 <b>82.1</b>	92.5 83.6 <b>89.0</b>				
Females Age 35 to 59 Age 60 to 79 Age 35 to 79	8.4 E 17.0 <b>11.0</b>	5.5 14.1 <b>8.6</b>	12.6 20.3 <b>14.0</b>	91.6 83.0 <b>89.0</b>	87.4 79.7 <b>86.0</b>	94.5 85.9 <b>91.4</b>				

Note(s): Airflow obstruction consistent with COPD is characterized by a forced expiratory volume in one second (FEV<sub>1</sub>), forced vital capacity (FVC) ratio of less than 70% of the predicted value based on age, sex, height and racial background. Total household population aged 35 to 79, except those meeting the exclusion criteria (see the *Canadian Health Measures Survey (CHMS) Data User Guide: Cycle 2*).

## **Appendix I**

## **Concordance Table**

## **CHMS** Concordance Table for Cycles 1 and 2

Comparability Between Cycles	Cycle 1 Table #	Cycle 1 Table Topic	Cycle 2 Table #	Cycle 2 Table Topic
Comparable	1	Average resting diastolic blood pressure	1	Average resting diastolic blood pressure
Comparable	2	Average resting systolic blood pressure	2	Average resting systolic blood pressure
Comparable	3	Average resting heart rate	3	Average resting heart rate
Comparable	4	Blood pressure norms	4	Blood pressure norms
Hypertensive measurement replaces self-reported diagnosis of hypertension in cycle 2	5	Self-reported being diagnosed with hypertension or taking hypertension medication	5	Self-reported taking hypertension medication or had a hypertensive blood pressure measurement
Comparable	6	Total grip strength	6	Total grip strength
Comparable	7	Grip strength norms	7	Grip strength norms
6 to 7 year olds excl. from cycle 2 (quality concerns)	8	Number of partial curl-ups completed	8	Number of partial curl-ups completed
Comparable	9	Partial curl-up norms	9	Partial curl-up norms
Comparable	10	Back fitness norms	10	Back fitness norms
Comparable	11	Sit and reach measure completed	11	Sit and reach measure completed
Comparable	12	Sit and reach norms	12	Sit and reach norms
Comparable	13	Musculoskeletal fitness norms	13	Musculoskeletal fitness norms
Comparable	14	Aerobic fitness norms	14	Aerobic fitness norms
Comparable + 3 to 5 year olds added	15	Measured waist circumference - World Health Organization (WHO) protocol	17	Measured waist circumference - World Health Organization (WHO) protocol
New in cycle 2			16	Measured neck circumference
Comparable + 3 to 5 year olds added	16	Measured hip circumference	19	Measured hip circumference
New in cycle 2			18	Measured waist circumference - National Institutes of Health (NIH) protocol
Comparable + 3 to 5 year olds added	17	Measured waist-to-hip ratio	20	Measured waist-to-hip ratio
Table not produced for cycle 2	18	Body mass index less than 30 kg/m, by the average <sup>2</sup> biceps skinfold		
Table not produced for cycle 2	19	Body mass index less than 30 kg/m, by the average <sup>2</sup> triceps skinfold		
Table not produced for cycle 2	20	Body mass index less than 30 kg/m, by the average <sup>2</sup> subscapular skinfold		
Table not produced for cycle 2	21	Body mass index less than 30 kg/m, by average <sup>2</sup> iliac crest skinfold		
Table not produced for cycle 2	22	Body mass index less than 30 kg/m, by the average <sup>2</sup> medial calf skinfold		
Comparable + 3 to 5 year olds added	23	Body mass index less than 30 kg/m, by the sum of the $^2$ five skinfolds	21	Body mass index less than 30 kg/m, by the sum of the $^2$ five skinfolds

### - continued

### **CHMS Concordance Table for Cycles 1 and 2**

Comparability Between Cycles	Cycle 1 Table #	Cycle 1 Table Topic	Cycle 2 Table #	Cycle 2 Table Topic
Table not produced for cycle 2	24	Self-reported weight		
Table not produced for cycle 2	25	Self-reported height		
Table not produced for cycle 2	26	Body mass index norms (ages 6 to 17) based on self-reported inputs—Center for Disease Control system		
Table not produced for cycle 2	27	Body mass index norms (ages 6 to 17) based on self-reported inputs—Cole system		
Table not produced for cycle 2	28	Body mass index norms (ages 18 to 79) based on self-reported inputs		
Table not produced for cycle 2	29	Measured sitting height		
Comparable + 3 to 5 year olds added	30	Measured standing height	22	Measured standing height
Comparable + 3 to 5 year olds added	31	Measured weight	23	Measured weight
Comparable + 3 to 5 year olds added	32	Measured body mass index	24	Measured body mass index
New in cycle 2			25	Body mass index norms (ages 5 to 18) based on direct measures—World Health Organization (WHO) system
Comparable + 3 to 5 year olds added	33	Body mass index norms (ages 6 to 17) based on measured inputs—Center for Disease Control system	26	Body mass index norms (ages 3 to 17) based on direct measures—Center for Disease Control (CDC) system
Comparable + 3 to 5 year olds added	34	Body mass index norms (ages 6 to 17) based on measured inputs—Cole system	27	Body mass index norms (ages 3 to 17) based on direct measures—Cole system
Comparable	35	Body mass index norms (ages 18 to 79) based on measured inputs	28	Body mass index norms (ages 18 to 79) based on direct measures
6 to 7 year olds excl. from cycle 2 (quality concerns)	36	Mean predicted maximal aerobic power	15	Mean predicted maximal aerobic power
Comparable	37	Ratio of the best forced expiratory volume in one second to forced vital capacity (FEV <sub>1</sub> /FVC)	29	Ratio of the best forced expiratory volume in one second to forced vital capacity (FEV <sub>1</sub> /FVC)
Comparable	38	Best forced expiratory volume in one second (FEV <sub>1</sub> )	30	Best forced expiratory volume in one second (FEV <sub>1</sub> )
Comparable	39	Best forced vital capacity (FVC)	31	Best forced vital capacity (FVC)
New in cycle 2			32	Chronic obstructive pulmonary disease (COPD) (ages 35 to 79)
Content not collected in cycle 2	40	Dental status		

Note(s): All tables provide a distribution of the household population by age and sex for Canada for the particular topic indicated.

Data collection occurred from 2007 to 2009 for cycle 1 and from 2009 to 2011 for Cycle 2.

A blank cell in the table indicates a situation that is not applicable.