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Canada Health Survey

Data Users' Guide

Introduction

The purpose of this document is to give an overview of the data available from the Canada Health Survey micro-data tape. The first part of the paper gives a brief summary of the CHS - why it was done, how the data were collected, editing procedures and final weighting.

The bulk of the document consists of a variable by variable listing of the file. For each field there is a list of the possible codes and their meanings, a frequency distribution (unweighted) and, if necessary, a note on interpretation. The commentary given with a variable is intended to highlight any problems one might encounter in using that data, the rationale behind the variable, the derivation of the variable (if not obvious) or any other significant points about the item.

More details on the methodology and procedures of the Canada Health Survey are given in its final report, The Health of Canadians, and in various working papers issued during the life of the survey. The final report also gives over one hundred tables of data that should be consulted to get some idea of the feasibility of obtaining a particular tabulation or for verifying a given tabulation.

OBJECTIVES OF THE CANADA HEALTH SURVEY

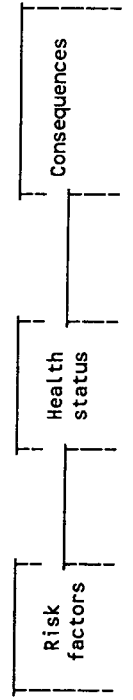
Information Needs

The Canada Health Survey was proposed in 1974 as a means of obtaining information required for planning and evaluating health policies and programs. Such data were not available in a comprehensive way from any other source.

Statistics have been available for several years describing the principal causes of morbidity and mortality, and the utilization of health care services and their cost. Most of this information however is a by-product of the record-keeping systems of the various provincial health insurance schemes, which has been supplemented from time to time by special surveys on specific topics (e.g. nutrition) as the need arose. Except for the occasional population survey however, the available information has tended to emphasize only a part of the total health picture, namely the more extreme illness which comes to the attention of the health care system. While important, this perspective leaves significant areas untouched.

The Canada Health Survey (CHS) was intended to fill these gaps by providing health statistics compatible with the model summarized graphically in Figure 1.

Figure 1. Basic Model of Health



Risks to future health of three main types are identified and probed in the CHS. They are lifestyle, bio-medical and environmental. Lifestyle, in particular, lends itself to measurement in a household survey. Risks have an impact on future health, but, since the time element is missing from a cross-sectional survey, the CHS was restricted to examining the

distribution of known hazards.

Health status - only partially the outcome of earlier risk exposure - has positive and negative dimensions, which were measured for both the physical and emotional facets of health.

Because morbidity statistics are most commonly derived from health records which report a single episode rather than entire histories, it is impossible to assess the personal burden of ill-health, especially for those problems which do not reach the health care system. The CHS rectifies the situation by identifying health problems and their consequences for each individual in the sample, and using these to evaluate the impact of ill-health.

USES OF THE SURVEY DATA

The Canada Health Survey data base is a valuable tool in planning and research related to health care, health promotion and disease prevention. The data are of interest to planners, administrators, professionals, and researchers working in business, government, health care institutions, research and education. Examples of possible uses of Canada Health Survey data are shown below.

SETTING PRIORITIES ON HEALTH PROBLEMS. The survey shows that limb and joint disorders, arthritis and rheumatism, and hay fever and other allergies are the most frequently reported health problems, whereas existing health indicators based on mortality data show heart disease and accidents as the priority health problems.

Moreover, hypertension has been shown to be a very prevalent health problem that is often undiagnosed and untreated. Further analysis of Canada Health Survey data pertaining to hypertension could provide additional support for the priority attention that is now being directed towards the resolution of this serious health problem.

IDENTIFYING GROUPS AT RISK OR AFFLICTED BY ILL-HEALTH. Examining risk populations and drawing profiles of the ill permits more precise targeting of programs and more accurate forecasts of future demands on the health care system. One area of concern is the current risk exposure of the post-war baby boom, now in the age group 25-44. Because of their sheer numbers, the lifestyle risks of this group will have a significant bearing on the demand for health care during the balance of this century.

EPIDEMIOLOGICAL STUDIES. Within the limits of cross-sectional data (collected at the same point in time), the CHS provides fertile ground for investigating how certain risks are combined in the population (e.g. smoking and birth control pill use) and how various risks are related to health (e.g. activity and blood pressure).

ESTABLISHING CANADA-WIDE BASELINES. The normative data that the Canada Health Survey provides can be used to interpret findings of studies conducted locally using compatible methods. For example, normative data on maximum oxygen uptake, immune status, emotional health, blood pressure, trace metals, and blood biochemistry are already published.

Replications and adaptations of CHS procedures. Carefully designed applications of the CHS questionnaires can provide two kinds of benefit for local agencies undertaking their own health surveys. Already noted is the existence of normative data for interpreting local statistics. Also significant are the savings realized by adopting existing, and proven, methods. The Ottawa-Carleton Regional District Health Council and the Montreal General Hospital/Departement de Sante Communautaire have already conducted surveys of their populations using CHS methods.

SURVEY METHODS, SAMPLE DESIGN AND DATA LIMITATIONS

Coverage

The Canada Health Survey covered the non-institutionalized Canadian population, excluding residents of the Territories, Indian Reserves and remote areas as defined by the Canadian Labour Force Survey. In total, these exclusions comprise less than 3% of

the entire Canadian population. The survey field work commenced in May 1978 in the Eastern provinces, the Central provinces were added in June and the entire survey population was covered from July onwards. Data collection was halted in March 1979. Only data collected during the period July 1978 through March 1979 are available for public use.

Data Items and Data Collection

The broad scope of information required by users necessitated the use of a wide range of survey methods and data collection instruments. The major delineation of collection methods was between those utilizing questionnaires, either interviewer- or respondent-completed, and those using instrumented measures, which required the involvement of personnel with particular technical training.

In the Interview component of the survey, there were three questionnaires or forms. Since the survey collected its data from persons residing in dwellings, there was a need at the start of data collection to identify particular characteristics of the dwelling as well as of the persons who resided there. This was the function of the Household Record Card (HRC). The second form collected data which required probing by an interviewer, but could also be obtained for the entire household from a suitable member. This form was called the Interviewer Administered Questionnaire (IAQ). The third form was for data which could be sensitive or could only be reliably answered by the person concerned. Because of its content and the need for respondent completion, the Lifestyle and your Health Questionnaire (LHQ) was limited to persons age 15 years and over.

The second of the two major collection method categories, referred to as the Physical Measures component, was divided into two parts. The first of these included physical measurements of blood pressure, cardiorespiratory fitness, height, weight and skinfold on persons age two years and over. These data were recorded in the Physical Measures Questionnaire (PMQ). The other part involved the taking of blood samples from persons age three years and over in order to determine immune status as well as biochemical and trace metal levels. Only a subset of the selected households were asked to participate in the Physical Measures component.

Figure II summarizes the data items collected, under the risk factors/health status/consequences model. Each group of data is identified with the form or method used for its collection. Copies of some of these forms are shown in Appendix 1 of The Health of Canadians.

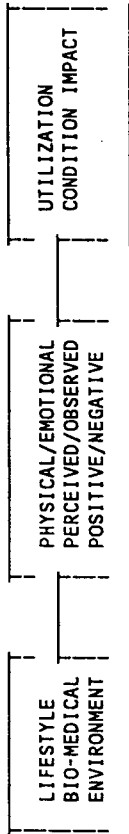
Statistics Canada collected the Interview component data, while the Physical Measures component data were collected by nurses employed by the Victorian Order of Nurses under contract to Health and Welfare Canada.

Each interviewer or nurse was responsible for the collection of data from households in only one of the sample clusters. The interviewer collected the IAQ data for the entire household from a suitable member and then left behind the LHQ for respondent completion, to be picked up by the interviewer a few days later. Where the visit was to a household also involved in the Physical Measures component, the interviewer and nurse worked as a team. On leaving behind the LHQ, the interviewer made an appointment to return with the nurse to collect both the questionnaires and the Physical Measures component data. The equipment used to obtain the physical measures and blood samples was chosen to be both portable and reliable, and included a beam balance and collapsible steps (for the fitness measurements). Blood samples were kept cool until the nurse delivered them, within 16 hours, to a local laboratory which processed them under contract to the Canada Health Survey. The blood samples were centrifuged, separated and then frozen until shipped each month to five central laboratories.

Interviewers and nurses received two weeks training before commencing field work; the blood-processing technicians, one day. Edits were carried out by the field staff on each form to ensure errors at the collection stage were minimized. Physical measurement equipment was checked before each household visit and any faulty equipment either repaired or replaced.

Figure II. A Summary of Data Items

MODEL	RISK FACTORS	HEALTH STATUS	CONSEQUENCES
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DATA

LIFESTYLE

- . alcohol use LHQ
- . tobacco use LHQ
- . physical activities LHQ
- . seatbelt use LHQ
- . female preventive behaviour LHQ

REPORTED HEALTH

- . activity limitations IAQ
- . short-term conditions IAQ
- . accidents and injuries IAQ
- . chronic conditions IAQ
- . impairments IAQ
- . hearing, vision, dental status IAQ

UTILIZATION

- . professional providing care IAQ
- . location care received IAQ
- . reasons care not sought IAQ
- . drug use IAQ
- . medical devices used IAQ

BIO-MEDICAL

PHYSICAL HEALTH

- . immune status BLOOD
- . cholesterol, glucose, uric acid BLOOD
- . family disease history LHQ

PHYSICAL HEALTH

- . cardiorespiratory fitness PMQ
- . blood pressure PMQ
- . anemia BLOOD
- . liver function BLOOD
- . kidney function BLOOD

CONDITION IMPACT

- . disability days IAQ

ENVIRONMENT

- . lead, copper, zinc BLOOD

EMOTIONAL HEALTH

- . psychological well-being LHQ
- . alcohol-related problems LHQ

HOUSEHOLD CHARACTERISTICS

- . area designation HRC
- . household membership HRC
- . dwelling characteristics HRC

DEMOGRAPHIC CHARACTERISTICS

- . social characteristics IAQ & LHQ
- . economic characteristics IAQ
- . mobility, immigration IAQ
- . life events LHQ

KEY: HRC - Household Record Card
 IAQ - Interviewer Administered Questionnaire Interview component

LHQ - Lifestyle and your Health Questionnaire
PMQ - Physical Measures Questionnaire
BLOOD - Blood sample

Physical measures component

Sample Design

The area frame used in this survey was stratified initially by province. Quebec and Ontario each contained three further strata, delimited in terms of groups of provincial health regions. Each of these initial strata was stratified into three additional strata. The first stratum contained the major cities in the region, the second the other major urban areas and the third the remaining, mainly rural, parts of the region.

In developing the sample design, it became evident that the complexity of the collection instruments and procedures required the use of a well-trained and continuing field staff. Furthermore, this staff should be able to operate within a limited distance of their own homes so as to minimize collection costs. Households were considered to be efficient sampling units for the health data required because, in general, they included persons covering a wide age range. These considerations led to the transformation of the required yearly sample size of 40,000 persons for the Interview component into 12,000 households from 100 geographical clusters in monthly samples of 10 households per cluster. The sample design for the Physical Measures component aimed at a yearly subsample of 4,200 households from 50 of the 100 Interview component clusters, at the rate of seven of the 10 Interview households per cluster per month.

Because of government-wide budget cuts in August 1978, the decision was made to terminate the survey, and changes to the actual number of households selected per cluster were made to ensure that close to a 12,000 household sample size was reached before the survey data collection was discontinued. Details of these differences as well as further information on the sample design are covered in Appendix II of The Health of Canadians.

Data Processing

Questionnaire data were captured directly onto computer-readable files using 100% verification. Blood results were added to the survey file at a later date. Health conditions were coded by a central unit to the International Classification of Diseases (9th revision) and industry and occupation codes were added using procedures similar to the Canadian Labour Force Survey.

Extensive editing was carried out on the survey file in order to identify and correct inconsistencies. All non-response, as well as inconsistent data which could not be resolved during the editing operation, was coded as unknown. In so far as possible, automated procedures were used to resolve inconsistencies. Where this was impractical or impossible, the inconsistencies were resolved using manual procedures. Use of manual procedures was particularly frequent for the IAQ and selected physical measurement data. In general, no imputation was performed on the survey data file to replace unknowns.

Editing was performed in hierarchical fashion. That is, changes made due to editing procedures had to be consistent with previously edited data. In fact, most edit procedures were independent within each section of the data file, meaning that relatively few secondary edits resulted from this hierarchical edit structure. Detailed documentation of edit procedures is available on request.

Once editing was complete, a number of summary or indicator variables were calculated for each person and added to the file. Type of Smoker and The Physical Activity Index are examples of derived variables.

A series of weights was calculated to allow the production of population estimates from the sample data. Weights were calculated using a post-stratified ratio estimation method and relevant estimates of provincial populations by age and sex. In addition, the size of the subpopulation responding to a particular form and relevant adjustments for unknowns were considered in the calculations of weights. A total of five weights, each having relevance to different sections of the data file, are included in the Canada Health Survey public use data set.

Data Limitations

Interpretation of any data from the microdata tape has to take into account their derivation. Data from sample surveys are subject to error from a number of sources. Two basic types of error may be distinguished: sampling and non-sampling. The first of these arises because the sample does not include every unit in the population and hence leads to a degree of uncertainty in any estimates derived from the sample. The magnitude of this error can be estimated and is strongly related to the sample size upon which the estimate is based as well as the variability of the particular characteristic under study. For tabulations, sample size should be used to screen individual cell entries for high sampling errors. This screening is not intended to be a precise measure of error but it will provide an indication of the likely magnitude of the relative sampling error.

Very small estimates may be subject to such high errors as to detract seriously from their value for most reasonable purposes. Only estimates based on sample sizes of 50 or greater are considered sufficiently reliable for most purposes. In general, for CHS data, a sample size of 50 or greater implies an estimated sampling error of less than 20% of the cell entry.

Estimates based on sample sizes from 16 to 49 may be used with caution even though they are subject to higher errors. If these data are published, they must be flagged appropriately. For CHS data, the sampling errors related to these estimates are approximately in the range of 20 to 40% of the cell entry.

Estimates based on sample sizes less than 16 should be suppressed in any published tables. The sampling errors related to these estimates are usually greater than 40% of the cell entry.

Non-sampling errors cover all types other than those due to sampling. They arise from a wide range of sources and include errors due to coverage, measurement, non-response, processing and estimation. While every effort was made to minimize these errors in the survey, they will inevitably be present to some degree in the data and will affect their interpretation. Non-response errors, unlike most other non-sampling errors, are easy to identify and the CHS survey has adopted an adjustment strategy for handling non-response. In order to understand this adjustment and how it may affect the data, it is necessary to describe five levels at which non-response can take place in the survey, as well as the adjustment at each level.

The first level of non-response is at the dwelling or household level. Adjustment was made for it by means of the sampling weights. This essentially resulted in non-responding households being replaced conceptually by an "average" household determined from all those households which responded within the same cluster and month.

Adjustment for the second level of non-response, that of persons for whom responses only occurred on the HRC, was done by excluding these persons from the survey file. The numbers excluded were so low that the effect on the survey results is negligible.

The third level of non-response was at the form level, where "form" in this context refers to the LHQ, PMQ and Blood. This non-response arose from persons who responded to the IAQ, but who did not provide a valid response to at least one compulsory item on one of the forms LHQ, PMQ or Blood. Adjustment for form level non-response was made by increasing the sampling weights within each province-stratum-age-sex group by a factor which was the inverse of the group's weighted response rate. Essentially, this is equivalent to the assumption that respondents and non-respondents within each group are similar with respect to health-related data. A study of form non-response indicated that respondents to the LHQ, PMQ and Blood tended to be slightly less healthy, as revealed by IAQ data, than non-respondents. However, this difference was sufficiently small that adjustment for form non-response using the method described was used as the best of the alternatives available.

The fourth and fifth levels of non-response cover partial non-response within a form. The fourth level is called section non-response and identifies the situation where all data items within a section of a form, such as the alcohol section within the LHQ, have been classified as unknown. The fifth level is called variable non-response and describes the situation where a single data item within a section is unknown, but not all the other items within that section. No adjustment has been made through the weighting procedures for these last two levels of non-response. Further information on non-response is available

on request.

CHS PUBLIC USE FILE

F L S (F = field number, L = location, S = size)
HOUSEHOLD RECORD CARD DATA (FIELDS 1-11 EXCLUDING FIELD 7)

	Sample	Comments
1 1 5	Record number 00001 - 31668	Note: sample counts exclude blanks (i.e. not applicable)
2 6 2	Region 10 - Atlantic 20 - Quebec 30 - Ontario 40 - Prairies 50 - British Columbia	
3 8 1	Type of dwelling 1 single 2 2-4 units 3 5 or more units 9 unknown	The file has been randomized so that adjacent records are not necessarily related.
4 9 1	Number of rooms 1 1-3 2 4 3 5 4 6 5 7 6 8 or more 9 unknown	
5 10 1	Size of economic family 1 unattached individual 2 2-3 people 3 4-6 people 4 7 or more people	An economic family consists of two or more people living together and related by blood, marriage or adoption.
6 11 1	IAQ response 1 present for entire interview 2 present for part of interview 3 absent for entire interview 9 unknown	
7 12 1	Residence status 1 at current location 12 months or longer 2 moved, within same municipality, in last 12 months 3 moved, from different municipality, in last 12 months 9 unknown	
8 13 1	Survey month 1 July 78 2 August 78 3 September 78 4 October 78 5 November 78 6 December 78	

9	14	2	Age group	7	8	9	3,994
			01 0-4	January 79			3,994
			02 5-9	February 79			3,955
			03 10-14	March 79			3,628
			04 15-19				2,208
			05 20-24				2,595
			06 25-29				3,074
			07 30-34				3,440
			08 35-39				2,717
			09 40-44				2,398
			10 45-49				2,285
			11 50-54				1,880
			12 55-59				1,772
			13 60-64				1,784
			14 65-69				1,716
			15 70 +				1,586
							1,303
							1,053
							1,857
10	16	1	Sex				15,655
			1 male				16,013
			2 female				
11	17	1	Relationship to reference person				10,977
			1 reference person - economic family				7,388
			2 spouse				11,749
			3 son or daughter				1,544
			4 other relative				

The weighting factors on this file were derived using population projections based on these age groups (by sex and province). For the publication, The Health of Canadians, fewer age groups were used so some estimates derived from this file may differ from those in the publication. For PMQ data the following combined age groups must be used 25-34, 35-44, 45-54, 55-64, 65+.

INTERVIEWER ADMINISTERED QUESTIONNAIRE DATA (FIELDS 12-160 AND FIELD 7)

12	18	1	Major activity in past two weeks	1 working house 2 keeping house 3 going to school 4 retired 5 baby/child 6 other	11,111 6,002 5,973 1,938 3,177 3,467	Refers to last two full weeks (Sunday to Saturday) preceding interview.
13	19	2	Bed days in past two weeks	00 01-14 99 unknown	29,778 1,887 3	Number of days spent in bed because of health. Zero includes 47 individuals spending partial days in bed and reporting an associated health problem.
14	21	2	Health problem for bed days	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments 09 influenza 10 bronchitis & emphysema 11 asthma 12 hayfever & other allergies 13 dental trouble 14 gastric & duodenal ulcers 15 digestive disorders 16 skin allergies 17 arthritis & rheumatism 18 back, limb & joint disorders 19 trauma 20 other	33 7 46 5 44 22 63 324 678 27 23 8 20 18 62 11 31 77 85 353	Based on ICD-9 codes (International Classification of Diseases, 9th Revision) For list of codes, see Appendix I
15	23	2	Days lost from work, housekeeping or school in past two weeks	00 01 - 14 99 unknown	21,423 1,658 5	Zero includes 68 respondents reporting partial days and an associated health problem.
16	25	2	Number of bed days in above	00 - 14 99 unknown	1,492 171	
17	27	2	Health problems for above	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments	29 9 43 5 27 25 24 297	

09 influenza 551
 10 bronchitis & emphysema 15
 11 asthma 17
 12 hayfever & other allergies 12
 13 dental trouble 21
 14 gastric & duodenal ulcers 17
 15 digestive disorders 52
 16 skin allergies 14
 17 arthritis & rheumatism 32
 18 back, limb & joint disorders 79
 19 trauma 113
 20 other 281

18 29 2 Number of cut-down days in past two weeks (not counted above) 29,851
 00 1,803
 01 - 14 14
 99 unknown

Zero includes 37 respondents reporting partial cut-downs days along with an associated health problem.

19 31 2 Health problems for cut-down

01 mental disorders 51
 02 endocrine diseases 11
 03 headache 71
 04 sight disorders 9
 05 hearing disorders 31
 06 hypertension 33
 07 heart disease 100
 08 acute respiratory ailments 288
 09 influenza 289
 10 bronchitis & emphysema 32
 11 asthma 22
 12 hayfever & other allergies 10
 13 dental trouble 17
 14 gastric & duodenal ulcers 19
 15 digestive disorders 70
 16 skin allergies 15
 17 arthritis & rheumatism 98
 18 back, limb & joint disorders 138
 19 trauma 140
 20 other 410

20 33 2 Disability days in past two weeks 27,877
 00 3,791
 01 - 14

Disability days=(bed-days)
 +(major activity-loss days)
 -(major activity-loss days which are also bed-days)
 +(cut-down days)

21 35 1 Consulted doctor in past two weeks 27,279
 1 no 4,389
 2 yes

22 36 1 Consulted dentist in past two weeks 30,337
 1 no 1,331
 2 yes

23	37	1	Consulted a nurse in past two weeks	1 no 2 yes	31,050 618
24	38	1	Consulted an optometrist or optician in past two weeks	1 no 2 yes	31,178 490
Note that ophthalmologists are included with other medical doctors.					
25	39	1	Consulted any other health professional in past two weeks	1 no 2 yes	30,748 920
26	40	1	Health professional most recently consulted in past two weeks	1 doctor 2 dentist 3 nurse 4 optometrist 5 other	4,222 1,147 324 366 645
27	41	1	Location of visit	1 office (including phone consultation) 2 hospital 3 other 9 unknown	5,182 808 684 30
28	42	2	Health problem	00 no specific problem 01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments 09 influenza 10 bronchitis & emphysema 11 asthma 12 hayfever & other allergies 13 dental trouble 14 gastric & duodenal ulcers 15 digestive disorders 16 skin allergies 17 arthritis & rheumatism 18 back, limb & joint disorders 19 trauma 20 other 99 unknown	2,257 149 61 62 114 147 193 132 327 344 56 41 116 454 37 104 189 104 399 388 999 31
29	44	1	Duration of problem	1 less than two weeks 2 two weeks - 1 month 3 one month - one year 4 more than one year or since birth	1,158 592 905 1,391

30	45	1	Reason for contact	9 unknown	401	
			1 check-up with blood pressure		474	
			2 dental check-up		583	
			3 other medical		452	
			4 other		548	
			9 unknown		231	
31	46	2	Number of visits or calls to doctor in past 12 months	00 01 - 24+ 99 unknown	7,856 23,598 214	Maximum recorded: 95
32	48	1	Time since last talked to doctor	1 one year 2 two years 3 3-5 years 4 more than 5 years 5 never 9 unknown	1,294 3,286 1,721 806 386 471	Maximum reported: 50
33	49	2	Number of visits to dentists	00 01 - 12+ 99 unknown	16,631 14,859 178	Maximum reported: 50
34	51	1	Time since last visited a dentist	1 one year 2 two years 3 3-4 years 4 5 or more years 5 never 9 unknown	1,103 3,839 2,384 5,889 2,826 712	Maximum reported: 70
35	52	2	Number of visits to nurse	00 01 - 12+ 99 unknown	26,941 4,392 335	Maximum recorded: 95
36	54	1	Number of visits to optometrist	0 1 - 6+ 9 unknown	24,692 6,776 200	Maximum reported: 50
37	55	1	Number of visits to all other health professionals	0 1 - 6+ 9 unknown	28,026 3,506 136	Maximum recorded: 95 Unknown if and only if all other health professionals shown as unknown (see FAQ, Health Care Utilization Sect)
38	56	1	Annual visits to a	1 no visits	3,297	

39	57	1	health professional	2 at least one visit 9 unknown	28,186 185	
40	58	2	Number of times as a patient in past twelve months	0 none 1 one 2 two or more 9 unknown	28,141 2,759 2,759 9	Maximum reported: 50
41	60	1	Number of nights spent as a patient	00 01 - 22+ 99 unknown	28,141 3,503 24	Maximum recorded: 95
42	61	1	Number of nights as patient in past two weeks	0 none 1 one or more 9 unknown	3,222 299 6	
43	62	1	Received any immunizations	1 no 2 yes 3 not sure 9 unknown	2,199 28,436 832 201	
44	63	1	Immunized against polio	1 no 2 yes 3 not sure 9 unknown	3,553 23,085 1,798 201	
45	64	1	Within past 5 years	1 no 2 yes 3 not sure 9 unknown	11,797 10,671 574 244	
Immunized against:						
46	65	1	a) diphtheria	1 no 2 yes 3 not sure 9 unknown	2,458 23,414 2,529 236	
47	66	1	b) tetanus	1 no 2 yes 3 not sure 9 unknown	3,206 22,793 2,395 243	
48	67	1	c) red measles	1 no 2 yes 3 not sure 9 unknown	11,086 13,514 3,786 251	
49	68	1	d) rubella	1 no	11,701	

2 yes 12,807
 3 not sure 3,845
 9 unknown 284

49 68 1 Accident in last 12 months 29,041
 2 yes 2,627

50 69 1 Accident in last two weeks 2,388
 2 yes 239

51 70 2 Health problem arising from accident 1
 01 mental disorders 1
 02 endocrine diseases 0
 03 headache 0
 04 sight disorders 1
 05 hearing disorders 1
 06 hypertension 0
 07 heart disease 0
 08 acute respiratory ailments 0
 09 influenza 0
 10 bronchitis & emphysema 0
 11 asthma 0
 12 hayfever & other allergies 0
 13 dental trouble 0
 14 gastric & duodenal ulcers 0
 15 digestive disorders 0
 16 skin allergies 1
 17 arthritis & rheumatism 0
 18 back, limb & joint disorders 6
 19 trauma 225
 20 other 4

72 10 Medicines, pills or ointments used in last two days 1 = no 2 = yes
 52 pain relievers 27,290 4,378
 53 tranquilizers 30,106 1,562
 54 for heart/blood pressure 29,471 2,197
 55 antibiotics 30,785 883
 56 for stomach 30,682 986
 57 laxatives 30,877 791
 58 for cough/cold 29,668 2,000
 59 skin ointments/salves 29,933 1,735
 60 vitamins/minerals 24,778 6,890
 61 other 29,318 2,350
 62 82 1 First drug used 4,363
 2 pain relievers 1,065
 3 tranquilizers 1,383
 4 medicine for heart/blood pressure 574
 5 antibiotics 480
 6 stomach remedies/medicines

63	83	1	Obtained on doctor's advice	<ul style="list-style-type: none"> 6 laxatives 266 7 cough/cold remedies 977 8 skin ointments/salves 950 9 vitamins/minerals 4,222 0 other medication 826
64	84	1	Taken at least once a week over past month	<ul style="list-style-type: none"> 1 no 7,542 2 yes 7,499 3 not sure 8 9 unknown 57
65	85	2	Main health problem	<ul style="list-style-type: none"> 1 no 5,127 2 yes 9,934 3 not sure 22 9 unknown 23
66	87	1	Second drug used	<ul style="list-style-type: none"> 00 no specific problem 4,039 01 mental disorders 730 02 endocrine diseases 170 03 headache 424 04 sight disorders 29 05 hearing disorders 39 06 hypertension 1,010 07 heart disease 395 08 acute respiratory ailments 190 09 influenza 121 10 bronchitis & emphysema 45 11 asthma 66 12 hayfever & other allergies 51 13 dental trouble 36 14 gastric & duodenal ulcers 94 15 digestive disorders 262 16 skin allergies 614 17 arthritis & rheumatism 540 18 back, limb & joint disorders 207 19 trauma 70 20 other 824 99 unknown 23
66	87	1	Second drug used	<ul style="list-style-type: none"> 1 pain relievers 12 2 tranquilizers 496 3 medicine for heart/blood pressure 687 4 antibiotics 241 5 stomach remedies/medicine 346 6 laxatives 281 7 cough/cold remedies 759 8 skin ointments/salves 487 9 vitamins/minerals 1,673 0 other medication 789

67	88	1	Obtained on doctor's advice	1 no	2,124
				2 yes	3,607
				3 not sure	2
				9 unknown	38

68	89	1	Taken at least once a week over past month	1 no	1,454
				2 yes	4,279
				3 not sure	20
				9 unknown	18

69	90	2	Main health problem	00 no specific problem	1,501
				01 mental disorders	343
				02 endocrine diseases	148
				03 headache	22
				04 sight disorders	17
				05 hearing disorders	13
				06 hypertension	467
				07 heart disease	244
				08 acute respiratory ailments	74
				09 influenza	58
				10 bronchitis & emphysema	34
				11 asthma	39
				12 hayfever & other allergies	41
				13 dental trouble	2
				14 gastric & duodenal ulcers	60
				15 digestive disorders	253
				16 skin allergies	303
				17 arthritis & rheumatism	91
				18 back, limb & joint disorders	58
				19 trauma	15
				20 other	516
				99 unknown	18

70	92	1	Third drug used	1 pain relievers	3
				2 tranquilizers	1
				3 medicine for heart/blood pressure	127
				4 antibiotics	58
				5 stomach remedies/medicine	130
				6 laxatives	161
				7 cough/cold remedies	190
				8 skin ointments/salves	212
				9 vitamins/minerals	702
				0 other medication	454
71	93	1	Obtained on doctor's advice	1 no	697
				2 yes	1,319
				3 not sure	1
				9 unknown	21

72 94 1 Taken at least once 381
 a week over past 1,629
 month 9 not sure 19
 9 unknown

73 95 2 Main health problem 617
 00 no specific problem
 01 mental disorders 21
 02 endocrine diseases 101
 03 headache 5
 04 sight disorders 11
 05 hearing disorders 4
 06 hypertension 85
 07 heart disease 68
 08 acute respiratory ailments 31
 09 influenza 20
 10 bronchitis & emphysema 22
 11 asthma 25
 12 hayfever & other allergies 12
 13 dental trouble 1
 14 gastric & duodenal ulcers 32
 15 digestive disorders 150
 16 skin allergies 110
 17 arthritis & rheumatism 51
 18 back, limb & joint disorders 13
 19 trauma 9
 20 other 250
 99 unknown 19

74 97 1 Drug use 16,554
 2 some 15,114

75 98 1 Drug variety 16,554
 0 none 9,357
 1 one 3,729
 2 two 1,409
 3 three 619
 4 four or more

76 99 1 Advice on drug use 6,134
 2 some:advice 8,879
 9 unknown 101

77 100 1 Major activity over 11,794
 past 12 months 6,004
 2 keeping house 8,178
 3 going to school 735
 4 retired or not working, health 2,247
 5 retired or not working, other 2,697
 6 baby or child 13
 9 unknown

Note that this field is not
 the same as field 12

78 101 1 Activity limitation
 1 none 27,855
 2 some 641
 3 major activity limited 2,424
 4 cannot do major activity 735
 9 unknown 13

79 102 1 How long limited
 1 one year or less 819
 2 more than one year or since birth 2,930
 3 not limited 27,855
 9 unknown 64

80 103 2 Cause of limitation
 01 mental disorders 180
 02 endocrine diseases 75
 03 headache 35
 04 sight disorders 93
 05 hearing disorders 47
 06 hypertension 140
 07 heart disease 519
 08 acute respiratory ailments 10
 09 influenza 8
 10 bronchitis & emphysema 89
 11 asthma 125
 12 hayfever & other allergies 45
 13 dental trouble 1
 14 gastric & duodenal ulcers 29
 15 digestive disorders 72
 16 skin allergies 18
 17 arthritis & rheumatism 412
 18 back, limb & joint disorders 725
 19 trauma 273
 20 other 900
 99 unknown 17

81 105 1 Dental work
 0 none 20,221
 1 crown or bridge 1,713
 2 partial dentures or plates 1,833
 3 full upper or full lower plates 3,271
 4 full dentures or plates, 4,610
 9 unknown 20

82 106 1 Eyeglasses or contact lenses
 1 no 16,688
 2 yes 14,823
 9 unknown 157

83 107 20 Chronic health problems
 1 = no 1 = no
 2 = yes 2 = yes
 31,303 365
 30,754 914
 30,478 1,190
 30,091 1,577
 30,316 1,352

Only 93 respondents reported having only full lower plates. Note that 3 takes precedence over 2, and 2 over 1.

Note that this list differs from the list of chronic conditions used in the IAQ. It also con-

88
89
90
91
92
93
94
95
96
97
98
99
100
101
102

hypertension
heart disease
acute respiratory ailments
influenza
bronchitis & emphysema
asthma
hayfever & other allergies
dental trouble
gastric & duodenal ulcers
digestive disorders
skin allergies
arthritis & rheumatism
back, limb & joint disorders
trauma
other

29,507
30,582
31,668
31,668
30,890
30,902
29,062
29,760
30,964
31,614
29,479
28,043
29,246
31,656
30,317

2,161
1,086
0
0
788
766
2,606
1,908
704
54
2,189
3,625
2,422
12
1,351

tains long-term
problems arising
from the Dental,
Hearing, Vision
Section of the IAQ.
A detailed reconcil-
iation of the chro-
nic conditions is
given in Appendix II.
The collapsing of
problems may result
in fewer problems
being shown here
than are probed in
the following sec-
tion, since the
probes themselves
were not combined.

HEALTH PROBLEM PROBES

103	127	2	Problem 1	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments 09 influenza 10 bronchitis & emphysema 11 asthma 12 hayfever & other allergies 13 dental trouble 14 gastric & duodenal ulcers 15 digestive disorders 16 skin allergies 17 arthritis & rheumatism 18 back, limb & joint disorders 19 trauma 20 other	720 366 671 675 672 1,100 536 786 952 270 324 1,323 1,272 277 427 1,544 1,362 1,218 550 2,197	<p>The health problems in these eleven probes are those reported in any of fields 14, 17, 19, 28, 51, 65, 69, 73, 80 or 83-102. This file does not allow in all cases the linking of a particular health problem to the field in which it originated. This linking can be done on a special request basis.</p> <p>A small number of respondents had 12 or more health problems. Only 11 health problem probes are shown here. Health problem probes in excess of 11 were deleted arbitrarily.</p>
104	129	1	Duration of problem	1 less than two weeks 2 two weeks - one month 3 one month - one year 4 more than a year 5 since birth 9 unknown	2,271 777 2,309 10,427 967 491	
105	130	1	Last consultation with health professional	1 within last 12 months 2 more than 1 year or never 9 unknown	11,171 5,827 244	
106	131	1	Main reason for no recent contact	1 not serious enough 2 under control 3 other 9 unknown	2,714 1,757 1,353 247	
107	132	2	Problem 2	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments 09 influenza 10 bronchitis & emphysema 11 asthma	235 286 448 462 407 533 268 112 104 276 218	

12 hayfever & other allergies 770
 13 dental trouble 537
 14 gastric & duodenal ulcers 209
 15 digestive disorders 141
 16 skin allergies 691
 17 arthritis & rheumatism 1,126
 18 back, limb & joint disorders 949
 19 trauma 109
 20 other 805

108 134 1 Duration
 1 less than two weeks 343
 2 two weeks - one month 163
 3 one month - one year 974
 4 more than a year 6,502
 5 since birth 468
 9 unknown 236

109 135 1 Last consultation
 1 within last 12 months 5,238
 2 more than 1 year or never 3,229
 9 unknown 219

110 136 1 Reason for no recent contact
 1 not serious enough 1,289
 2 under control 1,084
 3 other 855
 9 unknown 220

111 137 2 Problem 3
 01 mental disorders 201
 02 endocrine diseases 143
 03 headache 209
 04 sight disorders 252
 05 hearing disorders 213
 06 hypertension 307
 07 heart disease 205
 08 acute respiratory ailments 68
 09 influenza 60
 10 bronchitis & emphysema 108
 11 asthma 103
 12 hayfever & other allergies 260
 13 dental trouble 226
 14 gastric & duodenal ulcers 102
 15 digestive disorders 147
 16 skin allergies 299
 17 arthritis & rheumatism 545
 18 back, limb & joint disorders 432
 19 trauma 70
 20 other 489

112 139 1 Duration
 1 less than two weeks 175
 2 two weeks - one month 102
 3 one month - one year 465
 4 more than a year 3,421

113	140	1	Last consultation	5 since birth 9 unknown	195 81
114	141	1	Reason for no recent contact	1 within last 12 months 2 more than 1 year or never 9 unknown	2,868 1,497 74
115	142	2	Problem 4	1 not serious enough 2 under control 3 other 9 unknown	553 490 448 80
116	144	1	Duration	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments 09 influenza 10 bronchitis & emphysema 11 asthma 12 hayfever & other allergies 13 dental trouble 14 gastric & duodenal ulcers 15 digestive disorders 16 skin allergies 17 arthritis & rheumatism 18 back, limb & joint disorders 19 trauma 20 other	105 76 121 145 114 136 102 17 17 66 65 122 120 52 70 127 299 267 26 248
117	145	1	Last consultation	1 less than two weeks 2 two weeks - one month 3 one month - one year 4 more than a year 5 since birth 9 unknown	45 37 243 1,851 83 36
118	146	1	Reason for no recent contact	1 within last 12 months 2 more than 1 year or never 9 unknown	1,527 1,720 48
119	147	1	Reason for no recent contact	1 not serious enough 2 under control 3 other	253 229 240

119	147	2	Problem 5	9 unknown	46
				01 mental disorders	44
				02 endocrine diseases	46
				03 headache	38
				04 sight disorders	92
				05 hearing disorders	49
				06 hypertension	64
				07 heart disease	40
				08 acute respiratory ailments	5
				09 influenza	3
				10 bronchitis & emphysema	52
				11 asthma	29
				12 hayfever & other allergies	61
				13 dental trouble	76
				14 gastric & duodenal ulcers	33
				15 digestive disorders	41
				16 skin allergies	73
				17 arthritis & rheumatism	146
				18 back, limb & joint disorders	128
				19 trauma	8
				20 other	137
120	149	1	Duration	1 less than two weeks	15
				2 two weeks - one month	15
				3 one month - one year	98
				4 more than a year	987
				5 since birth	39
				9 unknown	11
121	150	1	Last consultation	1 within last 12 months	793
				2 more than 1 year or never	356
				9 unknown	16
122	151	1	Reason for no recent contact	1 not serious enough	117
				2 under control	107
				3 other	134
				9 unknown	14
123	152	2	Problem 6	01 mental disorders	35
				02 endocrine diseases	15
				03 headache	19
				04 sight disorders	53
				05 hearing disorders	41
				06 hypertension	33
				07 heart disease	17
				08 acute respiratory ailments	1
				09 influenza	2
				10 bronchitis & emphysema	14
				11 asthma	8
				12 hayfever & other allergies	38

13 dental trouble 44
 14 gastric & duodenal ulcers 15
 15 digestive disorders 20
 16 skin allergies 34
 17 arthritis & rheumatism 73
 18 back, limb & joint disorders 66
 19 trauma 3
 20 other 67

124 154 1 Duration 5
 2 less than two weeks 5
 3 two weeks - one month 49
 4 one month - one year 513
 5 more than a year 19
 9 since birth 7
 9 unknown

125 155 1 Last consultation 376
 2 within last 12 months 213
 9 more than 1 year or never 9
 9 unknown

126 156 1 Reason for no recent contact 62
 2 not serious enough 63
 3 under control 86
 9 other 11
 9 unknown

127 157 2 Problem 7
 01 mental disorders 21
 02 endocrine diseases 10
 03 headache 6
 04 sight disorders 31
 05 hearing disorders 14
 06 hypertension 15
 07 heart disease 5
 08 acute respiratory ailments 2
 09 influenza 0
 10 bronchitis & emphysema 6
 11 asthma 7
 12 hayfever & other allergies 20
 13 dental trouble 23
 14 gastric & duodenal ulcers 7
 15 digestive disorders 19
 16 skin allergies 18
 17 arthritis & rheumatism 21
 18 back, limb & joint disorders 33
 19 trauma 2
 20 other 36

128 159 1 Duration 0
 1 less than two weeks 0
 2 two weeks - one month 22
 3 one month - one year 268
 4 more than a year 5
 5 since birth 1
 9 unknown

129	160	1	Last consultation	1 within last 12 months 2 more than 1 year or never 9 unknown	201 95 0
130	161	1	Reason for no recent contact	1 not serious enough 3 under control 3 other 9 unknown	28 21 43 3
131	162	2	Problem 8	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders 06 hypertension 07 heart disease 08 acute respiratory ailments 09 influenza 10 bronchitis & emphysema 11 asthma 12 hayfever & other allergies 13 dental trouble 14 gastric & duodenal ulcers 15 digestive disorders 16 skin allergies 17 arthritis & rheumatism 18 back, limb & joint disorders 19 trauma 20 other	6 6 2 9 10 6 7 0 0 4 2 7 14 6 7 5 14 12 0 20
132	164	1	Duration	1 less than two weeks 2 two weeks - one month 3 one month - one year 4 more than a year 5 since birth 9 unknown	0 0 14 121 2 0
133	165	1	Last consultation	1 within last 12 months 2 more than 1 year or never 9 unknown	90 47 0
134	166	1	Reason for no recent contact	1 not serious enough 2 under control 3 other 9 unknown	15 14 18 0
135	167	2	Problem 9	01 mental disorders 02 endocrine diseases 03 headache 04 sight disorders 05 hearing disorders	8 3 1 8 2

06 hypertension 1
 07 heart disease 1
 08 acute respiratory ailments 0
 09 influenza 1
 10 bronchitis & emphysema 1
 11 asthma 2
 12 hayfever & other allergies 3
 13 dental trouble 6
 14 gastric & duodenal ulcers 0
 15 digestive disorders 4
 16 skin allergies 4
 17 arthritis & rheumatism 9
 18 back, limb & joint disorders 10
 19 trauma 1
 20 other 9

136 169 1 Duration

1 less than two weeks 1
 2 two weeks - one month 0
 3 one month - one year 13
 4 more than a year 56
 5 since birth 3
 9 unknown 1

137 170 1 Last consultation

1 within last 12 months 56
 2 more than 1 year or never 18
 9 unknown 0

138 171 1 Reason for no recent contact

1 not serious enough 3
 2 under control 5
 3 other 10
 9 unknown 0

139 172 2 Problem 10

01 mental disorders 4
 02 endocrine diseases 1
 03 headache 1
 04 sight disorders 3
 05 hearing disorders 1
 06 hypertension 1
 07 heart disease 2
 08 acute respiratory ailments 0
 09 influenza 0
 10 bronchitis & emphysema 1
 11 asthma 1
 12 hayfever & other allergies 0
 13 dental trouble 0
 14 gastric & duodenal ulcers 1
 15 digestive disorders 0
 16 skin allergies 2
 17 arthritis & rheumatism 2
 18 back, limb & joint disorders 3
 19 trauma 4
 20 other 0

140 174 1 Duration
 1 less than two weeks 0
 2 two weeks - one month 0
 3 one month - one year 6
 4 more than a year 23
 5 since birth 2
 9 unknown 0

141 175 1 Last consultation
 1 within last 12 months 23
 2 more than 1 year or never 7
 9 unknown 1

142 176 1 Reason for no recent contact
 1 not serious enough 3
 2 under control 2
 3 other 2
 9 unknown 1

143 177 2 Problem 11
 01 mental disorders 1
 02 endocrine diseases 0
 03 headache 0
 04 sight disorders 1
 05 hearing disorders 1
 06 hypertension 2
 07 heart disease 0
 08 acute respiratory ailments 0
 09 influenza 1
 10 bronchitis & emphysema 2
 11 asthma 0
 12 hayfever & other allergies 0
 13 dental trouble 2
 14 gastric & duodenal ulcers 2
 15 digestive disorders 0
 16 skin allergies 3
 17 arthritis & rheumatism 1
 18 back, limb & joint disorders 2
 19 trauma 0
 20 other 0

144 179 1 Duration
 1 less than two weeks 0
 2 two weeks - one month 0
 3 one month - one year 4
 4 more than a year 13
 5 since birth 0
 9 unknown 0

145 180 1 Last consultation
 1 within last 12 months 15

146	181	1	Reason for no recent contact	2 more than 1 year or never unknown	2 0
				1 not serious enough	0
				2 under control	1
				3 other	1
				9 unknown	0
147	182	2	Number of health problems		
				00	14,426
				01	8,556
				02	4,247
				03	2,144
				04	1,130
				05	567
				06	302
				07	159
				08	63
				09	43
				10	14
				11+	17

DEMOGRAPHIC DATA

148	184	1	Birthplace	<ul style="list-style-type: none"> 1 Atlantic provinces 2 Quebec 3 Ontario 4 Prairie provinces 5 B.C. (includes Territories) 6 Outside Canada 9 unknown 	<ul style="list-style-type: none"> 7,451 6,447 5,246 6,649 1,885 3,800 190 	
149	185	1	Language first learned and used in childhood	<ul style="list-style-type: none"> 1 English only 2 French only 3 other only 4 more than one 9 unknown 	<ul style="list-style-type: none"> 20,136 6,619 2,874 1,780 259 	
150	186	1	Marital status	<ul style="list-style-type: none"> 1 single (never married) 2 married (includes common law) 3 widowed 4 separated/divorced 9 unknown 	<ul style="list-style-type: none"> 14,105 15,111 1,408 937 107 	<p>Marital status information was collected from both the IAQ and LHQ. This variable is a combination of the two. It has the advantage of fewer unknowns but loses the distinction between separated and divorced since this was not asked on the IAQ.</p>
151	187	1	Education	<ul style="list-style-type: none"> 0 baby/child 1 1-8 years 2 secondary (some or completed) 3 some post-secondary 4 post-secondary certificate or diploma 5 university degree 9 unknown 	<ul style="list-style-type: none"> 3,177 4,270 18,461 1,867 2,025 1,611 257 	
152	188	1	Labour Force status	<ul style="list-style-type: none"> 1 employed 2 unemployed 3 not in labour force 9 unknown 	<ul style="list-style-type: none"> 12,550 1,803 9,145 8,170 	<p>Because the questions used (especially on job search) are quite different from those in the Labour Force Survey, any results from this variable cannot be directly compared to the LFS. The unknown category includes all persons</p>

under 15 who are not employed.
 Derived from 1970 Standard
 Industrial Classification
 See Appendix III for further
 details.

153	189	2	Industry (current job or longest job in past 5 years)	01 agriculture 02 other primary industries 03 non-durable manufacturing 04 durable manufacturing 05 construction 06 transportation, communication & other utilities 07 wholesale trade 08 retail trade 09 finance, insurance & real estate 10 community services 11 personal services 12 business & miscellaneous services 13 public administration 99 unknown	927 774 1,729 1,349 1,040 1,555 647 2,316 854 2,930 1,438 697 1,288 541
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154	191	2	Occupation (current job or longest job in past 5 years)	01 managerial, administrative 02 professional 03 teaching 04 medicine/health 05 clerical 06 sales 07 services 08 primary occupations 09 mining, processing, machining 10 fabricating, assembling and repairing 11 construction 12 transportation, materials handling & other crafts 99 unknown	919 897 899 900 3,005 1,848 2,443 1,296 1,292 1,479 1,245 1,322 540
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Derived from 1970 Occupational
 Classification Manual (based
 on the Canadian Classification
 and Dictionary of Occupa-
 tions).
 See Appendix IV for further
 details.

155	193	2	Usual hours of work	10 - 50+ 99 unknown	12,128 719
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Minimum reported 1 hour,
 maximum 80 hours.

156	195	5	Individual income from wages, salaries and self-employment	00000 - 30,000+ 99999 unknown	19,543 4,248
-----	-----	---	--	----------------------------------	-----------------

Note that all three income
 fields have been rounded to
 the nearest 500 dollars

157	200	5	Individual income from all sources	00000 - 30,000+ 99999 unknown	19,543 4,248
-----	-----	---	---------------------------------------	----------------------------------	-----------------

If wages and salaries were
 known, but other sources were
 unknown, then total income was
 made equal to wages and
 salaries. But if wages and
 salaries were unknown, then
 total income was made unknown
 regardless of other sources.

158	205	5	Economic family Income	00000 - 35,000+ 99999 unknown	29,692 1,976
159	210	1	Income Quintile	1 lowest 2 3 4 highest 5 highest 9 unknown	6,061 6,085 5,936 5,755 5,855 1,976
160	211	1	Principal Income Earner	1 principal income earner of economic family 2 not a principal income earner of an economic family	10,977 20,691

Derived from incomes which were adjusted to reflect the size of the family and of the municipality of residence. Weighted distributions were used to derive the quintiles

LIFESTYLE AND YOUR HEALTH QUESTIONNAIRE (FIELDS 161-308)

This questionnaire was restricted to persons 15 and over and was self-completed.

161	212	1	Language of LHQ	1 English 2 French	19,013 4,778
Feelings (Bradburn Scale)					
162	213	1	A. on top of the world	1 often 2 sometimes 3 never 9 unknown	3,867 12,014 3,309 4,601
163	214	1	B. very lonely	1 often 2 sometimes 3 never 9 unknown	1,150 7,623 10,204 4,814
164	215	1	C. particularly excited	1 often 2 sometimes 3 never 9 unknown	6,306 11,503 1,243 4,739
165	216	1	D. depressed	1 often 2 sometimes 3 never 9 unknown	1,292 9,596 7,996 4,907
166	217	1	E. pleased	1 often 2 sometimes 3 never 9 unknown	7,499 11,052 783 4,457
167	218	1	F. bored	1 often 2 sometimes 3 never 9 unknown	1,927 10,343 6,810 4,711
168	219	1	G. proud	1 often 2 sometimes 3 never 9 unknown	3,837 13,203 1,870 4,881
169	220	1	H. restless	1 often 2 sometimes 3 never 9 unknown	2,416 7,715 8,825 4,835
170	221	1	I. felt things going your way	1 often 2 sometimes	4,447 12,772

Bradburn's measure of psychological well-being is based on the premise that valid indicators of emotional states are obtained by asking individuals directly about subjective feelings states - both pleasurable and unpleasurable experiences that they might have had in the recent past. Data analysis from his studies led to a 10-item measure of psychological well-being conceptualized as being a resultant of two almost completely unrelated dimensions of affect, labelled positive and negative. To reflect the theory that well-being is the resultant of positive and negative affect (which may vary independently of each other), An overall score is normally expressed as the difference between the positive affect scale and negative affect scale. This is known as the Affect Balance Score.

Time reference periods and response options have varied in studies subsequent to Bradburn's. The Canada Health Survey used the following introduction. "Here is a list that describes some of the ways people feel at different times. During the past few weeks, how often have you felt..". The response options were "often", "sometimes" and

171	222	1	J. upset	3 never 9 unknown	1,602 4,970	"never".
172	223	1	Overall feelings	1 often 2 sometimes 3 never 9 unknown	1,042 10,182 7,752 4,815	
173	224	2	Positive affect score	1 very happy 2 pretty happy 3 not too happy 9 unknown	4,133 13,141 1,911 4,606	
174	226	2	Negative affect score	05 - 15 99 unknown	18,892 4,899	Derived from Bradburn items A, C, E, G, I
175	228	1	Affect balance	05 - 15 99 unknown	18,881 4,910	Derived from Bradburn items B, D, F, H, J
				1 positive 2 balanced (neutral) 3 negative 9 unknown	9,243 8,569 877 5,102	Positive and negative affect scale scores are reported if at least 4 out of the 5 items are known. (The unknown score is imputed as the average of the known scores).

Health (Health Opinion Survey)

176	229	1	A. heart beating hard	1 often 2 sometimes 3 never 9 unknown	450 4,570 9,229 2,558	The Health Opinion Survey (HOS) was developed by Allister MacMillan as a psy- chological screening test to estimate the prevalence of psychoneurotic related types of disorder in communities. This scale can be contrasted with the Bradburn scale in that it does not measure opin- ion but the frequency of occurrence of psycho-physiolo- gical symptoms of anxiety and depression. A single score for the 16 questions is derived
177	230	1	B. upset stomach	1 often 2 sometimes 3 never 9 unknown	1,101 7,626 5,559 2,521	
178	231	1	C. trembling hands	1 often 2 sometimes 3 never 9 unknown	339 1,824 12,020 2,624	
179	232	1	D. sweaty hands or feet	1 often 2 sometimes 3 never 9 unknown	756 3,786 9,658 2,607	from the responses which are weighted to reflect frequency ("1" for often, "2" for some- times, "3" for never), and ranges from 16 (all symptoms experienced often) to 48 (all symptoms never experienced).

180	233	1	E. shortness of breath	1 often 2 sometimes 3 never 9 unknown	613 3,211 10,397 2,586	If at least 13 of 16 component scores are known the unknown scores are imputed as the average for the known scores. The HOS composite score is made unknown if less than 13 component scores are known.
181	234	1	F. dizziness	1 often 2 sometimes 3 never 9 unknown	434 5,120 8,707 2,546	The HOS was added only after the survey began and therefore those answering it were a subset of those who responded to the self-administered questionnaire (15 years of age and older). To compensate for this use the HOS weight in any tabulations involving these items.
182	235	1	G. weakness	1 often 2 sometimes 3 never 9 unknown	431 3,347 10,344 2,685	
183	236	1	H. feel healthy	1 often 2 sometimes 3 never 9 unknown	9,791 3,262 1,158 2,596	Reverse scoring was used for question H.
184	237	1	I. bothered by ailments	1 often 2 sometimes 3 never 9 unknown	606 4,320 9,204 2,677	
185	238	1	J. loss of appetite	1 often 2 sometimes 3 never 9 unknown	568 4,955 8,658 2,626	
186	239	1	K. trouble sleeping	1 often 2 sometimes 3 never 9 unknown	1,657 6,166 6,488 2,496	
187	240	1	L. ill health affected work	1 often 2 sometimes 3 never 9 unknown	945 3,149 10,107 2,606	
188	241	1	M. feel like nervous breakdown	1 often 2 sometimes 3 never 9 unknown	433 2,925 10,778 2,671	
189	242	1	N. nightmares	1 often 2 sometimes 3 never	408 3,875 9,907	

190	243	1	0.	lose weight when nervous	9	unknown	2,617
					1	often	550
					2	sometimes	2,839
					3	never	10,772
					9	unknown	2,646
191	244	1	P.	feeling tired in morning	1	often	2,409
					2	sometimes	8,077
					3	never	3,829
					9	unknown	2,492
192	245	2	Health	opinion score	16 - 48		14,160
					99	unknown	2,647

MEDICAL HISTORY

193	247	1	Heart trouble	1 yes 2 no 3 not sure 9 unknown	1,336 17,576 790 4,089
194	248	1	High blood pressure	1 yes 2 no 3 not sure 9 unknown	3,017 15,874 974 3,926
195	249	1	A Stroke	1 yes 2 no 3 not sure 9 unknown	233 18,932 188 4,438
196	250	1	Diabetes	1 yes 2 no 3 not sure 9 unknown	512 18,658 276 4,345
197	251	1	Cancer	1 yes 2 no 3 not sure 9 unknown	402 18,761 246 4,382

WOMEN ONLY

198	252	1	Last Pap smear	<ul style="list-style-type: none"> 1 Less than 12 months ago 2 1-2 years ago 3 more than 2 years ago 4 never 5 not sure 9 unknown 	<ul style="list-style-type: none"> 4,461 1,926 1,633 2,355 336 1,430
199	253	1	Last breast examination by doctor or nurse	<ul style="list-style-type: none"> 1 Less than 12 months ago 2 1-2 years ago 3 more than 2 years ago 4 never 5 not sure 9 unknown 	<ul style="list-style-type: none"> 4,438 1,939 1,524 2,602 247 1,391
200	254	1	Frequency of breast self-examination	<ul style="list-style-type: none"> 1 once a month 2 once every 2-3 months 3 less often 4 never 5 don't know how 9 unknown 	<ul style="list-style-type: none"> 2,367 2,329 1,939 3,342 712 1,452
201	255	1	Taking birth control pills or hormone pills	<ul style="list-style-type: none"> 1 yes 2 no (neither) 9 unknown 	<ul style="list-style-type: none"> 1,969 8,710 1,462

FAMILY HISTORY

Did father have:

202 256 1 Heart trouble 1 yes 4,358
 2 no 12,911
 3 not sure 1,813
 9 unknown 4,709

203 257 1 High blood pressure 1 yes 3,272
 2 no 11,968
 3 not sure 3,301
 9 unknown 5,250

204 258 1 Stroke 1 yes 1,718
 2 no 15,217
 3 not sure 1,399
 9 unknown 5,457

205 259 1 Diabetes 1 yes 1,065
 2 no 15,873
 3 not sure 1,227
 9 unknown 5,626

206 260 1 Cancer 1 yes 2,098
 2 no 15,184
 3 not sure 1,242
 9 unknown 5,267

207 261 1 Father's status 1 living 10,700
 2 dead, heart trouble 2,465
 3 dead, stroke 1,037
 4 dead, cancer 1,617
 5 dead, other causes 2,613
 6 dead, cause unknown 2,036
 9 unknown 3,323

208 262 2 Father's age at death 26 - 98+ 8,685
 99 unknown 4,406

Youngest age reported was 17

Did mother have:

209 264 1 Heart trouble 1 yes 3,413
 2 no 13,833
 3 not sure 1,454
 9 unknown 5,091

210 265 1 High blood pressure 1 yes 5,890
 2 no 10,556
 3 not sure 2,335
 9 unknown 5,010

211	266	1	Stroke	1 yes 2 no 3 not sure 9 unknown	1,553 15,520 1,041 5,677
212	267	1	Diabetes	1 yes 2 no 3 not sure 9 unknown	1,490 15,560 976 5,765
213	268	1	Cancer	1 yes 2 no 3 not sure 9 unknown	2,052 15,210 989 5,540
214	269	1	Mother's status	1 living 2 dead, heart trouble 3 dead, stroke 4 dead, cancer 5 dead, other causes 6 dead, cause unknown 9 unknown	13,395 1,341 920 1,326 1,859 1,636 3,314
215	270	2	Mother's age at death	26 - 98+ 99 unknown	6,280 4,116

Youngest age reported was 18.

226	282	1		time per occasion	9 unknown	4,929
		1		1-15 minutes		20
		2		16-30 minutes		42
		3		31-60 minutes		156
		4		61+		859
		9		unknown		4,972
227	283	1	Vigorous dancing			14,963
		1		1-8+		3,899
		9		unknown		4,929
228	284	1		time per occasion		427
		1		1-15 minutes		640
		2		16-30 minutes		699
		3		31-60 minutes		1,973
		4		61+		5,089
		9		unknown		
229	285	1	Skating			17,700
		1		1-8+		1,162
		9		unknown		4,929
230	286	1		time per occasion		41
		1		1-15 minutes		151
		2		16-30 minutes		363
		3		31-60 minutes		559
		4		61+		4,977
		9		unknown		
231	287	1	Skiing			17,961
		1		1-8+		901
		9		unknown		4,929
232	288	1		time per occasion		19
		1		1-15 minutes		74
		2		16-30 minutes		157
		3		31-60 minutes		625
		4		61+		4,955
		9		unknown		
233	289	1	Curling			18,390
		1		1-8+		472
		9		unknown		4,929
234	290	1		time per occasion		5
		1		1-15 minutes		14
		2		16-30 minutes		28
		3		31-60 minutes		409
		4		61+		4,945
		9		unknown		
235	291	1	Racquet sports			17,685
		1		1-8+		1,177
		9		unknown		4,929

236	292	1	time per occasion	1	1-15 minutes	51
				2	16-30 minutes	207
				3	31-60 minutes	439
				4	61+	445
				9	unknown	4,964
237	293	1	Baseball	0		18,366
				1 -	8+	496
				9	unknown	4,929
238	294	1	time per occasion	1	1-15 minutes	26
				2	16-30 minutes	80
				3	31-60 minutes	88
				4	61+	283
				9	unknown	4,948
239	295	1	Other team sport	0		17,372
				1 -	8+	1,490
				9	unknown	4,929
240	296	1	time per occasion	1	1-15 minutes	46
				2	16-30 minutes	186
				3	31-60 minutes	436
				4	61+	765
				9	unknown	4,986
241	297	1	Golf	0		18,325
				1 -	8+	537
				9	unknown	4,929
242	298	1	time per occasion	1	1-15 minutes	7
				2	16-30 minutes	15
				3	31-60 minutes	33
				4	61+	457
				9	unknown	4,954
243	299	1	Swimming	0		16,912
				1 -	8+	1,950
				9	unknown	4,929
244	300	1	time per occasion	1	1-15 minutes	281
				2	16-30 minutes	585
				3	31-60 minutes	552
				4	61+	453
				9	unknown	5,008
245	301	1	Other activities	0		17,618
				1 -	8+	1,244
				9	unknown	4,929
246	302		time per occasion	1	1-15 minutes	162
				2	16-30 minutes	161

231
690
4,929

3 31-60 minutes
4 61+
9 unknown

247 303 1 Number of activities

0 none
1 one
2 two
3 three
4 four or more
9 unknown

5,128
5,564
3,391
2,030
2,749
4,929

Chores

248 304 1 Mowing grass: no. of times in last two weeks

0
1 - 8+
9 unknown

16,382
2,131
5,278

249 305 1 time per occasion

1 1-15 minutes
2 16-30 minutes
3 31-60 minutes
4 61 +
9 unknown

187
573
659
641
5,349

250 306 1 Shoveling snow

0
1 - 8+
9 unknown

15,110
3,403
5,278

251 307 1 time per occasion

1 1-15 minutes
2 16-30 minutes
3 31-60 minutes
4 61+
9 unknown

976
1,301
594
381
5,429

252 308 1 Cleaning floors

0
1 - 8+
9 unknown

10,207
8,306
5,278

253 309 1 time per occasion

1 1-15 minutes
2 16-30 minutes
3 31-60 minutes
4 61+
9 unknown

1,861
3,246
1,657
1,125
5,695

254 310 1 Raking leaves

0
1 - 8+
9 unknown

17,429
1,084
5,278

255 311 1 time per occasion

1 1-15 minutes
2 16-30 minutes
3 31-60 minutes
4 61+

183
358
246
235

256	312	1	Gardening	9	unknown	5,340
		0		0		15,841
		1		1	8+	2,672
		9		9	unknown	5,278
257	313	1	time per occasion	1	1-15 minutes	341
		2		2	16-30 minutes	711
		3		3	31-60 minutes	638
		4		4	61+	844
		9		9	unknown	5,416
258	314	1	Making beds	0		7,495
		1		1	8+	11,018
		9		9	unknown	5,278
259	315	1	time per occasion	1	1-15 minutes	8,430
		2		2	16-30 minutes	1,365
		3		3	31-60 minutes	347
		4		4	61+	342
		9		9	unknown	5,812
260	316	1	Carpentry	0		16,098
		1		1	8+	2,415
		9		9	unknown	5,278
261	317	1	time per occasion	1	1-15 minutes	213
		2		2	16-30 minutes	348
		3		3	31-60 minutes	413
		4		4	61+	1,347
		9		9	unknown	5,372
262	318	1	Handyman work	0		14,636
		1		1	8+	3,877
		9		9	unknown	5,278
263	319	1	time per occasion	1	1-15 minutes	276
		2		2	16-30 minutes	645
		3		3	31-60 minutes	790
		4		4	61+	2,041
		9		9	unknown	5,403
264	320	1	Ironing	0		11,442
		1		1	8+	7,071
		9		9	unknown	5,278
265	321	1	time per occasion	1	1-15 minutes	1,700
		2		2	16-30 minutes	2,421
		3		3	31-60 minutes	1,550
		4		4	61+	967
		9		9	unknown	5,711

266	322	1	Other chores	0	16,259
				1 - 8+	2,254
				9 unknown	5,278
267	323	1	time per occasion	1 1-15 minutes	234
				2 16-30 minutes	440
				3 31-60 minutes	427
				4 61+	1,036
				9 unknown	5,395
268	324	1	Number of chores	0 none	2,572
				1 one	3,027
				2 two	3,923
				3 three	4,839
				4 four or more	4,152
				9 unknown	5,278
269	325	1	Overall activity level at major activity	1 usually sit	4,524
				2 stand or walk a lot	9,725
				3 lift or carry light loads	3,863
				4 heavy work	1,975
				9 unknown	3,704
270	326	1	Level of physical activity	1 sedentary	3,486
				2 moderately inactive	3,718
				3 moderate	3,378
				4 moderately active	3,666
				5 very active	3,545
				9 unknown	5,998
271	327	4	Physical Activity Index	0000 - 9995 +	17,793
				9999 unknown	5,998
ALCOHOL USE					
272	331	1	How often take at least one drink	0 two or more times per day	679
				1 once a day	955
				2 4-6 times per week	1,118
				3 2-3 times per week	2,745
				4 once a week	2,841
				5 2-3 times a month	2,231
				6 about once a month	1,842
				7 less than once a month	3,172
				8 not at all in past year	3,934
				9 unknown	4,274
273	332	1	Experience with alcohol (non-current drinkers)	1 drink occasionally	3,128
				2 never drank	2,715
				3 used to drink	863
				9 unknown	4,046

Based on the physical activities index (see next variable) derived from the reported activities and chores. For the methodology refer to The Health of Canadians (pp. 71-74).

274 333 2

Age started drinking

13 - 25+
99 unknown

11,941
4,744

Youngest age reported was 10,
oldest age reported was 85.

DRINKING OVER PREVIOUS 7 DAYS

275	335	1	one day ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	6,567 2,298 2,186 1,090 4,544
276	336	1	two days ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	6,757 2,061 2,027 1,100 4,740
277	337	1	three days ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	6,773 1,915 1,944 1,231 4,822
278	338	1	four days ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	7,045 1,805 1,838 1,124 4,873
279	339	1	five days ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	7,429 1,778 1,711 890 4,877
280	340	1	six days ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	7,600 1,748 1,651 795 4,891
281	341	1	seven days ago	1 no drinks 2 one drink 3 2 or 3 drinks 4 4 or more drinks 9 unknown	7,400 1,825 1,808 802 4,850
282	342	2	Weekly consumption of alcohol	00 01 - 14+ drinks 99 unknown	1,731 10,002 4,952
283	344	1	Change in drinking habits over past year	1 drinking more 2 drinking less 3 no change	809 2,619 8,522

284 345 1 Usual drink
 9 unknown 4,735
 1 beer 3,999
 2 wine 1,544
 3 liquor or mixed drinks 3,268
 4 various 3,324
 9 unknown 4,550

285 346 1 Drinking related problems over last 12 months
 0 none 10,982
 1 one 992
 2 two or more 309
 9 unknown 4,402

286 347 1 Type of drinker
 1 present drinker 13,039
 2 occasional drinker 3,128
 3 former drinker 863
 4 never drank 2,715
 9 unknown 4,046

Smoking

Type of smoker:

287 348 1 A. pipes, cigars, etc.
 1 yes 1,497
 2 no 15,835
 9 unknown 6,459

288 349 1 B. cigarettes
 1 current 7,899
 2 occasional 627
 3 former regular 2,984
 4 former occasional 1,615
 5 never 6,323
 9 unknown 4,343

289 350 2 Age started smoking cigarettes daily (current & former)
 13 - 25+ 10,513
 99 unknown 4,713
 Youngest age recorded 05,
 oldest age recorded 74.

290 352 2 Number of cigarettes smoked per day (current & former)
 01 - 40+ 10,533
 99 unknown 4,693
 Maximum recorded 99.

291 354 1 Depth of inhalation
 1 only into mouth 861
 2 into throat 1,283
 3 partly into chest 3,332
 4 deeply into chest 3,175
 5 not sure 1,964
 9 unknown 4,611

292 355 1 Tried to stop during last 12 months
 1 yes 3,052
 2 no 4,688

293	356	1	(current only)	9	unknown	4,107
			Reduction attempts	1	clear attempt to reduce	2,530
				2	mixed attempts to reduce	1,782
				3	no attempt to reduce	3,359
				9	unknown	4,176
294	357	2	Duration of smoking (current or former)	00	- 50+ years	10,513
				99	unknown	4,713
295	359	3	Potential daily tar intake (XXX milligrams)	002	- 600+	7,532
				999	unknown	4,315
296	362	3	Brand tar (XX.X mg/cigarette)	012	- 197	10,379
				999	unknown	4,847
297	365	3	Brand nicotine (X.XX mg/cigarette)	009	- 160	10,379
				999	unknown	4,847
298	368	3	Brand carbon monoxide (XX.X mg/cigarette)	017	- 391	9,675
				999	unknown	5,551

Note that 00 means less than one year. Maximum derived was 75.

Maximum calculated was 1560.

MOTOR VEHICLE USAGE

299	371	3	Automobile passenger kilometers in previous 2 weeks	001 - 950+ 999 unknown	12,788 4,883	Maximum reported was 9654.
300	374	1	Automobile passenger seatbelt use in previous 2 weeks	1 always or most of time 2 rarely or never 9 unknown	5,896 6,446 5,329	
301	375	3	Automobile driver kilometers in previous 2 weeks	001 - 950+ 999 unknown	11,664 4,670	Maximum reported was 9654.
302	378	1	Automobile driver seatbelt use previous two weeks	1 always or most of time 2 rarely or never 9 unknown	5,902 5,330 5,102	
303	379	5	Annual automobile passenger kilometers	00031 - 25000+ 99999 unknown	12,788 4,883	
304	384	5	Annual automobile driver kilometers	00022 - 30000+ 99999 unknown	11,664 4,670	
305	389	1	Seatbelt law	1 belts mandatory 2 belts not mandatory 9 unknown	11,967 8,227 3,597	Based on province of residence, not supplied by respondent.

MISCELLANEOUS LHQ ITEMS

306	390	1	Language used all, or most, of the time	1 English 2 French 3 other 9 unknown	15,530 4,230 669 3,362	
307	391	1	Importance of religion	1 very important 2 fairly important 3 of little importance 4 of no importance 9 unknown	6,310 7,751 4,687 1,557 3,486	
308	392	1	Life events over past 12 months	0 none 1 one 2 two 3 three 4 four 5 five or more 9 unknown	9,320 5,777 2,761 1,260 545 344 3,784	

PHYSICAL MEASURES QUESTIONNAIRE DATA (FIELDS 309-329)

PAR-Q QUESTIONS (PHYSICAL ACTIVITIES READINESS)

309	393	1	A. Heart trouble diagnosed by doctor	1 yes 2 no 9 unknown	210 3,830 1,725
310	394	1	B. Pains in heart and chest	1 yes 2 no 9 unknown	276 3,758 1,731
311	395	1	C. Spells of faintness or dizziness	1 yes 2 no 9 unknown	341 3,699 1,725
312	396	1	D. High blood pressure diagnosed by doctor	1 yes 2 no 9 unknown	558 3,477 1,730
313	397	1	E. Bone or joint problems diagnosed by doctor	1 yes 2 no 9 unknown	408 3,629 1,728
314	398	1	F. Physical reason for not exercising	1 yes 2 no 9 unknown	445 3,596 1,724
315	399	4	Height (XXX.X centimeters)	0620 - 1850 9999 unknown	6,097 2,389
316	403	4	Weight (XXX.X kilograms)	0102 - 1040 9999 unknown	6,099 2,387
317	407	3	Upper arm length (left arm) (XX.X centimeters)	131 - 470 999 unknown	5,785 2,332
318	410	3	Arm mid-point (left arm) (XX.X centimeters)	068 - 235 999 unknown	5,786 2,331
319	413	3	Arm girth (left arm) (XX.X centimeters)	080 - 510 999 unknown	5,784 2,333

The 3rd and 97th height and weight percentiles of males and females 20 and older were used as guides to group extreme values. Those under 20 were restricted only as to maximum values.

height m. min. max.
f. 159.0 185.0
147.0 171.0

weight m. min. max.
f. 055.0 104.0
045.0 092.0

Approximately 99% of arm measurements were done on the left arm.

320	416	3	First skinfold measure (XX.X millimeters)	010 - 510 999 unknown	5,737 2,380
321	419	3	Second skinfold measure (xx.x millimeters)	012 - 512 999 unknown	5,724 2,393
322	422	3	Blood pressure, first phase (XXX millimeters of mercury)	070 - 260 999 unknown	5,802 2,315
323	425	3	Blood pressure, fourth phase	040 - 198 999 unknown	4,733 3,384
324	428	3	Blood pressure, fifth phase	030 - 130 999 unknown	5,760 2,357
325	431	1	Hypertension	1 normotension 2 borderline hypertension 3 definite hypertension 9 unknown	4,552 755 486 2,324
326	432	2	Fitness test: pulse after first three minutes (beats/10 seconds)	10 - 35 98 screened out 99 unknown	2,575 1,382 1,808
327	434	2	Fitness test: pulse after second three minutes	13 - 40 97 failed to continue 98 screened out 99 unknown	2,406 174 1,382 1,803
328	436	1	Fitness level	1 recommended 2 minimum acceptable 3 below acceptable 4 screened out, Par-Q 5 screened out, other 9 unknown	1,507 897 64 1,134 248 1,915
329	437	3	Maximum rate of oxygen consumption (XX.X ml/kg. min)	143 - 597 998 screened out 999 unknown	2,464 1,382 1,919

BLOOD DATA (FIELDS-330-347)

330	440	1	Anything to eat or drink within two hours prior giving blood sample	1 Yes 2 no					767 4,052
331	441	1	Polio 1 antibody level (reciprocal of titre level)	1 10 or less 2 20 3 40 4 80 5 160 or more 9 unknown					437 408 459 713 1,011 2,380
332	442	1	Polio 2 antibody level	1 10 or less 2 20 3 40 4 80 5 160 or more 9 unknown					302 484 429 759 1,054 2,380
333	443	1	Polio 3 antibody level	1 10 or less 2 20 3 40 4 80 5 160 or more 9 unknown					585 501 474 616 849 2,383
334	444	1	Measles antibody level (reciprocal of titre level)	1 less than 8 2 8 3 16 4 32 or more 9 unknown					289 145 111 83 729
335	445	1	Mumps antibody level (reciprocal of titre level)	1 less than 8 2 8 3 16 or more 9 unknown					385 149 84 765
336	446	1	Rubella antibody level (reciprocal of titre level)	1 8 or less 2 16-32 3 64 or more 9 unknown					252 416 1,107 1,630
337	447	1	Diphtheria immunity level	1 less than 0.01 units/ml 2 greater than 0.01 units/ml 9 unknown					114 500 743
338	448	1	Tetanus immunity level	1 less than 0.01 units/ml 2 greater than 0.01 units/ml 9 unknown					53 1,111 1,204

No edits done on this field.

339	449	3	Serum zinc level (XXX micrograms per decilitre)	038 - 289 999 unknown	3,688 2,916
340	452	3	Serum copper level (XXX micrograms per decilitre)	045 - 307 999 unknown	3,685 2,919
341	455	3	Blood lead level (XXX micrograms per decilitre)	000 - 047 999 unknown	4,522 3,837
342	458	3	Serum Cholesterol level (XX.X milligrams per decilitre)	063 - 450 999 unknown	3,983 2,621
343	461	3	Uric Acid (XX.X milligrams per decilitre)	011 - 113 999 unknown	3,993 2,611
344	464	3	Serum creatinine level (XX.X milligrams per decilitre)	004 - 045 999 unknown	3,993 2,611
345	467	3	Serum SGOT level (XXX units per litre)	006 - 385 999 unknown	3,981 2,623
346	470	3	Serum glucose level (XXX milligrams per decilitre)	051 - 433 999 unknown	3,927 2,677
347	473	3	Blood hemoglobin level (XX.X grams per decilitre)	073 - 189 999 unknown	3,791 2,813

WEIGHTING FACTORS

348	476	7	Weight 1 (XXXXX.XX)	IAQ variables	Use with fields 1-160 only
349	483	7	Weight 2 (XXXXX.XX)	LHQ variables (except HOS)	Use with any calculations involving fields 161-175 or 193-308
350	490	7	Weight 3 (XXXXX.XX)	HOS	Use when fields 176-192 are involved.
351	497	7	Weight 4 (XXXXX.XX)	PMQ variables	Use when fields 309-329 are accessed.

APPENDIX I Allocation of ICD-9 codes to health problems

01	Mental disorders	290.0-307.7, 307.9-316.0, 780.5, 799.2
02	Endocrine diseases	250.0-250.9, 240.0-246.9
03	Headache	307.8, 346.0-346.9, 784.0
04	Sight disorders	360.0-379.9, V41.0, V41.1
05	Hearing disorders	380.0-389.9, V41.2, V41.3
06	Hypertension	401.0-405.9
07	Heart disease	391.0-392.0, 393.0-398.9, 410.0-429.9, 746.9, 785.0-785.2
08	Acute respiratory ailments	460.0-466.1, 480.0-486.0
09	Influenza	487.0-487.8
10	Bronchitis & emphysema	490.0-492.0
11	Asthma	493.0-493.9
12	Hayfever & other allergies	477.0-477.9, 995.2, 995.3
13	Dental trouble	520.0-525.9, V52.3, V53.4
14	Gastric & duodenal ulcers	531.0-533.9
15	Digestive disorders	009.0-009.3, 536.0-564.9, 787.1-787.3
16	Skin allergies	680.0-709.9, 782.1
17	Arthritis & rheumatism	729.0
18	Back, limb & joint disorders	710.0-728.9, 729.1-739.9, 754.2-756.5, V43.6, V49.9
19	Trauma	800.0, 995.1, 995.4-999.9
20	Other	ALL CODES NOT LISTED ABOVE

This list is not completely comparable to that published in the "Health of Canadians". Diabetes and thyroid disorders have been combined under the title 'endocrine disorders' and anemia is now included in 'other'.

APPENDIX II

The following is a reconciliation of the chronic health problem list appearing in the interviewer administered questionnaire and the abbreviated list provided here:

Anemia	Other (20)
Skin allergies	Skin allergies (16)
Hay fever or other allergies	Hay fever and other allergies (12)
Asthma	Asthma (11)
Arthritis or rheumatism	Arthritis or rheumatism (17)
Cancer	Other (20)
Cerebral palsy	Other (20)
Diabetes	Endocrine Diseases (02)
Emphysema or chronic bronchitis	Bronchitis & emphysema (10)
Mental retardation	Other (20)
Any emotional disorders (excluding mental retardation)	Mental Disorders (01)
Epilepsy	Other (20)
High Blood pressure	Hypertension (06)
Heart disease	Heart Disease (07)
Kidney disease	Other (20)
Stomach ulcer	Gastric & duodenal ulcers (14)
Thyroid trouble or goitre	Endocrine diseases (02)
Recurring migraine headaches	Headache (03)
Missing arms or legs	Back, Limb & Joint Disorders (18)
Missing fingers or toes	Back, Limb & Joint Disorders (18)
Paralysis of any kind	Other (20)
Serious trouble with the back or spine	Back, Limb & Joint Disorders (18)
Serious trouble with the legs or hips	Back, Limb & Joint Disorders (18)
Serious trouble with the arms or shoulders	Back, Limb & Joint Disorders (18)
Serious trouble with any other bones or joints	Back, Limb & Joint Disorders (18)

APPENDIX III Allocation of Industry Codes

Industry Group	1970 - SIC codes
01 Agriculture	001 - 021
02 Other primary	031 - 099
03 Non-durable manufacturing	101 - 249, 271 - 289, 365 - 399
04 Durable manufacturing	251 - 268, 291 - 359
05 Construction	404 - 421
06 Transportation, etc.	501 - 579
07 Wholesale trade	602 - 629
08 Retail trade	631 - 699
09 Finance, etc.	701 - 737
10 Community services	801 - 849
11 Personal services	871 - 886
12 Business and miscellaneous services	851 - 869, 891 - 899
13 Public administration	902 - 991

APPENDIX IV Allocation of Occupation Codes

Occupation Group	1970 - OCM codes (major groups)
01 Managerial, administrative	11
02 Professional	21, 23, 25, 33
03 Teaching	27
04 Medicine Health	31
05 Clerical	41
06 Sales	51
07 Services	61
08 Primary	71, 73, 75
09 Mining, processing machinery	77, 81, 82, 83
10 Fabricating, assembling and repairing	85
11 Construction	87
12 Transportation, materials handling and other crafts	91, 93, 95, 99