

Canadian Community Health Survey (CCHS)

Rapid response on Canada's Food Guide

Derived Variable (DV) Specifications



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Alcohol use (1 DV)

1) Type of Drinker (12 Months)

Variable name: ALCDTTM

Based on: ALC_1, ALC_2

Description: This variable indicates the type of drinker the respondent is based on his/her drinking habits in the past 12 months.

Note: This derived variable was introduced in 2007. Some of the questions contained within the Alcohol Use module in previous cycles moved to the Alcohol Use During the Past Week (ALW) and Alcohol Use - Former Drinkers (ALN) modules. As the new modules are optional content, most of the derived variables that were formerly calculated for all respondents in the Alcohol Use (ALC) module are now found in ALW and ALN and are only calculated for the health regions that selected these modules. ALCDTTM was created to allow the classification of all respondents according to their drinking habits in the past 12 months.

Specifications			
Value	Condition(s)	Description	Notes
9	(ALC_1 in (7,8,9)) or (ALC_2 in (7,8,9))	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(2 <= ALC_2 < 6)	Regular drinker	
2	ALC_2 = 1	Occasional drinker	
3	ALC_1 = 2	Did not drink in the last 12 months	

Chronic conditions (1 DV)

1) Diabetes type

Variable name: CCCDDIA

Based on: CCC_10A, CCC_10B, CCC_10C, CCC_101, CCC_102, CCC_105, CCC_106, DHH_AGE, DHH_SEX

Description: This variable classifies diabetes as Type 1, Type 2, or Gestational, using the Ng-Dasgupta-Johnson algorithm (Health Reports, 19(1), March 2008).

Note: This derived variable was introduced in 2009.

Specifications			
Value	Condition(s)	Description	Notes
6	CCC_101 > 1	Population exclusions	NA
9	(CCC_10A in (7,8,9)) or (CCC_10B in (7,8,9)) or (CCC_10C in (97,98,99)) or (CCC_101 in (7,8,9)) or (CCC_102 in (997,998,999)) or (CCC_105 in (7,8,9)) or (CCC_106 in (7,8,9))	At least one required question was not answered (don't know, refusal, not stated)	NS
1	((DHH_SEX = 1) and (CCC_101 = 1) and (CCC_105 = 1) and (CCC_106 = 2) and ((CCC_10C <=3) and ((DHH_AGE < 30) or (CCC_102 < 30)))) or ((DHH_sex = 2) and (CCC_101 = 1) and (CCC_10B in (1,6)) and (CCC_105 = 1) and (CCC_106 = 2) and ((CCC_10C <=3) and ((DHH_AGE < 30) or (CCC_102 < 30))))	Type 1 diabetes	
2	CCC_101 = 1 and ((CCC_102 >=30) or (CCC_102 <30) and (CCC_106 =1) and (CCC_10C >3)) or (CCC_102 < 30) and (CCC_106=1) and (CCC_105 =1) and (CCC_10C < 3))	Type 2 diabetes	
3	CCC_101 = 1 and DHH_SEX = 2 and CCC_10A = 1 and CCC_10B = 2	Gestational diabetes	
4	Else	Unable to classify	

Contacts with health professionals (1 DV)

1) Number of Consultations with Medical Doctor/Pediatrician or other specialists

Variable name: CHPDMDC

Based on: CHP_04, CHP_09

Description: This variable indicates the number of times respondents have seen or talked to a family doctor or a specialist in the last 12 months.

Note: Prior to 2009, CHPDMDC was called HCUDMDC and was derived with questions from the Health care utilization (HCU) module. In 2009, the HCU module was split and all questions associated with the derived variable HCUDMDC were moved into a new module called Contacts with Health Professionals (CHP)

Specifications			
Value	Condition(s)	Description	Notes
999	(CHP_04 = DK, R, NS) or (CHP_09 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
CHP_04 + CHP_09	(0 <= CHP_04 <= 366) and (0 <= CHP_09 <= 300)	Number of consultations with medical doctor	(min: 0; max: 666)

Dwelling and household variables (10 DVs)

1) Age of spouse

Variable name: DHHDSAGE

Based on: SAMPLEID, PERSONID, DHH_AGE, RELATIONSHIP

Description: This variable indicates the age of a respondent's spouse.

Note: Introduced in 2009, this variable is derived by sorting the household roster by SAMPLEID and PERSONID and showing the DHH_AGE of the PERSONID that have a relationship of spouse with the respondent within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
999	DHH_MS = 1 or 2 and (DHH_Age = null)	Population exclusions	NS
996	(DHH_MS <> 1 or 2) and (DHH_Age = null)	Population exclusion	NA
DHH_Age of PERSONID (spouse) with each SAMPLEID	(RELATIONSHIP = 10 or 20)	Age of respondents spouse. Spouse is defined as husband/wife or common law partner.	(max: current age)

2) Number of Persons in Household Less Than 16 Years of Age

Variable name: DHHDYKD

Based on: PERSONID, DHH_AGE, RELATIONSHIP

Description: This variable indicates the number of people living within a household whose age is less than 16 years old.

Note: This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH_AGE value of less than 16 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE <= 15 (Member file)	Number of persons under 16 in a household	(min: 0; max: 40)

3) Number of Persons in Household 16 or 17 Years of Age

Variable name: DHHDOKD

Based on: PERSONID, DHH_AGE, RELATIONSHIP

Description: This variable indicates the number of people living within a household whose age is 16 or 17 years old and whose relationship to at least one adult living within the household is child, grandchild, child-in-law, or niece or nephew.

Note: This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of

PERSONID's that have a DHH_AGE value of 16 or 17 and whose RELATIONSHIP value of (50, 51, 52, 53, 80, 100, 112 or 123) within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE = 16, 17 (Member file) AND RELATIONSHIP = 50, 51, 52, 53, 80, 100, 112, 123 (Relation files)	Number of persons aged 16 or 17 in a household whose relationship with at least one adult of the household is child, grandchild, child-in-law, or niece or nephew	(min: 0; max: 40)

4) Number of Persons in Household between 6 and 11 Years of Age

Variable name:	DHHD611
Based on:	SAMPLEID, PERSONID, DHH_AGE
Description:	This variable indicates the number of people living within a household whose age is between 6 and 11 years old.
Note:	This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH_AGE value from 6 to 11 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	(6 <= DHH_AGE <= 11) (Member file)	Number of persons 6 to 11 in a household	(min: 0; max: 40)

5) Economic Family Status (Household Type)

Variable name:	DHHDECF
Based on:	DHH_REL for all PERSONID in SAMPLEID, DHH_AGE, DHH_SEX, DHHDHSZ
Description:	This variable identifies the family relationships within the household. Economic family refers to a group of two or more persons who live in the same dwelling and are related to each other by blood, marriage, common-law or adoption. A couple may be of opposite or same sex. Foster children are included.
Note:	The necessary data is collected using a set of relationship codes that define a link between each person in a household. All relationships within each sample (relationship of each person in a household to each other person within that household) are used in creating this variable. The variable was based on the ages and reported relationships of each person to all others in the household. The matrix of relationship codes is not placed on the master file. Beginning in 2007, foster children under 18 years of age are now coded to "child".

Temporary Reformat			
Value	Condition(s)	Description	Notes
DHH_REL			
Z	R, NS	Not stated	Relationship Codes
A	40, 41, 42, 43	Parental (40 = Father/Mother, 41 = Birth Father/Mother, 42 = Step Father/Mother, 43 = Adoptive Father/Mother)	Relationship Codes

L	60, 61, 62, 63, 64, 65, 70, 80, 90, 100, 110, 111, 112, 113, 114, 120, 121, 122, 123, 124, 260, 261, 262, 263	Other (60 = Brother/Sister, 61 = Full Sister/Brother, 62 = Half Sister/Brother, 63 = Step Sister/Brother, 64 = Adopted Sister/Brother, 65 = Foster Sister/Brother, 70 = Foster Parent, 80 = Foster Child, 90 = Grandparent, 100 = Grandchild, 110 = In-Law, 111 = Father/Mother-in-law, 112 = Son/Daughter-in-law, 113 = Brother/Sister-in-law, 114 = Other in-law, 120 = Other Related, 121 = Uncle/Aunt, 122 = Cousin, 123 = Nephew/Niece, 124 = Other Relative, 260 = Unrelated, 261 = Boyfriend/Girlfriend, 262 = Room-mate, 263 = Other Unrelated)	Relationship Codes
M	50, 51, 52, 53 (sorted by age)	Child (50 = Son/Daughter, 51 = Birth Child, 52 = Step Child, 53 = Adopted Child)	Relationship Codes
X	10, 20	Spouse (10 = Husband/Wife, 20 = Common Law Partner)	Relationship Codes
Y	251	Single	Relationship Codes

Specifications

Value	Condition(s)	Description	Notes
99	Any DHH_REL = Z	Not Stated	NS
1	DHHDHSZ = 1	Unattached Individual Unattached individual living alone (Household size=1)	
2	All DHH_REL for all PERSONID in SAMPLEID in (L,Y)	Unattached Individual Living With Others Unattached individuals living together. There cannot be a marital/common-law or parental relationship but other relationships such as siblings are permitted	
3	DHHDHSZ = 2 and DHH_REL for both PERSONID in SAMPLEID = X	Couple Alone Married or C/L with no children. No other relationships are permitted. (Household size=2)	
4	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and DHH_REL for all PERSONID in SAMPLEID <> A and M	Couple With No Children, Others Married or C/L with no children. There can be no parent/child relationships. Other relationships are permitted	
5	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. All others PERSONID in SAMPLEID must have DHH_REL = M and of these at least one is DHH_AGE < 25	Couple With Children < 25 Married or C/L couple with at least one partner being the parent of a dependent child. No other relationships are permitted	
6	At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these at least one is DHH_AGE < 25	Couple With Children < 25, Others Married or C/L couple with at least one partner being the parent of one child <25 years old in the household. Other relationships are permitted	
7	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. All others PERSONID in SAMPLEID must have DHH_REL = M and of these DHH_AGE >= 25	Couple With All Children >=25 Married or C/L couple with all children >=25 years old. No other relationships are permitted	

8	DHHDHSZ > 2 and At least 2 PERSONID in SAMPLEID must have an DHH_REL = X and At least one of which must have an DHH_REL = A. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these DHH_AGE >= 25	Couple With All Children >=25, Others Married or C/L couple with all children >=25 years old. Other relationships are permitted
9	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. All others PERSONID in SAMPLEID must have DHH_REL = M and of these at least one DHH_AGE < 25	Female Lone Parent With Children < 25 One child must be <25 years old. No other relationships are permitted.
10	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these at least one DHH_AGE < 25	Female Lone Parent With Children < 25, Others One child must be <25 years old. Other relationships are permitted
11	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. All others PERSONID in SAMPLEID must have DHH_REL = M and of these DHH_AGE >= 25	Female Lone Parent With All Children >=25 All children must be >=25 years old. No other relationships are permitted
12	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 2. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these DHH_AGE >= 25	Female Lone Parent With All Children >=25, Others All children must be >=25 years old. Other relationships are permitted
13	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. All others PERSONID in SAMPLEID must have DHH_REL = M and of these at least one DHH_AGE < 25	Male Lone Parent With Children < 25 One child must be < 25 years old. No other relationships are permitted
14	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these at least one DHH_AGE < 25	Male Lone Parent With Children <25, Others One child must be <25 years old. Other relationships are permitted
15	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. All others PERSONID in SAMPLEID must have DHH_REL = M and of these DHH_AGE >= 25	Male Lone Parent With All Children >=25 All children must be >=25 years old. No other relationships are permitted
16	DHHDHSZ > 1 and One PERSONID in SAMPLEID must have DHH_REL = A and DHH_SEX = 1. At least one other PERSONID in SAMPLEID must have DHH_REL = M with the above PERSONID and of these DHH_AGE >= 25	Male Lone Parent With All Children >=25, Others All children must be >=25 years old. Other relationships are permitted
17	Else	Other Family Type All other household types

Reference: The standard classification Economic family status now includes foster children under 18 years of age. They were previously classified as persons not in economic families.

6) Household Size

Variable name: DHHDSZ

Based on: Based on household roster, 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 PERSONID's within each SAMPLEID.

Specifications

Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	Sort the file (Member file) by SAMPLEID and PERSONID	Number of persons in a household	(min: 1; max: 40)

7) Number of Persons in Household Less Than 12 Years of Age

Variable name: DHHDL12

Based on: SAMPLEID, PERSONID, DHH_AGE

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

Note: This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH_AGE value less than 12 within each SAMPLEID.

Specifications

Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE < 12 (Member file)	Number of persons under 12 in a household	(min: 0; max: 40)

8) Number of Persons in Household Less than 18 Years of Age

Variable name: DHHDL18

Based on: SAMPLEID, PERSONID, DHH_AGE, RELATIONSHIP

Description: This variable indicates the number of people living within a household whose age is less than 18 and whose relationship to at least one adult living within the household is a child, including step children, adopted children or foster children.

Note: Introduced in 2009, this variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH_AGE less than 18 and whose RELATIONSHIP value is (50, 51, 52, 53, 80) within each SAMPLEID.

Specifications

Value	Condition(s)	Description	Notes
Total number of PERSONID's in Nov. 2012	DHH_AGE <= 17 (Member file) AND RELATIONSHIP =50, 51, 52, 53, 80 (Relation files)	Number of persons aged less than 18 in a household whose relationship with at least one adult of the household is a child, including step	(min: 0; max: 40)

each
SAMPLEID

children, adopted children or foster children.

9) Number of Persons in Household Less Than 6 Years of Age

Variable name: DHHDL5

Based on: SAMPLEID, PERSONID, DHH_AGE

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

Note: This variable is derived by sorting the household roster dataset by SAMPLEID and PERSONID and by counting the number of PERSONID's that have a DHH_AGE value less than 6 within each SAMPLEID.

Specifications			
Value	Condition(s)	Description	Notes
Total number of PERSONID's with each SAMPLEID	DHH_AGE <= 5 (Member file)	Number of persons under 6 in a household	(min: 0; max: 40)

10) Living/Family Arrangement of Selected Respondent

Variable name: DHHDLVG

Based on: DHH_REL of selected respondent, DHHDHSZ

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

Note: The necessary data is collected using a set of relationship codes that define a link between each person 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.

Temporary Reformat			
Value	Condition(s)	Description	Notes
DHH_REL			
Z1	NS	Not stated	Relationship Codes
A1	40, 41, 42, 43	Parental (40 = Father/Mother, 41 = Birth Father/Mother, 42 = Step Father/Mother, 43 = Adoptive Father/Mother)	Relationship Codes
B1	50, 51, 52, 53	Child (50 = Son/Daughter, 51 = Birth Child, 52 = Step Child, 53 = Adopted Child)	Relationship Codes
C1	60, 61, 62, 63, 64	Sibling (60 = Brother/Sister, 61 = Full Sister/Brother, 62 = Half Sister/Brother, 63 = Step Sister/Brother, 64 = Adopted Sister/Brother)	Relationship Codes
K1	90, 100, 110, 111, 112, 113, 114, 120, 121, 122, 123, 124	Other relative (90 = Grandparent, 100 = Grandchild, 110 = In-Law, 111 = Father/Mother-in-law, 112 = Son/Daughter-in-law, 113 = Brother/Sister-in-law, 114 = Other in-law, 120 = Other Related, 121 = Uncle/Aunt, 122 = Cousin, 123 = Nephew/Niece, 124 = Other Relative)	Relationship Codes

L1	65, 70, 80, 260, 261, 262, 263	Non-relative (65 = Foster Sister/Brother, 70 = Foster Parent, 80 = Foster Child, 260 = Unrelated, 261 = Boyfriend/Girlfriend, 262 = Room-mate, 263 = Other Unrelated)	Relationship Codes
X1	10, 20	Spouse/Partner (10 = Husband/Wife, 20 = Common Law Partner)	Relationship Codes

Specifications

Value	Condition(s)	Description	Notes
99	Any DHH_REL = Z1	Not Stated	NS
1	DHHDHSZ = 1	Unattached individual living alone Lives alone (Household size=1)	
2	All DHH_REL <> X1 and A1	Unattached individual living with others Lives with others. S/he cannot have a marital/common-law or parental relationship but other relationships such as siblings are allowed	
3	DHHDHSZ = 2 and DHH_REL = X1	Spouse/partner living with spouse/partner Lives with spouse/partner only. (Household size=2)	
4	DHHDHSZ > 2 and One DHH_REL = X1 and all other DHH_REL = A1	Parent living with spouse/partner and children Lives with spouse/partner and child(ren)	
5	All DHH_REL = A1	Single parent living with children Lives with child(ren). No other relationships are permitted	
6	DHHDHSZ = 2 and DHH_REL = B1	Child living with a single parent. (Household size=2)	
7	DHHDHSZ > 2 and One DHH_REL = B1 and all other DHH_REL = C1	Child living with a single parent and siblings	
8	DHHDHSZ = 3 and All DHH_REL = B1	Child living with two parents. (Household size=3)	
9	DHHDHSZ > 3 and Two DHH_REL = B1 and all other DHH_REL = C1	Child living with two parents and siblings	
10	Else	Other Lives in a household composition not classified above	

Education (4 DVs)

1) Highest Level of Education - Household, 4 Levels

Variable name:	EDUDH04
Based on:	EDUDR04 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 EDUDR04 for each member of the household (all PERSONID within SAMPLEID). The highest value is then obtained by comparing values of EDUDR04 for all members within the household. If any PERSONID has EDUDR04 of NS (not stated) then NS is returned. If all of EDUDR04 are NA (not applicable) then NA is returned.

2) Highest Level of Education - Household, 10 Levels

Variable name:	EDUDH10
Based on:	EDUDR10 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 EDUDR10 for each member of the household (all PERSONID within SAMPLEID). The highest value is then obtained by comparing values of EDUDR10 for all members within the household. If any PERSONID has EDUDR10 of NS (not stated) then NS is returned. If all of EDUDR10 are NA (not applicable) then NA is returned.

3) Highest Level of Education - Respondent, 4 Levels

Variable name:	EDUDR04
Based on:	EDU_1, EDU_2, EDU_3, EDU_4A
Description:	This variable indicates the highest level of education acquired by the respondent.
Note:	In 2011, the external name for EDU_Q04 was changed from EDU_4 to EDU_4A due to the addition of two new response categories in the question.

Specifications			
Value	Condition(s)	Description	Notes
1	((EDU_1 in (1, 2) or EDU_2 = 2) and EDU_3 = 2)	Less than secondary school graduation	EDUDR10 = 1,2,3
2	EDU_2 = 1 and EDU_3 = 2	Secondary school graduation, no post-secondary education	EDUDR10 = 4
3	EDU_3 = 1 and EDU_4A in (1,2)	Some post-secondary education	EDUDR10 = 5
4	EDU_4A in (3,4,5,6,7)	Post-secondary certificate/diploma or university degree	EDUDR10 = 6,7,8,9,10

9	[(EDU_1 in (7,8,9)) and EDU_2 = 2] or (EDU_2 in (7,8,9)) or (EDU_3 in (7,8,9)) or (EDU_4A in (97,98,99)) or ((DHH_AGE in (14,15)) and PMKPROXY = 2)	At least one required question was not answered (don't know, refusal, not stated)	NS (EDUDR10 = 99)
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4) Highest Level of Education - Respondent, 10 Levels

Variable name: EDUDR10

Based on: EDU_1, EDU_2, EDU_3, EDU_4A

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

Note: In 2011, the external name for EDU_Q04 was changed from EDU_4 to EDU_4A due to the addition of two new response categories in the question.

1: Category 3 includes respondents that did not graduate from high school and did not do any post-secondary education.
2: Category 5 includes respondents that did graduate from high school, did receive other education that could be counted towards a degree, certificate or diploma but did not earn such a degree, certificate or diploma.

Specifications			
Value	Condition(s)	Description	Notes
1	(EDU_1 = 1 and EDU_3 = 2)	Grade 8 or lower (Québec: Secondary II or lower)	
2	(EDU_1 = 2 and EDU_3 = 2)	Grade 9-10 (Québec: Secondary III or IV; Newfoundland & Labrador: 1st year of secondary)	
3	EDU_1 = 3 and EDU_2 = 2 and EDU_3 = 2)	Grade 11-13 (Québec: Secondary V; Newfoundland & Labrador: 2nd to 3rd year of secondary) (1)	
4	EDU_2 = 1 and EDU_3 = 2	Secondary school graduate, no post-secondary education	
5	EDU_3 = 1 and (EDU_4A = 1 or EDU_4A = 2)	Some post secondary education (2)	
6	EDU_4A = 3	Trade certificate or diploma	
7	EDU_4A = 4	Non-university certificate or diploma from a college, cegep, etc. (other than trades certificates or diplomas)	
8	EDU_4A = 5	University certificate or diploma below bachelor's level	
9	EDU_4A = 6	Bachelor's degree	
10	EDU_4A = 7	University certificate, diploma or degree above bachelor's level	
99	[(EDU_1 in (7,8,9)) and EDU_2 = 2] or (EDU_2 in (7,8,9)) or (EDU_3 in (7,8,9)) or (EDU_4A = in (97,98,99)) or ((DHH_AGE in (14,15)) and PMKPROXY = 2)	At least one required question was not answered (don't know, refusal, not stated)	NS

Fruit and vegetable consumption (8 DVs)

1) Daily Consumption - Fruit Juice

Variable name: FVCDJUI

Based on: FVC_1A, FVC_1B, FVC_1C, FVC_1D, FVC_1E

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

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

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_1A = DK, R, NS) or (FVC_1B = DK, R, NS) or (FVC_1C = DK, R, NS) or (FVC_1D = DK, R, NS) or (FVC_1E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_1B	FVC_1A = 1	Number of times/day	
FVC_1C / 7	FVC_1A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_1D / 30	FVC_1A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_1E / 365	FVC_1A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_1A = 5	Never drinks fruit juice	

2) Daily Consumption - Other Fruit

Variable name: FVCDFRU

Based on: FVC_2A, FVC_2B, FVC_2C, FVC_2D, FVC_2E

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

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

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_2A = DK, R, NS) or (FVC_2B = DK, R, NS) or (FVC_2C = DK, R, NS) or (FVC_2D = DK, R, NS) or (FVC_2E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_2B	FVC_2A = 1	Number of times/day	
FVC_2C / 7	FVC_2A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_2D / 30	FVC_2A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)

FVC_2E / 365	FVC_2A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_2A = 5	Never eats fruit	

3) Daily Consumption - Green Salad

Variable name: FVCDSAL

Based on: FVC_3A, FVC_3B, FVC_3C, FVC_3D, FVC_3E

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

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

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_3A = DK, R, NS) or (FVC_3B = DK, R, NS) or (FVC_3C = DK, R, NS) or (FVC_3D = DK, R, NS) or (FVC_3E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_3B	FVC_3A = 1	Number of times/day	
FVC_3C / 7	FVC_3A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_3D / 30	FVC_3A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_3E / 365	FVC_3A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_3A = 5	Never eats green salad	

4) Daily Consumption - Potatoes

Variable name: FVCDPOT

Based on: FVC_4A, FVC_4B, FVC_4C, FVC_4D, FVC_4E

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

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

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_4A = DK, R, NS) or (FVC_4B = DK, R, NS) or (FVC_4C = DK, R, NS) or (FVC_4D = DK, R, NS) or (FVC_4E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_4B	FVC_4A = 1	Number of times/day	

FVC_4C / 7	FVC_4A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_4D / 30	FVC_4A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_4E / 365	FVC_4A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_4A = 5	Never eats potatoes	

5) Daily Consumption - Carrots

Variable name: FVCDCAR

Based on: FVC_5A, FVC_5B, FVC_5C, FVC_5D, FVC_5E

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

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

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	(FVC_5A = DK, R, NS) or (FVC_5B = DK, R, NS) or (FVC_5C = DK, R, NS) or (FVC_5D = DK, R, NS) or (FVC_5E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_5B	FVC_5A = 1	Number of times/day	
FVC_5C / 7	FVC_5A = 2	Number of times/day (reported "times per week")	(rounded to one decimal place)
FVC_5D / 30	FVC_5A = 3	Number of times/day (reported "times per month")	(rounded to one decimal place)
FVC_5E / 365	FVC_5A = 4	Number of times/day (reported "times per year")	(rounded to one decimal place)
0	FVC_5A = 5	Never eats carrots	

6) Daily Consumption - Other Vegetables

Variable name: FVCDVEG

Based on: FVC_6A, FVC_6B, FVC_6C, FVC_6D, FVC_6E

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

Note: In this question, the CCHS measures the number of servings, not the amount consumed.

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked -proxy interview	NS

999.9	(FVC_6A = DK, R, NS) or (FVC_6B = DK, R, NS) or (FVC_6C = DK, R, NS) or (FVC_6D = DK, R, NS) or (FVC_6E = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
FVC_6B	FVC_6A = 1	Number of servings/day	
FVC_6C / 7	FVC_6A = 2	Number of servings/day (reported "servings per week")	(rounded to one decimal place)
FVC_6D / 30	FVC_6A = 3	Number of servings/day (reported "servings per month")	(rounded to one decimal place)
FVC_6E / 365	FVC_6A = 4	Number of servings/day (reported "servings per year")	(rounded to one decimal place)
0	FVC_6A = 5	Never eats other vegetables	

7) Daily Consumption - Total Fruit and Vegetable

Variable name: FVCDTOT

Based on: FVCDJUI, FVCDFRU, FVCDLAL, FVCDPOT, FVCDLAL, FVCDLAL, FVCDLAL

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

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

Specifications			
Value	Condition(s)	Description	Notes
999.9	ADM_PRX = 1	Module not asked - proxy interview	NS
999.9	FVCDJUI = NS or FVCDFRU = NS or FVCDLAL = NS or FVCDPOT = NS or FVCDLAL = NS or FVCDLAL = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
FVCDJUI + FVCDFRU + FVCDLAL + FVCDPOT + FVCDLAL + FVCDLAL	(0 <= FVCDJUI <= 20) and (0 <= FVCDFRU <= 20) and (0 <= FVCDLAL <= 20) and (0 <= FVCDPOT <= 20) and (0 <= FVCDLAL <= 20) and (0 <= FVCDLAL <= 20)	Total number of times the respondent eats fruits and vegetables	(min : 0.0; max : 120.0)

8) Grouping of Daily Consumption - Total Fruit and Vegetable

Variable name: FVCGTOT

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

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS

9	FVCDTOT = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	FVCDTOT < 5	Eats fruits and vegetables less than 5 times per day.	
2	(5 <= FVCDTOT <= 10)	Eats fruits and vegetables between 5 and 10 times per day	
3	FVCDTOT > 10	Eats fruits and vegetables more than 10 times per day	

General health (3 DVs)

1) Perceived Health

Variable name: GENDHDI

Based on: GEN_01

Description: This variable indicates the respondent's health status based on his/her own judgement or his/her proxy. Higher scores indicate positive perceived health status.

Note: Prior to 2007, this variable was named self-rated health.

Specifications			
Value	Condition(s)	Description	Notes
9	(GEN_01 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	GEN_01 = 5	Poor	
1	GEN_01 = 4	Fair	
2	GEN_01 = 3	Good	
3	GEN_01 = 2	Very good	
4	GEN_01 = 1	Excellent	

2) Perceived Mental Health

Variable name: GENDMHI

Based on: GEN_02B

Description: This variable indicates the respondent's mental health status based on his/her own judgement. Higher scores indicate positive perceived mental health status.

Note: Prior to 2007, this variable was named self-rated mental health.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	(GEN_02B = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	GEN_02B = 5	Poor	
1	GEN_02B = 4	Fair	
2	GEN_02B = 3	Good	
3	GEN_02B = 2	Very good	
4	GEN_02B = 1	Excellent	

3) Satisfaction with life in general - (G)

Variable name: GENGSWL

Based on: GEN_02A2

Description: This variable groups the 11-point scale used in GEN_02A2 to rate a respondent's satisfaction with life into 5 categories. The 5 categories were used for GEN_02A prior to 2009.

Note: This variable is available for the purpose of comparing data from question GEN_02A2 introduced in 2009 to GEN_02A. Users should be aware that although a good concordance was determined, GEN_02A was based on a 5-point answer category vs. an 11-point scale for the variable GEN_02A2.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Question not asked - proxy interview	NS
9	GEN_02A2 in (97,98,99)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(GEN_02A2 >= 9 and GEN_02A2 <= 10)	Very Satisfied	
2	(GEN_02A2 >= 6 and GEN_02A2 <= 8)	Satisfied	
3	GEN_02A2 = 5	Neither satisfied nor dissatisfied	
4	(GEN_02A2 >= 2 and GEN_02A2 <= 4)	Dissatisfied	
5	(GEN_02A2 >= 0 and GEN_02A2 <= 1)	Very Dissatisfied	

Health utilities index - Pain and discomfort (1 DV)

The Health Utilities Index (HUI) is a multi-attribute health status classification system for measuring generic health status and health-related quality of life. The version used by CCHS is the HUI Mark 3 (HUI3), developed in Canada at McMaster University by Health Utilities Inc. The HUI3 allows the calculation of a generic health status index based on attributes found in two different CCHS modules - Health utilities index - Pain and discomfort (HUP) and the Health utilities index (HUI). HUIDHSI can only be calculated when both HUP and HUI are collected in a given cycle. For more information see "Feeny D, Furlong W, Torrance GW et al. Multi-attribute and single-attribute utility functions for the Health Utilities Index Mark 3 system. Med Care 2002; 40: 113-128."

1) Pain Health Status

Variable name: HUPDPAD

Based on: HUP_01, HUP_03

Description: Pain health status refers to the degree of pain that is usually felt by a person. This concept also considers whether this pain prevents him or her from performing certain activities. This variable is one of the 8 attributes used to calculate the Health Utility Index (HUIDHSI).

Specifications			
Value	Condition(s)	Description	Notes
1	HUP_01 = 1 and HUP_03 = 6	No pain or discomfort	
2	HUP_01 = 2 and HUP_03 = 1	Pain - does not prevent activity	
3	HUP_01 = 2 and HUP_03 = 2	Pain prevents a few activities	
4	HUP_01 = 2 and HUP_03 = 3	Pain prevents some activities	
5	HUP_01 = 2 and HUP_03 = 4	Pain prevents most activities	
9	(HUP_01 = DK, R, NS) or (HUP_03 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

Height and weight - Self-reported (5 DVs)

1) Height (Metres) - Self-Reported

Variable name: HWTDHMT

Based on: HWT_2, HWT_2C, HWT_2D, HWT_2E, HWT_2F

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

Note: For example, an individual who reported being 5 feet and 8 inches will have a height of 1.727 metres. The 1.727 is the midpoint of the range (1.715-1.739) around the height 5 feet and 8 inches. The range values were calculated as follows for an individual who is 5'8": LOWER LIMIT: Take the exact value in metres for a person who is 5'7" and average it with the value for 5'8". UPPER LIMIT: Take the exact value in metres for a person who is 5'9" and average it with the value for 5'8" then subtract 0.001 from it.

Specifications			
Value	Condition(s)	Description	Notes
9.996	MAM_037 = 1	Population exclusion - Pregnant women	NA
9.999	ADM_PRX = 1	Module not asked - proxy interview	NS
9.999	(HWT_2 = DK, R, NS) or (HWT_2C = DK, R, NS) or (HWT_2D = DK, R, NS) or (HWT_2E = DK, R, NS) or (HWT_2F = DK, R, NS) or ADM_PRX = 1	At least one required question was not answered (don't know, refusal, not stated)	NS
0.914	HWT_2 = 3 and HWT_2C = 0	0.926 metres or shorter	
0.940	HWT_2 = 3 and HWT_2C = 1	0.927 to 0.952 metres	
0.965	HWT_2 = 3 and HWT_2C = 2	0.953 to 0.977 metres	
0.991	HWT_2 = 3 and HWT_2C = 3	0.978 to 1.002 metres	
1.016	HWT_2 = 3 and HWT_2C = 4	1.003 to 1.028 metres	
1.041	HWT_2 = 3 and HWT_2C = 5	1.029 to 1.053 metres	
1.067	HWT_2 = 3 and HWT_2C = 6	1.054 to 1.079 metres	
1.092	HWT_2 = 3 and HWT_2C = 7	1.080 to 1.104 metres	
1.118	HWT_2 = 3 and HWT_2C = 8	1.105 to 1.129 metres	
1.143	HWT_2 = 3 and HWT_2C = 9	1.130 to 1.155 metres	
1.168	HWT_2 = 3 and HWT_2C = 10	1.156 to 1.180 metres	
1.194	HWT_2 = 3 and HWT_2C = 11	1.181 to 1.206 metres	
1.219	HWT_2 = 4 and HWT_2D = 0	1.207 to 1.231 metres	
1.245	HWT_2 = 4 and HWT_2D = 1	1.232 to 1.256 metres	

1.270	HWT_2 = 4 and HWT_2D = 2	1.257 to 1.282 metres
1.295	HWT_2 = 4 and HWT_2D = 3	1.283 to 1.307 metres
1.321	HWT_2 = 4 and HWT_2D = 4	1.308 to 1.333 metres
1.346	HWT_2 = 4 and HWT_2D = 5	1.334 to 1.358 metres
1.372	HWT_2 = 4 and HWT_2D = 6	1.359 to 1.383 metres
1.397	HWT_2 = 4 and HWT_2D = 7	1.384 to 1.409 metres
1.422	HWT_2 = 4 and HWT_2D = 8	1.410 to 1.434 metres
1.448	HWT_2 = 4 and HWT_2D = 9	1.435 to 1.460 metres
1.473	HWT_2 = 4 and HWT_2D = 10	1.461 to 1.485 metres
1.499	HWT_2 = 4 and HWT_2D = 11	1.486 to 1.510 metres
1.524	HWT_2 = 5 and HWT_2E = 0	1.511 to 1.536 metres
1.549	HWT_2 = 5 and HWT_2E = 1	1.537 to 1.561 metres
1.575	HWT_2 = 5 and HWT_2E = 2	1.562 to 1.587 metres
1.600	HWT_2 = 5 and HWT_2E = 3	1.588 to 1.612 metres
1.626	HWT_2 = 5 and HWT_2E = 4	1.613 to 1.637 metres
1.651	HWT_2 = 5 and HWT_2E = 5	1.638 to 1.663 metres
1.676	HWT_2 = 5 and HWT_2E = 6	1.664 to 1.688 metres
1.702	HWT_2 = 5 and HWT_2E = 7	1.689 to 1.714 metres
1.727	HWT_2 = 5 and HWT_2E = 8	1.715 to 1.739 metres
1.753	HWT_2 = 5 and HWT_2E = 9	1.740 to 1.764 metres
1.778	HWT_2 = 5 and HWT_2E = 10	1.765 to 1.790 metres
1.803	HWT_2 = 5 and HWT_2E = 11	1.791 to 1.815 metres
1.829	HWT_2 = 6 and HWT_2F = 0	1.816 to 1.841 metres
1.854	HWT_2 = 6 and HWT_2F = 1	1.842 to 1.866 metres
1.880	HWT_2 = 6 and HWT_2F = 2	1.867 to 1.891 metres
1.905	HWT_2 = 6 and HWT_2F = 3	1.892 to 1.917 metres

1.930	HWT_2 = 6 and HWT_2F = 4	1.918 to 1.942 metres
1.956	HWT_2 = 6 and HWT_2F = 5	1.943 to 1.968 metres
1.981	HWT_2 = 6 and HWT_2F = 6	1.969 to 1.993 metres
2.007	HWT_2 = 6 and HWT_2F = 7	1.994 to 2.018 metres
2.032	HWT_2 = 6 and HWT_2F = 8	2.019 to 2.044 metres
2.057	HWT_2 = 6 and HWT_2F = 9	2.045 to 2.069 metres
2.083	HWT_2 = 6 and HWT_2F = 10	2.070 to 2.095 metres
2.108	HWT_2 = 6 and HWT_2F = 11	2.096 to 2.120 metres
2.134	HWT_2 = 7	2.121 metres or taller

2) Weight (Kilograms) - Self-Reported

Variable name: HWTDWTK

Based on: HWT_3, HWT_N4

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

Specifications			
Value	Condition(s)	Description	Notes
999.96	MAM_037 = 1	Population exclusion - Pregnant women	NA
999.99	ADM_PRX = 1	Module not asked (proxy interview)	
999.99	(HWT_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
HWT_3	HWT_N4 = 2	Weight in Kg.	(rounded to two decimal places)
HWT_3 x .45	HWT_N4 = 1	Weight in Kg., converted from Lbs.	(rounded to two decimal places)

3) Body Mass Index (self-reported)

Variable name: HWTDBMI

Based on: HWTDHMT, HWTDWTK

Description: The Body Mass Index (BMI) for this variable is based on self-reported height and weight. BMI is a comparison of "weight" relative to the "height" of respondents. BMI is calculated by dividing weight in kilograms by height in metres squared. $BMI = WEIGHT (KG) / HEIGHT (METRES) SQUARED$

Note: 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 (MEX_05 = 1) to permit comparability with previous cycles of CCHS and NPHS. For Cycle 1.1 of CCHS, BMI was calculated only for respondents aged 20-64. Beginning with Cycle 2.1, BMI is calculated for

respondents aged 18 and over. With the introduction of a new classification system for people under 18 in Cycle 3.1, BMI is now calculated for people less than 18.

This BMI classification is created using "self-reported height" and "self-reported weight" variables.

A systematic review of the literature concluded that the use of self-reported data among adults underestimates weight and overestimates height, resulting in lower estimates of obesity than those obtained from measured data (Connor Gorber et al. 2007). Obesity estimates based on the CCHS are subject to these biases (Shields et al. 2008b). Using data from the 2005 Canadian Community Health Survey (CCHS) subsample, where both measured and self-reported values were collected, correction equations have been developed (Connor Gorber et al. 2008). These correction equations have been successfully applied to both 2005 and 2008 self-reported CCHS data to produce more accurate estimates of obesity (Connor Gorber et al. 2008; Shields et al. 2011). Differences between corrected estimates of obesity from the CCHS and measured estimates from the Canadian Health Measures Survey will be monitored over time to determine if the bias in self-reported values is changing and if new correction equations need to be developed.

Another problem associated with the use of self-reported data is that it distorts our understanding of the relationship between obesity and obesity-related diseases. The misclassification that occurs when BMI categories are based on self-reported data results in elevated associations between obesity and obesity-related diseases such as hypertension and diabetes (Shields et al. 2008a). Associations between BMI categories and these health conditions are more accurate when based on corrected values (Connor Gorber et al. 2008).

Here are the equations. They should be applied to the population age 18 or older.

if sex=1 then $bmi_c = -1.07575 + 1.07592 \cdot bmi_sr$;

if sex=2 then $bmi_c = -0.12374 + 1.05129 \cdot bmi_sr$;

References

1. Connor Gorber S, Shields M, Tremblay MS, McDowell I. The feasibility of establishing correction factors to adjust self-reported estimates of obesity. *Health Reports* (Statistics Canada, Catalogue 82-003) 2008; 19(3): 71-82.
2. Connor Gorber S, Tremblay M, Moher D, Gorber B. A comparison of direct vs. self-report measures for assessing height, weight and body mass index: a systematic review. *Obesity Reviews* 2007; 8(4): 307-26.
3. Shields M, Connor Gorber S, Tremblay MS. Effects of measurement on obesity and morbidity. *Health Reports* (Statistics Canada, Catalogue 82-003) 2008a; 19(2): 77-84.
4. Shields M, Connor Gorber S, Tremblay MS. Estimates of obesity based on self-report versus direct measures. *Health Reports* (Statistics Canada, Catalogue 82-003) 2008b; 19(2): 61-76.
5. Shields M, Gorber SC, Janssen I, Tremblay MS. Bias in self-reported estimates of obesity in Canadian health surveys: an update on correction equations for adults. *Health Reports* 2011; 22(3): 35-45.

Specifications

Value	Condition(s)	Description	Notes
999.96	MAM_037 = 1	Population exclusion - Pregnant women	NA
999.99	DHH_SEX = 2 and (MAM_037 = DK, R, NS)	Females who did not answer the pregnancy question (don't know, refusal, not stated)	NS
999.99	HWTDHMT = NS or HWTDWTK = NS	Respondents for whom a valid self-reported height and weight was not obtained	NS
999.99	(HWTDHMT > 2.108 and HWTDHMT < 9.996) or HWTDHMT < .914	The value for the respondent's height is out of range.	
HWTDWTK / (HWTDHMT × HWTDHMT)	HWTDHMT < NA and HWTDWTK < NA	BMI calculated from both self-reported height and self-reported weight values	(Rounded to two decimal places)

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

Variable name: HWTDISW

Based on: HWTDBMI, DDH_AGE

Description: This variable assigns adult respondents aged 18 and over (except pregnant women) to one of the following categories, according to their Body Mass Index (BMI): underweight; acceptable weight; overweight; obese class I; obese class II; and, obese class III. 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.

Note: 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: youth who have not attained growth maturity, adults who are naturally very lean, very muscular adults, some ethnic and racial groups, and adults over 65 years of age.

This variable excludes female respondents aged 18 to 49 who were pregnant or did not answer the pregnancy question (i.e. MAM_037 = don't know, refusal, not stated).

Internet site: http://www.hc-sc.gc.ca/hpfb-dgpsa/onpp-bppn/weight_book_f.pdf

Specifications			
Value	Condition(s)	Description	Notes
96	DDH_AGE < 18 or MAM_037 = 1	Population exclusions	NA
99	HWTDBMI = NS or (MAM_037 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
1	HWTDBMI < 18.50	Underweight	
2	(18.50 <= HWTDBMI <= 24.99)	Normal weight	
3	(25.00 <= HWTDBMI <= 29.99)	Overweight	
4	(30.00 <= HWTDBMI <= 34.99)	Obese - Class I	
5	(35.00 <= HWTDBMI <= 39.99)	Obese - Class II	
6	HWTDBMI >= 40.00	Obese - Class III	

Reference: For more detailed information see Canadian Guidelines for Body Weight Classification in Adults, Health Canada, 2003

5) BMI classification for children aged 12 to 17 (self-reported) - Cole classification system

Variable name: HWTDCOL

Based on: HWTDBMI, DHH_SEX, DHHYOB, DHHMOB, DHHDOB, ADM_YOI, ADM_MOI, ADM_DOI

Description: This variable classifies children aged 12 to 17 (except female respondents aged 15 to 17 who were pregnant or did not answer the pregnancy question) as "obese", "overweight" or "neither obese nor 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 (obese).

Note: 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".

This variable excludes respondents who are 18 years old or over (216 months).

Temporary Reformat			
Value	Condition(s)	Description	Notes
AGET1			
DHH_AGM / 12	DHH_AGM < 9996	Convert respondent's "age in months" to "age in years"	(Rounded to nearest 0.5)
DHH_AGM			
9999	(DHH_DOB = DK, R, NS) or (DHH_MOB = DK, R or NS) or (DHH_YOB = DK, R or NS)	A valid day of birth or month of birth or year of birth is not available for the respondent.	NS

Age in months	Interview date converted in months (ADM_YOI, ADM_MOI and ADM_DOI) - Date of birth converted in months (DHH_YOB, DHH_MOB and DHH_DOB)	Create respondent's age in months at time of the interview	(min:144; max:1224)
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Specifications

Value	Condition(s)	Description	Notes
6	MAM_037 = 1 or (17 < DHH_AGE or DHH_AGE < 12) or (DHH_AGM >= 216 and DHH_AGM < 9999)	Population exclusion	NA
9	HWTDBMI = NS or (MAM_037 = DK, R, NS) or DHH_AGM = NS	At least one required question was not answered (don't know, refusal, not stated)	NS

3	<p>(AGET1 = 12 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 26.02) or (AGET1 = 12 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 26.67) or (AGET1 = 12.5 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 26.43) or (AGET1 = 12.5 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 27.24) or (AGET1 = 13 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 26.84) or (AGET1 = 13 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 27.76) or (AGET1 = 13.5 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 27.25) or (AGET1 = 13.5 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 28.20) or (AGET1 = 14 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 27.63) or (AGET1 = 14 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 28.57) or (AGET1 = 14.5 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 27.98) or (AGET1 = 14.5 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 28.87) or (AGET1 = 15 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 28.30) or (AGET1 = 15 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 29.11) or (AGET1 = 15.5 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 28.60) or (AGET1 = 15.5 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 29.29) or (AGET1 = 16 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 28.88) or (AGET1 = 16 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 29.43) or (AGET1 = 16.5 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 29.14) or (AGET1 = 16.5 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 29.56) or (AGET1 = 17 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 29.41) or (AGET1 = 17 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 29.69) or (AGET1 = 17.5 and DHH_SEX = 1 and 999.96 > HWTDBMI >= 29.70) or (AGET1 = 17.5 and DHH_SEX = 2 and 999.96 > HWTDBMI >= 29.84) or (AGET1 = 18 and</p>	Obese
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DHH_SEX = 1 and
999.96 > HWTDBMI >= 30.00) or
(AGET1 = 18 and
DHH_SEX = 2 and
999.96 > HWTDBMI >= 30.00)

2	<p>(AGET1 = 12 and DHH_SEX = 1 and (21.22 <= HWTDBMI < 26.02)) or (AGET1 = 12 and DHH_SEX = 2 and (21.68 <= HWTDBMI < 26.67)) or (AGET1 = 12.5 and DHH_SEX = 1 and (21.56 <= HWTDBMI < 26.43)) or (AGET1 = 12.5 and DHH_SEX = 2 and (22.14 <= HWTDBMI < 27.24)) or (AGET1 = 13 and DHH_SEX = 1 and (21.91 <= HWTDBMI < 26.84)) or (AGET1 = 13 and DHH_SEX = 2 and (22.58 <= HWTDBMI < 27.76)) or (AGET1 = 13.5 and DHH_SEX = 1 and (22.27 <= HWTDBMI < 27.25)) or (AGET1 = 13.5 and DHH_SEX = 2 and (22.98 <= HWTDBMI < 28.20)) or (AGET1 = 14 and DHH_SEX = 1 and (22.62 <= HWTDBMI < 27.63)) or (AGET1 = 14 and DHH_SEX = 2 and (23.34 <= HWTDBMI < 28.57)) or (AGET1 = 14.5 and DHH_SEX = 1 and (22.96 <= HWTDBMI < 27.98)) or (AGET1 = 14.5 and DHH_SEX = 2 and (23.66 <= HWTDBMI < 28.87)) or (AGET1 = 15 and DHH_SEX = 1 and (23.29 <= HWTDBMI < 28.30)) or (AGET1 = 15 and DHH_SEX = 2 and (23.94 <= HWTDBMI < 29.11)) or (AGET1 = 15.5 and DHH_SEX = 1 and (23.60 <= HWTDBMI < 28.60)) or (AGET1 = 15.5 and DHH_SEX = 2 and (24.17 <= HWTDBMI < 29.29)) or (AGET1 = 16 and DHH_SEX = 1 and (23.90 <= HWTDBMI < 28.88)) or (AGET1 = 16 and DHH_SEX = 2 and (24.37 <= HWTDBMI < 29.43)) or (AGET1 = 16.5 and DHH_SEX = 1 and (24.19 <= HWTDBMI < 29.14)) or (AGET1 = 16.5 and DHH_SEX = 2 and (24.54 <= HWTDBMI < 29.56)) or (AGET1 = 17 and DHH_SEX = 1 and (24.46 <= HWTDBMI < 29.41)) or (AGET1 = 17 and DHH_SEX = 2 and (24.70 <= HWTDBMI < 29.69)) or (AGET1 = 17.5 and DHH_SEX = 1 and (24.73 <= HWTDBMI < 29.70)) or (AGET1 = 17.5 and DHH_SEX = 2 and (24.85 <= HWTDBMI < 29.84)) or (AGET1 = 18 and</p>	Overweight
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	DHH_SEX = 1 and (25.00 <= HWTDBMI < 30.00)) or (AGET1 = 18 and DHH_SEX = 2 and (25.00 <= HWTDBMI < 30.00))	
1	Else	Neither overweight nor obese

Reference: 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.

Income (3 DVs)

TEMPORARY VARIABLE

Household income ratio

Variable name: INCTRAT

Based on: INC_3, GEO_PRV, DHHDSZ, GEOTPSZ

This derived variable is a temporary variable used in the calculation of adjusted ratios (INCDADR). While INCDADR is disseminated in the master and share files, INCTRAT is not. The Territories are excluded from this derived variable.

This derived variable is a ratio between the total income of the respondent's household and the low income cut-off corresponding to the number of persons in the household and the size of the community. The low income cut-off is the threshold at which a family would typically spend a larger portion of its income than the average family on the necessities of food, shelter and clothing.

This derived variable is produced in two separate steps. A summary of those steps is provided below.

Step 1: Low income cut-offs for each family and community size were obtained for the 2010 reference year from the Survey of Labour and Income Dynamics (SLID). In the case of CCHS, the income questions refer to the past 12 months. Although the survey data were collected in 2011, at the time the data was to be processed, 2010 was the most recent year for which low income cut-offs could be provided.

A low income cut-off was linked to all respondents (INCLIC). This cut-off corresponded to the size of the respondent's household (DHHDSZ) and the size of the community in which the respondent lives (GEOTPSZ). Therefore, respondents were assigned one of the 35 possible combinations that exist (7 household size groups times 5 community size groups). For instance, the INCLIC variable of a respondent living in a household size of 3 people and in an urban community with a population of 47,000 people would be 29,652.

Step 2: Individual ratios of household income to the low income cut-off are calculated for each household within each household and community size using the DHHDSZ household size variable and the GEOTPSZ community size variable. Ratios are calculated by dividing household income (INCTINC) by the corresponding low income cut-off (INCLIC).

Starting with the 2011 data, INC_3 is imputed and INCTINC is now based on INC_3 only. Imputed values are now available to users. Prior to 2011, INCTINC was based on INC_3, INCDHH and imputed values to account for missing values in INCDHH. Imputation was only done for INCTINC and imputed values for missing INCDHH were not available to users.

A flag (INCFIMP) identifies which values were imputed.

Ref.: Low income cut-offs (INCLIC) were taken from : Statistics Canada, "Income Research Paper Series", Low income lines, 2009-2010, Table 2: Low income cut-offs (1992 base) before tax. Catalogue no. 75F0002M No. 2, June 2011.

Temporary Reformat			
Value	Condition(s)	Description	Notes
GEOTPSZ			
1	GEODUR = 0	Rural Area	
2	Size of the population centre (or CMA) < 30,000	Population Centre Less than 30, 000 people	
3	30,000 <= Size of the population centre (or CMA) < 100,000	Population Centre 30,000 to 99,999 people	
4	100,000 <= Size of the population centre (or CMA) < 500,000	Population Centre 100,000 to 499,999 people	
5	Size of the population centre (or CMA) >= 500,000	Population Centre 500,000 people or more	
INCTINC			
99999996	GEO_PRV = 60, 61, 62	Residents of Territories excluded	
99999999	INC_3=99999999	None of the income questions was stated	
0	INC_3<=0	No income or income loss	Value of 0 assigned when income loss reported
INC_3	0 < INC_3 < 99999996	Specific and positive household income	
INCLIC			
15 583	DHHDSZ = 1 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household = 1 and population size group = rural area	

17 729	DHHDHSZ = 1 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - less than 30,000 people
19 375	DHHDHSZ = 1 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - 30,000 to 99,999 people
19 400	DHHDHSZ = 2 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household = 2 and population size group = rural area
19 496	DHHDHSZ = 1 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - 100,000 to 499,999 people
22 070	DHHDHSZ = 2 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - less than 30,000 people
22 637	DHHDHSZ = 1 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household = 1 and population size group = urban area - 500,000 people or more
23 849	DHHDHSZ = 3 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household = 3 and population size group = rural area
24 120	DHHDHSZ = 2 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - 30,000 to 99,999 people
24 269	DHHDHSZ = 2 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - 100,000 to 499,999 people
27 132	DHHDHSZ = 3 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - less than 30,000 people
28 182	DHHDHSZ = 2 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household = 2 and population size group = urban area - 500,000 people or more
28 957	DHHDHSZ = 4 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household = 4 and population size group = rural area
29 652	DHHDHSZ = 3 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - 30,000 to 99,999 people
29 836	DHHDHSZ = 3 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - 100,000 to 499,999 people
32 842	DHHDHSZ = 5 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household = 5 and population size group = rural area
32 943	DHHDHSZ = 4 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - less than 30,000 people
34 646	DHHDHSZ = 3 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household = 3 and population size group = urban area - 500,000 people or more
36 003	DHHDHSZ = 4 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - 30,000 to 99,999 people
36 226	DHHDHSZ = 4 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - 100,000 to 499,999 people
37 041	DHHDHSZ = 6 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household = 6 and population size group = rural area
37 363	DHHDHSZ = 5 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - less than 30,000 people
40 833	DHHDHSZ = 5 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - 30,000 to 99,999 people
41 086	DHHDHSZ = 5 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - 100,000 to 499,999 people

41 240	DHHDHSZ >= 7 and GEOTPSZ = 1	Low income cut-offs when the number of persons in household >= 7 and population size group = rural area	
42 065	DHHDHSZ = 4 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household = 4 and population size group = urban area - 500,000 people or more	
42 140	DHHDHSZ = 6 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - less than 30,000 people	
46 054	DHHDHSZ = 6 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - 30,000 to 99,999 people	
46 339	DHHDHSZ = 6 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - 100,000 to 499,999 people	
46 916	DHHDHSZ >= 7 and GEOTPSZ = 2	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - less than 30,000 people	
47 710	DHHDHSZ = 5 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household = 5 and population size group = urban area - 500,000 people or more	
51 274	DHHDHSZ >= 7 and GEOTPSZ = 3	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - 30,000 to 99,999 people	
51 591	DHHDHSZ >= 7 and GEOTPSZ = 4	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - 100,000 to 499,999 people	
53 808	DHHDHSZ = 6 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household = 6 and population size group = urban area - 500,000 people or more	
59 907	DHHDHSZ >= 7 and GEOTPSZ = 5	Low income cut-offs when the number of persons in household >= 7 and population size group = urban area - 500,000 people or more	
INCTRAT			
99.999999996	INCTINC = 999996	Residents of territories excluded	9 decimals
99.999999999	INCTINC = 999999	The ratio cannot be calculated because the household income was not stated	9 decimals
0-40	INCTINC / INCTLIC	Individual ratio of household income to the low income cut-off corresponding to the size of the household and the size of the community. The maximum ratio is based on the maximum household income accepted, which is \$9,000,000	9 decimals

1) Total Household Income - All Sources

Variable name: INCDHH

Based on: INC_3

Description: This variable groups the total household income from all sources. A range category was previously assigned by the application to respondents who provided an exact amount in question INC_3. Starting in 2011, the upper category changed from \$100,000 to \$150,000. The territories are excluded in this derived variable.

Note: Starting with the 2011 data, INC_3 has been imputed and values in INCDHH are now based on INC_3 only. Prior to the 2011 data, Category 1 in INCDHH was based on INC_3. All other categories were based on range categories (INC_5B, INC_5C).

Beginning with the 2011 data, the household income variable (INCDHH) is imputed. Missing values (due to either respondent refusal or respondent's lack of knowledge of household income) will be imputed using statistical techniques. The main variable of interest is INC_3: 'Total household income - best estimate' but all variables that are derived based on household income are affected. The income variables along with an imputation flag (INCFIMP) indicating which values were imputed is provided on the data file.

The imputation is a two step process. First, observations that provide the income range INC_5 have values imputed within that range. A nearest neighbour donor approach is used that finds a respondent with similar characteristics as the non-

respondent and 'donates' the income value to the non-respondent. For those that do not provide a range, a similar process is used but the donor values are not limited to the range.

For more information on the imputation process, please refer to the document 'Income Imputation for the Canadian Community Health Survey' available by request at hd-ds@statcan.gc.ca

Specifications			
Value	Condition(s)	Description	Notes
99	(INC_3 in (97,98,99))	The household income questions was not answered (don't know, refusal, not stated)	NS
1	INC_3 <= 0	No income or income loss	Value of 0 assigned when income loss reported
2	0 < INC_3 < 5000	Less than \$5,000	
3	4999 < INC_3 < 10000	\$5,000 to \$9,999	
4	9999 < INC_3 < 15000	\$10,000 to \$14,999	
5	14999 < INC_3 < 20000	\$15,000 to \$19,999	
6	19999 < INC_3 < 30000	\$20,000 to \$29,999	
7	29999 < INC_3 < 40000	\$30,000 to \$39,999	
8	39999 < INC_3 < 50000	\$40,000 to \$49,999	
9	49999 < INC_3 < 60000	\$50,000 to \$59,999	
10	59999 < INC_3 < 70000	\$60,000 to \$69,999	
11	69999 < INC_3 < 80000	\$70,000 to \$79,999	
12	79999 < INC_3 < 90000	\$80,000 to \$89,999	
13	89999 < INC_3 < 100000	\$90,000 to \$99,999	
14	99999 < INC_3 < 150000	\$100,000 to less than \$150,000	
15	149999 < INC_3	\$150,000 or more	
99	Else	Not enough information for the classification	NS

2) Personal Income - All Sources

Variable name: INCDPER

Based on: INC_8A, INC_8B, INC_8C, INC_8D

Description: This variable indicates the respondent's personal income from all sources. A range category was previously assigned by the application to respondents who provided an exact amount in question INC_8A.

Note: Respondents less than 16 years old were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE <= 15	Population exclusions	NA
14	DHHDHSZ = 1 and INCDHH = 15	The household size = 1 and the household income is \$150,000+.	
INCDHH	DHHTHSZ = 1 and INCDHH <15	The value for INCDHH is used when the respondent is in a one person household.	

99	(INC_8B in 7,8,9) or (INC_8C = 97,98,99) or (INC_8D = 97,98,99) or PMKPROXY = 2	None of the income question were answered (don't know, refusal, not stated)	NS
1	INC_8A <= 0	No income or income loss	Value of 0 assigned when income loss reported
2	INC_8C = 1	Less than \$5,000	
3	INC_8C = 2	\$5,000 to \$9,999	
4	INC_8C = 3	\$10,000 to \$14,999	
5	INC_8C = 4	\$15,000 to \$19,999	
6	INC_8C = 5 or 6	\$20,000 to \$29,999	
7	INC_8D = 1	\$30,000 to \$39,999	
8	INC_8D = 2	\$40,000 to \$49,999	
9	INC_8D = 3	\$50,000 to \$59,999	
10	INC_8D = 4	\$60,000 to \$69,999	
11	INC_8D = 5	\$70,000 to \$79,999	
12	INC_8D = 6	\$80,000 to \$89,999	
13	INC_8D = 7	\$90,000 to \$99,999	
14	INC_8D = 8	\$100,000 +	
99	Else	Not enough information for the classification	NS

3) Income Imputation Flag

Variable name: INCFIMP

Based on: INC_3

Description: This flag was added in 2011. It indicates whether INC_3 has been imputed or not.

Labour force (5 DVs)

1) Total usual hours worked per week

Variable name: LBSDHPW

Based on: LBS_42, LBS_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 week prior to the interview have been excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	DHH_AGE < 15 or DHH_AGE > 75 or LBS_42 = NA	Population exclusion	NA
999	(LBS_42 = DK, R, NS) or (LBS_53 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
LBS_42	LBS_42 < NA and LBS_53 = NA	Number of hours usually worked for respondents with one job	
LBS_42 + LBS_53	LBS_42 < NA and LBS_53 < NA	Number of total hours usually worked for respondents with more than one job	

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

Variable name: LBSDPFT

Based on: LBSDHPW

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 week prior to the interview have been excluded from the population.

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

3) Working status last week

Variable name: LBSDWSS

Based on: LBS_01, LBS_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.

Specifications			
Value	Condition(s)	Description	Notes
6	DHH_AGE < 15 or DHH_AGE > 75	Population exclusion	NA
1	LBS_01 = 1	Worked at a job or business	
2	LBS_02 = 1	Had a job but did not work (absent)	
3	LBS_02 = 2	Did not have a job	
4	LBS_01 = 3	Permanently unable to work	
9	(LBS_02 = DK, R, NS) or (LBS_01 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

4) Industry Group

Variable name: LBSDING

Based on: LBSCSIC

Description: This variable indicates the industry group the respondent belongs to using the North American Industry Classification System (NAICS) 2007 at the 2-digit level.

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

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE < 15 or DHH_AGE > 75 or LBSDWSS = 3 or 4	Population exclusions	NA
99	LBSCSIC = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
01	1st 2 digits in LBSCSIC = 11	Agriculture, Forestry, Fishing and Hunting	
02	1st 2 digits in LBSCSIC = 21	Mining, Quarrying, and Oil and Gas Extraction	
03	1st 2 digits in LBSCSIC = 22	Utilities	
04	1st 2 digits in LBSCSIC = 23	Construction	
05	1st 2 digits in LBSCSIC = 31 or 32 or 33	Manufacturing	
06	1st 2 digits in LBSCSIC = 41	Wholesale Trade	
07	1st 2 digits in LBSCSIC = 44 or LBSCSIC = 45	Retail Trade	
08	1st 2 digits in LBSCSIC = 48 or LBSCSIC = 49	Transportation and Warehousing	
09	1st 2 digits in LBSCSIC = 51	Information and Cultural Industries	
10	1st 2 digits in LBSCSIC = 52	Finance and Insurance	
11	1st 2 digits in LBSCSIC = 53	Real Estate and Rental and Leasing	
12	1st 2 digits in LBSCSIC = 54	Professional, Scientific and Technical Services	
13	1st 2 digits in LBSCSIC = 55	Management of Companies and Enterprises	
14	1st 2 digits in LBSCSIC = 56	Administrative and Support, Waste Management and Remediation Services	
15	1st 2 digits in LBSCSIC = 61	Educational Services	

16	1st 2 digits in LBSCSIC = 62	Health Care and Social Assistance
17	1st 2 digits in LBSCSIC = 71	Arts, Entertainment and Recreation
18	1st 2 digits in LBSCSIC = 72	Accommodation and Food Services
19	1st 2 digits in LBSCSIC = 81	Other Services (except Public Administration)
20	1st 2 digits in LBSCSIC = 91	Public Administration
95	LBSCSIC = XXXX	Could not be coded

5) Occupation Group

Variable name: LBSDOCC

Based on: LBSCSOC

Description: This variable indicates the occupation group the respondent belongs to using the National Occupational Classification - Statistics (NOC-S) 2006 at the 2-digit level.

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

Specifications			
Value	Condition(s)	Description	Notes
96	DHH_AGE < 15 or DHH_AGE > 75 or LBSDWSS = 3 or 4	Population exclusions	NA
99	LBSCSOC = DK, R, NS	At least one required question was not answered (don't know, refusal, not stated)	NS
01	First digit in LBSCSOC = A	Management Occupations	
02	First digit in LBSCSOC = B	Business, Finance and Administration Occupations	
03	First digit in LBSCSOC = C	Natural and Applied Sciences and Related Occupations	
04	First digit in LBSCSOC = D	Health Occupations	
05	First digit in LBSCSOC = E	Occupations in Social Science, Education, Government Service and Religion	
06	First digit in LBSCSOC = F	Occupations in Art, Culture, Recreation and Sport	
07	First digit in LBSCSOC = G	Sales and Service Occupations	
08	First digit in LBSCSOC = H	Trades, Transport and Equipment Operators and Related Occupations	
09	First digit in LBSCSOC = I	Occupations Unique to Primary Industry	
10	First digit in LBSCSOC = J	Occupations Unique to Processing, Manufacturing and Utilities	
95	LBSCSOC = XXXX	Could not be coded	

Physical activities (9 DVs)

1) Daily Energy Expenditure in Leisure Time Physical Activities

Variable name: PACDEE

Based on: PAC_1V, PAC_2A, PAC_2B, PAC_2C, PAC_2D, PAC_2E, PAC_2F, PAC_2G, PAC_2H, PAC_2I, PAC_2J, PAC_2K, PAC_2L, PAC_2M, PAC_2N, PAC_2O, PAC_2P, PAC_2Q, PAC_2R, PAC_2S, PAC_2T, PAC_2U, PAC_2W, PAC_2X, PAC_2Z, PAC_3A, PAC_3B, PAC_3C, PAC_3D, PAC_3E, PAC_3F, PAC_3G, PAC_3H, PAC_3I, PAC_3J, PAC_3K, PAC_3L, PAC_3M, PAC_3N, PAC_3O, PAC_3P, PAC_3Q, PAC_3R, PAC_3S, PAC_3T, PAC_3U, PAC_3W, PAC_3X, PAC_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: Energy Expenditure (EE) 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 (Energy Expenditure for each activity) = (N X D X 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.

Variable Name	Activity	MET Value (kcal/kg/hr)
PACDEEA	WALKING FOR EXERCISE	3
PACDEEB	GARDENING OR YARD WORK	3
PACDEEC	SWIMMING	3
PACDEED	BICYCLING	4
PACDEEE	POPULAR OR SOCIAL DANCE	3
PACDEEF	HOME EXERCISES	3
PACDEEG	ICE HOCKEY	6
PACDEEH	ICE SKATING	4
PACDEEI	IN-LINE SKATING OR ROLLERBLADING	5
PACDEEJ	JOGGING OR RUNNING*	9.5
PACDEEK	GOLFING	4
PACDEEL	EXERCISE CLASS OR AEROBICS	4
PACDEEM	DOWNHILL SKIING OR SNOWBOARDING	4
PACDEEN	BOWLING	2
PACDEEO	BASEBALL OR SOFTBALL	3
PACDEEP	TENNIS	4
PACDEEQ	WEIGHT-TRAINING	3
PACDEER	FISHING	3
PACDEES	VOLLEYBALL	5
PACDEET	BASKETBALL	6
PACDEEZ	SOCCER	5
PACDEEU	OTHER (U)*	4
PACDEEW	OTHER (W)*	4
PACDEEX	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).

* 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 (PAC_1n) changed slightly from previous CCHS cycles: The activity "Soccer" was asked explicitly in Cycle 2.1. For Cycle 1.1, this activity was part of the "Other" activities.

Temporary Reformat			
Value	Condition(s)	Description	Notes
PACDEEA			
0	PAC_3A = NA	Did not participate in activity	WALKING FOR EXERCISE
0	(PAC_3A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	WALKING FOR EXERCISE
$(\text{PAC_2A} \times 4 \times .2167 \times 3) / 365$	PAC_3A = 1	Calculate EE for < 15 min*	WALKING FOR EXERCISE
$(\text{PAC_2A} \times 4 \times .3833 \times 3) / 365$	PAC_3A = 2	Calculate EE for 16 to 30 min*	WALKING FOR EXERCISE
$(\text{PAC_2A} \times 4 \times .75 \times 3) / 365$	PAC_3A = 3	Calculate EE for 31 to 60 min*	WALKING FOR EXERCISE
$(\text{PAC_2A} \times 4 \times 1 \times 3) / 365$	PAC_3A = 4	Calculate EE for > 60 min*	WALKING FOR EXERCISE
PACDEEB			
0	PAC_3B = NA	Did not participate in activity	GARDENING OR YARD WORK
0	(PAC_3B = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	GARDENING OR YARD WORK
$(\text{PAC_2B} \times 4 \times .2167 \times 3) / 365$	PAC_3B = 1	Calculate EE for < 15 min*	GARDENING OR YARD WORK
$(\text{PAC_2B} \times 4 \times .3833 \times 3) / 365$	PAC_3B = 2	Calculate EE for 16 to 30 min*	GARDENING OR YARD WORK
$(\text{PAC_2B} \times 4 \times .75 \times 3) / 365$	PAC_3B = 3	Calculate EE for 31 to 60 min*	GARDENING OR YARD WORK
$(\text{PAC_2B} \times 4 \times 1 \times 3) / 365$	PAC_3B = 4	Calculate EE for > 60 min*	GARDENING OR YARD WORK
PACDEEC			
0	PAC_3C = NA	Did not participate in activity	SWIMMING
0	(PAC_3C = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	SWIMMING
$(\text{PAC_2C} \times 4 \times .2167 \times 3) / 365$	PAC_3C = 1	Calculate EE for < 15 min*	SWIMMING
$(\text{PAC_2C} \times 4 \times .3833 \times 3) / 365$	PAC_3C = 2	Calculate EE for 16 to 30 min*	SWIMMING
$(\text{PAC_2C} \times 4 \times .75 \times 3) / 365$	PAC_3C = 3	Calculate EE for 31 to 60 min*	SWIMMING
$(\text{PAC_2C} \times 4 \times 1 \times 3) / 365$	PAC_3C = 4	Calculate EE for > 60 min*	SWIMMING
PACDEED			
0	PAC_3D = NA	Did not participate in activity	BICYCLING
0	(PAC_3D = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BICYCLING
$(\text{PAC_2D} \times 4 \times .2167 \times 4) / 365$	PAC_3D = 1	Calculate EE for < 15 min*	BICYCLING
$(\text{PAC_2D} \times 4 \times .3833 \times 4) / 365$	PAC_3D = 2	Calculate EE for 16 to 30 min*	BICYCLING

$(PAC_2D \times 4 \times .75 \times 4) / 365$	PAC_3D = 3	Calculate EE for 31 to 60 min*	BICYCLING
$(PAC_2D \times 4 \times 1 \times 4) / 365$	PAC_3D = 4	Calculate EE for > 60 min*	BICYCLING
PACDEEE			
0	PAC_3E = NA	Did not participate in activity	POPULAR OR SOCIAL DANCE
0	(PAC_3E = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	POPULAR OR SOCIAL DANCE
$(PAC_2E \times 4 \times .2167 \times 3) / 365$	PAC_3E = 1	Calculate EE for < 15 min*	POPULAR OR SOCIAL DANCE
$(PAC_2E \times 4 \times .3833 \times 3) / 365$	PAC_3E = 2	Calculate EE for 16 to 30 min*	POPULAR OR SOCIAL DANCE
$(PAC_2E \times 4 \times .75 \times 3) / 365$	PAC_3E = 3	Calculate EE for 31 to 60 min*	POPULAR OR SOCIAL DANCE
$(PAC_2E \times 4 \times 1 \times 3) / 365$	PAC_3E = 4	Calculate EE for > 60 min*	POPULAR OR SOCIAL DANCE
PACDEEF			
0	PAC_3F = NA	Did not participate in activity	HOME EXERCISES
0	(PAC_3F = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	HOME EXERCISES
$(PAC_2F \times 4 \times .2167 \times 3) / 365$	PAC_3F = 1	Calculate EE for < 15 min*	HOME EXERCISES
$(PAC_2F \times 4 \times .3833 \times 3) / 365$	PAC_3F = 2	Calculate EE for 16 to 30 min*	HOME EXERCISES
$(PAC_2F \times 4 \times .75 \times 3) / 365$	PAC_3F = 3	Calculate EE for 31 to 60 min*	HOME EXERCISES
$(PAC_2F \times 4 \times 1 \times 3) / 365$	PAC_3F = 4	Calculate EE for > 60 min*	HOME EXERCISES
PACDEEG			
0	PAC_3G = NA	Did not participate in activity	ICE HOCKEY
0	(PAC_3G = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	ICE HOCKEY
$(PAC_2G \times 4 \times .2167 \times 6) / 365$	PAC_3G = 1	Calculate EE for < 15 min*	ICE HOCKEY
$(PAC_2G \times 4 \times .3833 \times 6) / 365$	PAC_3G = 2	Calculate EE for 16 to 30 min*	ICE HOCKEY
$(PAC_2G \times 4 \times .75 \times 6) / 365$	PAC_3G = 3	Calculate EE for 31 to 60 min*	ICE HOCKEY
$(PAC_2G \times 4 \times 1 \times 6) / 365$	PAC_3G = 4	Calculate EE for > 60 min*	ICE HOCKEY
PACDEEH			
0	PAC_3H = NA	Did not participate in activity	ICE SKATING
0	(PAC_3H = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	ICE SKATING
$(PAC_2H \times 4 \times .2167 \times 4) / 365$	PAC_3H = 1	Calculate EE for < 15 min*	ICE SKATING
$(PAC_2H \times 4 \times .3833 \times 4) / 365$	PAC_3H = 2	Calculate EE for 16 to 30 min*	ICE SKATING
$(PAC_2H \times 4 \times .75 \times 4) / 365$	PAC_3H = 3	Calculate EE for 31 to 60 min*	ICE SKATING

$(\text{PAC_2H} \times 4 \times 1 \times 4) / 365$	PAC_3H = 4	Calculate EE for > 60 min*	ICE SKATING
PACDEEI			
0	PAC_3I = NA	Did not participate in activity	IN-LINE SKATING OR ROLLERBLADING
0	(PAC_3I = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	IN-LINE SKATING OR ROLLERBLADING
$(\text{PAC_2I} \times 4 \times .2167 \times 5) / 365$	PAC_3I = 1	Calculate EE for < 15 min*	IN-LINE SKATING OR ROLLERBLADING
$(\text{PAC_2I} \times 4 \times .3833 \times 5) / 365$	PAC_3I = 2	Calculate EE for 16 to 30 min*	IN-LINE SKATING OR ROLLERBLADING
$(\text{PAC_2I} \times 4 \times .75 \times 5) / 365$	PAC_3I = 3	Calculate EE for 31 to 60 min*	IN-LINE SKATING OR ROLLERBLADING
$(\text{PAC_2I} \times 4 \times 1 \times 5) / 365$	PAC_3I = 4	Calculate EE for > 60 min*	IN-LINE SKATING OR ROLLERBLADING
PACDEEJ			
0	PAC_3J = NA	Did not participate in activity	JOGGING OR RUNNING
0	(PAC_3J = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	JOGGING OR RUNNING
$(\text{PAC_2J} \times 4 \times .2167 \times 9.5) / 365$	PAC_3J = 1	Calculate EE for < 15 min*	JOGGING OR RUNNING
$(\text{PAC_2J} \times 4 \times .3833 \times 9.5) / 365$	PAC_3J = 2	Calculate EE for 16 to 30 min*	JOGGING OR RUNNING
$(\text{PAC_2J} \times 4 \times .75 \times 9.5) / 365$	PAC_3J = 3	Calculate EE for 31 to 60 min*	JOGGING OR RUNNING
$(\text{PAC_2J} \times 4 \times 1 \times 9.5) / 365$	PAC_3J = 4	Calculate EE for > 60 min*	JOGGING OR RUNNING
PACDEEK			
0	PAC_3K = NA	Did not participate in activity	GOLFING
0	(PAC_3K = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	GOLFING
$(\text{PAC_2K} \times 4 \times .2167 \times 4) / 365$	PAC_3K = 1	Calculate EE for < 15 min*	GOLFING
$(\text{PAC_2K} \times 4 \times .3833 \times 4) / 365$	PAC_3K = 2	Calculate EE for 16 to 30 min*	GOLFING
$(\text{PAC_2K} \times 4 \times .75 \times 4) / 365$	PAC_3K = 3	Calculate EE for 31 to 60 min*	GOLFING
$(\text{PAC_2K} \times 4 \times 1 \times 4) / 365$	PAC_3K = 4	Calculate EE for > 60 min*	GOLFING
PACDEEL			
0	PAC_3L = NA	Did not participate in activity	EXERCISE CLASS OR AEROBICS
0	(PAC_3L = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	EXERCISE CLASS OR AEROBICS
$(\text{PAC_2L} \times 4 \times .2167 \times 4) / 365$	PAC_3L = 1	Calculate EE for < 15 min*	EXERCISE CLASS OR AEROBICS

$(\text{PAC_2L} \times 4 \times .3833 \times 4) / 365$	PAC_3L = 2	Calculate EE for 16 to 30 min*	EXERCISE CLASS OR AEROBICS
$(\text{PAC_2L} \times 4 \times .75 \times 4) / 365$	PAC_3L = 3	Calculate EE for 31 to 60 min*	EXERCISE CLASS OR AEROBICS
$(\text{PAC_2L} \times 4 \times 1 \times 4) / 365$	PAC_3L = 4	Calculate EE for > 60 min*	EXERCISE CLASS OR AEROBICS
PACDEEM			
0	PAC_3M = NA	Did not participate in activity	DOWNHILL SKIING OR SNOWBOARDING
0	(PAC_3M = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC_2M} \times 4 \times .2167 \times 4) / 365$	PAC_3M = 1	Calculate EE for < 15 min*	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC_2M} \times 4 \times .3833 \times 4) / 365$	PAC_3M = 2	Calculate EE for 16 to 30 min*	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC_2M} \times 4 \times .75 \times 4) / 365$	PAC_3M = 3	Calculate EE for 31 to 60 min*	DOWNHILL SKIING OR SNOWBOARDING
$(\text{PAC_2M} \times 4 \times 1 \times 4) / 365$	PAC_3M = 4	Calculate EE for > 60 min*	DOWNHILL SKIING OR SNOWBOARDING
PACDEEN			
0	PAC_3N = NA	Did not participate in activity	BOWLING
0	(PAC_3N = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BOWLING
$(\text{PAC_2N} \times 4 \times .2167 \times 2) / 365$	PAC_3N = 1	Calculate EE for < 15 min*	BOWLING
$(\text{PAC_2N} \times 4 \times .3833 \times 2) / 365$	PAC_3N = 2	Calculate EE for 16 to 30 min*	BOWLING
$(\text{PAC_2N} \times 4 \times .75 \times 2) / 365$	PAC_3N = 3	Calculate EE for 31 to 60 min*	BOWLING
$(\text{PAC_2N} \times 4 \times 1 \times 2) / 365$	PAC_3N = 4	Calculate EE for > 60 min*	BOWLING
PACDEEO			
0	PAC_3O = NA	Did not participate in activity	BASEBALL OR SOFTBALL
0	(PAC_3O = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BASEBALL OR SOFTBALL
$(\text{PAC_2O} \times 4 \times .2167 \times 3) / 365$	PAC_3O = 1	Calculate EE for < 15 min*	BASEBALL OR SOFTBALL
$(\text{PAC_2O} \times 4 \times .3833 \times 3) / 365$	PAC_3O = 2	Calculate EE for 16 to 30 min*	BASEBALL OR SOFTBALL
$(\text{PAC_2O} \times 4 \times .75 \times 3) / 365$	PAC_3O = 3	Calculate EE for 31 to 60 min*	BASEBALL OR SOFTBALL
$(\text{PAC_2O} \times 4 \times 1 \times 3) / 365$	PAC_3O = 4	Calculate EE for > 60 min*	BASEBALL OR SOFTBALL
PACDEEP			
0	PAC_3P = NA	Did not participate in activity	TENNIS

0	(PAC_3P = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	TENNIS
$(PAC_2P \times 4 \times .2167 \times 4) / 365$	PAC_3P = 1	Calculate EE for < 15 min*	TENNIS
$(PAC_2P \times 4 \times .3833 \times 4) / 365$	PAC_3P = 2	Calculate EE for 16 to 30 min*	TENNIS
$(PAC_2P \times 4 \times .75 \times 4) / 365$	PAC_3P = 3	Calculate EE for 31 to 60 min*	TENNIS
$(PAC_2P \times 4 \times 1 \times 4) / 365$	PAC_3P = 4	Calculate EE for > 60 min*	TENNIS
PACDEEQ			
0	PAC_3Q = NA	Did not participate in activity	WEIGHT-TRAINING
0	(PAC_3Q = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	WEIGHT-TRAINING
$(PAC_2Q \times 4 \times .2167 \times 3) / 365$	PAC_3Q = 1	Calculate EE for < 15 min*	WEIGHT-TRAINING
$(PAC_2Q \times 4 \times .3833 \times 3) / 365$	PAC_3Q = 2	Calculate EE for 16 to 30 min*	WEIGHT-TRAINING
$(PAC_2Q \times 4 \times .75 \times 3) / 365$	PAC_3Q = 3	Calculate EE for 31 to 60 min*	WEIGHT-TRAINING
$(PAC_2Q \times 4 \times 1 \times 3) / 365$	PAC_3Q = 4	Calculate EE for > 60 min*	WEIGHT-TRAINING
PACDEER			
0	PAC_3R = NA	Did not participate in activity	FISHING
0	(PAC_3R = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	FISHING
$(PAC_2R \times 4 \times .2167 \times 3) / 365$	PAC_3R = 1	Calculate EE for < 15 min*	FISHING
$(PAC_2R \times 4 \times .3833 \times 3) / 365$	PAC_3R = 2	Calculate EE for 16 to 30 min*	FISHING
$(PAC_2R \times 4 \times .75 \times 3) / 365$	PAC_3R = 3	Calculate EE for 31 to 60 min*	FISHING
$(PAC_2R \times 4 \times 1 \times 3) / 365$	PAC_3R = 4	Calculate EE for > 60 min*	FISHING
PACDEES			
0	PAC_3S = NA	Did not participate in activity	VOLLEYBALL
0	(PAC_3S = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	VOLLEYBALL
$(PAC_2S \times 4 \times .2167 \times 5) / 365$	PAC_3S = 1	Calculate EE for < 15 min*	VOLLEYBALL
$(PAC_2S \times 4 \times .3833 \times 5) / 365$	PAC_3S = 2	Calculate EE for 16 to 30 min*	VOLLEYBALL
$(PAC_2S \times 4 \times .75 \times 5) / 365$	PAC_3S = 3	Calculate EE for 31 to 60 min*	VOLLEYBALL
$(PAC_2S \times 4 \times 1 \times 5) / 365$	PAC_3S = 4	Calculate EE for > 60 min*	VOLLEYBALL
PACDEET			
0	PAC_3T = NA	Did not participate in activity	BASKETBALL
0	(PAC_3T = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	BASKETBALL

$(\text{PAC_2T} \times 4 \times .2167 \times 6) / 365$	PAC_3T = 1	Calculate EE for < 15 min*	BASKETBALL
$(\text{PAC_2T} \times 4 \times .3833 \times 6) / 365$	PAC_3T = 2	Calculate EE for 16 to 30 min*	BASKETBALL
$(\text{PAC_2T} \times 4 \times .75 \times 6) / 365$	PAC_3T = 3	Calculate EE for 31 to 60 min*	BASKETBALL
$(\text{PAC_2T} \times 4 \times 1 \times 6) / 365$	PAC_3T = 4	Calculate EE for > 60 min*	BASKETBALL
PACDEEU			
0	PAC_3U = NA	Did not participate in activity	OTHER (U)
0	(PAC_3U = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	OTHER (U)
$(\text{PAC_2U} \times 4 \times .2167 \times 4) / 365$	PAC_3U = 1	Calculate EE for < 15 min*	OTHER (U)
$(\text{PAC_2U} \times 4 \times .3833 \times 4) / 365$	PAC_3U = 2	Calculate EE for 16 to 30 min*	OTHER (U)
$(\text{PAC_2U} \times 4 \times .75 \times 4) / 365$	PAC_3U = 3	Calculate EE for 31 to 60 min*	OTHER (U)
$(\text{PAC_2U} \times 4 \times 1 \times 4) / 365$	PAC_3U = 4	Calculate EE for > 60 min*	OTHER (U)
PACDEEW			
0	PAC_3W = NA	Did not participate in activity	OTHER (W)
0	(PAC_3W = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	OTHER (W)
$(\text{PAC_2W} \times 4 \times .2167 \times 4) / 365$	PAC_3W = 1	Calculate EE for < 15 min*	OTHER (W)
$(\text{PAC_2W} \times 4 \times .3833 \times 4) / 365$	PAC_3W = 2	Calculate EE for 16 to 30 min*	OTHER (W)
$(\text{PAC_2W} \times 4 \times .75 \times 4) / 365$	PAC_3W = 3	Calculate EE for 31 to 60 min*	OTHER (W)
$(\text{PAC_2W} \times 4 \times 1 \times 4) / 365$	PAC_3W = 4	Calculate EE for > 60 min*	OTHER (W)
PACDEEX			
0	PAC_3X = NA	Did not participate in activity	OTHER (X)
0	(PAC_3X = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	OTHER (X)
$(\text{PAC_2X} \times 4 \times .2167 \times 4) / 365$	PAC_3X = 1	Calculate EE for < 15 min*	OTHER (X)
$(\text{PAC_2X} \times 4 \times .3833 \times 4) / 365$	PAC_3X = 2	Calculate EE for 16 to 30 min*	OTHER (X)
$(\text{PAC_2X} \times 4 \times .75 \times 4) / 365$	PAC_3X = 3	Calculate EE for 31 to 60 min*	OTHER (X)
$(\text{PAC_2X} \times 4 \times 1 \times 4) / 365$	PAC_3X = 4	Calculate EE for > 60 min*	OTHER (X)
PACDEEZ			
0	PAC_3Z = NA	Did not participate in activity	SOCCER
0	(PAC_3Z = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	SOCCER
$(\text{PAC_2Z} \times 4 \times .2167 \times 5) / 365$	PAC_3Z = 1	Calculate EE for < 15 min*	SOCCER

$(PAC_2Z \times 4 \times .3833 \times 5) / 365$	$PAC_3Z = 2$	Calculate EE for 16 to 30 min*	SOCCER
$(PAC_2Z \times 4 \times .75 \times 5) / 365$	$PAC_3Z = 3$	Calculate EE for 31 to 60 min*	SOCCER
$(PAC_2Z \times 4 \times 1 \times 5) / 365$	$PAC_3Z = 4$	Calculate EE for > 60 min*	SOCCER

Specifications

Value	Condition(s)	Description	Notes
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS
99.9	(PAC_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	PAC_1V = 1	No leisure time physical activity	
PACDEEA + PACDEEB + PACDEEC + PACDEED + PACDEEE + PACDEEF + PACDEEG + PACDEEH + PACDEEI + PACDEEJ + PACDEEK + PACDEEL + PACDEEM + PACDEEN + PACDEEO + PACDEEP + PACDEEQ + PACDEER + PACDEES + PACDEET + PACDEEZ + PACDEEU + PACDEEW + PACDEEX	(0 <= PACDEEA < NA) and (0 <= PACDEEB < NA) and (0 <= PACDEEC < NA) and (0 <= PACDEED < NA) and (0 <= PACDEEE < NA) and (0 <= PACDEEF < NA) and (0 <= PACDEEG < NA) and (0 <= PACDEEH < NA) and (0 <= PACDEEI < NA) and (0 <= PACDEEJ < NA) and (0 <= PACDEEK < NA) and (0 <= PACDEEL < NA) and (0 <= PACDEEM < NA) and (0 <= PACDEEN < NA) and (0 <= PACDEEO < NA) and (0 <= PACDEEP < NA) and (0 <= PACDEEQ < NA) and (0 <= PACDEER < NA) and (0 <= PACDEES < NA) and (0 <= PACDEET < NA) and (0 <= PACDEEZ < NA) and (0 <= PACDEEU < NA) and (0 <= PACDEEW < NA) and (0 <= PACDEEX < NA)	Total daily energy expenditure (kcal/kg/day)	(rounded to one decimal place) (min: 0.0; max: 99.5)

2) Participant In Leisure Time Physical Activity

Variable name:	PACFLEI
Based on:	PAC_1V
Description:	This variable indicates whether the respondent participated in any leisure time physical activities in the three months prior to the interview.
Source:	Ontario Health Survey
Internet site:	www.chass.utoronto.ca/datalib/codebooks/utm/ohs/ohs90.htm

Specifications

Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
2	PAC_1V = 1	Does not participate in leisure time physical activity	
1	PAC_1V = 2	Participates in leisure time physical activity	

9	(PAC_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
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3) Average Monthly Frequency of Leisure Time Physical Activity Lasting Over 15 Minutes

Variable name: PACDFM

Based on: PAC_1V, PAC_2A, PAC_2B, PAC_2C, PAC_2D, PAC_2E, PAC_2F, PAC_2G, PAC_2H, PAC_2I, PAC_2J, PAC_2K, PAC_2L, PAC_2M, PAC_2N, PAC_2O, PAC_2P, PAC_2Q, PAC_2R, PAC_2S, PAC_2T, PAC_2Z, PAC_2U, PAC_2W, PAC_2X, PAC_3A, PAC_3B, PAC_3C, PAC_3D, PAC_3E, PAC_3F, PAC_3G, PAC_3H, PAC_3I, PAC_3J, PAC_3K, PAC_3L, PAC_3M, PAC_3N, PAC_3O, PAC_3P, PAC_3Q, PAC_3R, PAC_3S, PAC_3T, PAC_3Z, PAC_3U, PAC_3W, PAC_3X

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

Note: 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

Internet site: www.chass.utoronto.ca/datalib/codebooks/utm/ohs/ohs90.htm

Temporary Reformat

Value	Condition(s)	Description	Notes
PACT2A			
0	(PAC_3A = 1, NA, DK, R, NS)	Set all values for PAC_2A (number of times/3months respondents took part in physical activity) to 0 if PAC_3A is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
PACT2B			
0	(PAC_3B = 1, NA, DK, R, NS)	Set all values for PAC_2B (number of times/3months respondents took part in physical activity) to 0 if PAC_3B is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
PACT2C			
0	(PAC_3C = 1, NA, DK, R, NS)	Set all values for PAC_2C (number of times/3months respondents took part in physical activity) to 0 if PAC_3C is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
PACT2D			
0	(PAC_3D = 1, NA, DK, R, NS)	Set all values for PAC_2D (number of times/3months respondents took part in physical activity) to 0 if PAC_3D is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
PACT2E			
0	(PAC_3E = 1, NA, DK, R, NS)	Set all values for PAC_2E (number of times/3months respondents took part in physical activity) to 0 if PAC_3E is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)	
PACT2F			

0	(PAC_3F = 1, NA, DK, R, NS)	Set all values for PAC_2F (number of times/3months respondents took part in physical activity) to 0 if PAC_3F is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2G		
0	(PAC_3G = 1, NA, DK, R, NS)	Set all values for PAC_2G (number of times/3months respondents took part in physical activity) to 0 if PAC_3G is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2H		
0	(PAC_3H = 1, NA, DK, R, NS)	Set all values for PAC_2H (number of times/3months respondents took part in physical activity) to 0 if PAC_3H is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2I		
0	(PAC_3I = 1, NA, DK, R, NS)	Set all values for PAC_2I (number of times/3months respondents took part in physical activity) to 0 if PAC_3I is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2J		
0	(PAC_3J = 1, NA, DK, R, NS)	Set all values for PAC_2J (number of times/3months respondents took part in physical activity) to 0 if PAC_3J is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2K		
0	(PAC_3K = 1, NA, DK, R, NS)	Set all values for PAC_2K (number of times/3months respondents took part in physical activity) to 0 if PAC_3K is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2L		
0	(PAC_3L = 1, NA, DK, R, NS)	Set all values for PAC_2L (number of times/3months respondents took part in physical activity) to 0 if PAC_3L is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2M		
0	(PAC_3M = 1, NA, DK, R, NS)	Set all values for PAC_2M (number of times/3months respondents took part in physical activity) to 0 if PAC_3M is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2N		
0	(PAC_3N = 1, NA, DK, R, NS)	Set all values for PAC_2N (number of times/3months respondents took part in physical activity) to 0 if PAC_3N is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2O		
0	(PAC_3O = 1, NA, DK, R, NS)	Set all values for PAC_2O (number of times/3months respondents took part in physical activity) to 0 if PAC_3O is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2P		

0	(PAC_3P = 1, NA, DK, R, NS)	Set all values for PAC_2P (number of times/3months respondents took part in physical activity) to 0 if PAC_3P is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2Q		
0	(PAC_3Q = 1, NA, DK, R, NS)	Set all values for PAC_2Q (number of times/3months respondents took part in physical activity) to 0 if PAC_3Q is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2R		
0	(PAC_3R = 1, NA, DK, R, NS)	Set all values for PAC_2R (number of times/3months respondents took part in physical activity) to 0 if PAC_3R is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2S		
0	(PAC_3S = 1, NA, DK, R, NS)	Set all values for PAC_2S (number of times/3months respondents took part in physical activity) to 0 if PAC_3S is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2T		
0	(PAC_3T = 1, NA, DK, R, NS)	Set all values for PAC_2T (number of times/3months respondents took part in physical activity) to 0 if PAC_3T is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2U		
0	(PAC_3U = 1, NA, DK, R, NS)	Set all values for PAC_2U (number of times/3months respondents took part in physical activity) to 0 if PAC_3U is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2W		
0	(PAC_3W = 1, NA, DK, R, NS)	Set all values for PAC_2W (number of times/3months respondents took part in physical activity) to 0 if PAC_3W is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2X		
0	(PAC_3X = 1, NA, DK, R, NS)	Set all values for PAC_2X (number of times/3months respondents took part in physical activity) to 0 if PAC_3X is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)
PACT2Z		
0	(PAC_3Z = 1, NA, DK, R, NS)	Set all values for PAC_2Z (number of times/3months respondents took part in physical activity) to 0 if PAC_3Z is 1 (1 to 15 minutes), NA (did not participate in activity), or DK, R, NS (did not answer question)

Specifications

Value	Condition(s)	Description	Notes
999	ADM_PRX = 1	Module not asked - proxy interview	NS

999	(PAC_1V = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
0	PAC_1V=1	No leisure time physical activity	
(PACT2A + PACT2B + PACT2C + PACT2D + PACT2E + PACT2F + PACT2G + PACT2H + PACT2I + PACT2J + PACT2K + PACT2L + PACT2M + PACT2N + PACT2O + PACT2P + PACT2Q + PACT2R + PACT2S + PACT2T + PACT2Z + PACT2U + PACT2W + PACT2X) / 3	(0 <= PACT2A < NA) and (0 <= PACT2B < NA) and (0 <= PACT2C < NA) and (0 <= PACT2D < NA) and (0 <= PACT2E < NA) and (0 <= PACT2F < NA) and (0 <= PACT2G < NA) and (0 <= PACT2H < NA) and (0 <= PACT2I < NA) and (0 <= PACT2J < NA) and (0 <= PACT2K < NA) and (0 <= PACT2L < NA) and (0 <= PACT2M < NA) and (0 <= PACT2N < NA) and (0 <= PACT2O < NA) and (0 <= PACT2P < NA) and (0 <= PACT2Q < NA) and (0 <= PACT2R < NA) and (0 <= PACT2S < NA) and (0 <= PACT2T < NA) and (0 <= PACT2Z < NA) and (0 <= PACT2U < NA) and (0 <= PACT2W < NA) and (0 <= PACT2X < NA)	Monthly frequency of all leisure time physical activity lasting over 15 minutes	(Rounded to nearest integer) (min: 0; max: 995)

4) Frequency of All Leisure Time Physical Activity Lasting Over 15 Minutes

Variable name: PACDFR

Based on: PACDFM

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

Note: This variable uses values for the derived variable Monthly Frequency of Physical Activity (PACDFM). The values for PACDFM reflect a one-month average based on data reported for a three-month period.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDFM = NS	Required question was not answered (don't know, refusal, not stated)	NS
1	(12 <= PACDFM < NA)	Regular practice of leisure time activities	
2	(4 <= PACDFM < 12)	Occasional practice of leisure time activities	
3	PACDFM < 4	Infrequent practice of leisure time activities	

5) Participant In Daily Leisure Time Physical Activity Lasting Over 15 Minutes

Variable name: PACFD

Based on: PACDFM

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

Note: This variable is based on values for Monthly Frequency of Physical Activity (PACDFM). Values for PACDFM reflect a one-month average based on data reported for a three-month period.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDFM = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(30 <= PACDFM < NA)	Participates in daily physical activity	
2	PACDFM < 30	Does not participate in daily physical activity	

6) Leisure Time Physical Activity Index

Variable name: PACDPAI

Based on: PACDEE

Description: This variable categorizes respondents as being "active", "moderately active", or "inactive" in their leisure time based on the total daily Energy Expenditure values (kcal/kg/day) calculated for PACDEE.

Note: 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: <http://www.cflri.ca/pdf/e/88wkp.pdf>

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
9	PACDEE = NS	At least one required question was not answered (don't know, refusal, not stated)	NS
1	(3 <= PACDEE < NA)	Active	
2	(1.5 <= PACDEE < 3.0)	Moderately active	
3	(0 <= PACDEE < 1.5)	Inactive	

7) Transportation and Leisure Time Physical Activity Index

Variable name: PACDLTI

Based on: PACDTLE

Description: This variable categorizes respondents as being "active", "moderately active", or "inactive" in their transportation and leisure time based on the total daily Energy Expenditure values (kcal/kg/day) calculated for PACDTLE.

Note: Transportation and Leisure Time Physical Activity Index follows the same criteria used in PACDPAI (Leisure Time Physical Activity Index).

Transportation physical activity is not collected exclusively in CCHS. For this reason, collected information cannot be presented separately from the leisure time physical activities.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS

9	PACDTLE = NS	Required question was not answered (not stated)	NS
1	(3 <= PACDTLE < NA)	Active	
2	(1.5 <= PACDTLE < 3.0)	Moderately active	
3	(0 <= PACDTLE < 1.5)	Inactive	

8) Daily Energy Expenditure in Transportation and Leisure Time Physical Activities

Variable name: PACDTLE

Based on: PACDEE, PAC_Q7, PAC_Q7A, PAC_Q7B, PAC_Q8, PAC_Q8A, PAC_Q8B

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

Note: For more information on how this derived variable is calculated, see note in PACDEE (Daily Energy Expenditure in Leisure Time Physical Activities).

Temporary Reformat			
Value	Condition(s)	Description	Notes
PACDTEA			
0	PAC_7B = NA	Did not participate in transportation or leisure time physical activity	TRANSPORTATION - WALKING
0	(PAC_7B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	TRANSPORTATION - WALKING
$(PAC_7A \times 4 \times .2167 \times 3) / 365$	PAC_7B = 1	Calculate EE for < 15 min*	TRANSPORTATION - WALKING
$(PAC_7A \times 4 \times .3833 \times 3) / 365$	PAC_7B = 2	Calculate EE for 16 to 30 min*	TRANSPORTATION - WALKING
$(PAC_7A \times 4 \times .75 \times 3) / 365$	PAC_7B = 3	Calculate EE for 31 to 60 min*	TRANSPORTATION - WALKING
$(PAC_7A \times 4 \times 1 \times 3) / 365$	PAC_7B = 4	Calculate EE for > 60 min*	TRANSPORTATION - WALKING
PACDTEB			
0	PAC_8B = NA	Did not participate in transportation or leisure time physical activity	TRANSPORTATION - BICYCLING
0	(PAC_8B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	TRANSPORTATION - BICYCLING
$(PAC_8A \times 4 \times .2167 \times 4) / 365$	PAC_8B = 1	Calculate EE for < 15 min*	TRANSPORTATION - BICYCLING
$(PAC_8A \times 4 \times .3833 \times 4) / 365$	PAC_8B = 2	Calculate EE for 16 to 30 min*	TRANSPORTATION - BICYCLING
$(PAC_8A \times 4 \times .75 \times 4) / 365$	PAC_8B = 3	Calculate EE for 31 to 60 min*	TRANSPORTATION - BICYCLING
$(PAC_8A \times 4 \times 1 \times 4) / 365$	PAC_8B = 4	Calculate EE for > 60 min*	TRANSPORTATION - BICYCLING

Specifications			
Value	Condition(s)	Description	Notes
99.9	ADM_PRX = 1	Module not asked - proxy interview	NS

99.9	(PACDEE = DK, R, NS) or (PAC_7B = DK, R, NS) or (PAC_8B = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	(PACDEE = 0) and (PAC_7 = 2, 3) and (PAC_8 = 2, 3)	No transportation or leisure time physical activity	
PACDEE + PACDTEA + PACDTEA + PACDTEA	(0 <= PACDEE < NA) and (0 <= PACDTEA < NA) and (0 <= PACDTEA < NA)	Total daily energy expenditure (kcal/kg/day)	(rounded to one decimal place) (min: 0.0; max: 99.5)

9) Participant In Transportation or Leisure Time Physical Activity

Variable name: PACFLTI

Based on: PAC_1V, PAC_7, PAC_8

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

Note: In 2010, the programming of the response categories for this derived variable were changed. Respondents who provided a mix of valid answer and non response to PAC_1V, PAC_7, or PAC_8 have been coded to category 1 or 2 in PACFLTI. Previously, if they provided a non response to either PAC_1V, PAC_7, or PAC_8 they were coded as non response in PACFLTI.

Specifications			
Value	Condition(s)	Description	Notes
9	ADM_PRX = 1	Module not asked - proxy interview	NS
1	PAC_1V = 2 or PAC_7 = 1 or PAC_8 = 1	Participates in transportation or leisure time physical activity	
2	(PAC_1V = 1) and (PAC_7 = 2, 3) and (PAC_8 = 2, 3)	Does not participate in transportation or leisure time physical activity	
9	(PAC_1V = DK, R, NS) or (PAC_7 = DK, R, NS) or (PAC_8 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS

Restriction of activities (2 DVs)

1) Impact of Health Problems

Variable name: RACDIMP

Based on: RAC_2A, RAC_2B1, RAC_2B2, RAC_2C

Description: This variable is a crude measure of the impact of long-term physical conditions, mental conditions and health problems on the principal domains of life: home, work, school, and other activities.

Note: This variable should not be used to describe the rate of disability or activity limitation in the population. The questions used to derive this variable, plus RAC_1, were asked in the 2006 Census of Population to identify a sample for the 2006 post-censal Participation and Activity Limitation Survey (PALS).

Specifications			
Value	Condition(s)	Description	Notes
2	RAC_2A = 2 or RAC_2B1 = 2 or RAC_2B2 = 2 or RAC_2C = 2	Often	
1	RAC_2A = 1 or RAC_2B1 = 1 or RAC_2B2 = 1 or RAC_2C = 1	Sometimes	
3	RAC_2A = 3 and (RAC_2B1 = 3, 4) and (RAC_2B2 = 3, 4) and RAC_2C = 3	Never	
9	(RAC_2A = DK, R, NS) or (RAC_2B1 = DK, R, NS) or (RAC_2B2 = DK, R, NS) or (RAC_2C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

2) Participation and Activity Limitation

Variable name: RACDPAL

Based on: RAC_1, RAC_2A, RAC_2B1, RAC_2B2, RAC_2C

Description: This variable classifies respondents according to the frequency with which they experience activity limitations imposed on them by a condition(s) or by long-term physical and/or mental health problems that has lasted or is expected to last 6 months or more.

Note: This variable is the same as RACDIMP with the exception that RAC_1 is used in the calculation. This variable is a modification of the Participation and Activity Limitation Survey (PALS) derived variables. Whereas PALS treats non-response (DK, R) as a negative response (set to "Never"), CCHS treats them as non-response and the derived variable is set to not-stated.

Specifications			
Value	Condition(s)	Description	Notes
9	(RAC_2A = DK, R, NS) or (RAC_2B1 = DK, R, NS) or (RAC_2B2 = DK, R, NS) or (RAC_2C = DK, R, NS) or (RAC_1 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

2	RAC_2A = 2 or RAC_2B1 = 2 or RAC_2B2 = 2 or RAC_2C = 2 or RAC_1 = 2	Often
1	RAC_2A = 1 or RAC_2B1 = 1 or RAC_2B2 = 1 or RAC_2C = 1 or RAC_1 = 1	Sometimes
3	RAC_2A = 3 and (RAC_2B1 = 3, 4) and (RAC_2B2 = 3, 4) and RAC_2C = 3 and RAC_1 = 3	Never

Sample variables (1 DV)

1) Permission to Share Data

Variable name: SAMDSHR

Based on: ADM_Q04B (Share question from the main component [not on file]), PS_Q01 (Share question from the Exit component [not on file]), PMK_Q016 (Share question for 14-15 years old from the PMK module [not on file]).

Description: This variable indicates whether or not the respondent agreed to share the information collected in the survey with the provincial and territorial ministries of health, Health Canada, the Public Health Agency of Canada, and the "Institut de la Statistique du Québec" for Quebec respondents. The variable SAMDSHR is calculated from the responses to the Share questions in the Administration module (ADM_Q04B), the Person most knowledgeable about the household (PMK_Q016) module and the Exit component (PS_Q01) for partial interviews.

Note: Starting in 2011, permission to share data questions were asked according to respondent's age and identification of a person most knowledgeable about the household (PMKPROXY) for respondents aged less than 16 years old.

For 12-13 years olds, permission to share was not asked to them directly. If a PMKPROXY was identified or if their interview was completed by a proxy respondent, permission to share data for the whole survey was asked to the PMKPROXY or PROXY respondent in ADM_Q04B or PS_Q01. If no PMKPROXY was identified or the survey completed by the 12-13 years old or if the PROXY respondent was aged less than 16, no data sharing question was asked and data sharing is not possible.

For respondents aged 14-15 years old, permission to share the part of the survey up to the Person most knowledgeable about the household (PMK) module was asked to them directly either in the PMK block itself before their participation ended, or in the exit share question (PS_Q01). If a PMKPROXY was identified to complete the rest of the survey, the PMKPROXY was asked the permission to share question for the remaining household related modules in ADM_Q04 or in PS_Q01. If permission to share was obtained from both the selected respondent in PMK module and the PMKPROXY in ADM_Q04 or PS_Q01, then the data for the whole interview can be shared. If the PMKPROXY did not agree to share the household related questions, then only data from which permission to share was obtained from the 14-15 years old can be shared (i.e. any data up to the PMK module). In this case, SAMDSHR = 3, i.e. partial share. If a PROXY respondent completed the survey for a 14-15 years old, permission to share was only asked in ADM_Q04 or PS_Q01.

For respondents aged 16 and over, the procedure around asking the share questions remains the same. Permission to share was asked directly to them or their PROXY respondent in either ADM_Q04 or PS_Q01.

Specifications			
Value	Condition(s)	Description	Notes
1	(((ANC_AGE IN (12,13) OR ANC_AGE > 15 OR HHSIZE = 1 OR GR_N01A = 1) AND (ADM_Q04 = 1 OR (ADM_Q04 NE 2 AND PS_Q01 = 1))) OR ((HHSIZE > 1 AND GR_N01A NE 1) AND ANC_AGE IN(14,15) AND ((PMKPROXY NE 1 AND (PMK_Q016 = 1 OR (PS_Q01 = 1 AND PMK_Q016 NE 2))) OR (PMKPROXY = 1 AND STATUSHO = 71 AND (PMK_Q016 = 1 AND PS_Q01 = 1)) OR (PMKPROXY = 1 AND STATUSHO = 70 AND (PMK_Q016 = 1 AND ADM_Q04 = 1))))	Yes - Respondent agreed to share information	

2	(((ANC_AGE IN (12,13) OR ANC_AGE > 15 OR HHSIZE = 1 OR GR_N01A = 1) AND NOT((ADM_Q04 = 1 OR (ADM_Q04 NE 2 AND PS_Q01 = 1)) OR (ADM_Q04= . AND PS_Q01 = .))) OR ((HHSIZE > 1 AND GR_N01A NE 1 AND ANC_AGE IN (14,15)) AND ((PMKPROXY NE 1 AND NOT((PMK_Q016 = 1 OR (PS_Q01 = 1 AND PMK_Q016 NE 2)) OR (PS_Q01 = . AND PMK_Q016 = .))) OR ((PMKPROXY = 1 AND STATUSHO = 71) AND NOT(((PMK_Q016 = 1 AND PS_Q01 NE 1) OR ((PMK_Q016 = 1 AND PS_Q01 = 1)) OR (PS_Q01 = . AND PMK_Q016 = .)))) OR ((PMKPROXY = 1 AND STATUSHO = 70) AND NOT((PMK_Q016 = 1 AND ADM_Q04 NE 1) OR (PMK_Q016 = 1 AND ADM_Q04 = 1) OR (PS_Q01 = . AND PMK_Q016 = . AND ADM_Q04 = .))))))	No - Respondent did not agree to share information	
3	(ANC_AGE IN(14,15) AND HHSIZE > 1 AND GR_N01A NE 1 AND PMKPROXY = 1 AND ((STATUSHO = 71 AND (PMK_Q016 = 1 AND PS_Q01 NE 1)) OR (STATUSHO = 70 AND (PMK_Q016 = 1 AND ADM_Q04 NE 1))))	Partial - Respondent aged 14 or 15 year olds accepts to share information but permission to share not obtained from PMK.	
9	Else	Respondent was not asked to share information	NS

Socio-demographic characteristics (9 DVs)

1) Country of birth code

Variable name:	SDCCCB10
Based on:	Country of birth collected in question SDC_Q1.
Description:	This variable gives the respondent's country of birth code. Consult the data dictionary for the complete list of code and corresponding country name.
Note:	Starting with the 2011 data, this variable is an update of SDCCCB. The country code is based on the Standard Classification of Countries and Areas of Interest (SCCAI) of 2010. The SCCAI is Statistics Canada's official classification of countries and areas of interest for use in classifying statistical data.
Internet site:	http://www.statcan.gc.ca/subjects-sujets/standard-norme/sccai-ctpzi/2010/sccai-ctpzi-eng.htm

2) Country of birth - grouped

Variable name:	SDCGCB10
Based on:	SDCCCB10
Description:	This variable classifies the respondent based on his/her country of birth in specific groups.
Note:	<p>Starting with the 2011 data, this variable is an update of SDGCB. The country code is based on the Standard Classification of Countries and Areas of Interest (SCCAI) of 2010. The SCCAI is Statistics Canada's official classification of countries and areas of interest for use in classifying statistical data.</p> <ol style="list-style-type: none"> 1. Other North America includes Greenland, Saint Pierre and Miquelon and United States. 2. South America includes South Georgia and the South Sandwich Islands. 3. Oceania includes Christmas Island, Cocos (Keeling) Islands, and United States Minor Outlying Islands. 4. Antarctica and adjacent islands includes Antarctica, Bouvet Island, French Southern Territories, Heard Island and McDonald Islands.
Internet site:	http://www.statcan.gc.ca/subjects-sujets/standard-norme/sccai-ctpzi/2010/sccaivar-ctpzi-var-eng.htm

Specifications			
Value	Condition(s)	Description	Notes
99	SDCCCB10 in (99997, 99998, 99999)	Required question was not answered (don't know, refusal, not stated)	NS
1	SDCCCB10 = 11124	Canada	
2	11001 <= SDCCCB10 < 12000	Other - North America (1)	
3	12001 <= SDCCCB10 < 15000	South, Central America and Caribbean (2)	
4	21001 <= SDCCCB10 < 25000	Europe	
5	31001 <= SDCCCB10 < 36000	Africa	
6	41001 <= SDCCCB10 < 45000	Asia	
7	51001 <= SDCCCB10 < 52000	Oceania (3)	
8	61001 <= SDCCCB10 < 62000	Antarctica and Adjacent Islands (4)	

3) Language(s) spoken most often at home

Variable name: SDCDLHM

Based on: SDCC5B1, SDCC5B2, SDCC5B3

Description: This variable indicates the language(s) in which the respondent most often speaks at home.

Note: Starting with 2011 data, collection of this information has been modified. The respondent can now provide up to three answers. From 2007 to 2011, the respondent could provide many, without any restrictions. Prior to 2007, multiple answers were not accepted and were collected under question SDC_Q5A.

Internet site: <http://www.statcan.gc.ca/concepts/definitions/language-langue02-eng.htm>

Temporary Reformat			
Value	Condition(s)	Description	Notes
SDCT5B1			
1	sdcc5B1 = 21010000	First answer provided: English	
2	sdcc5B1 = 21020000	First answer provided: French	
3	sdcc5B1 = 22240000 or (sdcc5B1 > 21020000 and sdcc5B1 < 90000000)	First answer provided: Other than English or French	
6	sdcc5B1 = 99999996	Valid skip	
9	sdcc5B1 >= 99999997 and sdcc5B1 <= 99999999	Not stated	
SDCT5B2			
1	sdcc5B2 = 21010000	Second answer provided: English	
2	sdcc5B2 = 21020000	Second answer provided: French	
3	sdcc5B2 = 22240000 or (sdcc5B2 > 21020000 and sdcc5B2 < 90000000)	Second answer provided: Other than English or French	
6	sdcc5B2 = 99999996	Valid skip	
9	sdcc5B2 >= 99999997 and sdcc5B2 <= 99999999	Not stated	
SDCT5B3			
1	sdcc5B3 = 21010000	Thrid answer provided: English	
2	sdcc5B3 = 21020000	Thrid answer provided: French	
3	sdcc5B3 = 22240000 or (sdcc5B3 > 21020000 and sdcc5B3 < 90000000)	Third answer provided: Other than English or French	
6	sdcc5B3 = 99999996	Valid skip	
9	sdcc5B3 >= 99999997 and sdcc5B3 <= 99999999	Not stated	
SDCT5_E			
1	SDCT5B1 = 1 or SDCT5B2 = 1 or SDCT5B3 = 1	English provided in SDCC5B1 or SDCC5B2 or SDCC5B3	
SDCT5_F			
1	SDCT5B1 = 2 or SDCT5B2 = 2 or SDCT5B3 = 2	French provided in SDCC5B1 or SDCC5B2 or SDCC5B3	
SDCT5_O			
1	SDCT5B1 = 3 or SDCT5B2 = 3 or SDCT5B3 = 3	Other language provided in SDCC5B1 or SDCC5B2 or SDCC5B3	

Specifications			
Value	Condition(s)	Description	Notes
Nov. 2012			

99	SDCT5B1=999	Required question was not answered	NS
1	SDCT5_E=1 and SDCT5_F=0 and SDCT5_O=0	English	
2	SDCT5_E=0 and SDCT5_F=1 and SDCT5_O=0	French	
3	SDCT5_E=1 and SDCT5_F=1 and SDCT5_O=0	English and French	
4	SDCT5_E=1 and SDCT5_F=1 and SDCT5_O=1	English, French and Other	
5	SDCT5_E=1 and SDCT5_F=0 and SDCT5_O=1	English and Other	
6	SDCT5_E=0 and SDCT5_F=1 and SDCT5_O=1	French and Other	
7	SDCT5_E = 0 and SDCT5_F = 0 and SDCT5_O = 1	Other	

4) Age at time of immigration

Variable name: SDCDAIM

Based on: SDCCCB10, SDC_3, DHH_YOB

Description: This variable indicates the age of the respondent at the time of immigration.

Note: Non-immigrants were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	SDCCCB10 = NA	Population exclusions	NA
996	SDC_3 = NA	Population exclusion	NA
999	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
SDC_3 - DHH_YOB	SDC_3 < NA	Age at time of immigration	[min: 0; max: 130 (current age)]

5) Immigration flag

Variable name: SDCFIMM

Based on: SDCCCB10, SDC_3

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

Specifications			
Value	Condition(s)	Description	Notes
6	SDCCCB10 = NA	Population exclusions	NA
9	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
1	SDC_3 < NA	Immigrant	
2	SDC_3 = NA	Not an immigrant	

6) Length of time in Canada since immigration

Variable name: SDCDRES

Based on: SDCCCB10, SDC_3, ADM_YOI

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

Note: Non-immigrants were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	SDCCCB10 = NA	Population exclusions	NA
996	SDC_3 = NA	Population exclusion	NA
999	(SDC_3 = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
ADM_YOI - SDC_3	SDC_3 < NA	Length of time in Canada since immigration (interview date - immigration date)	[min: 0; max: 130 (current age)]

7) Language first learned at home in childhood and still understood - Mother tongue

Variable name: SDCDFL1

Based on: SDCC61, SDCC62, SDCC63

Description: This variable indicates the first language learned at home in childhood and still understood by the respondent.

Note: Starting with 2011 data, collection of this information has been modified. The respondent can now provide up to three answers. Prior to 2011, the respondent could provide many answers, without any restrictions.

Internet site: <http://www.statcan.gc.ca/concepts/definitions/language-langue01-eng.htm>

Temporary Reformat			
Value	Condition(s)	Description	Notes
SDCT6_1			
1	sdcc61 = 21010000	First answer provided: English	
2	sdcc61 = 21020000	First answer provided: French	
3	sdcc61 = 22240000 or (sdcc61 > 21020000 and sdcc61 <= 90000000)	First answer provided: Other than English or French	
9	sdcc61 >= 99999997 and sdcc61 <= 99999999	Not stated	
SDCT6_2			
1	sdcc62 = 21010000	Second answer provided: English	
2	sdcc62 = 21020000	Second answer provided: French	
3	sdcc62 = 22240000 or (sdcc62 > 21020000 and sdcc62 < 90000000)	Second answer provided: Other than English or French	
9	sdcc62 >= 99999997 and sdcc62 <= 99999999	Not stated	
SDCT6_3			
1	sdcc63 = 21010000	Third answer provided: English	

2	sdcc63 = 21020000	Third answer provided: French
3	sdcc63 = 22240000 or (sdcc63 > 21020000 and sdcc63 < 90000000)	Third answer provided: Other than English or French
9	sdcc63 >= 99999997 and sdcc63 <= 99999999	Not stated
SDCT6_E		
1	SDCT6_1 = 1 or SDCT6_2 = 1 or SDCT6_3 = 1	English provided in SDCC6_1 or SDCC6_2 or SDCC6_3
SDCT6_F		
1	SDCT6_1 = 2 or SDCT6_2 = 2 or SDCT6_3 = 2	French provided in SDCC6_1 or SDCC6_2 or SDCC6_3
SDCT6_O		
1	SDCT6_1 = 3 or SDCT6_2 = 3 or SDCT6_3 = 3	Other language provided in SDCC6_1 or SDCC6_2 or SDCC6_3

Specifications			
Value	Condition(s)	Description	Notes
1	SDCT6_E = 1 and SDCT6_F = 0 and SDCT6_O = 0	English	
2	SDCT6_E = 0 and SDCT6_F = 1 and SDCT6_O = 0	French	
3	SDCT6_E = 1 and SDCT6_F = 1 and SDCT6_O = 0	English and French	
4	SDCT6_E = 1 and SDCT6_F = 1 and SDCT6_O = 1	English, French and Other	
5	SDCT6_E = 1 and SDCT6_F = 0 and SDCT6_O = 1	English and Other	
6	SDCT6_E = 0 and SDCT6_F = 1 and SDCT6_O = 1	French and Other	
7	SDCT6_E = 0 and SDCT6_F = 0 and SDCT6_O = 1	Other	
99	SDCT6_1 = 999	Required question was not answered (don't know, refusal, not stated)	NS

8) Aboriginal Identity

Variable name: SDCDABT

Based on: SDC_41

Description: This derived variable indicates whether the respondent reported being an Aboriginal person.

Note: In 2011, the term "First nations" replaced "North American Indian" in the question used to collect information on aboriginal identity (SDC_Q4B_1). Also the same year, this question was only asked to respondents reporting being born in Canada, United States, Germany or Greenland. Others reporting being born elsewhere were not asked the question on aboriginal identity.

Prior to June 2005 (middle of Cycle 3.1), respondents were able to report aboriginal background in combination with other cultural or racial backgrounds. All Aboriginal respondents were assigned a value of 1 for that variable regardless of whether they reported aboriginal background singly or in combination with non-aboriginal background. Since June 2005, respondents identifying themselves as Aboriginal are not asked SDC_Q43A to SDC_Q43M, which collect information on other backgrounds. This change was introduced in order to align with the procedures used in the 2006 Census.

Specifications

Value	Condition(s)	Description	Notes
9	SDC_41 in (7, 8, 9)	At least one required question was not answered (don't know, refusal, not stated)	NS
6	SDC_41 = 6	Population exclusions	NA
1	SDC_41 = 1	Aboriginal identity (First Nations, Métis, Inuk/Inuit)	
2	SDC_41 = 2	Non-Aboriginal identity	

9) Cultural / Racial Background

Variable name: SDCDCGT

Based on: SDC_43A, SDC_43B, SDC_43C, SDC_43D, SDC_43E, SDC_43F, SDC_43G, SDC_43H, SDC_43I, SDC_43J, SDC_43K, SDC_43M

Description: This variable indicates the cultural or racial background of the respondent. Since the middle of cycle 3.1, this variable excludes all respondents who identify as aboriginal in SDC_41. (The exclusion of aboriginals from this variable was introduced in the middle of cycle 3.1 to align with Census 2006 procedures).

Note: Starting in 2011, a maximum of four answers can be captured during the interview. Prior to 2011, there was no limitation in the number of cultural or racial backgrounds that could be captured during the interview.

Prior to June 2005, the derived variable included the categories "multiple cultural or racial origins" and "aboriginal only". Respondents who reported Aboriginal origin in combination with any other origin were classified as "multiple cultural or racial origins" and respondents who reported Aboriginal origin but no other origin were classified as "Aboriginal only" for the derived variable. Beginning in June 2005, respondents who identified themselves as aboriginal (SDC_41=1) or who answered "Don't know" or "Refused" (SDC_41 = 7 or 8) were not asked about their cultural or racial background. This change was introduced in order to align with the procedures used in the 2006 Census.

Specifications			
Value	Condition(s)	Description	Notes
99	(SDC_43A = DK, R, NS)	Required question was not answered (don't know, refusal, not stated)	NS
96	SDC_41 = in (1,6)	Aboriginal identity	NA
1	SDC_43A = 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	White only	
2	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D = 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Black only	

3	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K = 1 and SDC_43M > 1	Korean only
4	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E = 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Filipino only
5	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J = 1 and SDC_43K > 1 and SDC_43M > 1	Japanese only
6	SDC_43A > 1 and SDC_43B = 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Chinese only
7	SDC_43A > 1 and SDC_43B > 1 and SDC_43C = 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	South Asian only

8	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G = 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Southeast Asian only
9	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H = 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Arab only
10	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I = 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	West Asian only
11	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F = 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M > 1	Latin American only
12	SDC_43A > 1 and SDC_43B > 1 and SDC_43C > 1 and SDC_43D > 1 and SDC_43E > 1 and SDC_43F > 1 and SDC_43G > 1 and SDC_43H > 1 and SDC_43I > 1 and SDC_43J > 1 and SDC_43K > 1 and SDC_43M = 1	Other racial or cultural origin (only)
13	SDC_41 > 1 and More than one category answered From SDC_43A to SDC_43M.	Multiple racial or cultural origins

Smoking (3 DVs)

1) Type of Smoker

Variable name: SMKDSTY

Based on: SMK_01A, SMK_01B, SMK_202, SMK_05D

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

Note: This variable includes lifetime cigarette consumption.

Specifications			
Value	Condition(s)	Description	Notes
1	SMK_202 = 1	Daily smoker	
2	SMK_202 = 2 and SMK_05D = 1	Occasional smoker (former daily smoker)	
3	SMK_202 = 2 and (SMK_05D = 2, NA)	Occasional smoker (never a daily smoker or has smoked less than 100 cigarettes lifetime)	
4	SMK_202 = 3 and SMK_05D = 1	Former daily smoker (non-smoker now)	
5	SMK_202 = 3 and [[SMK_05D = 2 or SMK_05D = 6] and [SMK_01A = 1 or SMK_01B = 1]]	Former occasional smoker (at least 1 whole cigarette, non-smoker now)	
6	SMK_202 = 3 and SMK_01A = 2 and SMK_01B = 2	Never smoked (a whole cigarette)	
99	(SMK_01A = DK, R, NS) or (SMK_01B = DK, R, NS) or (SMK_202 = DK, R, NS) or (SMK_05D = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS

Reference:

In 2010, the programming of the response categories for this derived variable was changed. Respondents who stated that they were non-smokers, did not smoke more than 100 cigarettes, but have smoked a whole cigarette (SMK_202=3, SMK_05D=5, SMK_01A=2, and SMK_01B=1) were being classified as not stated (SMKDSTY=99) and should have been classified former occasional smokers (at least 1 whole cigarette, non-smoker now)(SMKDSTY=5). Programming was adjusted to ensure that the category was being assigned correctly to all cases.

2) Number of Years Since Stopped Smoking Completely

Variable name: SMKDSTP

Based on: SMK_06A, SMK_06C, SMK_09A, SMK_09C, SMK_10, SMK_10A, SMK_10C, SMKDSTY

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

Note: Current smokers and respondents who have never smoked a whole cigarette and respondents who have not smoked a total of 100 cigarettes or more in their lifetime were excluded from the population.

Specifications			
Value	Condition(s)	Description	Notes
996	(SMKDSTY = 1, 2, 3, 6) or (SMK_202 = 3 and SMK_01A = 2 and	Population exclusions	NA

SMK_01B = 1)			
999	SMKDSTY = NS or (SMK_10 = DK, R, NS) or (SMK_06A = DK, R, NS) or (SMK_06C = DK, R, NS) or (SMK_09A = DK, R, NS) or (SMK_09C = DK, R, NS) or (SMK_10A = DK, R, NS) or (SMK_10C = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
0	SMK_06A = 1 or (SMK_10 = 1 and SMK_09A = 1) or SMK_10A = 1	Number of years since completely quit smoking	(less than 1 year)
1	SMK_06A = 2 or (SMK_10 = 1 and SMK_09A = 2) or SMK_10A = 2	Number of years since completely quit smoking	(1 year to < 2 years)
2	SMK_06A = 3 or (SMK_10 = 1 and SMK_09A = 3) or SMK_10A = 3	Number of years since completely quit smoking	(2 years to < 3 years)
SMK_06C	SMK_06A = 4	Number of years since completely quit smoking	(min: 3; max: 125)
SMK_09C	SMK_09A = 4 and SMK_10 = 1	Number of years since completely quit smoking	(min: 3; max: 125)
SMK_10C	SMK_10A = 4	Number of years since completely quit smoking	(min: 3; max: 125)

3) Number of Years Smoked Daily (Current Daily Smokers Only)

Variable name: SMKDYCS

Based on: SMK_202, SMK_203, DHH_AGE

Description: This variable indicates the number of years the respondent has smoked daily.

Note: Respondents who are not daily smokers have been excluded from the population. The NPHS variables includes non-smokers and occasional smokers who previously smoked daily.

Specifications			
Value	Condition(s)	Description	Notes
996	(SMK_202 = 2, 3)	Population exclusion	NA
999	(SMK_202 = DK, R, NS) or (SMK_203 = DK, R, NS)	At least one required question was not answered (don't know, refusal, not stated)	NS
DHH_AGE - SMK_203	SMK_202 = 1	Number of years smoked daily	(min: 0; max: 125)