

Canadian Community Health Survey (CCHS)

Cycle 2.2 (Nutrition) 2004

Public Use Microdata File (PUMF)

Derived and Grouped Variable Specifications

Statistics Canada

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Table of Contents

GEOGRAPHIC VARIABLE (1 DV)	1
1) HEALTH REGIONS	1
SAMPLE VARIABLE (1 DV)	2
1) SEASON	2
ADMINISTRATION (2 DV)	3
1) REFERENCE DAY – FIRST 24-HOUR DIETARY RECALL INTERVIEW	3
2) WEEKEND REFERENCE DAY – FIRST 24-HOUR DIETARY RECALL INTERVIEW	3
DWELLING AND HOUSEHOLD RECORD VARIABLES (9 DVS)	4
1) AGE – GROUPED	4
2) AGE AND SEX REFERENCE GROUPINGS - FOR DIETARY REFERENCE INTAKES (DRIS).....	4
3) MARITAL STATUS – GROUPED	5
4) HOUSEHOLD SIZE - GROUPED.....	5
5) NUMBER OF PERSONS IN HOUSEHOLD WITH AGE LESS THAN 12 – GROUPED	5
6) NUMBER OF PERSONS IN HOUSEHOLD WITH AGE 5 OR LESS – GROUPED.....	6
7) NUMBER OF PERSONS IN HOUSEHOLD WITH AGE 6 TO 11 – GROUPED	6
8) LIVING/FAMILY ARRANGEMENT OF SELECTED RESPONDENT – GROUPED.....	7
9) DWELLING – NUMBER OF BEDROOMS – GROUPED.....	9
GENERAL HEALTH (2 DVS)	10
1) SELF-RATED HEALTH (FORMERLY HEALTH DESCRIPTION INDEX)	10
2) SELF-RATED MENTAL HEALTH.....	10
PHYSICAL ACTIVITIES (6 DVS)	11
1) DAILY ENERGY EXPENDITURE	11
2) PARTICIPANT IN LEISURE PHYSICAL ACTIVITY	17
3) AVERAGE MONTHLY FREQUENCY OF PHYSICAL ACTIVITY LASTING OVER 15 MINUTES	18
4) FREQUENCY OF ALL PHYSICAL ACTIVITY LASTING OVER 15 MINUTES	19
5) PARTICIPANT IN DAILY PHYSICAL ACTIVITY LASTING OVER 15 MINUTES	20
6) PHYSICAL ACTIVITY INDEX	20
SEDENTARY ACTIVITIES (2 DVS)	21
1) TOTAL NUMBER OF HOURS PER WEEK SPENT IN SEDENTARY ACTIVITIES (INCLUDING READING).....	21
2) TOTAL NUMBER OF HOURS PER WEEK SPENT IN SEDENTARY ACTIVITIES (EXCLUDING READING)	22
CHILDREN’S PHYSICAL ACTIVITY (2 DVS)	23
1) TOTAL NUMBER OF HOURS PER WEEK PARTICIPATED IN PHYSICAL ACTIVITIES.....	23
2) TOTAL NUMBER OF HOURS PER DAY SPENT IN SEDENTARY ACTIVITIES	24
HEIGHT, WEIGHT, AND BODY MASS INDEX - SELF REPORTED (5 DVS)	25
1) HEIGHT (METRES) – SELF-REPORTED, GROUPED	25
2) WEIGHT (KILOGRAMS) – SELF-REPORTED, GROUPED	30
3) BODY MASS INDEX (BMI) – SELF-REPORTED, GROUPED.....	31
4) BMI CLASSIFICATION FOR ADULTS AGED 18 AND OVER (SELF-REPORTED) – INTERNATIONAL STANDARD, GROUPED.....	34
5) BMI CLASSIFICATION FOR CHILDREN AGED 2 TO 17 (SELF-REPORTED) – COLE CLASSIFICATION SYSTEM	35
HEIGHT, WEIGHT, AND BODY MASS INDEX - MEASURED (6 DVS)	40
1) HEIGHT (METRES) – MEASURED, GROUPED.....	40
2) WEIGHT (KILOGRAMS) – MEASURED, GROUPED.....	41
3) REASONS FOR NOT CALCULATING BMI.....	43

4)	BODY MASS INDEX (BMI) – MEASURED, GROUPE	44
5)	BMI CLASSIFICATION FOR ADULTS AGED 18 AND OVER (MEASURED, GROUPE) - INTERNATIONAL STANDARD	46
6)	BMI CLASSIFICATION FOR CHILDREN AGED 2 TO 17 (MEASURED) - COLE CLASSIFICATION SYSTEM	47
FRUIT AND VEGETABLE CONSUMPTION (8 DVS)		53
1)	DAILY CONSUMPTION – FRUIT JUICE	53
2)	DAILY CONSUMPTION – FRUIT	53
3)	DAILY CONSUMPTION – GREEN SALAD	54
4)	DAILY CONSUMPTION – POTATOES	54
5)	DAILY CONSUMPTION – CARROTS	55
6)	DAILY CONSUMPTION – OTHER VEGETABLES	55
7)	DAILY CONSUMPTION – TOTAL FRUITS AND VEGETABLES	56
8)	GROUPING OF DAILY CONSUMPTION – TOTAL FRUIT AND VEGETABLE	56
CHRONIC CONDITIONS (2 DVS)		58
1)	DIABETES – AGE FIRST DIAGNOSED, GROUPE	58
2)	HAS A CHRONIC CONDITION	58
SMOKING (2 DVS)		60
1)	TYPE OF SMOKER	60
2)	NUMBER OF YEARS SINCE STOPPING SMOKING COMPLETELY	60
FOOD SECURITY (1 DV)		62
1)	HOUSEHOLD FOOD SECURITY STATUS	62
SOCIO-DEMOGRAPHIC CHARACTERISTICS (5 DVS)		64
1)	COUNTRY OF BIRTH – GROUPE	64
2)	IMMIGRATION FLAG	64
3)	LENGTH OF TIME IN CANADA SINCE IMMIGRATION – GROUPE	64
4)	LANGUAGE(S) IN WHICH RESPONDENT CAN CONVERSE – GROUPE	65
5)	CULTURAL OR RACIAL ORIGIN – GROUPE	65
EDUCATION VARIABLES (2 DVS)		67
1)	HIGHEST LEVEL OF EDUCATION – RESPONDENT, 4 LEVELS	67
2)	HIGHEST LEVEL OF EDUCATION – HOUSEHOLD, 4 LEVELS	67
LABOUR FORCE (8 DVS)		68
1)	WORKING STATUS LAST WEEK (SHORT FORM)	68
2)	WORKING STATUS LAST WEEK (LONG FORM)	68
3)	MAIN REASON FOR NOT WORKING LAST WEEK – GROUPE	68
4)	MULTIPLE JOB STATUS	69
5)	TOTAL USUAL HOURS WORKED PER WEEK	70
6)	FULL-TIME/ PART-TIME WORKING STATUS (FOR TOTAL USUAL HOURS)	70
7)	JOB STATUS OVER PAST YEAR – GROUPE	70
8)	STUDENT WORKING STATUS	71
INCOME (6 DVS)		72
1)	TOTAL HOUSEHOLD INCOME – MAIN SOURCE – GROUPE	72
2)	TOTAL HOUSEHOLD INCOME – 2 CATEGORIES	72
3)	TOTAL HOUSEHOLD INCOME – 4 CATEGORIES	73
4)	TOTAL HOUSEHOLD INCOME – 5 CATEGORIES	73
5)	TOTAL HOUSEHOLD INCOME – ALL SOURCES, GROUPE	74
6)	PERSONAL INCOME - ALL SOURCES – GROUPE	75

Geographic Variable (1 DV)

1) Health regions

Variable name: GEODDPMF

Based on: GEODDHR4

Description: This variable is a 5-digit number that identifies the sub-provincial health areas. It is based on the 4-digit health regions specified by the Provincial Ministries of Health. This reconstruction is as follows:

- positions 1-2 (first two positions of GEODDHR4), representing the province;
- position 3 (value of "9");
- positions 4-5 (3rd, 4th position of GEODDHR4), representing the sub-provincial region (in provinces where no sub-provincial regions are specified, all provinces except Ontario and Manitoba, these positions contain "01").

Note (1): The variable GEODDHR4 is the health region based on GEODDPC (postal code) and is derived using the information available on the survey frame at the time of sampling and the geographic information provided by the respondent. GEODDHR4 and GEODDPC are not included in the Public Use Microdata File.

Note (2): In order to ensure regions meet the minimum population size of about 70,000, the following regions have been collapsed:

Value of GEODDPMF	Conditions	Explanation
46901	(GEODDHR4 = 4601, 4602)	Group: Brandon Regional Health Authority Assiniboine Regional Health Authority North Eastman Regional Health Authority South Eastman Regional Health Authority Parkland Regional Health Authority Norman Regional Health Authority Burntwood Regional Health Authority Churchill Regional Health Authority

Sample Variable (1 DV)

1) Season

Variable name: SAMDDQTR

Based on: ADMD_M1

Description: This variable indicates the quarter of the year during which the first interview took place.

Value of SAMDDQTR	Conditions	Explanation
1	(ADMD_M1 = 1, 2, 3)	Winter - Interview took place between January 1 and March 31
2	(ADMD_M1 = 4, 5, 6)	Spring - Interview took place between April 1 and June 30
3	(ADMD_M1 = 7, 8, 9)	Summer - Interview took place between July 1 and September 30
4	(ADMD_M1 = 10, 11, 12)	Fall - Interview took place between October 1 and December 31

Administration (2 DV)

1) Reference day – first 24-hour dietary recall interview

Variable name: ADMDDD1

Based on: ADMD_D1, ADMD_M1, ADMD_Y1

Description: During the first 24-hour dietary recall interview, respondents were asked about all food consumed during the previous 24-hour period. That is, if the interview was conducted on Monday, the respondent was asked what he/she ate or drank on Sunday, from midnight to midnight. This variable indicates the day of the week when the food was consumed.

Value of ADMDDD1	Condition(s)	Description
1	ADMD_D1, ADMD_M1, ADMD_Y1 = Monday	Sunday
2	ADMD_D1, ADMD_M1, ADMD_Y1 = Tuesday	Monday
3	ADMD_D1, ADMD_M1, ADMD_Y1 = Wednesday	Tuesday
4	ADMD_D1, ADMD_M1, ADMD_Y1 = Thursday	Wednesday
5	ADMD_D1, ADMD_M1, ADMD_Y1 = Friday	Thursday
6	ADMD_D1, ADMD_M1, ADMD_Y1 = Saturday	Friday
7	ADMD_D1, ADMD_M1, ADMD_Y1 = Sunday	Saturday

2) Weekend reference day – first 24-hour dietary recall interview

Variable name: ADMDFW1

Based on: ADMDDD1

Description: This variable indicates whether or not the nutrition information reported - during the first 24-hour dietary recall interview - was collected for foods consumed during the weekend.

Note: Weekend is defined as Friday, Saturday, and Sunday.

Value of ADMDFW1	Condition(s)	Description
9 (NS)	ADMDDD1 = NS	Required question was not answered
1	(ADMDDD1 = 1, 6, 7)	Food consumed during weekend (first dietary recall interview)
2	2 <= ADMDDD1 <= 5	Food consumed during weekday (first dietary recall interview)

Dwelling and Household Record Variables (9 DVs)

1) Age – grouped

Variable name: DHHDGAGE

Based on: DHHD_AGE

Description: This variable indicates the age of the selected respondent using groupings which, for adults, are at a more detailed level than the variable DHHDDDR1.

Value of DHHDGAGE	Condition(s)	Description
1	DHHD_AGE < 1	Age under 1
2	1 <= DHHD_AGE <= 3	Age between 1 and 3
3	4 <= DHHD_AGE <= 8	Age between 4 and 8
4	9 <= DHHD_AGE <= 13	Age between 9 and 13
5	14 <= DHHD_AGE <= 18	Age between 14 and 18
6	19 <= DHHD_AGE <= 24	Age between 19 and 24
7	25 <= DHHD_AGE <= 30	Age between 25 and 30
8	31 <= DHHD_AGE <= 35	Age between 31 and 35
9	36 <= DHHD_AGE <= 40	Age between 36 and 40
10	41 <= DHHD_AGE <= 45	Age between 41 and 45
11	46 <= DHHD_AGE <= 50	Age between 46 and 50
12	51 <= DHHD_AGE <= 55	Age between 51 and 55
13	56 <= DHHD_AGE <= 60	Age between 56 and 60
14	61 <= DHHD_AGE <= 65	Age between 61 and 65
15	66 <= DHHD_AGE <= 70	Age between 66 and 70
16	DHHD_AGE >= 71	Age 71 and older

2) Age and sex reference groupings - for Dietary Reference Intakes (DRIs)

Variable name: DHHDDDR1

Based on: DHHD_AGE, DHHD_SEX

Description: This variable indicates the age and sex of the selected respondent according to groupings to be used for referencing the Dietary Reference Intakes (DRIs). DRIs are a set of scientifically based nutrient reference values to be used for planning and assessing the nutrient intakes of individuals and population groups. DRI values vary for men and women and for different age groups.

Note: More information about DRI definitions is available at website of Health Canada - Office of Nutrition Policy and Promotion (http://www.hc-sc.gc.ca/fn-an/nutrition/reference/index_e.html).

Value of DHHDDDR1	Condition(s)	Description
1	DHHD_AGE < 1	Age under 1
2	1 <= DHHD_AGE <= 3	Age between 1 and 3
3	4 <= DHHD_AGE <= 8	Age between 4 and 8
4	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13	Male, age between 9 and 13
5	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13	Female, age between 9 and 13
6	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18	Male, age between 14 and 18
7	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18	Female, age between 14 and 18
8	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 30	Male, age between 19 and 30
9	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 30	Female, age between 19 and 30
10	DHHD_SEX = 1 and 31 <= DHHD_AGE <= 50	Male, age between 31 and 50

11	DHHD_SEX = 2 and 31 <= DHHD_AGE <= 50	Female, age between 31 and 50
12	DHHD_SEX = 1 and 51 <= DHHD_AGE <= 70	Male, age between 51 and 70
13	DHHD_SEX = 2 and 51 <= DHHD_AGE <= 70	Female, age between 51 and 70
14	DHHD_SEX = 1 and DHHD_AGE >= 71	Male, age 71 and older
15	DHHD_SEX = 2 and DHHD_AGE >= 71	Female, age 71 and older

3) Marital status – grouped

Variable name: DHHDGMS

Based on: DHHD_MS

Description: This variable indicates the marital status for the selected respondent.

Value of DHHDGMS	Condition(s)	Description
9 (NS)	DHHD_MS = (DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	DHHD_MS = 1	Married
2	DHHD_MS = 2	Common-law
3	DHHD_MS = 3, 4, 5	Widowed/Divorced/Separated
4	DHHD_MS = 6	Single

4) Household size - grouped

Variable name: DHHDGHSZ

Based on: SAMPLEID, PERSONID

Description: This variable indicates the number of people living within a household.

Note: This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs within each SAMPLEID. This produces the variable DHHDDHSZ (not included in the Public Use Microdata File) with values ranging from 1 to 40.

Value of DHHDGHSZ	Condition(s)	Explanation
1	DHHDDHSZ = 1	Exact number of persons living in household
2	DHHDDHSZ = 2	
3	DHHDDHSZ = 3	
4	DHHDDHSZ = 4	
5	DHHDDHSZ >= 5	Grouped – 5 or more persons live in the household

5) Number of persons in household with age less than 12 – grouped

Variable name: DHHDDL12

Based on: PERSONID, DHHD_AGE

Description: This variable indicates the number of people living within the household whose age is less than 12 years old.

Value of DHHDDL12	Condition(s)	Explanation
0	DHHDDL12 = 0	No persons under 12 in the household
1	DHHDDL12 >= 1	One or more persons under 12 in the household

Note: The variable DHHDDL12 is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs that have a DHHD_AGE value less than 12 within each SAMPLEID. The variable is not included in the Public Use Microdata File. The value is calculated as:

Value of DHHDDL12	Condition(s)	Description
Total number of PERSONIDs within each SAMPLEID (values: 0-40)	DHHD_AGE < 12 (MEMBER file)	Number of persons under 12 in a household

6) Number of persons in household with age 5 or less – grouped

Variable name: DHHDGL5

Based on: PERSONID, DHHD_AGE

Description: This variable indicates the number of people living within the household whose age is less than 6 years old.

Value of DHHDGL5	Condition(s)	Explanation
0	DHHDDLE5 = 0	No persons aged 5 and under in the household
1	DHHDDLE5 >= 1	One or more persons under 5 in the household

Note: The variable DHHDDLE5 is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs that have a DHHD_AGE value of 5 and under within each SAMPLEID. The variable is not included in the Public Use Microdata File. The value is calculated as:

Value of DHHDDLE5	Condition(s)	Description
Total number of PERSONIDs within each SAMPLEID (values: 0-40)	DHHD_AGE <= 5 (Member file)	Number of persons under 5 in a household

7) Number of persons in household with age 6 to 11 – grouped

Variable name: DHHDG611

Based on: PERSONID, DHHD_AGE

Description: This variable indicates the number of people living within the household who are aged 6 to 11 years old.

Value of DHHDG611	Condition(s)	Explanation
0	DHHDD611 = 0	No persons aged 6 to 11 in the household
1	DHHDD611 => 1	One or more persons aged 6 to 11 in the household

Note: The variable DHHDD611 is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs that have a DHHD_AGE value from 6 to 11 within each SAMPLEID. The variable is not included in the Public Use Microdata File. The value is calculated as:

Value of DHHDD611	Condition(s)	Description
Total number of PERSONIDs within each SAMPLEID (values: 0-40)	(6 <= DHHD_AGE <= 11) (Member file)	Number of persons 6 to 11 in a household

8) Living/family arrangement of selected respondent – grouped

Variable name: DHHGLV

Based on: DHH_REL of selected respondent, DHHDDHSZ

Description: This variable identifies the family relationships between the selected respondent and the rest of the household.

Note: The necessary data are collected using a set of relationship codes that define a link between each pair of persons in a household. All relationships with the selected respondent within each sample (relationship of selected respondent to each other person within the household) are used in creating this variable.

Technical Specs: Some values have been grouped as specified below.

Temporary Reformats

Reformat		Explanation
RELATIONSHIP CODES: (*as on the relationship file)		Relationship codes used
CODES A0 B0 C0 D0 D1 D2 D3 E0 E1 E2 E3 F0 F1 F2 F3 F4 F5 G0 H0 I0 J0 K0 L0 Y1 Z0 ZZ, L8, L9	CATEGORY Husband/wife Common law partner Same-sex partner Parent, unspecified Birth father/mother Step father/mother Adoptive father/mother Child, unspecified Birth child Step child Adopted child Sister/brother, unspecified Full sister/brother Half sister/brother Step sister/brother Adopted sister/brother Foster sister/brother Foster parent Foster child Grandparent Grandchild In-law Other related Single Unrelated Not stated	
A1=(Parental) B1=(Child) C1=(Sibling) K1=(Other relative) L1= (Non-relative) X1=(Spouse/Partner) Z1=(Not stated)	D0, D1, D2, D3 E0, E1, E2, E3 F0, F1, F2, F3, F4 I0, J0, K0, L0 F5*, G0*, H0*, Z0 A0, B0, C0 ZZ, L8, L9	Temporary recodes to collapse relationships

* All Foster relationships (foster sister/brother, parent, or child) have been recoded into the “Non relative” category due to the temporary nature of the relationships.

Value of DHHDDLVG	Condition(s)	Explanation
99 (NS)	Any DHHDDL_REL = Z1	Not stated
1	DHHDDLHSZ = 1	Unattached individual living alone (Selected respondent lives alone. Household size = 1)
2	DHHDDLHSZ > 1 and (no DHHDDL_REL = X1) and (no DHHDDL_REL = A1) and (no DHHDDL_REL = B1)	Unattached individual living with others (Selected respondent lives with others. He/she cannot have a marital/common-law or parental relationship but other relationships such as siblings are allowed)
3	DHHDDLHSZ = 2 and DHHDDL_REL = X1	Spouse/partner living with spouse/partner (Selected respondent lives with spouse/partner only. Household size = 2)
4	DHHDDLHSZ > 2 and one DHHDDL_REL = X1 and all other DHHDDL_REL = A1	Parent living with spouse/partner and children (Selected respondent lives with spouse/partner and one or more children)
5	DHHDDLHSZ > 1 and all DHHDDL_REL = A1	Single parent living with children (Selected respondent lives with one or more children. No other relationships are permitted)
6	(DHHDDLHSZ = 2 and DHHDDL_REL = B1) or (DHHDDLHSZ > 2 and one DHHDDL_REL = B1 and all other DHHDDL_REL = C1)	Selected respondent is a child living with a single parent with or without siblings
7	(DHHDDLHSZ = 3 and all DHHDDL_REL = B1) or (DHHDDLHSZ > 3 and two DHHDDL_REL = B1 and all other DHHDDL_REL = C1)	Selected respondent is a child living with two parents with or without siblings.
8	Else	Other (Selected respondent lives in a household composition not classified above)

Note: The variable DHHDDLHSZ is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONIDs within each SAMPLEID. The variable is not included in the Public Use Microdata File. The value is calculated as:

Value of DHHDDLHSZ	Condition(s)	Description
Total number of PERSONIDs within each SAMPLEID (values: 1-40)	Sort the file (Member file) by SAMPLEID and PERSONID	Number of persons in a household

9) Dwelling – number of bedrooms – grouped

Variable name: DHHDGBED

Based on: DHHD_BED

Description: This variable indicates the number of bedrooms in the selected dwelling.

Value of DHHDGBED	Condition(s)	Description
9 (NS)	(DHHD_BED = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
0	DHHD_BED = 0	No bedrooms in the dwelling
1	DHHD_BED = 1	1 bedroom in the dwelling
2	DHHD_BED = 2	2 bedrooms in the dwelling
3	DHHD_BED = 3	3 bedrooms in the dwelling
4	DHHD_BED >= 4	4 or more bedrooms in the dwelling

General Health (2 DVs)

1) Self-rated health (formerly Health Description Index)

Variable name: GENDDHDI

Based on: GEND_01

Description: This variable indicates the respondent's health status based on his or her own judgement.

Note (1): Higher scores indicate positive self-reported health status.

Note (2): This variable applies to respondents aged 12 and over.

Value of GENDDHDI	Condition(s)	Description
6 (NA)	GENn_01 = NA	Population exclusion (respondents aged < 12)
9 (NS)	(GEND_01 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
0	GEND_01 = 5	Poor
1	GEND_01 = 4	Fair
2	GEND_01 = 3	Good
3	GEND_01 = 2	Very good
4	GEND_01 = 1	Excellent

2) Self-rated mental health

Variable name: GENDDMHI

Based on: GEND_02B

Description: This variable indicates the respondent's mental health status based on his or her own judgement.

Note (1): Higher scores indicate positive self-reported mental health status.

Note (2): This variable applies to respondents aged 12 and over.

Value of GENDDMHI	Condition(s)	Description
6 (NA)	GENn_01 = NA	Population exclusion (respondents aged < 12)
9 (NS)	(GEND_02B = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
0	GEND_02B = 5	Poor
1	GEND_02B = 4	Fair
2	GEND_02B = 3	Good
3	GEND_02B = 2	Very good
4	GEND_02B = 1	Excellent

Physical Activities (6 DVs)

1) Daily energy expenditure

Variable name: PACDDEE

Based on: PACD_1V, PACD_2A, PACD_2B, PACD_2C, PACD_2D, PACD_2E, PACD_2F, PACD_2G, PACD_2H, PACD_2I, PACD_2J, PACD_2K, PACD_2L, PACD_2M, PACD_2N, PACD_2O, PACD_2P, PACD_2Q, PACD_2R, PACD_2S, PACD_2T, PACD_2U, PACD_2W, PACD_2X, PACD_2Z, PACD_3A, PACD_3B, PACD_3C, PACD_3D, PACD_3E, PACD_3F, PACD_3G, PACD_3H, PACD_3I, PACD_3J, PACD_3K, PACD_3L, PACD_3M, PACD_3N, PACD_3O, PACD_3P, PACD_3Q, PACD_3R, PACD_3S, PACD_3T, PACD_3U, PACD_3W, PACD_3X, PACD_3Z

Description: This variable is a measure of the average daily energy expended during leisure time activities by the respondent in the past three months.

Note (1): This variable applies to respondents aged 12 and over.

Note (2): Energy Expenditure is calculated using the frequency and duration per session of the physical activity as well as the MET value of the activity. The MET is a value of metabolic energy cost expressed as a multiple of the resting metabolic rate. For example, an activity of 4 METS requires four times the amount of energy as compared to when the body is at rest.

$$EE \text{ (Energy Expenditure for each activity)} = (N \times D \times \text{METvalue}) / 365$$

Where:

N = the number of times a respondent engaged in an activity over a 12 month period

D = the average duration in hours of the activity

MET value = the energy cost of the activity expressed as kilocalories expended per kilogram of body weight per hour of activity (kcal/kg per hour)/365 (to convert yearly data into daily data)

MET values tend to be expressed in three intensity levels (i.e. low, medium, high). The CCHS questions did not ask the respondent to specify the intensity level of their activities. Therefore the MET values adopted correspond to the low intensity value of each activity. This approach is adopted from the Canadian Fitness and Lifestyle Research Institute because individuals tend to overestimate the intensity, frequency and duration of their activities.

Internet site: Canadian Fitness and Lifestyle Research Institute: www.cflri.ca; Center for Disease Control: www.cdc.gov/nccdphp/dnpa/physical/terms/index.htm

The MET values for the CCHS questions are:

Variable Name	Activity	MET Value (kcal/kg/hr)
PACDDEEA	WALKING FOR EXERCISE	3
PACDDEEB	GARDENING OR YARD WORK	3
PACDDEEC	SWIMMING	3
PACDDEED	BICYCLING	4
PACDDEEE	POPULAR OR SOCIAL DANCE	3
PACDDEEF	HOME EXERCISES	3
PACDDEEG	ICE HOCKEY	6
PACDDEEH	ICE SKATING	4
PACDDEEI	IN-LINE SKATING OR ROLLERBLADING	5
PACDDEEJ	JOGGING OR RUNNING*	9.5
PACDDEEK	GOLFING	4
PACDDEEL	EXERCISE CLASS OR AEROBICS	4
PACDDEEM	DOWNHILL SKIING OR SNOWBOARDING	4
PACDDEEN	BOWLING	2
PACDDEEO	BASEBALL OR SOFTBALL	3
PACDDEEP	TENNIS	4
PACDDEEQ	WEIGHT-TRAINING	3
PACDDEER	FISHING	3

Variable Name	Activity	MET Value (kcal/kg/hr)
PACDDEES	VOLLEYBALL	5
PACDDEET	BASKETBALL	6
PACDDEEZ	SOCCER	5
PACDDEEU	OTHER (U)*	4
PACDDEEW	OTHER (W)*	4
PACDDEEX	OTHER (X)*	4

* Jogging (MET value 7) and running (MET value 12) fall under one category. Therefore, the MET value for the combined activity is the average of their MET values (9.5). Since it is difficult to assign a MET value to the category “Other Activities”, the MET value used is the average of the listed activities except for the average value of jogging and running. Here, the average value of jogging and running is replaced by the value for jogging only. Some activities have MET values lower than the average, however, this approach is consistent with other studies, such as the Campbell’s Survey and the Ontario Health Survey (OHS).

Calculate EE values for each activity

WALKING FOR EXERCISE:

Value of PACDDEEA	Condition(s)	Description
0	PACD_3A = NA	Did not participate in activity
0	(PACD_3A = DK, R, NS)	Required question was not answered (don’t know, refusal, not stated)
$(\text{PACD_2A} \times 4 \times .2167 \times 3) / 365$	PACD_3A = 1	Calculate EE for < 15 min*
$(\text{PACD_2A} \times 4 \times .3833 \times 3) / 365$	PACD_3A = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2A} \times 4 \times .75 \times 3) / 365$	PACD_3A = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2A} \times 4 \times 1 \times 3) / 365$	PACD_3A = 4	Calculate EE for > 60 min*

GARDENING OR YARD WORK:

Value of PACDDEEB	Condition(s)	Description
0	PACD_3B = NA	Did not participate in activity
0	(PACD_3B = DK, R, NS)	Required question was not answered (don’t know, refusal, not stated)
$(\text{PACD_2B} \times 4 \times .2167 \times 3) / 365$	PACD_3B = 1	Calculate EE for < 15 min*
$(\text{PACD_2B} \times 4 \times .3833 \times 3) / 365$	PACD_3B = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2B} \times 4 \times .75 \times 3) / 365$	PACD_3B = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2B} \times 4 \times 1 \times 3) / 365$	PACD_3B = 4	Calculate EE for > 60 min*

SWIMMING:

Value of PACDDEEC	Condition(s)	Description
0	PACD_3C = NA	Did not participate in activity
0	(PACD_3C = DK, R, NS)	Required question was not answered (don’t know, refusal, not stated)
$(\text{PACD_2C} \times 4 \times .2167 \times 3) / 365$	PACD_3C = 1	Calculate EE for < 15 min*
$(\text{PACD_2C} \times 4 \times .3833 \times 3) / 365$	PACD_3C = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2C} \times 4 \times .75 \times 3) / 365$	PACD_3C = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2C} \times 4 \times 1 \times 3) / 365$	PACD_3C = 4	Calculate EE for > 60 min*

BICYCLING:

Value of PACDDEED	Condition(s)	Description
0	PACD_3D = NA	Did not participate in activity
0	(PACD_3D = DK, R, NS)	Required question was not answered (don’t know, refusal, not stated)
$(\text{PACD_2D} \times 4 \times .2167 \times 4) / 365$	PACD_3D = 1	Calculate EE for < 15 min*
$(\text{PACD_2D} \times 4 \times .3833 \times 4) / 365$	PACD_3D = 2	Calculate EE for 16 to 30 min*

$(\text{PACD_2D} \times 4 \times .75 \times 4) / 365$	PACD_3D = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2D} \times 4 \times 1 \times 4) / 365$	PACD_3D = 4	Calculate EE for > 60 min*

POPULAR OR SOCIAL DANCE:

Value of PACDDEEE	Condition(s)	Description
0	PACD_3E = NA	Did not participate in activity
0	(PACD_3E = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2E} \times 4 \times .2167 \times 3) / 365$	PACD_3E = 1	Calculate EE for < 15 min*
$(\text{PACD_2E} \times 4 \times .3833 \times 3) / 365$	PACD_3E = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2E} \times 4 \times .75 \times 3) / 365$	PACD_3E = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2E} \times 4 \times 1 \times 3) / 365$	PACD_3E = 4	Calculate EE for > 60 min*

HOME EXERCISES:

Value of PACDDEEF	Condition(s)	Description
0	PACD_3F = NA	Did not participate in activity
0	(PACD_3F = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2F} \times 4 \times .2167 \times 3) / 365$	PACD_3F = 1	Calculate EE for < 15 min*
$(\text{PACD_2F} \times 4 \times .3833 \times 3) / 365$	PACD_3F = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2F} \times 4 \times .75 \times 3) / 365$	PACD_3F = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2F} \times 4 \times 1 \times 3) / 365$	PACD_3F = 4	Calculate EE for > 60 min*

ICE HOCKEY:

Value of PACDDEEG	Condition(s)	Description
0	PACD_3G = NA	Did not participate in activity
0	(PACD_3G = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2G} \times 4 \times .2167 \times 6) / 365$	PACD_3G = 1	Calculate EE for < 15 min*
$(\text{PACD_2G} \times 4 \times .3833 \times 6) / 365$	PACD_3G = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2G} \times 4 \times .75 \times 6) / 365$	PACD_3G = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2G} \times 4 \times 1 \times 6) / 365$	PACD_3G = 4	Calculate EE for > 60 min*

ICE SKATING:

Value of PACDDEEH	Condition(s)	Description
0	PACD_3H = NA	Did not participate in activity
0	(PACD_3H = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2H} \times 4 \times .2167 \times 4) / 365$	PACD_3H = 1	Calculate EE for < 15 min*
$(\text{PACD_2H} \times 4 \times .3833 \times 4) / 365$	PACD_3H = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2H} \times 4 \times .75 \times 4) / 365$	PACD_3H = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2H} \times 4 \times 1 \times 4) / 365$	PACD_3H = 4	Calculate EE for > 60 min*

IN-LINE SKATING OR ROLLERBLADING:

Value of PACDDEEI	Condition(s)	Description
0	PACD_3I = NA	Did not participate in activity
0	(PACD_3I = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2I} \times 4 \times .2167 \times 5) / 365$	PACD_3I = 1	Calculate EE for < 15 min*
$(\text{PACD_2I} \times 4 \times .3833 \times 5) / 365$	PACD_3I = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2I} \times 4 \times .75 \times 5) / 365$	PACD_3I = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2I} \times 4 \times 1 \times 5) / 365$	PACD_3I = 4	Calculate EE for > 60 min*

JOGGING OR RUNNING:

Value of PACDDEEJ	Condition(s)	Description
0	PACD_3J = NA	Did not participate in activity
0	(PACD_3J = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2J} \times 4 \times .2167 \times 9.5) / 365$	PACD_3J = 1	Calculate EE for < 15 min*
$(\text{PACD_2J} \times 4 \times .3833 \times 9.5) / 365$	PACD_3J = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2J} \times 4 \times .75 \times 9.5) / 365$	PACD_3J = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2J} \times 4 \times 1 \times 9.5) / 365$	PACD_3J = 4	Calculate EE for > 60 min*

GOLFING:

Value of PACDDEEK	Condition(s)	Description
0	PACD_3K = NA	Did not participate in activity
0	(PACD_3K = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2K} \times 4 \times .2167 \times 4) / 365$	PACD_3K = 1	Calculate EE for < 15 min*
$(\text{PACD_2K} \times 4 \times .3833 \times 4) / 365$	PACD_3K = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2K} \times 4 \times .75 \times 4) / 365$	PACD_3K = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2K} \times 4 \times 1 \times 4) / 365$	PACD_3K = 4	Calculate EE for > 60 min*

EXERCISE CLASS OR AEROBICS:

Value of PACDDEEL	Condition(s)	Description
0	PACD_3L = NA	Did not participate in activity
0	(PACD_3L = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2L} \times 4 \times .2167 \times 4) / 365$	PACD_3L = 1	Calculate EE for < 15 min*
$(\text{PACD_2L} \times 4 \times .3833 \times 4) / 365$	PACD_3L = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2L} \times 4 \times .75 \times 4) / 365$	PACD_3L = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2L} \times 4 \times 1 \times 4) / 365$	PACD_3L = 4	Calculate EE for > 60 min*

DOWNHILL SKIING OR SNOWBOARDING:

Value of PACDDEEM	Condition(s)	Description
0	PACD_3M = NA	Did not participate in activity
0	(PACD_3M = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2M} \times 4 \times .2167 \times 4) / 365$	PACD_3M = 1	Calculate EE for < 15 min*
$(\text{PACD_2M} \times 4 \times .3833 \times 4) / 365$	PACD_3M = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2M} \times 4 \times .75 \times 4) / 365$	PACD_3M = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2M} \times 4 \times 1 \times 4) / 365$	PACD_3M = 4	Calculate EE for > 60 min*

BOWLING:

Value of PACDDEEN	Condition(s)	Description
0	PACD_3N = NA	Did not participate in activity
0	(PACD_3N = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2N} \times 4 \times .2167 \times 2) / 365$	PACD_3N = 1	Calculate EE for < 15 min*
$(\text{PACD_2N} \times 4 \times .3833 \times 2) / 365$	PACD_3N = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2N} \times 4 \times .75 \times 2) / 365$	PACD_3N = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2N} \times 4 \times 1 \times 2) / 365$	PACD_3N = 4	Calculate EE for > 60 min*

BASEBALL OR SOFTBALL:

Value of PACDDEEO	Condition(s)	Description
0	PACD_3O = NA	Did not participate in activity
0	(PACD_3O = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2O} \times 4 \times .2167 \times 3) / 365$	PACD_3O = 1	Calculate EE for < 15 min*
$(\text{PACD_2O} \times 4 \times .3833 \times 3) / 365$	PACD_3O = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2O} \times 4 \times .75 \times 3) / 365$	PACD_3O = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2O} \times 4 \times 1 \times 3) / 365$	PACD_3O = 4	Calculate EE for > 60 min*

TENNIS:

Value of PACDDEEP	Condition(s)	Description
0	PACD_3P = NA	Did not participate in activity
0	(PACD_3P = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2P} \times 4 \times .2167 \times 4) / 365$	PACD_3P = 1	Calculate EE for < 15 min*
$(\text{PACD_2P} \times 4 \times .3833 \times 4) / 365$	PACD_3P = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2P} \times 4 \times .75 \times 4) / 365$	PACD_3P = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2P} \times 4 \times 1 \times 4) / 365$	PACD_3P = 4	Calculate EE for > 60 min*

WEIGHT-TRAINING:

Value of PACDDEEQ	Condition(s)	Description
0	PACD_3Q = NA	Did not participate in activity
0	(PACD_3Q = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2Q} \times 4 \times .2167 \times 3) / 365$	PACD_3Q = 1	Calculate EE for < 15 min*
$(\text{PACD_2Q} \times 4 \times .3833 \times 3) / 365$	PACD_3Q = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2Q} \times 4 \times .75 \times 3) / 365$	PACD_3Q = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2Q} \times 4 \times 1 \times 3) / 365$	PACD_3Q = 4	Calculate EE for > 60 min*

FISHING:

Value of PACDDEER	Condition(s)	Description
0	PACD_3R = NA	Did not participate in activity
0	(PACD_3R = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2R} \times 4 \times .2167 \times 3) / 365$	PACD_3R = 1	Calculate EE for < 15 min*
$(\text{PACD_2R} \times 4 \times .3833 \times 3) / 365$	PACD_3R = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2R} \times 4 \times .75 \times 3) / 365$	PACD_3R = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2R} \times 4 \times 1 \times 3) / 365$	PACD_3R = 4	Calculate EE for > 60 min*

VOLLEYBALL:

Value of PACDDEES	Condition(s)	Description
0	PACD_3S = NA	Did not participate in activity
0	(PACD_3S = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2S} \times 4 \times .2167 \times 5) / 365$	PACD_3S = 1	Calculate EE for < 15 min*
$(\text{PACD_2S} \times 4 \times .3833 \times 5) / 365$	PACD_3S = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2S} \times 4 \times .75 \times 5) / 365$	PACD_3S = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2S} \times 4 \times 1 \times 5) / 365$	PACD_3S = 4	Calculate EE for > 60 min*

BASKETBALL:

Value of PACDDEET	Condition(s)	Description
0	PACD_3T = NA	Did not participate in activity
0	(PACD_3T = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2T} \times 4 \times .2167 \times 6) / 365$	PACD_3T = 1	Calculate EE for < 15 min*
$(\text{PACD_2T} \times 4 \times .3833 \times 6) / 365$	PACD_3T = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2T} \times 4 \times .75 \times 6) / 365$	PACD_3T = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2T} \times 4 \times 1 \times 6) / 365$	PACD_3T = 4	Calculate EE for > 60 min*

SOCCER (Z):

Value of PACDDEEZ	Condition(s)	Description
0	PACD_3Z = NA	Did not participate in activity
0	(PACD_3Z = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2Z} \times 4 \times .2167 \times 5) / 365$	PACD_3Z = 1	Calculate EE for < 15 min*
$(\text{PACD_2Z} \times 4 \times .3833 \times 5) / 365$	PACD_3Z = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2Z} \times 4 \times .75 \times 5) / 365$	PACD_3Z = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2Z} \times 4 \times 1 \times 5) / 365$	PACD_3Z = 4	Calculate EE for > 60 min*

OTHER (U):

Value of PACDDEEU	Condition(s)	Description
0	PACD_3U = NA	Did not participate in activity
0	(PACD_3U = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2U} \times 4 \times .2167 \times 4) / 365$	PACD_3U = 1	Calculate EE for < 15 min*
$(\text{PACD_2U} \times 4 \times .3833 \times 4) / 365$	PACD_3U = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2U} \times 4 \times .75 \times 4) / 365$	PACD_3U = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2U} \times 4 \times 1 \times 4) / 365$	PACD_3U = 4	Calculate EE for > 60 min*

OTHER (W):

Value of PACDDEEW	Condition(s)	Description
0	PACD_3W = NA	Did not participate in activity
0	(PACD_3W = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2W} \times 4 \times .2167 \times 4) / 365$	PACD_3W = 1	Calculate EE for < 15 min*
$(\text{PACD_2W} \times 4 \times .3833 \times 4) / 365$	PACD_3W = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2W} \times 4 \times .75 \times 4) / 365$	PACD_3W = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2W} \times 4 \times 1 \times 4) / 365$	PACD_3W = 4	Calculate EE for > 60 min*

OTHER (X):

Value of PACDDEEX	Condition(s)	Description
0	PACD_3X = NA	Did not participate in activity
0	(PACD_3X = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
$(\text{PACD_2X} \times 4 \times .2167 \times 4) / 365$	PACD_3X = 1	Calculate EE for < 15 min*
$(\text{PACD_2X} \times 4 \times .3833 \times 4) / 365$	PACD_3X = 2	Calculate EE for 16 to 30 min*
$(\text{PACD_2X} \times 4 \times .75 \times 4) / 365$	PACD_3X = 3	Calculate EE for 31 to 60 min*
$(\text{PACD_2X} \times 4 \times 1 \times 4) / 365$	PACD_3X = 4	Calculate EE for > 60 min*

* Times were assigned an average duration value for the calculation, as with NPHS:
(13 minutes or .2167 hour, 23 minutes or .3833 hour, 45 minutes or .75 hour, 60 minutes or 1 hour)

Beginning in CCHS cycle 2.1, the list of activities (PACD_1n) has changed slightly from previous CCHS cycles: The activity “Soccer” was asked explicitly in Cycle 2.1. For 1.1 and 1.2, this activity was part of the “Other” activities.

For NPHS, the list of activities has changed slightly since Cycle 1: “Skating” was changed to “Ice-skating” starting in Cycle 2. “In-line skating or roller-blading” was added starting in Cycle 3. “Yoga or tai-chi” was dropped after Cycle 1 and “Basketball” was added. “Cross-country skiing” was on the list for Cycles 1 and 2 only. “Soccer” is not asked on NPHS.

TOTAL:

Value of PACDDEE	Condition(s)	Description
99.6 (NA)	PACD_1V = NA	Population exclusion (respondents aged < 12)
99.9 (NS)	(PACD_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
0	PACD_1V = 1	No physical activity
PACDDEEA + PACDDEEB + PACDDEEC + PACDDEED + PACDDEEE + PACDDEEF + PACDDEEG + PACDDEEH + PACDDEEI + PACDDEEJ + PACDDEEK + PACDDEEL + PACDDEEM + PACDDEEN + PACDDEEO + PACDDEEP + PACDDEEQ + PACDDEER + PACDDEES + PACDDEET + PACDDEEZ + PACDDEEU + PACDDEEW + PACDDEEX (rounded to one decimal place) (min: 0.0; max: 99.5)	0 <= PACDDEEA < NA and 0 <= PACDDEEB < NA and 0 <= PACDDEEC < NA and 0 <= PACDDEED < NA and 0 <= PACDDEEE < NA and 0 <= PACDDEEF < NA and 0 <= PACDDEEG < NA and 0 <= PACDDEEH < NA and 0 <= PACDDEEI < NA and 0 <= PACDDEEJ < NA and 0 <= PACDDEEK < NA and 0 <= PACDDEEL < NA and 0 <= PACDDEEM < NA and 0 <= PACDDEEN < NA and 0 <= PACDDEEO < NA and 0 <= PACDDEEP < NA and 0 <= PACDDEEQ < NA and 0 <= PACDDEER < NA and 0 <= PACDDEES < NA and 0 <= PACDDEET < NA and 0 <= PACDDEEZ < NA and 0 <= PACDDEEU < NA and 0 <= PACDDEEW < NA and 0 <= PACDDEEX < NA	Total daily energy expenditure (kcal/kg/day)

2) Participant in leisure physical activity

Variable name: PACDFLEI

Based on: PACD_1V

Description: This variable indicates whether the respondent participated in any leisure physical activities in the three months prior to the interview.

Source: Ontario Health Survey

Note: This variable applies to respondents aged 12 and over.

Value of PACDFLEI	Condition(s)	Description
6 (NA)	PACD_1V = NA	Population exclusion (respondents aged < 12)
9 (NS)	(PACD_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
2	PACD_1V = 1	Does not participate in leisure physical activity
1	PACD_1V = 2	Participates in leisure physical activity

3) Average monthly frequency of physical activity lasting over 15 minutes

Variable name: PACDDFM

Based on: PACD_1V, PACD_2A, PACD_2B, PACD_2C, PACD_2D, PACD_2E, PACD_2F, PACD_2G, PACD_2H, PACD_2I, PACD_2J, PACD_2K, PACD_2L, PACD_2M, PACD_2N, PACD_2O, PACD_2P, PACD_2Q, PACD_2R, PACD_2S, PACD_2T, PACD_2Z, PACD_2U, PACD_2W, PACD_2X, PACD_3A, PACD_3B, PACD_3C, PACD_3D, PACD_3E, PACD_3F, PACD_3G, PACD_3H, PACD_3I, PACD_3J, PACD_3K, PACD_3L, PACD_3M, PACD_3N, PACD_3O, PACD_3P, PACD_3Q, PACD_3R, PACD_3S, PACD_3T, PACD_3Z, PACD_3U, PACD_3W, PACD_3X

Description: This variable measures the total number of times per month that respondents took part in a physical activity(ies) lasting more than 15 minutes.

Note (1): This variable applies to respondents aged 12 and over.

Note (2): The survey questions refer to “the past three months”. This variable calculates a one-month average by dividing the total reported frequency by three.

Source: Ontario Health Survey

Temporary reformat

Condition(s)	Action
If (PACD_3A = 1, NA, DK, R, NS) then PACDT2A = 0 If (PACD_3B = 1, NA, DK, R, NS) then PACDT2B = 0 If (PACD_3C = 1, NA, DK, R, NS) then PACDT2C = 0 If (PACD_3D = 1, NA, DK, R, NS) then PACDT2D = 0 If (PACD_3E = 1, NA, DK, R, NS) then PACDT2E = 0 If (PACD_3F = 1, NA, DK, R, NS) then PACDT2F = 0 If (PACD_3G = 1, NA, DK, R, NS) then PACDT2G = 0 If (PACD_3H = 1, NA, DK, R, NS) then PACDT2H = 0 If (PACD_3I = 1, NA, DK, R, NS) then PACDT2I = 0 If (PACD_3J = 1, NA, DK, R, NS) then PACDT2J = 0 If (PACD_3K = 1, NA, DK, R, NS) then PACDT2K = 0 If (PACD_3L = 1, NA, DK, R, NS) then PACDT2L = 0 If (PACD_3M = 1, NA, DK, R, NS) then PACDT2M = 0 If (PACD_3N = 1, NA, DK, R, NS) then PACDT2N = 0 If (PACD_3O = 1, NA, DK, R, NS) then PACDT2O = 0 If (PACD_3P = 1, NA, DK, R, NS) then PACDT2P = 0 If (PACD_3Q = 1, NA, DK, R, NS) then PACDT2Q = 0 If (PACD_3R = 1, NA, DK, R, NS) then PACDT2R = 0 If (PACD_3S = 1, NA, DK, R, NS) then PACDT2S = 0 If (PACD_3T = 1, NA, DK, R, NS) then PACDT2T = 0 If (PACD_3Z = 1, NA, DK, R, NS) then PACDT2Z = 0 If (PACD_3U = 1, NA, DK, R, NS) then PACDT2U = 0 If (PACD_3W = 1, NA, DK, R, NS) then PACDT2W = 0 If (PACD_3X = 1, NA, DK, R, NS) then PACDT2X = 0	Set all values for PACD_2n (number of times/3months respondents did physical activity) to 0 if PACD_3n is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)

Value of PACDDFM	Condition(s)	Description
996 (NA)	PACD_1V = NA	Population exclusion (respondents aged < 12)
999 (NS)	(PACD_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
0	PACD_1V=1	No physical activity
(PACDT2A + PACDT2B + PACDT2C + PACDT2D + PACDT2E + PACDT2F + PACDT2G + PACDT2H + PACDT2I + PACDT2J + PACDT2K + PACDT2L + PACDT2M + PACDT2N + PACDT2O + PACDT2P + PACDT2Q + PACDT2R + PACDT2S + PACDT2T + PACDT2Z + PACDT2U + PACDT2W + PACDT2X) / 3 (rounded to nearest integer) (min: 0; max: 995)	0 <= PACDT2A < NA and 0 <= PACDT2B < NA and 0 <= PACDT2C < NA and 0 <= PACDT2D < NA and 0 <= PACDT2E < NA and 0 <= PACDT2F < NA and 0 <= PACDT2G < NA and 0 <= PACDT2H < NA and 0 <= PACDT2I < NA and 0 <= PACDT2J < NA and 0 <= PACDT2K < NA and 0 <= PACDT2L < NA and 0 <= PACDT2M < NA and 0 <= PACDT2N < NA and 0 <= PACDT2O < NA and 0 <= PACDT2P < NA and 0 <= PACDT2Q < NA and 0 <= PACDT2R < NA and 0 <= PACDT2S < NA and 0 <= PACDT2T < NA and 0 <= PACDT2Z < NA and 0 <= PACDT2U < NA and 0 <= PACDT2W < NA and 0 <= PACDT2X < NA	Monthly frequency of all physical activity lasting over 15 minutes

4) Frequency of all physical activity lasting over 15 minutes

Variable name: PACDDFR

Based on: PACDDFM

Description: This variable classifies respondents according to their pattern, or regularity of physical activity lasting more than 15 minutes.

Note (1): This variable applies to respondents aged 12 and over.

Note (2): This variable uses values for the derived variable "Average monthly frequency of physical activity lasting over 15 minutes" (PACDDFM). The values for PACDDFR reflect a one-month average based on data reported for a three-month period.

Value of PACDDFR	Condition(s)	Description
6 (NA)	PACDDFM = NA	Population exclusion (respondents aged < 12)
9 (NS)	PACDDFM = NS	Required question was not answered (don't know, refusal, not stated)
1	12 <= PACDDFM < NA	Regular practice of activities
2	4 <= PACDDFM < 12	Occasional practice of activities
3	PACDDFM < 4	Infrequent practice of activities

5) Participant in daily physical activity lasting over 15 minutes

Variable name: PACDFD

Based on: PACDDFM

Description: This variable indicates whether the respondent participated daily in physical activity lasting over 15 minutes.

Note (1): This variable applies to respondents aged 12 and over.

Note (2): The variable is based on values for “Average monthly frequency of physical activity lasting over 15 minutes” (PACDDFM). Values for PACDDFM reflect a one-month average based on data reported for a three-month period.

Value of PACDFD	Condition(s)	Description
6 (NA)	PACDDFM = NA	Population exclusion (respondents aged < 12)
9 (NS)	PACDDFM = NS	Required question was not answered (don't know, refusal, not stated)
1	$30 \leq \text{PACDDFM} < \text{NA}$	Participates in daily physical activity
2	$\text{PACDDFM} < 30$	Does not participate in daily physical activity

6) Physical activity index

Variable name: PACDDPAI

Based on: PACDDEE

Description: This variable categorizes respondents as being “active”, “moderate”, or “inactive” based on the total daily Energy Expenditure values (kcal/kg/day) calculated for PACDDEE.

Note (1): This variable applies to respondents aged 12 and over.

Note (2): The Physical Activity Index follows the same criteria used to categorize individuals in the Ontario Health Survey (OHS) and in the Campbell's Survey on Well Being.

Internet site: Campbell Survey on Well-Being in Canada: www.cflri.ca/cflri/pa/surveys/88survey.html

Value of PACDDPAI	Condition(s)	Description
6 (NA)	PACDDEE = NA	Population exclusion (respondents aged < 12)
9 (NS)	PACDDEE = NS	Required question was not answered (don't know, refusal, not stated)
1	$3 \leq \text{PACDDEE} < \text{NA}$	Active
2	$1.5 \leq \text{PACDDEE} < 3.0$	Moderate
3	$0 \leq \text{PACDDEE} < 1.5$	Inactive

Sedentary Activities (2 DVs)

Temporary reformat:

Condition(s)	Description
If SACD_1 = 1 then SACDT1 = 0 If SACD_1 = 2 then SACDT1 = 0.5 If SACD_1 = 3 then SACDT1 = 1.5 If SACD_1 = 4 then SACDT1 = 4 If SACD_1 = 5 then SACDT1 = 8 If SACD_1 = 6 then SACDT1 = 12.5 If SACD_1 = 7 then SACDT1 = 17.5 If SACD_1 = 8 then SACDT1 = 20	Recode to midpoint of response ranges
If SACD_2 = 1 then SACDT2 = 0 If SACD_2 = 2 then SACDT2 = 0.5 If SACD_2 = 3 then SACDT2 = 1.5 If SACD_2 = 4 then SACDT2 = 4 If SACD_2 = 5 then SACDT2 = 8 If SACD_2 = 6 then SACDT2 = 12.5 If SACD_2 = 7 then SACDT2 = 17.5 If SACD_2 = 8 then SACDT2 = 20	Recode to midpoint of response ranges
If SACD_3 = 1 then SACDT3 = 0 If SACD_3 = 2 then SACDT3 = 0.5 If SACD_3 = 3 then SACDT3 = 1.5 If SACD_3 = 4 then SACDT3 = 4 If SACD_3 = 5 then SACDT3 = 8 If SACD_3 = 6 then SACDT3 = 12.5 If SACD_3 = 7 then SACDT3 = 17.5 If SACD_3 = 8 then SACDT3 = 20	Recode to midpoint of response ranges
If SACD_4 = 1 then SACDT4 = 0 If SACD_4 = 2 then SACDT4 = 0.5 If SACD_4 = 3 then SACDT4 = 1.5 If SACD_4 = 4 then SACDT4 = 4 If SACD_4 = 5 then SACDT4 = 8 If SACD_4 = 6 then SACDT4 = 12.5 If SACD_4 = 7 then SACDT4 = 17.5 If SACD_4 = 8 then SACDT4 = 20	Recode to midpoint of response ranges

1) Total number of hours per week spent in sedentary activities (including reading)

Variable name: SACDDTOT

Based on: SACD_1, SACD_2, SACD_3, SACD_4

Description: This variable estimates the total number of hours the respondent spent in a typical week in the past three months in sedentary activities including playing computer games, using the Internet, playing video games (e.g. Nintendo, Play station), watching television or video, and reading. For all activities, the time spent at school or work is excluded.

Note: This variable applies to youth aged 12 to 17.

Temporary variable SAC

Value of SAC	Condition(s)	Description
96 (NA)	SACDT1 = NA	Population exclusion
99 (NS)	(SACDT1 = DK, R, NS) or (SACDT2 = DK, R, NS) or (SACDT3 = DK, R, NS) or (SACDT4 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
SACDT1 + SACDT2 + SACDT3 + SACDT4	(0 <= SACDT1 <= 20) and (0 <= SACDT2 <= 20) and (0 <= SACDT3 <= 20) and (0 <= SACDT4 <= 20)	Total number of hours per week spent in sedentary activities including reading

Use total from SAC to assign value to SACDDTOT

Value of SACDDTOT	Condition(s)	Description
96 (NA)	SAC = NA	Population exclusion
99 (NS)	SAC = NS	At least one required question was not answered (don't know, refusal, not stated)
1	(0 <= SAC < 5)	Less than 5 hours
2	(5 <= SAC < 10)	From 5 to 9 hours
3	(10 <= SAC < 15)	From 10 to 14 hours
4	(15 <= SAC < 20)	From 15 to 19 hours
5	(20 <= SAC < 25)	From 20 to 24 hours
6	(25 <= SAC < 30)	From 25 to 29 hours
7	(30 <= SAC < 35)	From 30 to 34 hours
8	(35 <= SAC < 40)	From 35 to 39 hours
9	(40 <= SAC < 45)	From 40 to 44 hours
10	(45 <= SAC < NA)	45 hours or more

2) Total number of hours per week spent in sedentary activities (excluding reading)**Variable name:** SACDDTER**Based on:** SACD_1, SACD_2, SACD_3

Description: This variable estimates the total number of hours the respondent spent in a typical week in the past three months in sedentary activities including playing computer games, using the Internet, playing video games (e.g. Nintendo, Play station), and watching television or video. For all activities, the time spent at school or work is excluded.

Note: This variable applies to youth aged 12 to 17.

Temporary variable TER

Value of TER	Condition(s)	Description
96 (NA)	SACDT1 = NA	Population exclusion
99 (NS)	(SACDT1 = DK, R, NS) or (SACDT2 = DK, R, NS) or (SACDT3 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
SACDT1 + SACDT2 + SACDT3	(0 <= SACDT1 <= 20) and (0 <= SACDT2 <= 20) and (0 <= SACDT3 <= 20)	Total number of hours per week spent in sedentary activities excluding reading

Use total from TER to assign value to SACDDTER

Value of SACDDTER	Condition(s)	Description
96 (NA)	TER = NA	Population exclusion
99 (NS)	TER = NS	At least one required question was not answered (don't know, refusal, not stated)
1	(0 <= TER < 5)	Less than 5 hours
2	(5 <= TER < 10)	From 5 to 9 hours
3	(10 <= TER < 15)	From 10 to 14 hours
4	(15 <= TER < 20)	From 15 to 19 hours
5	(20 <= TER < 25)	From 20 to 24 hours
6	(25 <= TER < 30)	From 25 to 29 hours
7	(30 <= TER < 35)	From 30 to 34 hours
8	(35 <= TER < 40)	From 35 to 39 hours
9	(40 <= TER < 45)	From 40 to 44 hours
10	(45 <= TER < NA)	45 hours or more

Children's Physical Activity (2 DVs)

Temporary reformat

Condition(s)	Description
If CPAD_3 = 1 then CPADT3 = 0 If CPAD_3 = 2 then CPADT3 = 0.5 If CPAD_3 = 3 then CPADT3 = 2.5 If CPAD_3 = 4 then CPADT3 = 5 If CPAD_3 = 5 then CPADT3 = 7	Recode to midpoint of response ranges
If CPAD_4 = 1 then CPADT4 = 0 If CPAD_4 = 2 then CPADT4 = 0.5 If CPAD_4 = 3 then CPADT4 = 2.5 If CPAD_4 = 4 then CPADT4 = 5 If CPAD_4 = 5 then CPADT4 = 7	Recode to midpoint of response ranges
If CPAD_5 = 1 then CPADT5 = 0 If CPAD_5 = 2 then CPADT5 = 0.5 If CPAD_5 = 3 then CPADT5 = 2.5 If CPAD_5 = 4 then CPADT5 = 5 If CPAD_5 = 5 then CPADT5 = 7	Recode to midpoint of response ranges
If CPAD_6 = 1 then CPADT6 = 0 If CPAD_6 = 2 then CPADT6 = 0.5 If CPAD_6 = 3 then CPADT6 = 2.5 If CPAD_6 = 4 then CPADT6 = 5 If CPAD_6 = 5 then CPADT6 = 7	Recode to midpoint of response ranges
If CPAD_7 = 1 then CPADT7 = 0 If CPAD_7 = 2 then CPADT7 = 0.5 If CPAD_7 = 3 then CPADT7 = 1.5 If CPAD_7 = 4 then CPADT7 = 3.5 If CPAD_7 = 5 then CPADT7 = 5.5 If CPAD_7 = 6 then CPADT7 = 7	Recode to midpoint of response ranges
If CPAD_8 = 1 then CPADT8 = 0 If CPAD_8 = 2 then CPADT8 = 0.5 If CPAD_8 = 3 then CPADT8 = 1.5 If CPAD_8 = 4 then CPADT8 = 3.5 If CPAD_8 = 5 then CPADT8 = 5.5 If CPAD_8 = 6 then CPADT8 = 7	Recode to midpoint of response ranges

1) Total number of hours per week participated in physical activities

Variable name: CPADDTOT

Based on: CPAD_3, CPAD_4, CPAD_5, CPAD_6

Description: This variable estimates the total number of hours per week the child usually takes part in physical activities at school or outside of school.

Note: This variable applies to children aged 6 to 11.

Value of CPADDTOT	Condition(s)	Description
96 (NA)	CPAD_1 = NA	Population exclusion
99 (NS)	(CPAD_3 = DK, R, NS) or (CPAD_4 = DK, R, NS) or (CPAD_5 = DK, R, NS) or (CPAD_6 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
CPADT3 + CPADT4 + CPADT5 + CPADT6 (rounded to nearest whole number) (min: 0; max: 28)	(0 <= CPADT3 <= 7) and (0 <= CPADT4 <= 7) and (0 <= CPADT5 <= 7) and (0 <= CPADT6 <= 7)	Total number of hours per week participated in physical activities

2) Total number of hours per day spent in sedentary activities

Variable name: CPADDSAC

Based on: CPAD_7, CPAD_8

Description: This variable estimates the total number of hours per day the child aged 6 to 11 participates in sedentary activities including watching TV or videos, playing videogames, and spending time on a computer playing games, e-mailing, chatting and surfing the Internet.

Note: This variable applies to children aged 6 to 11.

Value of CPADDSAC	Condition(s)	Description
99.6 (NA)	CPAD_1 = NA	Population exclusion
99.9 (NS)	(CPAD_7 = DK, R, NS) or (CPAD_8 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
CPADT7 + CPADT8 (rounded to nearest 0.5) (min: 0.0; max: 14.0)	(0 <= CPADT7 <= 7) and (0 <= CPADT8 <= 7)	Total number of hours per day participated in sedentary activities (e.g. watching TV, spending time on a computer)

Height, Weight, and Body Mass Index - Self Reported (5 DVs)

1) Height (metres) – self-reported, grouped

Variable name: HWTGHTM

Based on: HWTG_2, HWTG_2A, HWTG_2B, HWTG_2C, HWTG_2D, HWTG_2E, HWTG_2F

Description: This variable indicates the respondent's self-reported height in metres.

Note (1): This variable applies to respondents aged 2 and over.

Note (2): During sample selection of CCHS Cycle 2.2, 10% of the sample aged 18 and over were assigned the code HWTDFDO = 2 (DOMEAS = 2). Respondents with HWTDFDO = 2 were first asked to self-report their height and weight and then have their height and weight measured by the interviewer. That is, for this group of respondents it was expected to collect both measured and self-reported body measurements. The remaining sample was assigned the code HWTDFDO = 1 (DOMEAS = 1). For this group of respondents it was expected to collect only measured height and weight.

However, in cases where a respondent with HWTDFDO = 1 did not grant the interviewer the permission to take the measurements (i.e. MHWD_5C = 2) or where the interviewer could not measure the respondent's height and weight because he/she was in a wheelchair or unable to stand unassisted, then the respondent was asked to self-report his/her body measurements. If a respondent with HWTDFDO = 1 was too tall, the interviewer was instructed to ask for permission to measure his/her WEIGHT (i.e. Question MHWD_5A), but ask the respondent to self-report his/her HEIGHT.

Technical Specs: In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in the table entitled "Collapsed extreme values of HWTGHTM" below.

Value of HWTGHTM	Condition(s)	Description
9.996 (NA)	DHHD_AGE < 2 or (HWTDFDO = 1 and MHWD_5C = 1) or [HWTDFDO = 1 and (MHWD_5C = 2 or MHWD_N1 = 1 or MHWD_N1C = 2) and MHWD_9 = 2]	Population exclusion
9.999 (NS)	(HWTG_2 = DK, R, NS) or (HWTG_2A = DK, R, NS) or (HWTG_2B = DK, R, NS) or (HWTG_2C = DK, R, NS) or (HWTG_2D = DK, R, NS) or (HWTG_2E = DK, R, NS) or (HWTG_2F = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
0.279	HWTn_2 = 0	Less than 0.292 metres
0.305	HWTn_2 = 1 and HWTn_2A = 0	0.292 to 0.317 metres
0.330	HWTn_2 = 1 and HWTn_2A = 1	0.318 to 0.342 metres
0.356	HWTn_2 = 1 and HWTn_2A = 2	0.343 to 0.367 metres
0.381	HWTn_2 = 1 and HWTn_2A = 3	0.368 to 0.393 metres
0.406	HWTn_2 = 1 and HWTn_2A = 4	0.394 to 0.418 metres
0.432	HWTn_2 = 1 and HWTn_2A = 5	0.419 to 0.444 metres
0.457	HWTn_2 = 1 and HWTn_2A = 6	0.445 to 0.469 metres
0.483	HWTn_2 = 1 and HWTn_2A = 7	0.470 to 0.494 metres

0.508	HWTn_2 = 1 and HWTn_2A = 8	0.495 to 0.520 metres
0.533	HWTn_2 = 1 and HWTn_2A = 9	0.521 to 0.545 metres
0.559	HWTn_2 = 1 and HWTn_2A = 10	0.546 to 0.571 metres
0.584	HWTn_2 = 1 and HWTn_2A = 11	0.572 to 0.596 metres
0.610	HWTn_2 = 2 and HWTn_2B = 0	0.597 to 0.621 metres
0.635	HWTn_2 = 2 and HWTn_2B = 1	0.622 to 0.647 metres
0.660	HWTn_2 = 2 and HWTn_2B = 2	0.648 to 0.672 metres
0.686	HWTn_2 = 2 and HWTn_2B = 3	0.673 to 0.698 metres
0.711	HWTn_2 = 2 and HWTn_2B = 4	0.699 to 0.723 metres
0.737	HWTn_2 = 2 and HWTn_2B = 5	0.724 to 0.748 metres
0.762	HWTn_2 = 2 and HWTn_2B = 6	0.749 to 0.774 metres
0.787	HWTn_2 = 2 and HWTn_2B = 7	0.775 to 0.799 metres
0.813	HWTn_2 = 2 and HWTn_2B = 8	0.800 to 0.825 metres
0.838	HWTn_2 = 2 and HWTn_2B = 9	0.826 to 0.850 metres
0.864	HWTn_2 = 2 and HWTn_2B = 10	0.851 to 0.875 metres
0.889	HWTn_2 = 2 and HWTn_2B = 11	0.876 to 0.901 metres
0.914	HWTn_2 = 3 and HWTn_2C = 0	0.902 to 0.926 metres
0.940	HWTn_2 = 3 and HWTn_2C = 1	0.927 to 0.952 metres
0.965	HWTn_2 = 3 and HWTn_2C = 2	0.953 to 0.977 metres
0.991	HWTn_2 = 3 and HWTn_2C = 3	0.978 to 1.002 metres
1.016	HWTn_2 = 3 and HWTn_2C = 4	1.003 to 1.028 metres
1.041	HWTn_2 = 3 and HWTn_2C = 5	1.029 to 1.053 metres
1.067	HWTn_2 = 3 and HWTn_2C = 6	1.054 to 1.079 metres
1.092	HWTn_2 = 3 and HWTn_2C = 7	1.080 to 1.104 metres
1.118	HWTn_2 = 3 and HWTn_2C = 8	1.105 to 1.129 metres
1.143	HWTn_2 = 3 and HWTn_2C = 9	1.130 to 1.155 metres
1.168	HWTn_2 = 3 and HWTn_2C = 10	1.156 to 1.180 metres

1.194	HWTn_2 = 3 and HWTn_2C = 11	1.181 to 1.206 metres
1.219	HWTn_2 = 4 and HWTn_2D = 0	1.207 to 1.231 metres
1.245	HWTn_2 = 4 and HWTn_2D = 1	1.232 to 1.256 metres
1.270	HWTn_2 = 4 and HWTn_2D = 2	1.257 to 1.282 metres
1.295	HWTn_2 = 4 and HWTn_2D = 3	1.283 to 1.307 metres
1.321	HWTn_2 = 4 and HWTn_2D = 4	1.308 to 1.333 metres
1.346	HWTn_2 = 4 and HWTn_2D = 5	1.334 to 1.358 metres
1.372	HWTn_2 = 4 and HWTn_2D = 6	1.359 to 1.383 metres
1.397	HWTn_2 = 4 and HWTn_2D = 7	1.384 to 1.409 metres
1.422	HWTn_2 = 4 and HWTn_2D = 8	1.410 to 1.434 metres
1.448	HWTn_2 = 4 and HWTn_2D = 9	1.435 to 1.460 metres
1.473	HWTn_2 = 4 and HWTn_2D = 10	1.461 to 1.485 metres
1.499	HWTn_2 = 4 and HWTn_2D = 11	1.486 to 1.510 metres
1.524	HWTn_2 = 5 and HWTn_2E = 0	1.511 to 1.536 metres
1.549	HWTn_2 = 5 and HWTn_2E = 1	1.537 to 1.561 metres
1.575	HWTn_2 = 5 and HWTn_2E = 2	1.562 to 1.587 metres
1.600	HWTn_2 = 5 and HWTn_2E = 3	1.588 to 1.612 metres
1.626	HWTn_2 = 5 and HWTn_2E = 4	1.613 to 1.637 metres
1.651	HWTn_2 = 5 and HWTn_2E = 5	1.638 to 1.663 metres
1.676	HWTn_2 = 5 and HWTn_2E = 6	1.664 to 1.688 metres
1.702	HWTn_2 = 5 and HWTn_2E = 7	1.689 to 1.714 metres
1.727	HWTn_2 = 5 and HWTn_2E = 8	1.715 to 1.739 metres
1.753	HWTn_2 = 5 and HWTn_2E = 9	1.740 to 1.764 metres
1.778	HWTn_2 = 5 and HWTn_2E = 10	1.765 to 1.790 metres
1.803	HWTn_2 = 5 and HWTn_2E = 11	1.791 to 1.815 metres
1.829	HWTn_2 = 6 and HWTn_2F = 0	1.816 to 1.841 metres
1.854	HWTn_2 = 6 and HWTn_2F = 1	1.842 to 1.866 metres

1.880	HWTn_2 = 6 and HWTn_2F = 2	1.867 to 1.891 metres
1.905	HWTn_2 = 6 and HWTn_2F = 3	1.892 to 1.917 metres
1.930	HWTn_2 = 6 and HWTn_2F = 4	1.918 to 1.942 metres
1.956	HWTn_2 = 6 and HWTn_2F = 5	1.943 to 1.968 metres
1.981	HWTn_2 = 6 and HWTn_2F = 6	1.969 to 1.993 metres
2.007	HWTn_2 = 6 and HWTn_2F = 7	1.994 to 2.018 metres
2.032	HWTn_2 = 6 and HWTn_2F = 8	2.019 to 2.044 metres
2.057	HWTn_2 = 6 and HWTn_2F = 9	2.045 to 2.069 metres
2.083	HWTn_2 = 6 and HWTn_2F = 10	2.070 to 2.095 metres
2.108	HWTn_2 = 6 and HWTn_2F = 11	2.096 to 2.120 metres
2.134	HWTn_2 = 7	2.121 metres or taller

Collapsed extreme values of HWTGHTM

Collapsed value	Condition(s)	Description
0.762	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and [HWTGHTM_2 < 2 or (HWTGHTM_2 = 2 and HWTGHTM_2B < 6)]	2-3 year old male shorter than 0.775 metres (2'6")
0.965	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and [HWTGHTM_2 < 3 or (HWTGHTM_2 = 3 and HWTGHTM_2C < 2)]	4-8 year old male shorter than 0.978 metres (3'2")
1.219	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and HWTGHTM_2 < 4	9-13 year old male shorter than 1.232 metres (4'0")
1.448	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and [HWTGHTM_2 < 4 or (HWTGHTM_2 = 4 and HWTGHTM_2D < 9)]	14-18 year old male shorter than 1.461 metres (4'9")
1.524	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and HWTGHTM_2 < 5	19-60 year old male shorter than 1.537 metres (5'0")
1.499	DHHD_SEX = 1 and DHHD_AGE >= 61 and [HWTGHTM_2 < 4 or (HWTGHTM_2 = 4 and HWTGHTM_2D < 11)]	male aged 61 or older shorter than 1.511 metres (4'11")
0.762	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and [HWTGHTM_2 < 2 or (HWTGHTM_2 = 2 and HWTGHTM_2B < 6)]	2-3 year old female shorter than 0.775 metres (2'6")
0.914	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and HWTGHTM_2 < 3	4-8 year old female shorter than 0.927 metres (3'0")
1.219	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and HWTGHTM_2 < 4	9-13 year old female shorter than 1.232 metres (4'0")
1.346	DHHD_SEX = 2 and	14-18 year old female shorter than 1.359 metres

	14 <= DHHD_AGE <= 18 and [HWTD_2 < 4 or (HWTD_2 = 4 and HWTD_2D < 5)]	metres (4'5")
1.397	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and [HWTD_2 < 4 or (HWTD_2 = 4 and HWTD_2D < 7)]	19-60 year old female shorter than 1.410 metres (4'7")
1.346	DHHD_SEX = 2 and DHHD_AGE >= 61 and [HWTD_2 < 4 or (HWTD_2 = 4 and HWTD_2D < 5)]	female aged 61 or older shorter than 1.359 metres (4'5")
1.092	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and [HWTD_2 > 3 or (HWTD_2 = 3 and HWTD_2C > 8)]	2-3 year old male taller than 1.104 metres (3'8")
1.499	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and HWTD_2 > 4	4-8 year old male taller than 1.485 metres (4'11")
1.854	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and [HWTD_2 > 6 or (HWTD_2 = 6 and HWTD_2F > 1)]	9-13 year old male taller than 1.841 metres (6'1")
1.956	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and [HWTD_2 > 6 or (HWTD_2 = 6 and HWTD_2F > 5)]	14-18 year old male taller than 1.942 metres (6'5")
1.956	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and [HWTD_2 > 6 or (HWTD_2 = 6 and HWTD_2F > 5)]	19-60 year old male taller than 1.942 metres (6'5")
1.905	DHHD_SEX = 1 and DHHD_AGE >= 61 and [HWTD_2 > 6 or (HWTD_2 = 6 and HWTD_2F > 3)]	male aged 61 or older taller than 1.891 metres (6'3")
1.118	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and [HWTD_2 > 3 or (HWTD_2 = 3 and HWTD_2C > 8)]	2-3 year old female taller than 1.104 metres (3'8")
1.473	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and [HWTD_2 > 4 or (HWTD_2 = 4 and HWTD_2D > 10)]	4-8 year old female taller than 1.460 metres (4'10")
1.753	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and [HWTD_2 > 5 or (HWTD_2 = 5 and HWTD_2E > 9)]	9-13 year old female taller than 1.739 metres (5'9")
1.854	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and [HWTD_2 > 6 or (HWTD_2 = 6 and HWTD_2F > 1)]	14-18 year old female taller than 1.841 metres (6'1")
1.829	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and [HWTD_2 > 6 or (HWTD_2 = 6 and HWTD_2F > 0)]	19-60 year old female taller than 1.815 metres (6'0")
1.778	DHHD_SEX = 2 and DHHD_AGE >= 61 and [HWTD_2 > 5 or (HWTD_2 = 5 and HWTD_2E > 10)]	female aged 61 or older taller than 1.764 metres (5'10")

2) Weight (kilograms) – self-reported, grouped

Variable name: HWTGDKWTK

Based on: HWTGDK_3, HWTGDK_N4

Description: This variable indicates the respondent's self-reported weight in kilograms.

Note (1): This variable applies to respondents aged 2 and over.

Note (2): During sample selection of CCHS Cycle 2.2, 10% of the sample aged 18 and over were assigned the code HWTGDKFDO = 2 (DOMEAS = 2). Respondents with HWTGDKFDO=2 were first asked to self-report their height and weight and then have their height and weight measured by the interviewer. That is, for this group of respondents it was expected to collect both measured and self-reported body measurements. The remaining sample was assigned the code HWTGDKFDO = 1 (DOMEAS = 1). For this group of respondents it was expected to collect only measured height and weight.

However, in cases where a respondent with HWTGDKFDO = 1 did not grant the interviewer the permission to take the measurements (i.e. MHWD_5C = 2) or that the interviewer could not measure the respondent's height and weight because he/she was in a wheelchair or unable to stand unassisted, then the respondent was asked to self-report his/her body measurements.

Note (3): The variable HWTGDKWTK indicates the weight of the respondent in kilograms, without groupings or collapsing. The variable is not included in the Public Use Microdata File.

Technical Specs: In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in the table entitled "Collapsed extreme values of HWTGDKWTK" below.

Value of HWTGDKWTK	Condition(s)	Description
999.96 (NA)	DHHD_AGE < 2 or [HWTGDKFDO = 1 and (MHWD_5C = 1 or (MHWD_5A = 1, 2) or MHWD_9 = 2)]	Population exclusion
999.99 (NS)	(HWTGDK_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
HWTGDK_3	HWTGDK_N4 = 2	Weight in kg
HWTGDK_3 × 0.45	HWTGDK_N4 = 1	Weight in kg, converted from lb

Collapsed extreme values of HWTGDKWTK

Collapsed value	Condition(s)	Description
11.25	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and HWTGDKWTK < 11.25	2-3 year old male weighing less than 11.25 kilograms
13.63	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and HWTGDKWTK < 13.63	4-8 year old male weighing less than 13.63 kilograms
24.40	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and HWTGDKWTK < 24.40	9-13 year old male weighing less than 24.40 kilograms
38.50	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and HWTGDKWTK < 38.50	14-18 year old male weighing less than 38.50 kilograms
54.85	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and HWTGDKWTK < 54.85	19-60 year old male weighing less than 54.85 kilograms
51.20	DHHD_SEX = 1 and DHHD_AGE >= 61 and HWTGDKWTK < 51.20	male aged 61 or older weighing less than 51.20 kilograms
9.54	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and HWTGDKWTK < 9.54	2-3 year old female weighing less than 9.54 kilograms
14.00	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and HWTGDKWTK < 14.00	4-8 year old female weighing less than 14.00 kilograms
22.65	DHHD_SEX = 2 and	9-13 year old female weighing less than

Collapsed value	Condition(s)	Description
	9 <= DHHD_AGE <= 13 and HWTDDWTK < 22.65	22.65 kilograms
38.20	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and HWTDDWTK < 38.20	14-18 year old female weighing less than 38.20 kilograms
44.95	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and HWTDDWTK < 44.95	19-60 year old female weighing less than 44.95 kilograms
42.05	DHHD_SEX = 2 and DHHD_AGE >= 61 and HWTDDWTK < 42.05	female aged 61 or older weighing less than 42.05 kilograms
26.40	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and HWTDDWTK > 26.40	2-3 year old male weighing more than 26.40 kilograms
52.35	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and HWTDDWTK > 52.35	4-8 year old male weighing more than 52.35 kilograms
96.25	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and HWTDDWTK > 96.25	9-13 year old male weighing more than 96.25 kilograms
142.40	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and HWTDDWTK > 142.40	14-18 year old male weighing more than 142.40 kilograms
136.65	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and HWTDDWTK > 136.65	19-60 year old male weighing more than 136.65 kilograms
126.90	DHHD_SEX = 1 and DHHD_AGE >= 61 and HWTDDWTK > 126.90	male aged 61 or older weighing more than 126.90 kilograms
22.00	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and HWTDDWTK > 22.00	2-3 year old female weighing more than 22.00 kilograms
47.45	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and HWTDDWTK > 47.45	4-8 year old female weighing more than 47.45 kilograms
88.60	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and HWTDDWTK > 88.60	9-13 year old female weighing more than 88.60 kilograms
122.50	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and HWTDDWTK > 122.50	14-18 year old female weighing more than 122.50 kilograms
132.00	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and HWTDDWTK > 132.00	19-60 year old female weighing more than 132.00 kilograms
120.00	DHHD_SEX = 2 and DHHD_AGE >= 61 and HWTDDWTK > 120.00	female aged 61 or older weighing more than 120.00 kilograms

3) Body Mass Index (BMI) – self-reported, grouped

Variable name: HWTGDGBMI

Based on: HWTDFHW, HWTGDWTK, HWTGDGHTM

Description: Body Mass Index (BMI) is a comparison of “self-reported weight” relative to the “self-reported height” of respondents. BMI is calculated by dividing weight in kilograms by height in metres squared.

$$\text{(BMI = WEIGHT (KG) / HEIGHT (METRES) SQUARED)}$$

Note (1): BMI is not calculated for pregnant women. Although calculation of BMI is not recommended for lactating women, the index provided here is calculated for women who report that they are breastfeeding (WHCD_05 = 1) to permit comparability with previous CCHS cycles.

Note (2): For Cycles 1.1 and 1.2 of CCHS, BMI was calculated only for respondents aged 20-64. For Cycle 2.1, BMI was calculated for respondents aged 18 and over. But for Cycle 2.2, BMI is calculated for persons aged 2 and over.

Note (3): In previous CCHS cycles, BMI was not calculated for those less than 3 feet or for those 7 feet or over. For Cycle 2.2, since children are included, BMI is calculated for those 1 foot or more.

Note (4): This BMI classification is created using “self-reported height” and “self-reported weight” variables.

Note (5): The variable HWTDDBMI indicates the Body Mass Index calculated from the self-reported height and weight of the respondent, without groupings or collapsing. The variable is not included in the Public Use Microdata File.

Technical Specs: In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in the table entitled “Collapsed extreme values of HWTGDBMI” below.

Value of HWTGDBMI	Condition(s)	Description
999.96 (NA)	DHHD_AGE < 2 or (HWTDFDO = 1 and MHWDFHW = 1)	Population exclusion
999.99 (NS)	HWTDFHW = 2	Respondents for whom a valid self-reported height and weight was not obtained
999.99 (NS)	DHHD_SEX = 2 and (WHCD_03 = DK, R, NS)	Females who did not answer the pregnancy question (don't know, refusal, not stated)
HWTGDKTK / (HWTGDKTM × WTDGHTM) (rounded to two decimal places)	HWTDFHW = 1	BMI calculated from self-reported height and self-reported weight values

Collapsed extreme values of HWTDBGMI

Collapsed value	Condition(s)	Description
13.15	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and HWTDDBMI < 13.15	2-3 year old male having BMI less than 13.15
11.63	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and HWTDDBMI < 11.63	4-8 year old male having BMI less than 11.63
13.59	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and HWTDDBMI < 13.59	9-13 year old male having BMI less than 13.59
15.17	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and HWTDDBMI < 15.17	14-18 year old male having BMI less than 15.17
18.41	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and HWTDDBMI < 18.41	19-60 year old male having BMI less than 18.41
17.32	DHHD_SEX = 1 and DHHD_AGE >= 61 and HWTDDBMI < 17.32	male aged 61 or older having BMI less than 17.32
12.95	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and HWTDDBMI < 12.95	2-3 year old female having BMI less than 12.95
12.14	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and HWTDDBMI < 12.14	4-8 year old female having BMI less than 12.14
13.12	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and HWTDDBMI < 13.12	9-13 year old female having BMI less than 13.12
14.71	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and HWTDDBMI < 14.71	14-18 year old female having BMI less than 14.71
17.34	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and HWTDDBMI < 17.34	19-60 year old female having BMI less than 17.34
17.59	DHHD_SEX = 2 and DHHD_AGE >= 61 and HWTDDBMI < 17.59	female aged 61 or older having BMI less than 17.59
26.66	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and HWTDDBMI > 26.66	2-3 year old male having BMI more than 26.66
28.27	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and HWTDDBMI > 28.27	4-8 year old male having BMI more than 28.27
38.95	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and HWTDDBMI > 38.95	9-13 year old male having BMI more than 38.95
41.91	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and HWTDDBMI > 41.91	14-18 year old male having BMI more than 41.91
44.19	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and HWTDDBMI > 44.19	19-60 year old male having BMI more than 44.19
43.59	DHHD_SEX = 1 and DHHD_AGE >= 61 and HWTDDBMI > 43.59	male aged 61 or older having BMI more than 43.59
24.80	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and HWTDDBMI > 24.80	2-3 year old female having BMI more than 24.80
28.96	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and	4-8 year old female having BMI more than 28.96

Collapsed value	Condition(s)	Description
	HWTDDBMI > 28.96	
37.93	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and HWTDDBMI > 37.93	9-13 year old female having BMI more than 37.93
45.74	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and HWTDDBMI > 45.74	14-18 year old female having BMI more than 45.74
50.32	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and HWTDDBMI > 50.32	19-60 year old female having BMI more than 50.32
47.38	DHHD_SEX = 2 and DHHD_AGE >= 61 and HWTDDBMI > 47.38	female aged 61 or older having BMI more than 47.38

4) BMI classification for adults aged 18 and over (self-reported) – international standard, grouped

Variable name: HWTGDGSIW

Based on: HWTGDGBMI

Description: This variable assigns adult respondents aged 18 and over (except pregnant women) to one of the following categories, according to their BMI: underweight, acceptable weight, overweight or obese. Here, the BMI categories are adopted from a body weight classification system recommended by Health Canada and the World Health Organization (WHO) which has been widely used internationally.

According to Health Canada, this BMI classification system can be used as a screening tool to identify weight-related health risks at the population and individual levels. The following health risks are associated with each of the BMI categories for adults aged 18 and over:

- normal weight = least health risk;
- underweight and overweight = increased health risk;
- obese class I = high health risk;
- obese class II = very high health risk;
- obese class III = extremely high health risk

At the population level, the BMI classification system can be used to compare body weight patterns and related health risks within and between populations and to establish population trends in body weight patterns. The classification should be used with caution at the individual level because the health risk associated with each BMI category varies considerably between individuals. Particular caution should be used when classifying: adults who are naturally very lean, very muscular adults, some ethnic and racial groups, and seniors. For more detailed information see *Canadian Guidelines for Body Weight Classification in Adults*, Health Canada, 2003 (available online at: http://www.hc-sc.gc.ca/fn-an/nutrition/weights-poids/cg_bwc_int_ld_cpa_int_e.html)

Note: This variable excludes female respondents aged 18 to 55 who were pregnant or did not answer the pregnancy question (i.e. WHCD_03 = Don't Know, Refusal, Not stated).

Value of HWTGDGSIW	Condition(s)	Description
6 (NA)	DHHD_AGE < 18 or (HWTDFDO = 1 and MHWDFHW = 1)	Population exclusion
9 (NS)	HWTGDGBMI = NS	At least one required question was not answered (don't know, refusal, not stated)
1	HWTGDGBMI < 18.50	Underweight
2	18.50 <= HWTGDGBMI <= 24.99	Normal weight
3	25.00 <= HWTGDGBMI <= 29.99	Overweight
4	30.0 <= HWTGDGBMI < NA	Obese – Class I, II, III

5) BMI classification for children aged 2 to 17 (self-reported) – Cole classification system

Variable name: HWTGDCOL

Based on: HWTGDBMI, DHHD_AGM, DHHD_SEX

Description: This variable classifies the BMI of children aged 2 to 17 as “obese” or “overweight” according to the age-and-sex-specific BMI cut-off points as defined by Cole et al. The Cole cut-off points are based on pooled international data (Brazil, Great Britain, Hong Kong, Netherlands, Singapore, and United States) for BMI and linked to the widely internationally accepted adult BMI cut-off points of 25 (overweight) and 30 kg/m² (obese). For more information about the Cole BMI classification system, see *Establishing a Standard Definition for Child Overweight and Obesity Worldwide - International survey*, by Tim J Cole, Mary C Bellizzi, Katherine M. Flegal, William H Dietz, published in the *British Medical Journal*, Volume: 320, May 2000.

Note (1): Respondents who do not fall within the categories of “Obese” or “Overweight” (as defined by Cole et al.) have been classified by CCHS as “neither obese nor overweight”.

Note (2): This variable excludes female respondents aged 15 to 17 who were pregnant or did not answer the pregnancy question (i.e. WHCD_03 = Don't Know, Refusal, Not stated).

Note (3): This variable excludes respondents who are 216 months in age, i.e. 18 years old or older.

Temporary reformat

Reformat	Description
If DHHD_AGM < 9996, then AGEDT1 = DHHD_AGM / 12 (rounded to nearest 0.5)	Convert respondent's “age in months” to “age in years”

Value of HWTGDCOL	Condition(s)	Description
6 (NA)	DHHD_AGE < 2 or DHHD_AGM >= 216 or (HWTDFDO = 1 and MHWDFHW = 1)	Population exclusion
9 (NS)	HWTGDBMI = NS	At least one required question was not answered (don't know, refusal, not stated)
3	(AGEDT1 = 2 and DHHD_SEX = 1 and HWTGDBMI >= 20.09) or (AGEDT1 = 2 and DHHD_SEX = 2 and HWTGDBMI >= 19.81) or (AGEDT1 = 2.5 and DHHD_SEX = 1 and HWTGDBMI >= 19.80) or (AGEDT1 = 2.5 and DHHD_SEX = 2 and HWTGDBMI >= 19.55) or (AGEDT1 = 3 and DHHD_SEX = 1 and HWTGDBMI >= 19.57) or (AGEDT1 = 3 and DHHD_SEX = 2 and HWTGDBMI >= 19.36) or (AGEDT1 = 3.5 and DHHD_SEX = 1 and HWTGDBMI >= 19.39) or (AGEDT1 = 3.5 and DHHD_SEX = 2 and HWTGDBMI >= 19.23) or (AGEDT1 = 4 and DHHD_SEX = 1 and HWTGDBMI >= 19.29) or (AGEDT1 = 4 and DHHD_SEX = 2 and HWTGDBMI >= 19.15) or (AGEDT1 = 4.5 and DHHD_SEX = 1 and HWTGDBMI >= 19.26) or (AGEDT1 = 4.5 and DHHD_SEX = 2 and HWTGDBMI >= 19.12) or (AGEDT1 = 5 and DHHD_SEX = 1 and HWTGDBMI >= 19.30) or (AGEDT1 = 5 and DHHD_SEX = 2 and HWTGDBMI >= 19.17) or (AGEDT1 = 5.5 and DHHD_SEX = 1 and	Obese

Value of HWTDCOL	Condition(s)	Description
	HWTDCOL >= 19.47) or (AGEDT1 = 5.5 and DHHD_SEX = 2 and HWTDCOL >= 19.34) or (AGEDT1 = 6 and DHHD_SEX = 1 and HWTDCOL >= 19.78) or (AGEDT1 = 6 and DHHD_SEX = 2 and HWTDCOL >= 19.65) or (AGEDT1 = 6.5 and DHHD_SEX = 1 and HWTDCOL >= 20.23) or (AGEDT1 = 6.5 and DHHD_SEX = 2 and HWTDCOL >= 20.08) or (AGEDT1 = 7 and DHHD_SEX = 1 and HWTDCOL >= 20.63) or (AGEDT1 = 7 and DHHD_SEX = 2 and HWTDCOL >= 20.51) or (AGEDT1 = 7.5 and DHHD_SEX = 1 and HWTDCOL >= 21.09) or (AGEDT1 = 7.5 and DHHD_SEX = 2 and HWTDCOL >= 21.01) or (AGEDT1 = 8 and DHHD_SEX = 1 and HWTDCOL >= 21.60) or (AGEDT1 = 8 and DHHD_SEX = 2 and HWTDCOL >= 21.57) or (AGEDT1 = 8.5 and DHHD_SEX = 1 and HWTDCOL >= 22.17) or (AGEDT1 = 8.5 and DHHD_SEX = 2 and HWTDCOL >= 22.18) or (AGEDT1 = 9 and DHHD_SEX = 1 and HWTDCOL >= 22.77) or (AGEDT1 = 9 and DHHD_SEX = 2 and HWTDCOL >= 22.81) or (AGEDT1 = 9.5 and DHHD_SEX = 1 and HWTDCOL >= 23.39) or (AGEDT1 = 9.5 and DHHD_SEX = 2 and HWTDCOL >= 23.46) or (AGEDT1 = 10 and DHHD_SEX = 1 and HWTDCOL >= 24.00) or (AGEDT1 = 10 and DHHD_SEX = 2 and HWTDCOL >= 24.11) or (AGEDT1 = 10.5 and DHHD_SEX = 1 and HWTDCOL >= 24.57) or (AGEDT1 = 10.5 and DHHD_SEX = 2 and HWTDCOL >= 24.77) or (AGEDT1 = 11 and DHHD_SEX = 1 and HWTDCOL >= 25.10) or (AGEDT1 = 11 and DHHD_SEX = 2 and HWTDCOL >= 25.42) or (AGEDT1 = 11.5 and DHHD_SEX = 1 and HWTDCOL >= 25.58) or (AGEDT1 = 11.5 and DHHD_SEX = 2 and HWTDCOL >= 26.05) or (AGEDT1 = 12 and DHHD_SEX = 1 and HWTDCOL >= 26.02) or (AGEDT1 = 12 and DHHD_SEX = 2 and HWTDCOL >= 26.67) or (AGEDT1 = 12.5 and DHHD_SEX = 1 and HWTDCOL >= 26.43) or (AGEDT1 = 12.5 and DHHD_SEX = 2 and HWTDCOL >= 27.24) or (AGEDT1 = 13 and DHHD_SEX = 1 and	

Value of HWTDCOL	Condition(s)	Description
	HWTDCOL >= 26.84) or (AGEDT1 = 13 and DHHDCOL = 2 and HWTDCOL >= 27.76) or (AGEDT1 = 13.5 and DHHDCOL = 1 and HWTDCOL >= 27.25) or (AGEDT1 = 13.5 and DHHDCOL = 2 and HWTDCOL >= 28.20) or (AGEDT1 = 14 and DHHDCOL = 1 and HWTDCOL >= 27.63) or (AGEDT1 = 14 and DHHDCOL = 2 and HWTDCOL >= 28.57) or (AGEDT1 = 14.5 and DHHDCOL = 1 and HWTDCOL >= 27.98) or (AGEDT1 = 14.5 and DHHDCOL = 2 and HWTDCOL >= 28.87) or (AGEDT1 = 15 and DHHDCOL = 1 and HWTDCOL >= 28.30) or (AGEDT1 = 15 and DHHDCOL = 2 and HWTDCOL >= 29.11) or (AGEDT1 = 15.5 and DHHDCOL = 1 and HWTDCOL >= 28.60) or (AGEDT1 = 15.5 and DHHDCOL = 2 and HWTDCOL >= 29.29) or (AGEDT1 = 16 and DHHDCOL = 1 and HWTDCOL >= 28.88) or (AGEDT1 = 16 and DHHDCOL = 2 and HWTDCOL >= 29.43) or (AGEDT1 = 16.5 and DHHDCOL = 1 and HWTDCOL >= 29.14) or (AGEDT1 = 16.5 and DHHDCOL = 2 and HWTDCOL >= 29.56) or (AGEDT1 = 17 and DHHDCOL = 1 and HWTDCOL >= 29.41) or (AGEDT1 = 17 and DHHDCOL = 2 and HWTDCOL >= 29.69) or (AGEDT1 = 17.5 and DHHDCOL = 1 and HWTDCOL >= 29.70) or (AGEDT1 = 17.5 and DHHDCOL = 2 and HWTDCOL >= 29.84) or (AGEDT1 = 18 and DHHDCOL = 1 and HWTDCOL >= 30.00) or (AGEDT1 = 18 and DHHDCOL = 2 and HWTDCOL >= 30.00)	
2	(AGEDT1 = 2 and DHHDCOL = 1 and (18.41 <= HWTDCOL < 20.09)) or (AGEDT1 = 2 and DHHDCOL = 2 and (18.02 <= HWTDCOL < 19.81)) or (AGEDT1 = 2.5 and DHHDCOL = 1 and (18.13 <= HWTDCOL < 19.80)) or (AGEDT1 = 2.5 and DHHDCOL = 2 and (17.76 <= HWTDCOL < 19.55)) or (AGEDT1 = 3 and DHHDCOL = 1 and (17.89 <= HWTDCOL < 19.57)) or (AGEDT1 = 3 and DHHDCOL = 2 and (17.56 <= HWTDCOL < 19.36)) or (AGEDT1 = 3.5 and DHHDCOL = 1 and (17.69 <= HWTDCOL < 19.39)) or (AGEDT1 = 3.5 and DHHDCOL = 2 and (17.40 <= HWTDCOL < 19.23)) or (AGEDT1 = 4 and DHHDCOL = 1 and	Overweight

Value of HWTDCOL	Condition(s)	Description
	<p>(17.55 <= HWTDCOL < 19.29)) or (AGEDT1 = 4 and DHHDCOL = 2 and (17.28 <= HWTDCOL < 19.15)) or (AGEDT1 = 4.5 and DHHDCOL = 1 and (17.47 <= HWTDCOL < 19.26)) or (AGEDT1 = 4.5 and DHHDCOL = 2 and (17.19 <= HWTDCOL < 19.12)) or (AGEDT1 = 5 and DHHDCOL = 1 and (17.42 <= HWTDCOL < 19.30)) or (AGEDT1 = 5 and DHHDCOL = 2 and (17.15 <= HWTDCOL < 19.17)) or (AGEDT1 = 5.5 and DHHDCOL = 1 and (17.45 <= HWTDCOL < 19.47)) or (AGEDT1 = 5.5 and DHHDCOL = 2 and (17.20 <= HWTDCOL < 19.34)) or (AGEDT1 = 6 and DHHDCOL = 1 and (17.55 <= HWTDCOL < 19.78)) or (AGEDT1 = 6 and DHHDCOL = 2 and (17.34 <= HWTDCOL < 19.65)) or (AGEDT1 = 6.5 and DHHDCOL = 1 and (17.71 <= HWTDCOL < 20.23)) or (AGEDT1 = 6.5 and DHHDCOL = 2 and (17.53 <= HWTDCOL < 20.08)) or (AGEDT1 = 7 and DHHDCOL = 1 and (17.92 <= HWTDCOL < 20.63)) or (AGEDT1 = 7 and DHHDCOL = 2 and (17.75 <= HWTDCOL < 20.51)) or (AGEDT1 = 7.5 and DHHDCOL = 1 and (18.16 <= HWTDCOL < 21.09)) or (AGEDT1 = 7.5 and DHHDCOL = 2 and (18.03 <= HWTDCOL < 21.01)) or (AGEDT1 = 8 and DHHDCOL = 1 and (18.44 <= HWTDCOL < 21.60)) or (AGEDT1 = 8 and DHHDCOL = 2 and (18.35 <= HWTDCOL < 21.57)) or (AGEDT1 = 8.5 and DHHDCOL = 1 and (18.76 <= HWTDCOL < 22.17)) or (AGEDT1 = 8.5 and DHHDCOL = 2 and (18.69 <= HWTDCOL < 22.18)) or (AGEDT1 = 9 and DHHDCOL = 1 and (19.10 <= HWTDCOL < 22.77)) or (AGEDT1 = 9 and DHHDCOL = 2 and (19.07 <= HWTDCOL < 22.81)) or (AGEDT1 = 9.5 and DHHDCOL = 1 and (19.46 <= HWTDCOL < 23.39)) or (AGEDT1 = 9.5 and DHHDCOL = 2 and (19.45 <= HWTDCOL < 23.46)) or (AGEDT1 = 10 and DHHDCOL = 1 and (19.84 <= HWTDCOL < 24.00)) or (AGEDT1 = 10 and DHHDCOL = 2 and (19.86 <= HWTDCOL < 24.11)) or (AGEDT1 = 10.5 and DHHDCOL = 1 and (20.20 <= HWTDCOL < 24.57)) or (AGEDT1 = 10.5 and DHHDCOL = 2 and (20.29 <= HWTDCOL < 24.77)) or (AGEDT1 = 11 and DHHDCOL = 1 and (20.55 <= HWTDCOL < 25.10)) or (AGEDT1 = 11 and DHHDCOL = 2 and (20.74 <= HWTDCOL < 25.42)) or (AGEDT1 = 11.5 and DHHDCOL = 1 and</p>	

Value of HWTDCOL	Condition(s)	Description
	(20.89 <= HWTDCOL < 25.58)) or (AGEDT1 = 11.5 and DHHI_SEX = 2 and (21.20 <= HWTDCOL < 26.05)) or (AGEDT1 = 12 and DHHI_SEX = 1 and (21.22 <= HWTDCOL < 26.02)) or (AGEDT1 = 12 and DHHI_SEX = 2 and (21.68 <= HWTDCOL < 26.67)) or (AGEDT1 = 12.5 and DHHI_SEX = 1 and (21.56 <= HWTDCOL < 26.43)) or (AGEDT1 = 12.5 and DHHI_SEX = 2 and (22.14 <= HWTDCOL < 27.24)) or (AGEDT1 = 13 and DHHI_SEX = 1 and (21.91 <= HWTDCOL < 26.84)) or (AGEDT1 = 13 and DHHI_SEX = 2 and (22.58 <= HWTDCOL < 27.76)) or (AGEDT1 = 13.5 and DHHI_SEX = 1 and (22.27 <= HWTDCOL < 27.25)) or (AGEDT1 = 13.5 and DHHI_SEX = 2 and (22.98 <= HWTDCOL < 28.20)) or (AGEDT1 = 14 and DHHI_SEX = 1 and (22.62 <= HWTDCOL < 27.63)) or (AGEDT1 = 14 and DHHI_SEX = 2 and (23.34 <= HWTDCOL < 28.57)) or (AGEDT1 = 14.5 and DHHI_SEX = 1 and (22.96 <= HWTDCOL < 27.98)) or (AGEDT1 = 14.5 and DHHI_SEX = 2 and (23.66 <= HWTDCOL < 28.87)) or (AGEDT1 = 15 and DHHI_SEX = 1 and (23.29 <= HWTDCOL < 28.30)) or (AGEDT1 = 15 and DHHI_SEX = 2 and (23.94 <= HWTDCOL < 29.11)) or (AGEDT1 = 15.5 and DHHI_SEX = 1 and (23.60 <= HWTDCOL < 28.60)) or (AGEDT1 = 15.5 and DHHI_SEX = 2 and (24.17 <= HWTDCOL < 29.29)) or (AGEDT1 = 16 and DHHI_SEX = 1 and (23.90 <= HWTDCOL < 28.88)) or (AGEDT1 = 16 and DHHI_SEX = 2 and (24.37 <= HWTDCOL < 29.43)) or (AGEDT1 = 16.5 and DHHI_SEX = 1 and (24.19 <= HWTDCOL < 29.14)) or (AGEDT1 = 16.5 and DHHI_SEX = 2 and (24.54 <= HWTDCOL < 29.56)) or (AGEDT1 = 17 and DHHI_SEX = 1 and (24.46 <= HWTDCOL < 29.41)) or (AGEDT1 = 17 and DHHI_SEX = 2 and (24.70 <= HWTDCOL < 29.69)) or (AGEDT1 = 17.5 and DHHI_SEX = 1 and (24.73 <= HWTDCOL < 29.70)) or (AGEDT1 = 17.5 and DHHI_SEX = 2 and (24.85 <= HWTDCOL < 29.84)) or (AGEDT1 = 18 and DHHI_SEX = 1 and (25.00 <= HWTDCOL < 30.00)) or (AGEDT1 = 18 and DHHI_SEX = 2 and (25.00 <= HWTDCOL < 30.00)) 	
1	Else	Neither overweight nor obese

Height, Weight, and Body Mass Index - Measured (6 DVs)

1) Height (metres) – measured, grouped

Variable name: MHWDGHTM

Based on: MHWD_N8

Description: This variable indicates the respondent's height in metres as measured by an interviewer.

Note (1): This variable applies to respondents aged 2 and over.

Note (2): During sample selection of CCHS Cycle 2.2, 10% of the sample aged 18 and over were assigned the code HWTDFDO = 2 (DOMEAS = 2). Respondents with HWTDFDO = 2 were first asked to self-report their height and weight and then have their height and weight measured by the interviewer. However, respondents' height and weight were not measured if they had refused to self-report their body measures.

Note (3): The variable MHWDHTM indicates the measured height of the respondent in metres, without groupings or collapsing. The variable is not included in the Public Use Microdata File.

Technical Specs: In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in the table entitled "Collapsed extreme values of MHWDGHTM" below.

Value of MHWDGHTM	Condition(s)	Description
9.996 (NA)	DHHD_AGE < 2	Population exclusion
9.999 (NS)	MHWD_N1C = 2 or MHWD_N1 = 1 or MHWD_N3 = 1 or MHWD_5C = 2	Respondents who could not be measured due to their condition, unavailability or refusal
9.999 (NS)	HWTDFDO = 2 and (HWTDFDO_2 = R or HWTDFDO_3 = R)	Respondent with HWTDFDO=2 who refused to self-report his/her height or weight in "Self-reported Height and Weight Module"
9.999 (NS)	(MHWD_N8 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
MHWD_N8 / 100	0 < MHWD_N8 < NA	Height in metres

Collapsed extreme values of MHWDGHTM

Collapsed value	Condition	Description
0.780	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and MHWDHTM < 0.780	2-3 year old male shorter than 0.780 metres
0.970	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and MHWDHTM < 0.970	4-8 year old male shorter than 0.970 metres
1.220	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and MHWDHTM < 1.220	9-13 year old male shorter than 1.220 metres
1.460	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and MHWDHTM < 1.460	14-18 year old male shorter than 1.460 metres
1.530	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and MHWDHTM < 1.530	19-60 year old male shorter than 1.530 metres
1.520	DHHD_SEX = 1 and DHHD_AGE >= 61 and MHWDHTM < 1.520	male aged 61 or older shorter than 1.520 metres
0.780	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and MHWDHTM < 0.780	2-3 year old female shorter than 0.780 metres
0.920	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and MHWDHTM < 0.920	4-8 year old female shorter than 0.920 metres
1.220	DHHD_SEX = 2 and	9-13 year old female shorter than

Collapsed value	Condition	Description
	9 <= DHHD_AGE <= 13 and MHWDDHTM < 1.220	1.220 metres
1.370	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and MHWDDHTM < 1.370	14-18 year old female shorter than 1.370 metres
1.420	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and MHWDDHTM < 1.420	19-60 year old female shorter than 1.420 metres
1.365	DHHD_SEX = 2 and DHHD_AGE >= 61 and MHWDDHTM < 1.365	female aged 61 or older shorter than 1.365 metres
1.095	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and MHWDDHTM > 1.095	2-3 year old male taller than 1.095 metres
1.485	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and MHWDDHTM > 1.485	4-8 year old male taller than 1.485 metres
1.835	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and MHWDDHTM > 1.835	9-13 year old male taller than 1.835 metres
1.955	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and MHWDDHTM > 1.955	14-18 year old male taller than 1.955 metres
1.935	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and MHWDDHTM > 1.935	19-60 year old male taller than 1.935 metres
1.900	DHHD_SEX = 1 and DHHD_AGE >= 61 and MHWDDHTM > 1.900	male aged 61 or older taller than 1.900 metres
1.090	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and MHWDDHTM > 1.090	2-3 year old female taller than 1.090 metres
1.450	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and MHWDDHTM > 1.450	4-8 year old female taller than 1.450 metres
1.740	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and MHWDDHTM > 1.740	9-13 year old female taller than 1.740 metres
1.830	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and MHWDDHTM > 1.830	14-18 year old female taller than 1.830 metres
1.805	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and MHWDDHTM > 1.805	19-60 year old female taller than 1.805 metres
1.755	DHHD_SEX = 2 and DHHD_AGE >= 61 and MHWDDHTM > 1.755	female aged 61 or older taller than 1.755 metres

2) Weight (kilograms) – measured, grouped

Variable name: MHWGDKWTK

Based on: MHWDDHTM

Description: This variable indicates the respondent's weight in kilograms as measured by an interviewer.

Note (1): This variable applies to respondents aged 2 and over.

Note (2): During sample selection of CCHS Cycle 2.2, 10% of the sample aged 18 and over were assigned the code HWTDFDO = 2 (DOMEAS = 2). Respondents with HWTDFDO=2 were first asked to self-report their height and weight and then have their height and weight measured by the interviewer. However, respondents' height and weight were not measured if they had refused to self-report their body measures.

Note (3): The variable MHWDDWTK indicates the weight of the respondent in kilograms, without groupings or collapsing. The variable is not included in the Public Use Microdata File.

Technical Specs: In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in the table entitled “Collapsed extreme values of MHWDDWTK” below.

Value of MHWDDWTK	Condition(s)	Description
999.96 (NA)	DHHD_AGE < 2	Population exclusion
999.99 (NS)	MHWD_N1C = 2 or MHWD_N1 = 1 or MHWD_5A = 2 or MHWD_5B = 2 or MHWD_5C = 2	Respondents who could not be measured due to their condition, unavailability, or refusal
999.99 (NS)	HWTDFDO = 2 and (HWTD_2 = R or HWTD_3 = R)	Respondent with HWTDFDO=2 who refused to self-report his/her height or weight in “Self-reported Height and Weight Module”
999.99 (NS)	(MHWD_N6 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
MHWD_N6	0 < MHWD_N6 < NA	Weight in kilograms

Collapsed extreme values of MHWDDWTK

Collapsed value	Condition	Description
11.25	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and MHWDDWTK < 11.25	2-3 year old male weighing less than 11.25 kilograms
13.63	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and MHWDDWTK < 13.63	4-8 year old male weighing less than 13.63 kilograms
24.40	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and MHWDDWTK < 24.40	9-13 year old male weighing less than 24.40 kilograms
38.50	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and MHWDDWTK < 38.50	14-18 year old male weighing less than 38.50 kilograms
54.85	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and MHWDDWTK < 54.85	19-60 year old male weighing less than 54.85 kilograms
51.20	DHHD_SEX = 1 and DHHD_AGE >= 61 and MHWDDWTK < 51.20	male aged 61 or older weighing less than 51.20 kilograms
9.54	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and MHWDDWTK < 9.54	2-3 year old female weighing less than 9.54 kilograms
14.00	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and MHWDDWTK < 14.00	4-8 year old female weighing less than 14.00 kilograms
22.65	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and MHWDDWTK < 22.65	9-13 year old female weighing less than 22.65 kilograms
38.20	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and MHWDDWTK < 38.20	14-18 year old female weighing less than 38.20 kilograms
44.95	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and MHWDDWTK < 44.95	19-60 year old female weighing less than 44.95 kilograms
42.05	DHHD_SEX = 2 and DHHD_AGE >= 61 and MHWDDWTK < 42.05	female aged 61 or older weighing less than 42.05 kilograms
26.40	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and	2-3 year old male weighing more than 26.40 kilograms

Collapsed value	Condition	Description
	MHWDDWTK > 26.40	
52.35	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and MHWDDWTK > 52.35	4-8 year old male weighing more than 52.35 kilograms
96.25	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and MHWDDWTK > 96.25	9-13 year old male weighing more than 96.25 kilograms
142.40	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and MHWDDWTK > 142.40	14-18 year old male weighing more than 142.40 kilograms
136.65	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and MHWDDWTK > 136.65	19-60 year old male weighing more than 136.65 kilograms
126.90	DHHD_SEX = 1 and DHHD_AGE >= 61 and MHWDDWTK > 126.90	male aged 61 or older weighing more than 126.90 kilograms
22.00	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and MHWDDWTK > 22.00	2-3 year old female weighing more than 22.00 kilograms
47.45	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and MHWDDWTK > 47.45	4-8 year old female weighing more than 47.45 kilograms
88.60	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and MHWDDWTK > 88.60	9-13 year old female weighing more than 88.60 kilograms
122.50	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and MHWDDWTK > 122.50	14-18 year old female weighing more than 122.50 kilograms
132.00	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and MHWDDWTK > 132.00	19-60 year old female weighing more than 132.00 kilograms
120.00	DHHD_SEX = 2 and DHHD_AGE >= 61 and MHWDDWTK > 120.00	female aged 61 or older weighing more than 120.00 kilograms

3) Reasons for not calculating BMI

Variable name: MHWDDRSN

Based on: MHWDDRSN, MHWDDWTK, MHWDDWTK > 26.40, MHWDDWTK > 52.35, MHWDDWTK > 96.25, MHWDDWTK > 142.40, MHWDDWTK > 136.65, MHWDDWTK > 126.90, MHWDDWTK > 22.00, MHWDDWTK > 47.45, MHWDDWTK > 88.60, MHWDDWTK > 122.50, MHWDDWTK > 132.00, MHWDDWTK > 120.00

Description: This variable indicates reasons why the Body Mass Index (BMI) was not calculated.

Value of MHWDDRSN	Condition(s)	Description
96 (NA)	DHHD_AGE < 2	Population exclusion
1	MHWDDWTK > 26.40 and (MHWDDWTK > 52.35 and MHWDDWTK > 96.25 and MHWDDWTK > 142.40 and MHWDDWTK > 136.65 and MHWDDWTK > 126.90)	Respondent not available to be measured
2	MHWDDWTK > 22.00 and (MHWDDWTK > 47.45 and MHWDDWTK > 88.60 and MHWDDWTK > 122.50)	Respondent too tall for interviewer to measure his/her height
3	MHWDDWTK > 132.00 and (MHWDDWTK > 120.00 and MHWDDWTK > 142.40 and MHWDDWTK > 136.65 and MHWDDWTK > 126.90)	Not able to measure due to respondent's physical condition

Value of MHWDDRSN	Condition(s)	Description
	MHWD_N2D = 1)	
4	MHWD_N1 = 1 and MHWD_N2G = 2 and (MHWD_N2E = 1 or MHWD_N2F = 1)	Interview setting is a problem
5	MHWD_N1 = 1 and MHWD_N2G = 2 and MHWD_N2J = 1	Measuring equipment (e.g. unavailable, scale malfunction, respondent's weight exceeds scale capacity, interviewer not able to carry equipment due to health problems)
6	MHWD_N1 = 1 and MHWD_N2G = 2 and MHWD_N2K = 1	Telephone interview
7	MHWD_5A = 2 or MHWD_5C = 2 or (MHWD_N1 = 1 and MHWD_N2G = 1)	Respondent refused permission to be measured by the interviewer
8	HWTDFDO = 2 and (HWTD_2 = R or HWTD_3 = R)	Respondent refused to self-report either height or weight
9	(MHWD_N8 = DK, R, NS) or (MHWD_N6 = DK, R, NS)	Measured height or weight value not recorded
10	(MHWD_N1 = 1 and MHWD_N2G = 2 and MHWD_N2H = 1) or (WHCD_03 = 1, DK, R, NS)	Other reason, includes unknown pregnancy status
11	Else	Respondent's measured height or weight value available

4) Body Mass Index (BMI) – measured, grouped

Variable name: MHWGDGBMI

Based on: MHWDFHW, MHWGDGHTM, MHWGDGWTK

Description: Body Mass Index (BMI) is calculated by dividing weight in kilograms by height in metres squared.

$$(BMI = WEIGHT (KG) / HEIGHT (METRES) SQUARED)$$

Here, BMI is a comparison of “measured weight” relative to the “measured height” of respondents.

Note (1): BMI is not calculated for pregnant women. Although calculation of BMI is not recommended for lactating women, the index provided here is calculated for women who report that they are breastfeeding (WHCD_05 = 1) to permit comparability with previous CCHS cycles.

Note (2): For Cycles 1.1 and 1.2 of CCHS, BMI was calculated only for respondents aged 20-64. For Cycle 2.1, BMI was calculated for respondents aged 18 and over. For Cycle 2.2, BMI is calculated for persons aged 2 and over.

Note (3): This BMI classification is created using “measured height” and “measured weight” variables.

Note (4): For information about respondents for whom a valid measured height and weight was not obtained, see derived variable MHWDDRSN.

Note (5): The variable MHWDDDBMI indicates the Body Mass Index without groupings or collapsing. The variable is not included in the Public Use Microdata File.

Technical Specs: In order to ensure certain individuals were not identifiable, some records have been collapsed as indicated in the table entitled “Collapsed extreme values of MHWGDGBMI” below.

Value of MHWGDGBMI	Condition(s)	Description
999.96 (NA)	DHHD_AGE < 2	Population exclusion

999.99 (NS)	MHWDFHW = 2	Respondents for whom a valid measured height and weight was not obtained
999.99 (NS)	DHHD_SEX = 2 and (WHCD_03 = DK, R, NS)	Females who did not answer the pregnancy question (don't know, refusal, not stated)
MHWGWTM / (MHWGHTM x MHWGHTM) (rounded to two decimal places)	MHWDFHW = 1	BMI calculated from both measured height and measured weight values

Collapsed extreme values of MHWGWTM

Collapsed value	Condition	Description
13.15	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and MHWGWTM < 13.15	2-3 year old male having BMI less than 13.15
11.63	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and MHWGWTM < 11.63	4-8 year old male having BMI less than 11.63
13.59	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and MHWGWTM < 13.59	9-13 year old male having BMI less than 13.59
15.17	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and MHWGWTM < 15.17	14-18 year old male having BMI less than 15.17
18.41	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and MHWGWTM < 18.41	19-60 year old male having BMI less than 18.41
17.32	DHHD_SEX = 1 and DHHD_AGE >= 61 and MHWGWTM < 17.32	male aged 61 or older having BMI less than 17.32
12.95	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and MHWGWTM < 12.95	2-3 year old female having BMI less than 12.95
12.14	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and MHWGWTM < 12.14	4-8 year old female having BMI less than 12.14
13.12	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and MHWGWTM < 13.12	9-13 year old female having BMI less than 13.12
14.71	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and MHWGWTM < 14.71	14-18 year old female having BMI less than 14.71
17.34	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and MHWGWTM < 17.34	19-60 year old female having BMI less than 17.34
17.59	DHHD_SEX = 2 and DHHD_AGE >= 61 and MHWGWTM < 17.59	female aged 61 or older having BMI less than 17.59
26.66	DHHD_SEX = 1 and 2 <= DHHD_AGE <= 3 and MHWGWTM > 26.66	2-3 year old male having BMI more than 26.66
28.27	DHHD_SEX = 1 and 4 <= DHHD_AGE <= 8 and MHWGWTM > 28.27	4-8 year old male having BMI more than 28.27
38.95	DHHD_SEX = 1 and 9 <= DHHD_AGE <= 13 and MHWGWTM > 38.95	9-13 year old male having BMI more than 38.95
41.91	DHHD_SEX = 1 and 14 <= DHHD_AGE <= 18 and MHWGWTM > 41.91	14-18 year old male having BMI more than 41.91

Collapsed value	Condition	Description
44.19	DHHD_SEX = 1 and 19 <= DHHD_AGE <= 60 and MHWDDBMI > 44.19	19-60 year old male having BMI more than 44.19
43.59	DHHD_SEX = 1 and DHHD_AGE >= 61 and MHWDDBMI > 43.59	male aged 61 or older having BMI more than 43.59
24.80	DHHD_SEX = 2 and 2 <= DHHD_AGE <= 3 and MHWDDBMI > 24.80	2-3 year old female having BMI more than 24.80
28.96	DHHD_SEX = 2 and 4 <= DHHD_AGE <= 8 and MHWDDBMI > 28.96	4-8 year old female having BMI more than 28.96
37.93	DHHD_SEX = 2 and 9 <= DHHD_AGE <= 13 and MHWDDBMI > 37.93	9-13 year old female having BMI more than 37.93
45.74	DHHD_SEX = 2 and 14 <= DHHD_AGE <= 18 and MHWDDBMI > 45.74	14-18 year old female having BMI more than 45.74
50.32	DHHD_SEX = 2 and 19 <= DHHD_AGE <= 60 and MHWDDBMI > 50.32	19-60 year old female having BMI more than 50.32
47.38	DHHD_SEX = 2 and DHHD_AGE >= 61 and MHWDDBMI > 47.38	female aged 61 or older having BMI more than 47.38

5) BMI classification for adults aged 18 and over (measured, grouped) - international standard

Variable name: MHWDDGISW

Based on: MHWDDGBMI

Description: This variable assigns adult respondents aged 18 and over (except pregnant women) to one of the following categories, according to their BMI: underweight, acceptable weight, overweight, or obese. Here, the BMI categories are adopted from a body weight classification system recommended by Health Canada and the World Health Organization (WHO) which has been widely used internationally.

According to Health Canada, this BMI classification system can be used as a screening tool to identify weight-related health risks at the population and individual levels. The following health risks are associated with each of the BMI categories for adults aged 18 and over:

- normal weight = least health risk;
- underweight and overweight = increased health risk;
- obese class I = high health risk;
- obese class II = very high health risk;
- obese class III = extremely high health risk

At the population level, the BMI classification system can be used to compare body weight patterns and related health risks within and between populations and to establish population trends in body weight patterns. The classification should be used with caution at the individual level because the health risk associated with each BMI category varies considerably between individuals. In addition, particular caution should be used when classifying: adults who are naturally very lean, very muscular adults, some ethnic and racial groups, and seniors. For more detailed information see *Canadian Guidelines for Body Weight Classification in Adults*, Health Canada, 2003 (available online at: http://www.hc-sc.gc.ca/fn-an/nutrition/weights-poids/cg_bwc_int-ld_cpa_int_e.html).

Note: This variable excludes female respondents aged 18 to 55 who were pregnant or did not answer the pregnancy question (i.e. WHCD_03 = Don't Know, Refusal, Not stated).

Value of MHWDDGISW	Condition(s)	Description
6 (NA)	MHWDDGBMI = NA or DHHD_AGE < 18	Population exclusion

9 (NS)	MHWDGBMI = NS	At least one required question was not answered (don't know, refusal, not stated)
1	MHWDGBMI < 18.50	Underweight
2	(18.50 <= MHWDGBMI <= 24.99)	Normal weight
3	(25.00 <= MHWDGBMI <= 29.99)	Overweight
4	(30.00 <= MHWDGBMI <= NA)	Obese – Class I,II,III

6) BMI classification for children aged 2 to 17 (measured) - Cole classification system

Variable name: MHWDGCOL

Based on: MHWDGBMI, DHHD_SEX, DHHD_AGM

Description: This variable classifies the measured BMI of children aged 2 to 17 as “obese” or “overweight” according to the age-and-sex-specific BMI cut-off points as defined by Cole et al. The Cole cut-off points are based on pooled international data (Brazil, Great Britain, Hong Kong, Netherlands, Singapore, and United States) for BMI and linked to the internationally accepted adult BMI cut-off points of 25 (overweight) and 30 kg/m² (obese). For more information about the Cole BMI classification system, see *Establishing a Standard Definition for Child Overweight and Obesity Worldwide - International survey*, by Tim J Cole, Mary C Bellizzi, Katherine M. Flegal, William H Dietz, published in British Medical Journal, Volume: 320, May 2000.

Note (1): Respondents who do not fall within the categories of “Obese” or “Overweight” (as defined by Cole et al.) have been classified by CCHS as “neither obese nor overweight”.

Note (2): This variable excludes female respondents aged 15 to 17 who were pregnant or did not answer the pregnancy question (i.e. WHCD_03 = Don't Know, Refusal, Not stated).

Note (3): This variable excludes respondents who are 216 months in age, i.e. 18 years old or older.

Temporary reformat

Condition(s)	Description
If DHHD_AGM < 9996, then AGEDT1 = DHHD_AGM / 12 (rounded to nearest 0.5)	Convert respondent's “age in months” to “age in years”

Value of MHWDGCOL	Condition(s)	Description
6 (NA)	DHHD_AGE < 2 or DHHD_AGM >= 216	Population exclusion
9 (NS)	MHWDGBMI = NS	At least one required question was not answered (don't know, refusal, not stated)
3	(AGEDT1 = 2 and DHHD_SEX = 1 and MHWDGBMI >= 20.09) or (AGEDT1 = 2 and DHHD_SEX = 2 and MHWDGBMI >= 19.81) or (AGEDT1 = 2.5 and DHHD_SEX = 1 and MHWDGBMI >= 19.80) or (AGEDT1 = 2.5 and DHHD_SEX = 2 and MHWDGBMI >= 19.55) or (AGEDT1 = 3 and DHHD_SEX = 1 and MHWDGBMI >= 19.57) or (AGEDT1 = 3 and DHHD_SEX = 2 and MHWDGBMI >= 19.36) or (AGEDT1 = 3.5 and DHHD_SEX = 1 and MHWDGBMI >= 19.39) or (AGEDT1 = 3.5 and DHHD_SEX = 2 and MHWDGBMI >= 19.23) or (AGEDT1 = 4 and DHHD_SEX = 1 and MHWDGBMI >= 19.29) or (AGEDT1 = 4 and DHHD_SEX = 2 and MHWDGBMI >= 19.15) or (AGEDT1 = 4.5 and DHHD_SEX = 1 and	Obese

Value of MHWDCOL	Condition(s)	Description
	MHWDCOL >= 19.26) or (AGEDT1 = 4.5 and DHHD_SEX = 2 and MHWDCOL >= 19.12) or (AGEDT1 = 5 and DHHD_SEX = 1 and MHWDCOL >= 19.30) or (AGEDT1 = 5 and DHHD_SEX = 2 and MHWDCOL >= 19.17) or (AGEDT1 = 5.5 and DHHD_SEX = 1 and MHWDCOL >= 19.47) or (AGEDT1 = 5.5 and DHHD_SEX = 2 and MHWDCOL >= 19.34) or (AGEDT1 = 6 and DHHD_SEX = 1 and MHWDCOL >= 19.78) or (AGEDT1 = 6 and DHHD_SEX = 2 and MHWDCOL >= 19.65) or (AGEDT1 = 6.5 and DHHD_SEX = 1 and MHWDCOL >= 20.23) or (AGEDT1 = 6.5 and DHHD_SEX = 2 and MHWDCOL >= 20.08) or (AGEDT1 = 7 and DHHD_SEX = 1 and MHWDCOL >= 20.63) or (AGEDT1 = 7 and DHHD_SEX = 2 and MHWDCOL >= 20.51) or (AGEDT1 = 7.5 and DHHD_SEX = 1 and MHWDCOL >= 21.09) or (AGEDT1 = 7.5 and DHHD_SEX = 2 and MHWDCOL >= 21.01) or (AGEDT1 = 8 and DHHD_SEX = 1 and MHWDCOL >= 21.60) or (AGEDT1 = 8 and DHHD_SEX = 2 and MHWDCOL >= 21.57) or (AGEDT1 = 8.5 and DHHD_SEX = 1 and MHWDCOL >= 22.17) or (AGEDT1 = 8.5 and DHHD_SEX = 2 and MHWDCOL >= 22.18) or (AGEDT1 = 9 and DHHD_SEX = 1 and MHWDCOL >= 22.77) or (AGEDT1 = 9 and DHHD_SEX = 2 and MHWDCOL >= 22.81) or (AGEDT1 = 9.5 and DHHD_SEX = 1 and MHWDCOL >= 23.39) or (AGEDT1 = 9.5 and DHHD_SEX = 2 and MHWDCOL >= 23.46) or (AGEDT1 = 10 and DHHD_SEX = 1 and MHWDCOL >= 24.00) or (AGEDT1 = 10 and DHHD_SEX = 2 and MHWDCOL >= 24.11) or (AGEDT1 = 10.5 and DHHD_SEX = 1 and MHWDCOL >= 24.57) or (AGEDT1 = 10.5 and DHHD_SEX = 2 and MHWDCOL >= 24.77) or (AGEDT1 = 11 and DHHD_SEX = 1 and MHWDCOL >= 25.10) or (AGEDT1 = 11 and DHHD_SEX = 2 and MHWDCOL >= 25.42) or (AGEDT1 = 11.5 and DHHD_SEX = 1 and MHWDCOL >= 25.58) or (AGEDT1 = 11.5 and DHHD_SEX = 2 and MHWDCOL >= 26.05) or (AGEDT1 = 12 and DHHD_SEX = 1 and	

Value of MHWDCOL	Condition(s)	Description
	MHWDCOL >= 26.02) or (AGEDT1 = 12 and DHHDCOL = 2 and MHWDCOL >= 26.67) or (AGEDT1 = 12.5 and DHHDCOL = 1 and MHWDCOL >= 26.43) or (AGEDT1 = 12.5 and DHHDCOL = 2 and MHWDCOL >= 27.24) or (AGEDT1 = 13 and DHHDCOL = 1 and MHWDCOL >= 26.84) or (AGEDT1 = 13 and DHHDCOL = 2 and MHWDCOL >= 27.76) or (AGEDT1 = 13.5 and DHHDCOL = 1 and MHWDCOL >= 27.25) or (AGEDT1 = 13.5 and DHHDCOL = 2 and MHWDCOL >= 28.20) or (AGEDT1 = 14 and DHHDCOL = 1 and MHWDCOL >= 27.63) or (AGEDT1 = 14 and DHHDCOL = 2 and MHWDCOL >= 28.57) or (AGEDT1 = 14.5 and DHHDCOL = 1 and MHWDCOL >= 27.98) or (AGEDT1 = 14.5 and DHHDCOL = 2 and MHWDCOL >= 28.87) or (AGEDT1 = 15 and DHHDCOL = 1 and MHWDCOL >= 28.30) or (AGEDT1 = 15 and DHHDCOL = 2 and MHWDCOL >= 29.11) or (AGEDT1 = 15.5 and DHHDCOL = 1 and MHWDCOL >= 28.60) or (AGEDT1 = 15.5 and DHHDCOL = 2 and MHWDCOL >= 29.29) or (AGEDT1 = 16 and DHHDCOL = 1 and MHWDCOL >= 28.88) or (AGEDT1 = 16 and DHHDCOL = 2 and MHWDCOL >= 29.43) or (AGEDT1 = 16.5 and DHHDCOL = 1 and MHWDCOL >= 29.14) or (AGEDT1 = 16.5 and DHHDCOL = 2 and MHWDCOL >= 29.56) or (AGEDT1 = 17 and DHHDCOL = 1 and MHWDCOL >= 29.41) or (AGEDT1 = 17 and DHHDCOL = 2 and MHWDCOL >= 29.69) or (AGEDT1 = 17.5 and DHHDCOL = 1 and MHWDCOL >= 29.70) or (AGEDT1 = 17.5 and DHHDCOL = 2 and MHWDCOL >= 29.84) or (AGEDT1 = 18 and DHHDCOL = 1 and MHWDCOL >= 30.00) or (AGEDT1 = 18 and DHHDCOL = 2 and MHWDCOL >= 30.00)	
2	(AGEDT1 = 2 and DHHDCOL = 1 and (18.41 <= MHWDCOL < 20.09)) or (AGEDT1 = 2 and DHHDCOL = 2 and (18.02 <= MHWDCOL < 19.81)) or (AGEDT1 = 2.5 and DHHDCOL = 1 and (18.13 <= MHWDCOL < 19.80)) or (AGEDT1 = 2.5 and DHHDCOL = 2 and (17.76 <= MHWDCOL < 19.55)) or (AGEDT1 = 3 and DHHDCOL = 1 and	Overweight

Value of MHWDCOL	Condition(s)	Description
	<p>(17.89 <= MHWDCOL < 19.57)) or (AGEDT1 = 3 and DHHDCOL = 2 and (17.56 <= MHWDCOL < 19.36)) or (AGEDT1 = 3.5 and DHHDCOL = 1 and (17.69 <= MHWDCOL < 19.39)) or (AGEDT1 = 3.5 and DHHDCOL = 2 and (17.40 <= MHWDCOL < 19.23)) or (AGEDT1 = 4 and DHHDCOL = 1 and (17.55 <= MHWDCOL < 19.29)) or (AGEDT1 = 4 and DHHDCOL = 2 and (17.28 <= MHWDCOL < 19.15)) or (AGEDT1 = 4.5 and DHHDCOL = 1 and (17.47 <= MHWDCOL < 19.26)) or (AGEDT1 = 4.5 and DHHDCOL = 2 and (17.19 <= MHWDCOL < 19.12)) or (AGEDT1 = 5 and DHHDCOL = 1 and (17.42 <= MHWDCOL < 19.30)) or (AGEDT1 = 5 and DHHDCOL = 2 and (17.15 <= MHWDCOL < 19.17)) or (AGEDT1 = 5.5 and DHHDCOL = 1 and (17.45 <= MHWDCOL < 19.47)) or (AGEDT1 = 5.5 and DHHDCOL = 2 and (17.20 <= MHWDCOL < 19.34)) or (AGEDT1 = 6 and DHHDCOL = 1 and (17.55 <= MHWDCOL < 19.78)) or (AGEDT1 = 6 and DHHDCOL = 2 and (17.34 <= MHWDCOL < 19.65)) or (AGEDT1 = 6.5 and DHHDCOL = 1 and (17.71 <= MHWDCOL < 20.23)) or (AGEDT1 = 6.5 and DHHDCOL = 2 and (17.53 <= MHWDCOL < 20.08)) or (AGEDT1 = 7 and DHHDCOL = 1 and (17.92 <= MHWDCOL < 20.63)) or (AGEDT1 = 7 and DHHDCOL = 2 and (17.75 <= MHWDCOL < 20.51)) or (AGEDT1 = 7.5 and DHHDCOL = 1 and (18.16 <= MHWDCOL < 21.09)) or (AGEDT1 = 7.5 and DHHDCOL = 2 and (18.03 <= MHWDCOL < 21.01)) or (AGEDT1 = 8 and DHHDCOL = 1 and (18.44 <= MHWDCOL < 21.60)) or (AGEDT1 = 8 and DHHDCOL = 2 and (18.35 <= MHWDCOL < 21.57)) or (AGEDT1 = 8.5 and DHHDCOL = 1 and (18.76 <= MHWDCOL < 22.17)) or (AGEDT1 = 8.5 and DHHDCOL = 2 and (18.69 <= MHWDCOL < 22.18)) or (AGEDT1 = 9 and DHHDCOL = 1 and (19.10 <= MHWDCOL < 22.77)) or (AGEDT1 = 9 and DHHDCOL = 2 and (19.07 <= MHWDCOL < 22.81)) or (AGEDT1 = 9.5 and DHHDCOL = 1 and (19.46 <= MHWDCOL < 23.39)) or (AGEDT1 = 9.5 and DHHDCOL = 2 and (19.45 <= MHWDCOL < 23.46)) or (AGEDT1 = 10 and DHHDCOL = 1 and (19.84 <= MHWDCOL < 24.00)) or (AGEDT1 = 10 and DHHDCOL = 2 and (19.86 <= MHWDCOL < 24.11)) or (AGEDT1 = 10.5 and DHHDCOL = 1 and</p>	

Value of MHWDCOL	Condition(s)	Description
	(20.20 <= MHWDCOL < 24.57)) or (AGEDT1 = 10.5 and DHHDCOL = 2 and (20.29 <= MHWDCOL < 24.77)) or (AGEDT1 = 11 and DHHDCOL = 1 and (20.55 <= MHWDCOL < 25.10)) or (AGEDT1 = 11 and DHHDCOL = 2 and (20.74 <= MHWDCOL < 25.42)) or (AGEDT1 = 11.5 and DHHDCOL = 1 and (20.89 <= MHWDCOL < 25.58)) or (AGEDT1 = 11.5 and DHHDCOL = 2 and (21.20 <= MHWDCOL < 26.05)) or (AGEDT1 = 12 and DHHDCOL = 1 and (21.22 <= MHWDCOL < 26.02)) or (AGEDT1 = 12 and DHHDCOL = 2 and (21.68 <= MHWDCOL < 26.67)) or (AGEDT1 = 12.5 and DHHDCOL = 1 and (21.56 <= MHWDCOL < 26.43)) or (AGEDT1 = 12.5 and DHHDCOL = 2 and (22.14 <= MHWDCOL < 27.24)) or (AGEDT1 = 13 and DHHDCOL = 1 and (21.91 <= MHWDCOL < 26.84)) or (AGEDT1 = 13 and DHHDCOL = 2 and (22.58 <= MHWDCOL < 27.76)) or (AGEDT1 = 13.5 and DHHDCOL = 1 and (22.27 <= MHWDCOL < 27.25)) or (AGEDT1 = 13.5 and DHHDCOL = 2 and (22.98 <= MHWDCOL < 28.20)) or (AGEDT1 = 14 and DHHDCOL = 1 and (22.62 <= MHWDCOL < 27.63)) or (AGEDT1 = 14 and DHHDCOL = 2 and (23.34 <= MHWDCOL < 28.57)) or (AGEDT1 = 14.5 and DHHDCOL = 1 and (22.96 <= MHWDCOL < 27.98)) or (AGEDT1 = 14.5 and DHHDCOL = 2 and (23.66 <= MHWDCOL < 28.87)) or (AGEDT1 = 15 and DHHDCOL = 1 and (23.29 <= MHWDCOL < 28.30)) or (AGEDT1 = 15 and DHHDCOL = 2 and (23.94 <= MHWDCOL < 29.11)) or (AGEDT1 = 15.5 and DHHDCOL = 1 and (23.60 <= MHWDCOL < 28.60)) or (AGEDT1 = 15.5 and DHHDCOL = 2 and (24.17 <= MHWDCOL < 29.29)) or (AGEDT1 = 16 and DHHDCOL = 1 and (23.90 <= MHWDCOL < 28.88)) or (AGEDT1 = 16 and DHHDCOL = 2 and (24.37 <= MHWDCOL < 29.43)) or (AGEDT1 = 16.5 and DHHDCOL = 1 and (24.19 <= MHWDCOL < 29.14)) or (AGEDT1 = 16.5 and DHHDCOL = 2 and (24.54 <= MHWDCOL < 29.56)) or (AGEDT1 = 17 and DHHDCOL = 1 and (24.46 <= MHWDCOL < 29.41)) or (AGEDT1 = 17 and DHHDCOL = 2 and (24.70 <= MHWDCOL < 29.69)) or (AGEDT1 = 17.5 and DHHDCOL = 1 and (24.73 <= MHWDCOL < 29.70)) or (AGEDT1 = 17.5 and DHHDCOL = 2 and (24.85 <= MHWDCOL < 29.84)) or (AGEDT1 = 18 and DHHDCOL = 1 and 	

Value of MHWDCOL	Condition(s)	Description
	(25.00 <= MHWDCBMI < 30.00)) or (AGEDT1 = 18 and DHHD_SEX = 2 and (25.00 <= MHWDCBMI < 30.00))	
1	Else	Neither overweight nor obese

Fruit and Vegetable Consumption (8 DVs)

1) Daily consumption – fruit juice

Variable name: FVCDDJUI

Based on: FVCD_1, FVCD_1A

Description: This variable indicates the usual number of times per day the respondent drinks fruit juice.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): In the Nutrition Survey (CCHS Cycle 2.2) the wording of questions is identical to that of previous CCHS cycles of 1.1 and 2.1. However, the sequencing of data entry by the interviewer has been modified in this survey. In previous CCHS cycles the interviewer first recorded the “time frame” (e.g. per day, per week, per month, or per year) and then recorded the “number of times” the respondent consumed fruits or vegetables in the chosen time frame. In the Nutrition Survey, the sequence has been reversed so that the interviewer first records the “number of times” followed by the “time frame”. For example, the information is recorded as “2 fruit juices (*number of times*) per week (*time frame*)”. Due to the change in the sequencing of data entry in this survey, derived variable specifications of fruit and vegetable consumption are slightly different from those of previous CCHS cycles.

Note (3): This variable applies to respondents aged 6 months or older.

Value of FVCDDJUI	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	(FVCD_1 = DK, R, NS)	Required question was not answered(don't know, refusal, not stated)
FVCD_1	FVCD_1A = 1	Number of times/day
FVCD_1 / 7 (rounded to one decimal place)	FVCD_1A = 2	Number of times/day (reported “times per week”)
FVCD_1 / 30 (rounded to one decimal place)	FVCD_1A = 3	Number of times/day (reported “times per month”)
FVCD_1 / 365 (rounded to one decimal place)	FVCD_1A = 4	Number of times/day (reported “times per year”)
0	FVCD_1A = 5	Never drinks fruit juice

2) Daily consumption – fruit

Variable name: FVCDDFRU

Based on: FVCD_2, FVCD_2A

Description: This variable indicates the usual number of times per day the respondent consumes fruit, excluding fruit juices.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): In the Nutrition Survey (CCHS Cycle 2.2) the wording of questions is identical to that of previous CCHS cycles of 1.1 and 2.1. However, the sequencing of data entry by the interviewer has been modified in this survey. In previous CCHS cycles the interviewer first recorded the “time frame” (e.g. per day, per week, per month, or per year) and then recorded the “number of times” the respondent consumed fruits or vegetables in the chosen time frame. In the Nutrition Survey, the sequence has been reversed so that the interviewer first records the “number of times” followed by the “time frame”. For example, the information is recorded as “2 fruit juices (*number of times*) per week (*time frame*)”. Due to the change in the sequencing of data entry in this survey, derived variable specifications of fruit and vegetable consumption are slightly different from those of previous CCHS cycles.

Note (3): This variable applies to respondents aged 6 months or older.

Value of FVCDDFRU	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	(FVCD_2 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
FVCD_2	FVCD_2A = 1	Number of times/day
FVCD_2 / 7 (rounded to one decimal place)	FVCD_2A = 2	Number of times/day (reported "times per week")
FVCD_2 / 30 (rounded to one decimal place)	FVCD_2A = 3	Number of times/day (reported "times per month")
FVCD_2 / 365 (rounded to one decimal place)	FVCD_2A = 4	Number of times/day (reported "times per year")
0	FVCD_2A = 5	Never eats fruit

3) Daily consumption – green salad

Variable name: FVCDDFSA

Based on: FVCD_3, FVCD_3A

Description: This variable indicates the usual number of times per day the respondent eats green salad.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): In the Nutrition Survey (CCHS Cycle 2.2) the wording of questions is identical to that of previous CCHS cycles of 1.1 and 2.1. However, the sequencing of data entry by the interviewer has been modified in this survey. In previous CCHS cycles the interviewer first recorded the "time frame" (e.g. per day, per week, per month, or per year) and then recorded the "number of times" the respondent consumed fruits or vegetables in the chosen time frame. In the Nutrition Survey, the sequence has been reversed so that the interviewer first records the "number of times" followed by the "time frame". For example, the information is recorded as "2 fruit juices (*number of times*) per week (*time frame*)". Due to the change in the sequencing of data entry in this survey, derived variable specifications of fruit and vegetable consumption are slightly different from those of previous CCHS cycles.

Note (3): This variable applies to respondents aged 6 months or older.

Value of FVCDDFSA	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	(FVCD_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
FVCD_3	FVCD_3A = 1	Number of times/day
FVCD_3 / 7 (rounded to one decimal place)	FVCD_3A = 2	Number of times/day (reported "times per week")
FVCD_3 / 30 (rounded to one decimal place)	FVCD_3A = 3	Number of times/day (reported "times per month")
FVCD_3 / 365 (rounded to one decimal place)	FVCD_3A = 4	Number of times/day (reported "times per year")
0	FVCD_3A = 5	Never eats green salad

4) Daily consumption – potatoes

Variable name: FVCDDPOT

Based on: FVCD_4, FVCD_4A

Description: This variable indicates the usual number of times per day the respondent eats potatoes, excluding french fries, fried potatoes, or potato chips.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): In the Nutrition Survey (CCHS Cycle 2.2) the wording of questions is identical to that of previous CCHS cycles of 1.1 and 2.1. However, the sequencing of data entry by the interviewer has been modified in this survey. In previous CCHS cycles the interviewer first recorded the "time frame" (e.g. per day, per week, per month, or per year) and then recorded the "number of times" the respondent consumed fruits or vegetables in the chosen time frame. In the Nutrition Survey, the sequence has been reversed so that the interviewer first records the "number of times" followed by the "time frame". For example, the information is recorded as "2 fruit juices (*number of*

times) per week (*time frame*)”. Due to the change in the sequencing of data entry in this survey, derived variable specifications of fruit and vegetable consumption are slightly different from those of previous CCHS cycles.

Note (3): This variable applies to respondents aged 6 months or older.

Value of FVCDPOT	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	(FVCD_4 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
FVCD_4	FVCD_4A = 1	Number of times/day
FVCD_4 / 7 (rounded to one decimal place)	FVCD_4A = 2	Number of times/day (reported “times per week”)
FVCD_4 / 30 (rounded to one decimal place)	FVCD_4A = 3	Number of times/day (reported “times per month”)
FVCD_4 / 365 (rounded to one decimal place)	FVCD_4A = 4	Number of times/day (reported “times per year”)
0	FVCD_4A = 5	Never eats potatoes

5) Daily consumption – carrots

Variable name: FVCDDCAR

Based on: FVCD_5, FVCD_5A

Description: This variable indicates the usual number of times per day the respondent eats carrots.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): In the Nutrition Survey (CCHS Cycle 2.2) the wording of questions is identical to that of previous CCHS cycles of 1.1 and 2.1. However, the sequencing of data entry by the interviewer has been modified in this survey. In previous CCHS cycles the interviewer first recorded the “time frame” (e.g. per day, per week, per month, or per year) and then recorded the “number of times” the respondent consumed fruits or vegetables in the chosen time frame. In the Nutrition Survey, the sequence has been reversed so that the interviewer first records the “number of times” followed by the “time frame”. For example, the information is recorded as “2 fruit juices (*number of times*) per week (*time frame*)”. Due to the change in the sequencing of data entry in this survey, derived variable specifications of fruit and vegetable consumption are slightly different from those of previous CCHS cycles.

Note (3): This variable applies to respondents aged 6 months or older.

Value of FVCDDCAR	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	(FVCD_5 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
FVCD_5	FVCD_5A = 1	Number of times/day
FVCD_5 / 7 (rounded to one decimal place)	FVCD_5A = 2	Number of times/day (reported “times per week”)
FVCD_5 / 30 (rounded to one decimal place)	FVCD_5A = 3	Number of times/day (reported “times per month”)
FVCD_5 / 365 (rounded to one decimal place)	FVCD_5A = 4	Number of times/day (reported “times per year”)
0	FVCD_5A = 5	Never eats carrots

6) Daily consumption – other vegetables

Variable name: FVCDVEG

Based on: FVCD_6, FVCD_6A

Description: This variable indicates the respondent’s usual daily consumption of vegetables excluding carrots, potatoes, or salad. Respondents are asked to report in “servings” rather than “times” so that all different fruits and vegetables eaten at the same meal are counted. Servings should not be interpreted as referring to a specific quantity.

Note (1): In the Nutrition Survey (CCHS Cycle 2.2) the wording of questions is identical to that of previous CCHS cycles of 1.1 and 2.1. However, the sequencing of data entry by the interviewer has been modified in this survey.

In previous CCHS cycles the interviewer first recorded the “time frame” (e.g. per day, per week, per month, or per year) and then recorded the “number of times/servings” the respondent consumed fruits or vegetables in the chosen time frame. In Nutrition Survey, the sequence has been reversed so that the interviewer first records the “number of times/servings” followed by the “time frame”. For example, the information is recorded as “2 fruit juices (*number of times*) per week (*time frame*)”. Due to the change in the sequencing of data entry in this survey, derived variable specifications of fruit and vegetable consumption are slightly different from those of previous CCHS cycles.

Note (2): This variable applies to respondents aged 6 months or older.

Value of FVCDVEG	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	(FVCD_6 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
FVCD_6	FVCD_6A = 1	Number of servings/day
FVCD_6 / 7 (rounded to one decimal place)	FVCD_6A = 2	Number of servings /day (reported “servings per week”)
FVCD_6 / 30 (rounded to one decimal place)	FVCD_6A = 3	Number of servings /day (reported “servings per month”)
FVCD_6 / 365 (rounded to one decimal place)	FVCD_6A = 4	Number of servings /day (reported “servings per year”)
0	FVCD_6A = 5	Never eats other vegetables

7) Daily consumption – total fruits and vegetables

Variable name: FVCDTOT

Based on: FVCDJUI, FVCDFRU, FVCDSSAL, FVCDPOT, FVCDCAR, FVCDVEG

Description: This variable indicates the total number of times per day the respondent eats fruits and vegetables.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): This variable applies to respondents aged 6 months or older.

Value of FVCDTOT	Condition(s)	Description
999.6 (NA)	FVCD_1 = NA	Population exclusion
999.9 (NS)	FVCDJUI = NS or FVCDFRU = NS or FVCDSSAL = NS or FVCDPOT = NS or FVCDCAR = NS or FVCDVEG = NS	At least one required question was not answered (don't know, refusal, not stated)
FVCDJUI + FVCDFRU + FVCDSSAL + FVCDPOT + FVCDCAR + FVCDVEG (min: 0.0; max: 120.0)	(0 <= FVCDJUI <= 20) and (0 <= FVCDFRU <= 20) and (0 <= FVCDSSAL <= 20) and (0 <= FVCDPOT <= 20) and (0 <= FVCDCAR <= 20) and (0 <= FVCDVEG <= 20)	Total number of times the respondent eats fruits and vegetables

8) Grouping of daily consumption – total fruit and vegetable

Variable name: FVCDGTOT

Based on: FVCDTOT

Description: This variable classifies the respondent based on the total number of times per day he/she eats fruits and vegetables.

Note (1): The CCHS measures the number of times (frequency), not the amount consumed.

Note (2): This variable applies to respondents aged 6 months or older.

Value of FVCDGTOT	Condition(s)	Description
6 (NA)	FVCDDTOT = NA	Population exclusion
9 (NS)	FVCDDTOT = NS	At least one required question was not answered (don't know, refusal, not stated)
1	FVCDDTOT < 5	Eats fruits and vegetables less than 5 times per day
2	(5 <= FVCDDTOT <= 10)	Eats fruits and vegetables between 5 and 10 times per day
3	FVCDDTOT > 10	Eats fruits and vegetables more than 10 times per day

Chronic Conditions (2 DVs)

1) Diabetes – age first diagnosed, grouped

Variable name: CCCDG102

Based on: CCCD_102

Description: This variable indicates the age at which the respondent was first diagnosed by a health professional as having diabetes, grouped.

Note (1): In some other cycles of the CCHS, this variable was published in the Public Use Microdata File with different age groupings. Users are cautioned to avoid direct comparisons of this variable to previous CCHS and NPHS cycles.

Note (2): The variable CCCD_102 indicates the age of the respondent when first diagnosed with diabetes, without groupings or collapsing. The variable is not included in the Public Use Microdata File.

Value of CCCDG102	Condition(s)	Description
96 (NA)	CCCD_101 = 2	Population exclusion
99 (NS)	(CCCD_101 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	0 <= CCCD_102 <= 13	Diagnosed before the age of 14 years.
2	14 <= CCCD_102 <= 18	Diagnosed between the ages of 14 and 18 years.
3	19 <= CCCD_102 <= 24	Diagnosed between the ages of 19 and 24 years.
4	25 <= CCCD_102 <= 30	Diagnosed between the ages of 25 and 30 years.
5	31 <= CCCD_102 <= 35	Diagnosed between the ages of 31 and 35 years.
6	36 <= CCCD_102 <= 40	Diagnosed between the ages of 36 and 40 years.
7	41 <= CCCD_102 <= 45	Diagnosed between the ages of 41 and 45 years.
8	46 <= CCCD_102 <= 50	Diagnosed between the ages of 46 and 50 years.
9	51 <= CCCD_102 <= 55	Diagnosed between the ages of 51 and 55 years.
10	56 <= CCCD_102 <= 60	Diagnosed between the ages of 56 and 60 years.
11	61 <= CCCD_102 <= 65	Diagnosed between the ages of 61 and 65 years.
12	66 <= CCCD_102 <= 70	Diagnosed between the ages of 66 and 70 years.
13	CCCD_102 >= 71	Diagnosed after the age of 70 years.

2) Has a chronic condition

Variable name: CCCDF1

Based on: CCCD_071, CCCD_101, CCCD_121, CCCD_131, CCCD_141, CCCD_171, CCCD_401, CCCD_901

Description: This variable indicates whether the respondent has one or more chronic health conditions which are expected to last or have already lasted six months or more and that have been diagnosed by a health professional.

Note: In previous CCHS cycles, the chronic condition variable was based on at least one positive response to more than 20 health conditions, compared to seven for this CCHS cycle. Users are cautioned to avoid direct comparisons of this variable to previous CCHS and NPHS cycles.

Value of CCCDF1	Condition(s)	Description
2	CCCD_071 = 2 and CCCD_101 = 2 and CCCD_121 = 2 and CCCD_131 = 2 and CCCD_141 = 2 and CCCD_171 = 2 and (CCCD_401 = 2, NA) and CCCD_901 = 2	Has no chronic conditions
1	CCCD_071 = 1 or CCCD_101 = 1 or CCCD_121 = 1 or CCCD_131 = 1 or CCCD_141 = 1 or CCCD_171 = 1 or CCCD_401 = 1 or CCCD_901 = 1	Has at least one chronic condition
9 (NS)	(CCCD_071 = DK, R, NS) or (CCCD_101 = DK, R, NS) or (CCCD_121 = DK, R, NS) or (CCCD_131 = DK, R, NS) or (CCCD_141 = DK, R, NS) or (CCCD_171 = DK, R, NS) or (CCCD_401 = DK, R, NS) or (CCCD_901 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)

Smoking (2 DVs)

1) Type of smoker

Variable name: SMKDDSTY

Based on: SMKD_01A, SMKD_202, SMKD_05D

Description: This variable indicates the type of smoker the respondent is based on his/her smoking habits.

Note (1): In the Nutrition Survey (Cycle 2.2), unlike previous cycles, respondents were not asked whether they had “ever smoked a whole cigarette”. This factor was therefore not included in the calculation of this derived variable.

Note (2): This variable applies to respondents aged 12 and over.

Value of SMKDDSTY	Condition(s)	Description
96 (NA)	SMKD_01A = NA	Population exclusion
1	SMKD_202 = 1	Daily smoker
2	SMKD_202 = 2 and SMKD_05D = 1	Occasional smoker (former daily smoker)
3	SMKD_202 = 2 and (SMKD_05D = 2, NA)	Occasional smoker (never a daily smoker or has smoked less than 100 cigarettes lifetime)
4	SMKD_202 = 3 and SMKD_05D = 1	Former daily smoker (non-smoker now)
5	SMKD_01A = 1 and SMKD_202 = 3 and SMKD_05D = 2	Former occasional smoker (non-smoker now)
6	SMKD_01A = 2 and SMKD_202 = 3	Never smoked
99 (NS)	(SMKD_01A = DK, R, NS) or (SMKD_202 = DK, R, NS) or (SMKD_05D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)

2) Number of years since stopping smoking completely

Variable name: SMKDDSTP

Based on: SMKD_06A, SMKD_09A, SMKD_10, SMKD_10A, SMKDDSTY

Description: This variable indicates the approximate number of years since former smokers completely quit smoking.

Note (1): Current smokers and respondents who did not smoke a total of 100 cigarettes or more in their lifetime were excluded from the population.

Note (2): This derived variable is very similar to the Cycle 2.1 derived variable except for the fact that in the Nutrition Survey (Cycle 2.2), the category of “number of years” since respondents quit smoking stops at three years. In Cycle 2.1, this derived variable includes information about the number of years up to 125 years.

Note (3): This variable applies to respondents aged 12 and over.

Value of SMKDDSTP	Condition(s)	Description
6 (NA)	(SMKDDSTY = 1, 2, 3, 6, NA)	Population exclusion
9 (NS)	SMKDDSTY = NS or (SMKD_10 = DK, R, NS) or (SMKD_06A = DK, R, NS) or (SMKD_09A = DK, R, NS) or (SMKD_10A = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
0 (less than 1 year)	SMKD_06A = 1 or (SMKD_10 = 1 and SMKD_09A = 1) or SMKD_10A = 1	Number of years since completely quit smoking
1 (1 year to < 2 years)	SMKD_06A = 2 or (SMKD_10 = 1 and SMKD_09A = 2) or SMKD_10A = 2	

2 (2 years to < 3 years)	SMKD_06A = 3 or (SMKD_10 = 1 and SMKD_09A = 3) or SMKD_10A = 3
3 (3 years or more)	SMKD_06A = 4 or (SMKD_10 = 1 and SMKD_09A = 4) or SMKD_10A = 4

Food Security (1 DV)

1) Household food security status

Variable name: FSCDDHFS

Based on: FSCD_020, FSCD_030, FSCD_040, FSCD_050, FSCD_060, FSCD_070, FSCD_080, FSCD_081, FSCD_090, FSCD_100, FSCD_110, FSCD_120, FSCD_121, FSCD_130, FSCD_140, FSCD_141, FSCD_150, FSCD_160

Description: This variable is based on a set of 18 questions and indicates whether households both with and without children were able to afford the food they needed in the previous 12 months. It captures four kinds of situations:

1 – Food secure: Household members show no or minimal evidence of food insecurity.

2 – Food insecure without hunger: Household members feel anxious about running out of food or compromise on the quality of foods they eat by choosing less expensive options. Little or no reduction in the household members' food intake is reported.

3 – Food insecure with MODERATE hunger: Food intake for adults in the household has been reduced to an extent that implies that adults have repeatedly experienced the physical sensation of hunger. In most (but not all) food insecure households with children, such reductions are not observed at this stage for children.

4 – Food insecure with SEVERE hunger: At this level, all households with children have reduced the children's food intake to an extent indicating that the children have experienced hunger. Adults in households with and without children have repeatedly experienced more extensive reductions in food intake.

Note (1): The model for "household food security status levels" is adopted from the U.S. model of food security status levels published by U.S. Department of Agriculture in 2000. For more information about this model, please see Bickel, Gary, Mark Nord, Cristofer Price, William Hamilton, and John Cook, *Guide to Measuring Household Food Security, Revised 2000* (available online at: www.ers.usda.gov/briefing/foodsecurity).

Note (2): Households with children are defined as households with individuals aged 15 and less and/ or with individuals aged 16 or 17 who are the child or grandchild of another household member.

Temporary variables

Condition(s)	Description
If FSCD_050 = NA, then FSCDT50K = 0	Set value to 0 to indicate households WITHOUT children
Else, FSCDT50K = 1	Set value to 1 to indicate households WITH children

Temporary variables

Condition(s)	Description
If (FSCD_020 = 3), then FSCDT020 = 0	<ul style="list-style-type: none"> ➤ Set the value to 0 if respondent did not provide an "affirmative"* response to food security questions ➤ Set the value to 1, if respondent did provide an "affirmative" response <p>*Note: In order to determine household food security status, responses to each question is first coded as either "affirmative" or "negative". Some of this coding is obvious because the only response options are "yes" or "no". For questions with less obvious response categories, the procedure for coding is as follows: response categories such as "Often true", "Sometimes true", "Almost every month", "Some months but not every month" are coded as "affirmative" (i.e. coded equal to 1). Response categories such as "Never true", "Only 1 or 2 months" are coded as "negative" (i.e. coded equal to 0)</p>
If (FSCD_020 = 1 or 2), then FSCDT020 = 1	
If (FSCD_030 = 3), then FSCDT030 = 0	
If (FSCD_030 = 1 or 2), then FS030 = 1	
If (FSCD_040 = 3), then FSCDT040 = 0	
If (FSCD_040 = 1 or 2), then FSCD040 = 1	
If (FSCD_050 = 3 or NA), then FSCDT050 = 0	
If (FSCD_050 = 1 or 2), then FSCDT050 = 1	
If (FSCD_060 = 3 or NA), then FSCDT060 = 0	
If (FSCD_060 = 1 or 2), then FSCD060 = 1	
If (FSCD_070 = 3 or NA), then FSCDT1070 = 0	
If (FSCD_070 = 1 or 2), then FSCDT070 = 1	
If (FSCD_080 = 2 or NA), then FSCDT080 = 0	
If (FSCD_080 = 1), then FSCDT080 = 1	
If (FSCD_081 = 3 or NA), then FSCDT081 = 0	
If (FSCD_081 = 1 or 2), then FSCDT081 = 1	
If (FSCD_090 = 2 or NA), then FSCDT090 = 0	
If (FSCD_090 = 1), then FSCDT090 = 1	
If (FSCD_100 = 2 or NA), then FSCDT100 = 0	
If (FSCD_100 = 1), then FSCDT100 = 1	

If (FSCD_110 = 2 or NA), then FSCDT110 = 0 If (FSCD_110 = 1), then FSCDT110 = 1 <hr/> If (FSCD_120 = 2 or NA), then FSCDT120 = 0 If (FSCD_120 = 1), then FSCDT120 = 1 <hr/> If (FSCD_121 = 3 or NA), then FSCDT121 = 0 If (FSCD_121 = 1 or 2), then FSCDT121 = 1 <hr/> If (FSCD_130 = 2 or NA), then FSCDT130 = 0 If (FSCD_130 = 1), then FSCDT130 = 1 <hr/> If (FSCD_140 = 2 or NA), then FSCDT140 = 0 If (FSCD_140 = 1), then FSCDT140 = 1 <hr/> If (FSCD_141 = 3 or NA), then FSCDT141 = 0 If (FSCD_141 = 1 or 2), then FSCDT141 = 1 <hr/> If (FSCD_150 = 2 or NA), then FSCDT150 = 0 If (FSCD_150 = 1), then FSCDT150 = 1 <hr/> If (FSCD_160 = 2 or NA), then FSCDT160 = 0 If (FSCD_160 = 1), then FSCDT160 = 1	
FSCDTSUM = FSCDT020 + FSCDT030 + FSCDT040 + FSCDT050 + FSCDT060 + FSCDT070 + FSCDT080 + FSCDT081 + FSCDT090 + FSCDT100 + FSCDT110 + FSCDT120 + FSCDT121 + FSCDT130 + FSCDT140 + FSCDT141 + FSCDT150 + FSCDT160 (Min: 0; Max: 18)	Sum of all temporary variables to be used in determining the level of household food insecurity Total will range from 0 to 18

Food security status categories

FSCDDHFS	Condition(s)	Description
9 (NS)	(FSCD_020 = DK, R, NS) or (FSCD_030 = DK, R, NS) or (FSCD_040 = DK, R, NS) or (FSCD_050 = DK, R, NS) or (FSCD_060 = DK, R, NS) or (FSCD_070 = DK, R, NS) or (FSCD_080 = DK, R, NS) or (FSCD_081 = DK, R, NS) or (FSCD_090 = DK, R, NS) or (FSCD_100 = DK, R, NS) or (FSCD_110 = DK, R, NS) or (FSCD_120 = DK, R, NS) or (FSCD_121 = DK, R, NS) or (FSCD_130 = DK, R, NS) or (FSCD_140 = DK, R, NS) or (FSCD_141 = DK, R, NS) or (FSCD_150 = DK, R, NS) or (FSCD_160 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
0	$0 \leq \text{FSCDTSUM} \leq 2$	Food secure
1	(FSCDT50K = 1 and $3 \leq \text{FSCDTSUM} \leq 7$) or (FSCDT50K = 0 and $3 \leq \text{FSCDTSUM} \leq 5$)	Food insecure without hunger
2	(FSCDT50K = 1 and $8 \leq \text{FSCDTSUM} \leq 12$) or (FSCDT50K = 0 and $6 \leq \text{FSCDTSUM} \leq 8$)	Food insecure with moderate hunger
3	(FSCDT50K = 1 and $13 \leq \text{FSCDTSUM} \leq 18$) or (FSCDT50K = 0 and $9 \leq \text{FSCDTSUM} \leq 10$)	Food insecure with severe hunger

Socio-Demographic Characteristics (5 DVs)

1) Country of birth – grouped

Variable name: SDCDGCBG

Based on: SDCDCCB

Description: This variable classifies the respondent based on his/her country of birth.

Note: The variable SDCDCCB is the detailed country of birth coded automatically from SDCD_1 and SDCD_1S (“other specify” write-in answer) using a Reference file from the census. The variable is not included in the Public Use Microdata File.

Value of SDCDGCBG	Condition(s)	Description
9 (NS)	(SDCDCCB = 000, 995, DK, R, NS, Missing)	Required question was not answered (don't know, refusal, not stated)
1	$0 < \text{SDCDCCB} < 14$	Canada
2	$100 \leq \text{SDCDCCB} < 900$	Other

2) Immigration flag

Variable name: SDCDFIMM

Based on: SDCD_3

Description: This variable indicates whether the respondent is an immigrant.

Note: SDCD_3 = year of immigration to Canada. The variable is not included in the Public Use Microdata File

Value of SDCDFIMM	Condition(s)	Description
9 (NS)	(SDCD_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
2	SDCD_3 = NA	Not an immigrant
1	SDCD_3 < NA	Immigrant

3) Length of time in Canada since immigration – grouped

Variable name: SDCDGRES

Based on: SDCD_3, ADMD_Y1

Description: This variable indicates the length of time the respondent has been in Canada since his/her immigration.

Note(1): Non-immigrants were excluded from the population.

Note(2): ADMD_Y1 = year of interview. The variable is not included in the Public Use Microdata File.

Value of SDCDGRES	Condition(s)	Description
6 (NA)	SDCD_3 = NA	Population exclusions
9 (NS)	(SDCD_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1 (min: 0; max: 9 or current age)	$(\text{ADMD_Y1} - \text{SDCD_3}) \leq 9$ and $\text{SDCD_3} < \text{NA}$	Length of time in Canada since immigration: 0 – 9 years are grouped together
2 (min: 10; max: 130 or current age)	$(\text{ADMD_Y1} - \text{SDCD_3}) \geq 10$ and $\text{SDCD_3} < \text{NA}$	Length of time in Canada since immigration: 10 – 130 years are grouped together

4) Language(s) in which respondent can converse – grouped

Variable name: SDCDGLNG

Based on: SDCD_5A, SDCD_5B, SDCD_5C, SDCD_5D, SDCD_5E, SDCD_5F, SDCD_5G, SDCD_5H, SDCD_5I, SDCD_5J, SDCD_5K, SDCD_5L, SDCD_5M, SDCD_5N, SDCD_5O, SDCD_5P, SDCD_5Q, SDCD_5R, SDCD_5S, SDCD_5T, SDCD_5U, SDCD_5V, SDCD_5W

Description: This variable indicates the language(s) in which the respondent can converse.

Value of SDCDGLNG	Condition(s)	Description
9 (NS)	(SDCD_5A =DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	SDCD_5A = 1 and SDCD_5B > 1	English (with or without another language other than French)
2	SDCD_5A > 1 and SDCD_5B = 1	French (with or without another language other than English)
3	SDCD_5A = 1 and SDCD_5B = 1	English and French (with or without other language)
4	(SDCD_5A > 1 and SDCD_5B > 1) and (SDCD_5C = 1 or SDCD_5D = 1 or SDCD_5E = 1 or SDCD_5F = 1 or SDCD_5G = 1 or SDCD_5H = 1 or SDCD_5I = 1 or SDCD_5J = 1 or SDCD_5K = 1 or SDCD_5L = 1 or SDCD_5M = 1 or SDCD_5N = 1 or SDCD_5O = 1 or SDCD_5P = 1 or SDCD_5Q = 1 or SDCD_5R = 1 or SDCD_5S = 1 or SDCD_5T = 1 or SDCD_5U = 1 or SDCD_5V = 1 or SDCD_5W = 1)	Other (neither English nor French)

5) Cultural or racial origin – grouped

Variable name: SDCDGRAC

Based on: SDCD_7A, SDCD_7B, SDCD_7C, SDCD_7D, SDCD_7E, SDCD_7F, SDCD_7G, SDCD_7H, SDCD_7I, SDCD_7J, SDCD_7K, SDCD_7L, SDCD_7M

Description: This variable indicates the ethnic, cultural or racial origin of the respondent.

Value of SDCDGRAC	Condition(s)	Description
9 (NS)	(SDCD_7A= DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	SDCD_7A = 1 and SDCD_7B > 1 and SDCD_7C > 1 and SDCD_7D > 1 and SDCD_7E > 1 and SDCD_7F > 1 and SDCD_7G > 1 and	White only

Value of SDCDGRAC	Condition(s)	Description
	SDCD_7H > 1 and SDCD_7I > 1 and SDCD_7J > 1 and SDCD_7K > 1 and SDCD_7L > 1 and SDCD_7M > 1	
2	(SDCD_7A > 1) and (SDCD_7B = 1 or SDCD_7C = 1 or SDCD_7D = 1 or SDCD_7E = 1 or SDCD_7F = 1 or SDCD_7G = 1 or SDCD_7H = 1 or SDCD_7I = 1 or SDCD_7J = 1 or SDCD_7K = 1 or SDCD_7L = 1 or SDCD_7M = 1 or More than one category answered)	Other

Education Variables (2 DVs)

1) Highest level of education – respondent, 4 levels

Variable name: EDUDDR04

Based on: EDUD_1, EDUD_2, EDUD_3, EDUD_4

Description: This variable indicates the highest level of education acquired by the respondent.

Value of EDUDDR04	Condition(s)	Explanation
1	[(EDUD_1 = 1, 2) or EDUD_2 = 2] and EDUD_3 = 2	Less than secondary school graduation
2	EDUD_2 = 1 and EDUD_3 = 2	Secondary school graduation, no post-secondary education
3	EDUD_4 = 1	Some post-secondary education
4	2 <= EDUD_4 <= 6	Post-secondary degree/diploma
9 (NS)	(EDUD_2 = DK, R, NS) or (EDUD_3 = DK, R, NS) or (EDUD_4 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)

2) Highest level of education – household, 4 Levels

Variable name: EDUDDH04

Based on: EDUDDR04 for each member of the household

Description: This variable indicates the highest level of education acquired by any member of the household.

Note: This variable is derived by temporarily creating EDUDDR04 for each member of the household (all PERSONID within SAMPLEID), then by comparing these values of EDUDDR04 within the household and by returning the highest value. If any PERSONID has EDUDDR04 of NS (not specified) then NS is returned. If all of EDUDDR04 are NA (not applicable) then NA is returned.

Labour force (8 DVs)

1) Working status last week (short form)

Variable name: LBFDDWSS

Based on: LBFD_01, LBFD_02

Description: This variable classifies the respondent based on his/her working status in the week prior to the interview.

Note: Respondents aged less than 15 or more than 75 years old have been excluded from the population.

Value of LBFDDWSS	Condition(s)	Description
6 (NA)	LBFD_01 = NA	Population exclusion
1	LBFD_01 = 1	Worked at a job or business
2	LBFD_02 = 1	Had a job but did not work (absent)
3	LBFD_02 = 2	Did not have a job
4	LBFD_01 = 3	Permanently unable to work
9 (NS)	(LBFD_02 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)

2) Working status last week (long form)

Variable name: LBFDDWSL

Based on: LBFD_01, LBFD_11, LBFD_41

Description: This variable classifies the respondent based on his/her working status in the week prior to the interview and also includes grouping for reasons of not working.

Note: Respondents aged less than 15 or more than 75 years old have been excluded from the population.

Value of LBFDDWSL	Condition(s)	Description
96 (NA)	LBFD_01 = NA	Population exclusion
1	LBFD_01 = 1	Worked at a job or business
2	(LBFD_41 = 8, 9, 10, 12, 13)	Had a job – on temporary or seasonal layoff
3	(0 < LBFD_41 < 8) or LBFD_41 = 11 or (13 < LBFD_41 < NA)	Had a job – absent for some other reason
4	LBFD_11 = 1	Did not have a job – looked for work over past 4 weeks
5	LBFD_11 = 2	Did not have a job – did not look for work over past 4 weeks
6	LBFD_01 = 3	Permanently unable to work
99 (NS)	(LBFD_11 = DK, R, NS) or (LBFD_41 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)

3) Main reason for not working last week – grouped

Variable name: LBFDDGRNW

Based on: LBFD_01, LBFD_11, LBFD_13, LBFD_41

Description: This variable indicates the main reason why the respondent did not work in the week prior to the interview.

Note: Respondents aged less than 15 or more than 75 years old or who did not work the week preceding the interview have been excluded from the population.

Value of Lbfdgrnw	Condition(s)	Description
96 (NA)	(Lbfd_01 = 1, NA)	Population exclusion
99 (NS)	(Lbfd_11 = DK, R, NS) or (Lbfd_13 = DK, R, NS) or (Lbfd_41 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
1	Lbfd_01 = 3 or Lbfd_13 = 1 or Lbfd_41 = 1	Permanently unable to work / own illness or disability
2	(Lbfd_13 = 2, 3, 4) or (Lbfd_41 = 2, 3, 4)	Family responsibilities (includes caring for own children, caring for elderly relative, pregnancy /maternity leave)
3	Lbfd_13 = 7 or Lbfd_41 = 14	School or educational leave
4	(Lbfd_41 = 7, 8, 9, 10, 12, 13)	Labour dispute/layoff (includes labour dispute, temporary layoff due to business conditions, seasonal layoff, casual job – no work available, self-employed – no work available, seasonal business)
5	Lbfd_13 = 8	Retired
6	Lbfd_11 = 1	Looking for work
7	(Lbfd_13 = 5, 6, 9, 10) or (Lbfd_41 = 5, 6, 11, 15)	Other reasons (includes other personal or family responsibilities, vacation, believes no work is available in area or suited to skills, work schedule, other)

4) Multiple job status

Variable name: Lbfddmjs

Based on: Lbfd_03, Lbfd_21, Lbfd_23, Lbfd_51

Description: This variable classifies respondents based on whether or not they had multiple jobs in the past year and if they still do.

Note: Respondents aged less than 15 or more than 75 years old have been excluded from the population.

Value of Lbfddmjs	Condition(s)	Description
6 (NA)	Lbfd_01 = NA	Population exclusion
1	Lbfd_51 = 52	Currently has multiple jobs – had them all past year
2	Lbfd_03 = 1 and Lbfd_51 < 52	Currently has multiple jobs – did not have them all past year
3	Lbfd_03 = 2	Currently has only one job
4	Lbfd_23 = 1	Currently does not have a job – held multiple jobs over past year
5	Lbfd_23 = 2 or Lbfd_21 = 2	Currently does not have a job – did not hold multiple jobs over the year
9 (NS)	(Lbfd_03 = DK, R, NS) or (Lbfd_21 = DK, R, NS) or (Lbfd_23 = DK, R, NS) or (Lbfd_51 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)

5) Total usual hours worked per week

Variable name: LBFDDHPW

Based on: LBFD_42, LBFD_53

Description: This variable indicates the total number of hours the respondent worked per week.

Note: Respondents aged less than 15 or more than 75 years old or who did not work in the year preceding the interview have been excluded from the population.

Value of LBFDDHPW	Condition(s)	Description
996 (NA)	LBFD_01 = NA or LBFD_42 = NA	Population exclusion
999 (NS)	(LBFD_42 = DK, R, NS) or (LBFD_53 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
LBFD_42	LBFD_42 < NA and LBFD_53 = NA	Number of hours usually worked for respondents with one job
LBFD_42 + LBFD_53	LBFD_42 < NA and LBFD_53 < NA	Number of total hours usually worked for respondents with more than one job

6) Full-time/ part-time working status (for total usual hours)

Variable name: LBFDDPFT

Based on: LBFDDHPW

Description: This variable indicates if the respondent works full-time or part-time.

Note: Respondents aged less than 15 or more than 75 years old or who did not work in the year preceding the interview have been excluded from the population.

Value of LBFDDPFT	Condition(s)	Description
6 (NA)	LBFDDHPW = NA	Population exclusion
9 (NS)	LBFDDHPW = NS	At least one required question was not answered (don't know, refusal, not stated)
1	LBFDDHPW >= 30	Full-time
2	LBFDDHPW < 30	Part-time

7) Job status over past year – grouped

Variable name: LBFDGJST

Based on: LBFD_11, LBFD_22, LBFD_61, LBFD_71

Description: This variable indicates the respondent's job status over the past year.

Note: Respondents aged less than 15 or more than 75 years old have been excluded from the population.

Value of LBFDGJST	Condition(s)	Description
6 (NA)	LBFD_01 = NA	Population exclusion
1	LBFD_61 = 52	Has had a job throughout the past year
2	LBFD_71 = 52 or LBFD_22 = 2 or [LBFD_71 < 52 and LBFD_21 = 2 and (LBFD_11 = 1 or LBFD_22 = 1)]	Was without a job and looking or not for work throughout the past year
3	[(LBFD_61 + LBFD_71) = 52 and (0 < LBFD_71 < 52) and LBFD_61 < 52]	Has had a job part of the year – was without a job and looking or not for other part of the year

	or (LBFD_61 < 52 and LBFD_71 = 0) or [(LBFD_61 + LBFD_71) < 52 and (0 < LBFD_71 < 52) and LBFD_61 < 52]	
9 (NS)	(LBFD_22 = DK, R, NS) or (LBFD_61 = DK, R, NS) or (LBFD_71 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)

8) Student working status

Variable Name: LBFDDSTU

Modules used: Socio-demographic characteristics (SDC), Labour force (LBF)

Based on: SDCD_8, SDCD_9, LBFD_01, LBFD_02, LBFD_21

Description: This variable indicates the respondent's working status if he/she was a student.

Note: Respondents aged less than 15 years or more than 75 years old or who were not studying at the time of the interview have been excluded from the population.

Value of LBFDDSTU	Condition(s)	Description
6 (NA)	LBFD_01 = NA or SDCD_8 = 2	Population exclusion
9 (NS)	(LBFD_21 = DK, R, NS) or (SDCD_9 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)
1	(LBFD_01 = 1 or LBFD_02 = 1 or LBFD_21 = 1) and SDCD_9 = 1	Worked during last 12 months and currently attending school full-time
2	(LBFD_01 = 1 or LBFD_02 = 1 or LBFD_21 = 1) and SDCD_9 = 2	Worked during last 12 months and currently attending school part-time
3	LBFD_21 = 2 and SDCD_9 = 1	Did not work during last 12 months and currently attending school full-time
4	LBFD_21 = 2 and SDCD_9 = 2	Did not work during last 12 months and currently attending school part-time

Income (6 DVs)

1) Total household income – main source – grouped

Variable name: INCDG2

Based on: INCD_2

Description: This variable groups the main source of total household income into four categories.

Value of INCDIA2	Condition(s)	Description
9 (NS)	(INCD_2 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	(INCD_2 = 1, 2)	Wages/salaries or self-employment
2	(INCD_2 = 4, 5, 10)	Employment insurance or worker's compensation or social assistance/welfare
3	(INCD_2 = 6, 7, 8)	Canada or Quebec pension or retirement pensions or old age security/GIS
4	(INCD_2 = 3, 9, 11, 12, 13, 14)	Dividends/interest or child tax benefit or child support or alimony or other or no income

2) Total household income – 2 categories

Variable name: INCDDIA2

Based on: DHHDDHSZ, INCD_3A, INCD_3B, INCD_3C, INCD_3D, INCD_3E, INCD_3F

Description: This variable classifies the total household income into two categories based on total household income and the number of people living in the household.

Value of INCDDIA2	Condition(s)	Description
9 (NS)	(INCD_3A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	[(DHHDDHSZ = 1, 2) and (INCD_3A = 3 or INCD_3B = 1 or INCD_3D = 1)] or [(DHHDDHSZ = 3, 4) and (INCD_3A = 1, 3)] or [DHHDDHSZ >= 5 and ((INCD_3A = 1, 3) or INCD_3F = 1)]	Low income < \$15,000 if 1 or 2 people; < \$20,000 if 3 or 4 people; < \$30,000 if 5+ people
2	[(DHHDDHSZ = 1, 2) and (INCD_3A = 2 or INCD_3D = 2)] or [(DHHDDHSZ = 3, 4) and INCD_3A = 2] or [DHHDDHSZ >= 5 and (INCD_3E = 2 or INCD_3F = 2)]	Middle or high income >= \$15,000 if 1 or 2 people; >= \$20,000 if 3 or 4 people; >= \$30,000 if 5+ people
9 (NS)	Else	Not enough information for the classification

3) Total household income – 4 categories

Variable name: INCDDIA4

Based on: DHHDDHSZ, INCD_3A, INCD_3B, INCD_3C, INCD_3D, INCD_3E, INCD_3F, INCD_3G

Description: This variable classifies the total household income into four categories based on total household income and the number of people living in the household.

Value of INCDDIA4	Condition(s)	Description
9 (NS)	(INCD_3A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	[(DHHnDHSZ = 1, 2) and (INCn_3A = 3 or INCn_3B = 1 or INCn_3D = 1)] or [(DHHnDHSZ = 3, 4) and (INCn_3A = 1, 3)] or [DHHnDHSZ >= 5 and ((INCn_3A = 1, 3) or INCn_3F = 1)]	Lowest income grouping < \$15,000 if 1 or 2 people; < \$20,000 if 3 or 4 people; < \$30,000 if 5+ people
2	[(DHHnDHSZ = 1, 2) and (INCn_3D = 2 or INCn_3F = 1)] or [(DHHnDHSZ = 3, 4) and INCn_3E = 1] or [DHHnDHSZ >= 5 and (INCn_3F = 2 or {INCn_3G = 1, 2})]	Lower middle income grouping \$15,000 to \$29,999 if 1 or 2; \$20,000 to \$39,999 if 3 or 4; \$30,000 to \$59,999 if 5+
3	[(DHHnDHSZ = 1, 2) and (INCn_3F = 2 or {INCn_3G = 1, 2})] or [(DHHnDHSZ = 3, 4) and (INCn_3G = 1, 2, 3)] or [DHHnDHSZ >= 5 and INCn_3G = 3]	Upper middle income grouping \$30,000 to \$59,999 if 1 or 2; \$40,000 to \$79,999 if 3 or 4; \$60,000 to \$79,999 if 5+
4	[(DHHnDHSZ = 1, 2) and (INCn_3G = 3, 4)] or [DHHnDHSZ >= 3 and INCn_3G = 4]	Highest income grouping >= \$60,000 if 1 or 2; >= \$80,000 if 3+
9 (NS)	Else	Not enough information for the classification

4) Total household income – 5 categories

Variable name: INCDDIA5

Based on: DHHDDHSZ, INCD_3A, INCD_3B, INCD_3C, INCD_3D, INCD_3E, INCD_3F, INCD_3G

Description: This variable classifies the total household income into five categories based on total household income and the number of people living in the household.

Value of INCDDIA5	Condition(s)	Description
9 (NS)	(INCD_3A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)

Value of INCDDIA5	Condition(s)	Description
1	[DHHDDHSZ < 5 and (INCD_3A = 3 or INCD_3B = 1)] or [DHHDDHSZ >= 5 and (INCD_3A = 3 or INCD_3B = 1 or INCD_3D = 1)]	Lowest income grouping < \$10,000 if 1 to 4 people; < \$15,000 if 5+ people
2	[(DHHDDHSZ = 1, 2) and INCD_3D = 1] or [(DHHDDHSZ = 3, 4) and INCD_3B = 2] or [DHHDDHSZ >= 5 and (INCD_3D = 2 or INCD_3F = 1)]	Lower middle income grouping \$10,000 to \$14,999 if 1 or 2; \$10,000 to \$19,999 if 3 or 4; \$15,000 to \$29,999 if 5+
3	[(DHHDDHSZ = 1, 2) and (INCD_3D = 2 or INCD_3F = 1)] or [(DHHDDHSZ = 3, 4) and INCD_3E = 1] or [DHHDDHSZ >= 5 and (INCD_3F = 2 or {INCD_3G = 1, 2})]	Middle income grouping \$15,000 to \$29,999 if 1 or 2; \$20,000 to \$39,999 if 3 or 4; \$30,000 to \$59,999 if 5+
4	[(DHHDDHSZ = 1, 2) and (INCD_3F = 2 or {INCD_3G = 1, 2})] or [(DHHDDHSZ = 3, 4) and (INCD_3G = 1, 2, 3)] or [DHHDDHSZ >= 5 and INCD_3G = 3]	Upper middle income grouping \$30,000 to \$59,999 if 1 or 2; \$40,000 to \$79,999 if 3 or 4; \$60,000 to \$79,999 if 5+
5	[(DHHDDHSZ = 1, 2) and (INCD_3G = 3, 4)] or [DHHDDHSZ >= 3 and INCD_3G = 4]	Highest income grouping >= \$60,000 if 1 or 2; >= \$80,000 if 3+
9 (NS)	Else	Not enough information for the classification

5) Total household income – all sources, grouped

Variable name: INCDGHH

Based on: INCD_3A, INCD_3B, INCD_3C, INCD_3D, INCD_3E, INCD_3F, INCD_3G

Description: This variable groups the total household income from all sources.

Technical Specs: Some values have been grouped as specified below.

Value of INCDGHH	Condition(s)	Description
9 (NS)	(INCD_3A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	INCD_3A = 3 or	No income or less than \$15,000

	INCD_3C = 1 or INCD_3C = 2 or INCD_3D = 1	
2	INCD_3D = 2 or INCD_3F = 1	\$15,000 to \$29,999
3	INCD_3F = 2 or INCD_3G = 1	\$30,000 to \$49,999
4	INCD_3G = 2 or INCD_3G = 3	\$50,000 to \$79,999
5	INCD_3G = 4	\$80,000 +
9 (NS)	Else	Not enough information for the classification

6) Personal income - all sources – grouped

Variable name: INCDGPER

Based on: INCD_4A, INCD_4B, INCD_4C, INCD_4D, INCD_4E, INCD_4F, INCD_4G

Description: This variable indicates the respondent's personal income from all sources.

Note: Respondents less than 15 years old were excluded from the population.

Technical Specs: Some values have been grouped as specified below.

Value of INCDGPER	Condition(s)	Description
96 (NA)	DHHD_AGE < 15	Population exclusion
99 (NS)	(INCD_4A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)
1	(INCD_4A = 3, NA)	No income
2	INCD_4C = 1 or INCD_4C = 2 or INCD_4D = 1	Less than \$15,000
3	INCD_4D = 2 or INCD_4F = 1	\$15,000 to \$29,999
4	INCD_4F = 2 or INCD_4G = 1	\$30,000 to \$49,999
5	INCD_4G = 2 or INCD_4G = 3	\$50,000 to \$79,999
6	INCD_4G = 4	\$80,000 +
99 (NS)	Else	Not enough information for the classification