Special Surveys Program

Programme des enquêtes spéciales

1989

Canadä



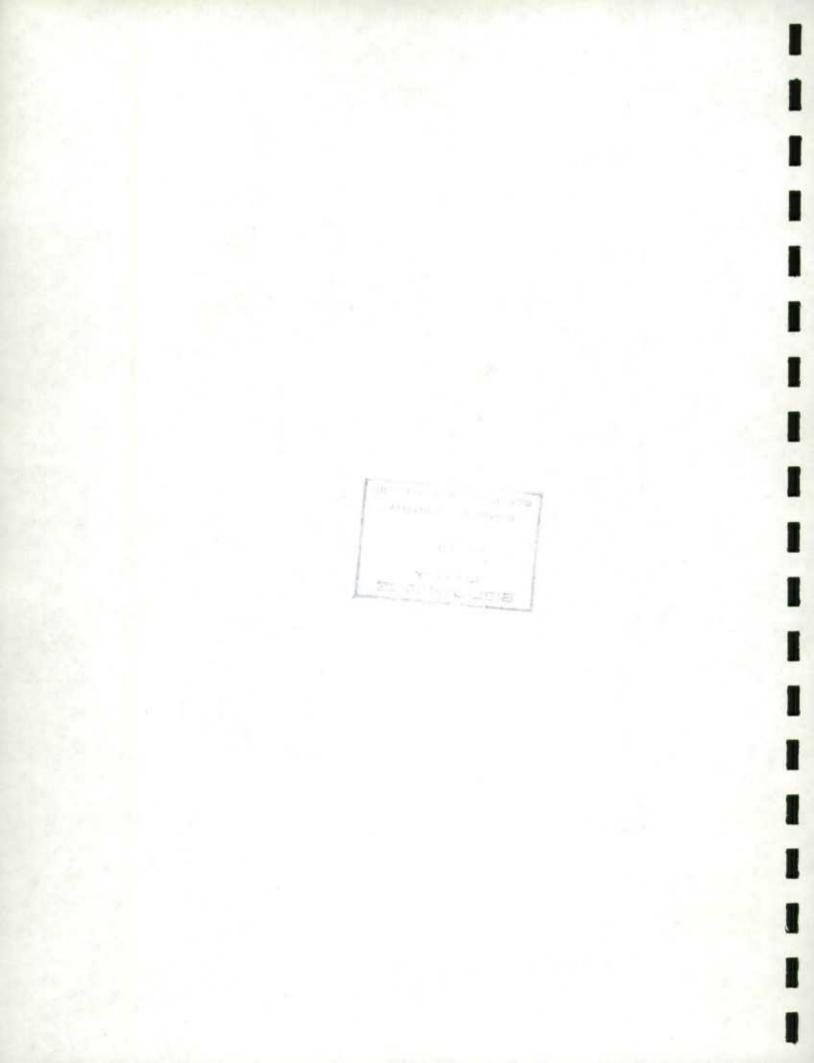
# SURVEY OF ALBERTA APPRENTICES AND JOURNEYMEN

8810

Microdata Documentation



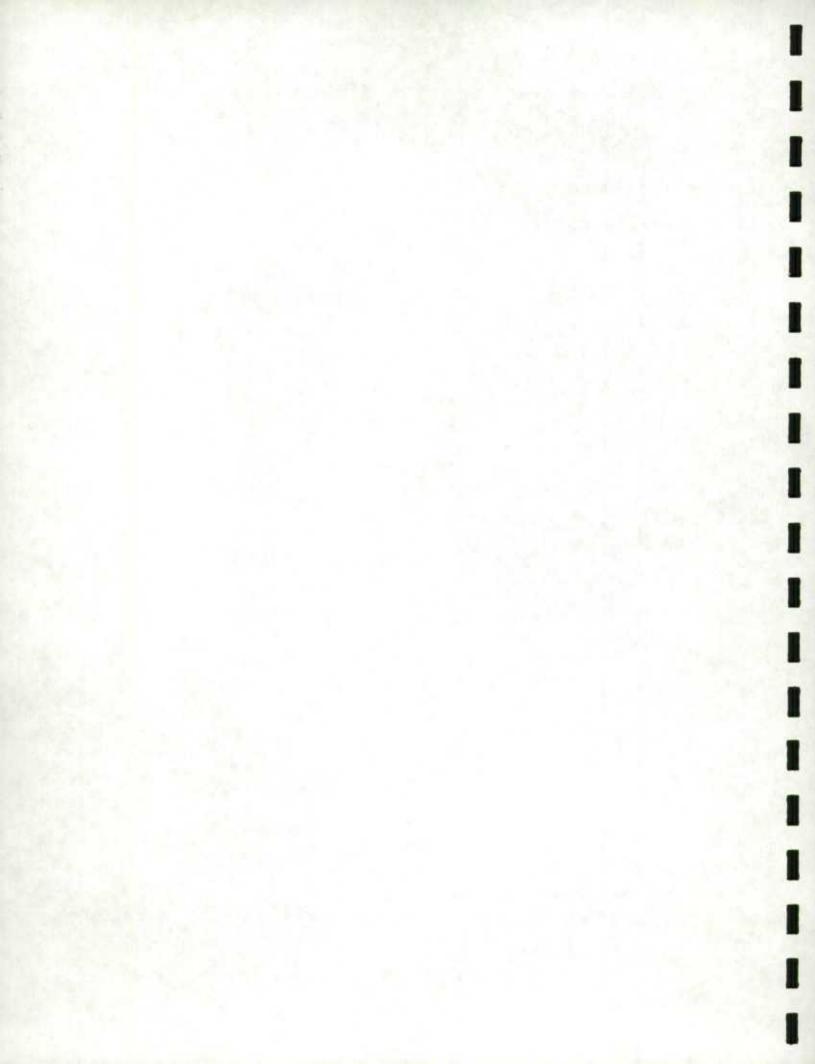
Special Surveys Group STATISTICS CANADA January 1989



#### SURVEY OF ALBERTA APPRENTICES AND JOURNEYMEN - 8810

#### TABLE OF CONTENTS

- 1. INTRODUCTION
- 2. SURVEY OBJECTIVES
- 3. POPULATION
- 4. SURVEY DESIGN
  - 4.1 LFS Survey Design
    - 4.1.1 Self-representing Units
    - 4.1.2 Non-self-representing Units
    - 4.1.3 Special Areas
  - 4.2 Sample Rotation
  - 4.3 The Survey of Alberta Apprentices and Journeymen
- 5. COLLECTION
- 6. PROCESSING
- 7. DATA OUTPUT
- 8. ESTIMATION
  - 8.1 LFS Weighting
    - 8.2 Weighting for the Survey of Alberta Apprentices and Journeymen
    - 8.3 Types of Estimates
    - 8.4 Weighting Policy
- 9. RELEASE POLICY AND DATA RELIABILITY
- 10. SURVEY DOCUMENTS
- 11. RECORD DESCRIPTION
- 12. SAMPLING VARIABILITY TABLES
- 13. TECHNICAL SPECIFICATIONS



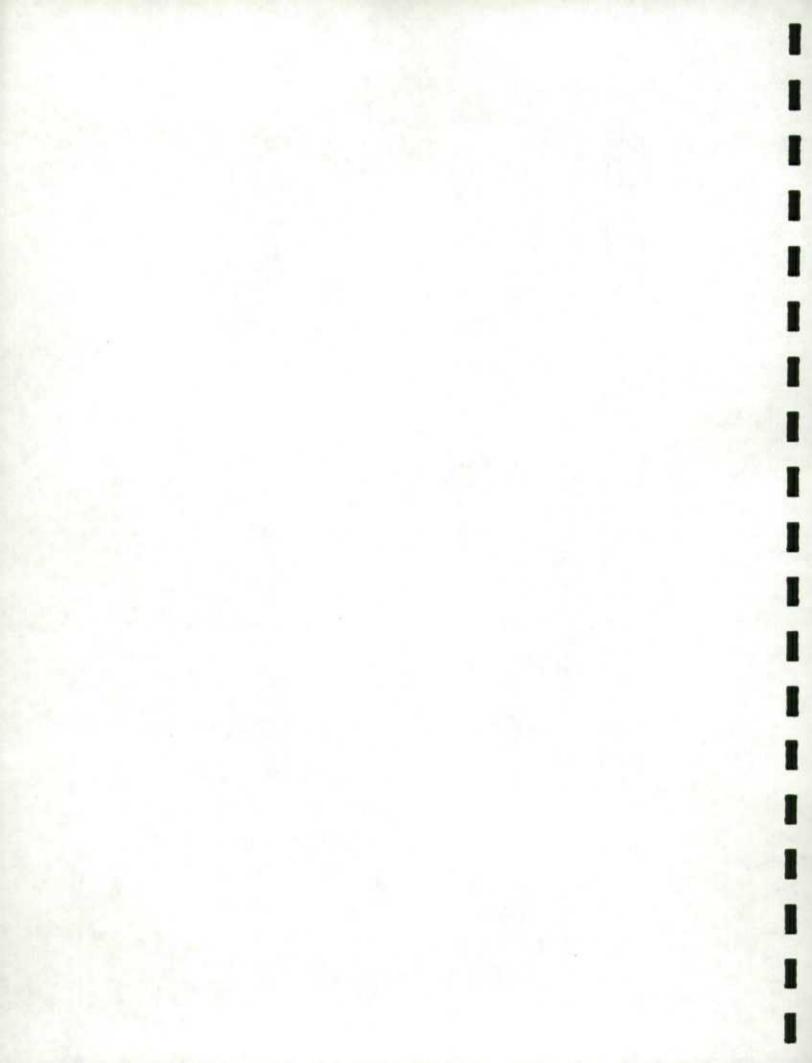
#### 1. INTRODUCTION

This package should enable analysts to access and manipulate the microdata file from the 1988 Survey of Alberta Apprentices and Journeymen (APP). Any questions about the data set or its use should be directed to:

T. Scott Murray
Special Surveys Group
Statistics Canada
5D5 Jean Talon Building
Ottawa, Ontario
K1A OT6
(613) 951-9476

Both Statistics Canada and Alberta Manpower provided financial support for the current study. The contact in Alberta Manpower is:

Lawrence Bortoluzzi
Research Manager
Demography and Immigration Planning Secretariat
Alberta Manpower
Park Square
10001 Bellamy Hill
Edmonton, Alberta
T5J 3C1
(403) 427-8501



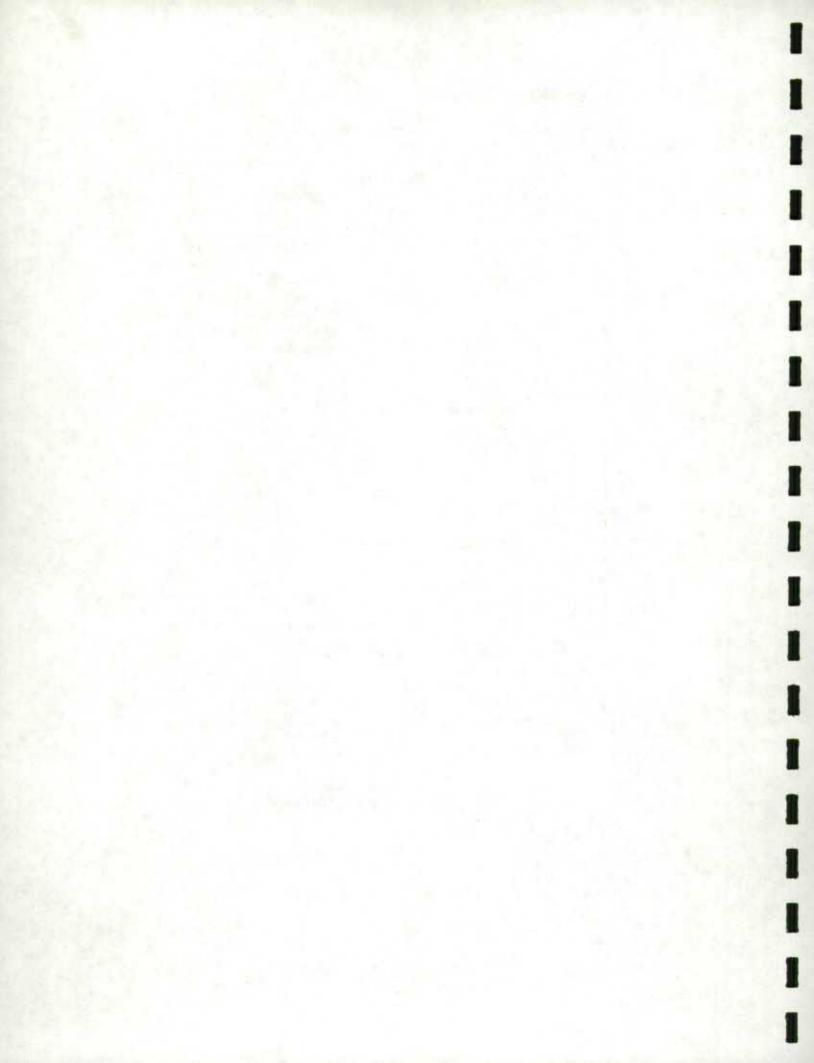
#### 2. SURVEY OBJECTIVES

Apprenticeship is a combination of on-the-job and technical training which leads to certification as a qualified journeyman in a specific trade. There are 52 trades designated in Alberta. Alberta Manpower administers the program, which is jointly funded by the federal and provincial governments.

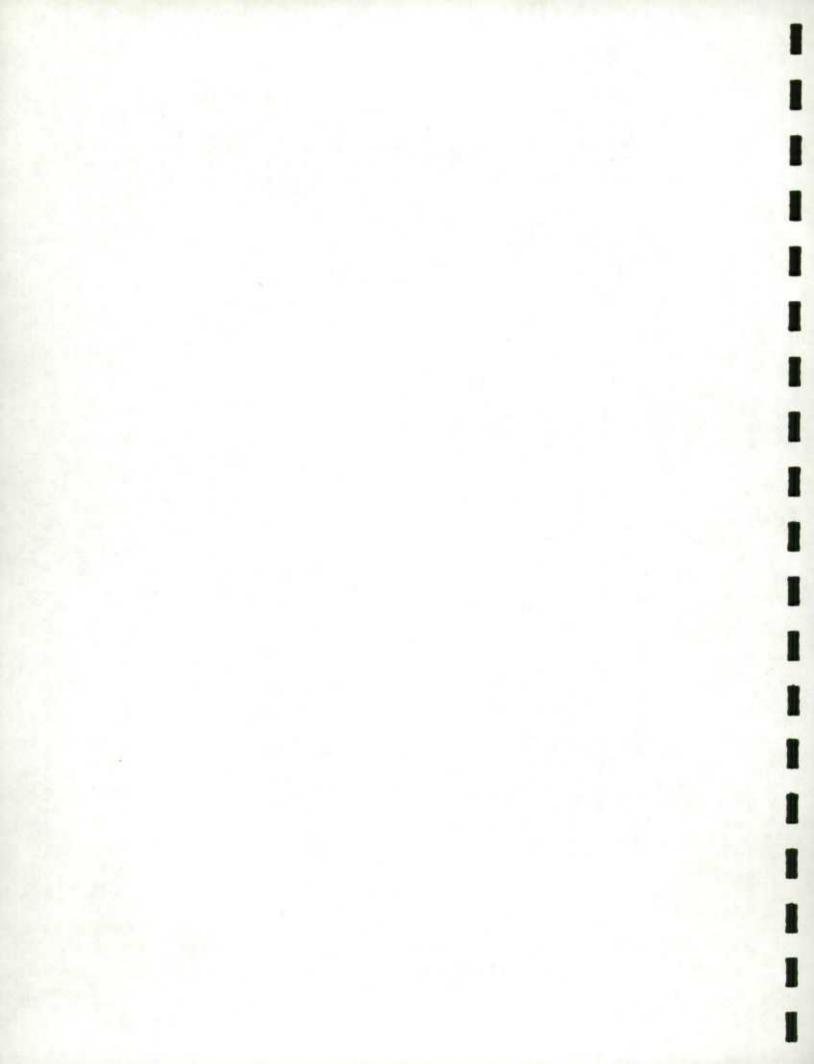
To become an apprentice, an individual must be at least 16 years old and have a minimum level of education (usually Grade 9). The individual must also be employed with an employer who is a journeyman or employs a journeyman in the required trade. Once this condition is met, the individual can become a registered apprentice by signing a contract with his employer. Depending on the trade, the term of apprenticeship varies in length from two to four periods, generally two to four years. On successfully completing the term of apprenticeship, the apprentice becomes a journeyman on receiving an Alberta Completion of Apprenticeship Certificate and a Journeyman Certificate informally known as a 'ticket'. Journeyman certification can also be obtained by other means, such as the successful completion of the Interprovincial Red Sear program in another province; practical experience and successful completion of an examination; or accredited programs and successful completion of an examination.

At present in Alberta, there are approximately 18,000 registered apprentices and 40,000 - 60,000 journeymen. Under the apprenticeship and trade certification program, Alberta Manpower monitors the status of registered apprentices and schedules them for technical training at post-secondary institutions. Therefore, it is possible to determine when apprentices become unemployed in their trade. With current data, however, it is not possible to determine if apprentices not working in their registered trades are working in related occupations.

Once an apprentice has received a journeyman certificate, it is possible to determine if he/she is active in his/her trade only if he/she is working for an employer who has apprentices registered. As a result, nothing is known about those journeymen working for employers who do not have registered apprentices in their trade or about journeymen who are not working in their registered trade themselves.



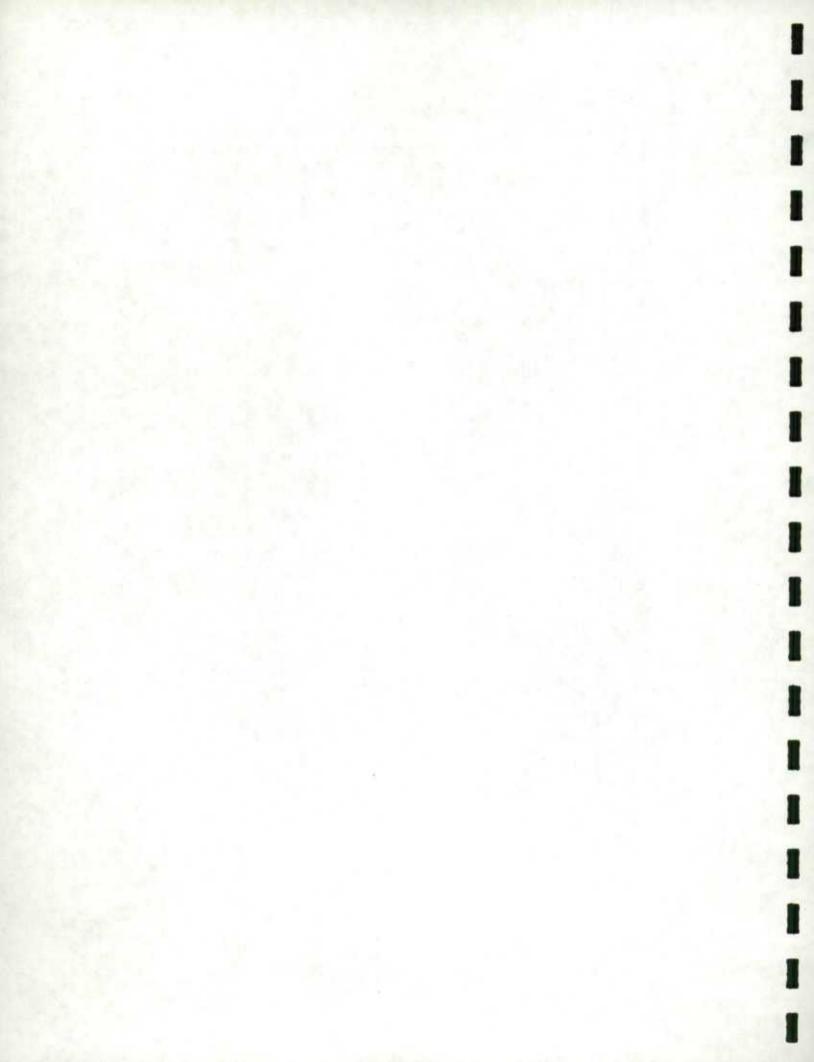
The survey data will be used to identify, in a reliable manner, Alberta-registered apprentices and Alberta-certified journeymen who are active in their trade, as well as the trades in which they are active. This data will then be used to help plan enrollment levels in the various apprenticeship programs for the next five to ten years. The data will also be useful in the refinement of labour supply projection models developed by Alberta Manpower.



## 3. POPULATION

Data were collected for the civilian non-institutional population of Alberta aged 16 to 65. Residents of Indian reserves were excluded from the survey population. The study will use two reference periods:

- (1) the LFS reference week in October, 1988, i.e., the week of October 17-22;
- (2) the 12 months preceding the LFS reference week in October, 1988.



#### 4. SURVEY DESIGN

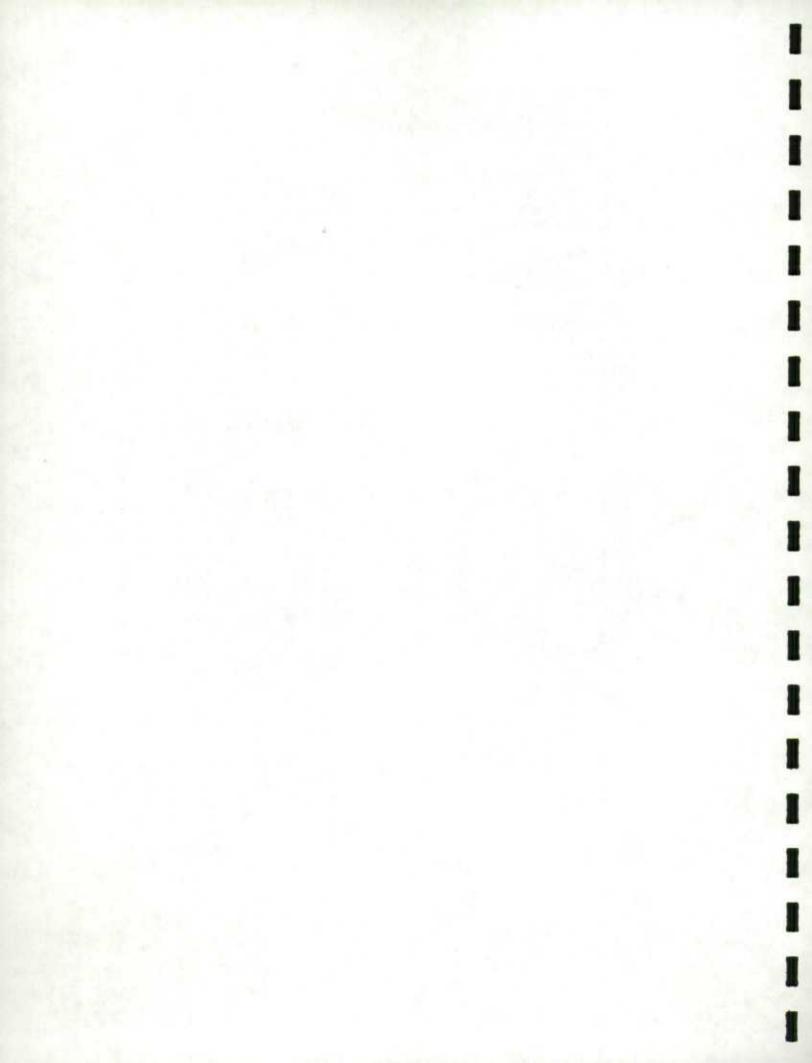
The Survey of Alberta Apprentices and Journeymen was conducted as a supplementary survey to the Canadian Labour Force Survey (LFS) of October 1988. Hence, the survey design is based on the LFS frame and sampling procedures. This section provides a brief overview of the methodology of the LFS as well as highlighting those aspects of the survey design particular to the Survey of Alberta Apprentices and Journeymen.

# 4.1 LFS Survey Design1.

The LFS uses a multi-stage area sample which is based upon information from the 1981 Census of Canada. It has recently been redesigned to reflect the changes in population characteristics shown by the 1981 Census and to respond to changes in information needs. Basically, the sample consists of three main parts: self-representing units (SRUs), non-self-representing units (NSRUs), and special areas. Each of these parts is discussed separately below, following a brief discussion of the stratification.

Stratification in an area frame is basically a process of classifying (usually compact) area units into certain collections called strata. Each of the ten provinces in Canada is divided into a number of economic regions (ER's). An ER has areas of similar economic structure formed on the basis of recent information and is stable over a period of time. These ERs are treated as primary strata and further stratification is carried out within the self-representing and non-self-representing parts independently in each ER.

<sup>1.</sup> A detailed description of the old design is available in the Statistics Canada publication entitled Methodology of the Canadian Labour Force Survey 1976 (catalogue #71-526). A description of the redesign can be found in the paper M.P. Singh, J.D. Drew and G.H. Choudry, "Post, '81 Censal Redesign of the Canadian Laboaur Force Survey", Survey Methodology a Journal of Statistics Canada, December 1984 (catalogue No. 12-001, Vol. 10, No. 2).



This stratification is carried out using the following methods: 1) using an optimization procedure which forms a prespecified number of strata, each of which is homogeneous with respect to up to 17 Census characteristics, (labour force, dwelling and population related variables); 2) using simple geographic criteria; or 3) using the optimization procedure with a constraint that geographic contiguity be maintained within strata.

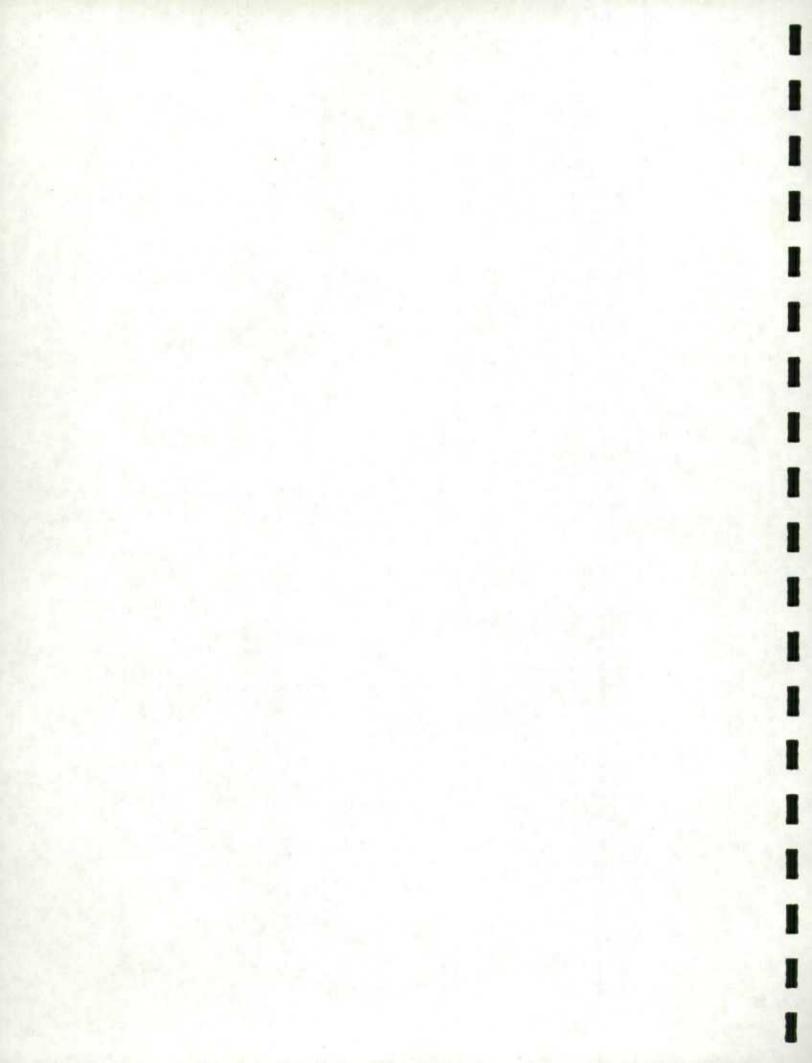
## 4.1.1 Self Representing Units (SRUs)

The self-representing part of the sample comprises those cities whose population exceeds a certain predetermined value, this value varying from region to region. 2. Some cities with population less than this lower limit are also classified as SRUs, in cases where they possess unique labour force characteristics. Within all SRUs, the sample is selected independently so that each of them is represented in the survey by a sample of its own population and hence, the name 'selfrepresenting'. Three different stratification schemes are used depending on the size and composition of the SRU. The larger SRUs are subdivided geographically into 'super-strata', within which non-geographic strata are formed using the optimization procedure. In the smaller block-faced SRUs, these optimal non-geographic area strata are formed directly. In the non-blockfaced cities with considerably less scope for stratification, simple geographic strata are used.

Within each stratum, a sample of clusters (normally a city block or block-face) is selected by a sampling procedure known as the ramdom group method. Clusters are randomized and assigned to groups and then within each group, a cluster is selected with probability proportional to the number of dwellings contained in it. Generally, six clusters (and in some cases, 12 clusters) are selected from each stratum.

The second and final stage of selection in the SRUs is the systematic selection of dwellings within selected clusters. This is done by first obtaining a listing of

SRUs are defined as cities giving a minimum sample yield of 50 dwellings. The minimum city size, therefore, varies due to the difference in sampling ratios from region to region.



the dwellings in each cluster and then performing the selection. On average, approximately 4-5 dwellings are selected from a cluster in block-faced areas and 6-8 dwellings in non-block-faced areas. Basic demographic information is obtained for all permanent residents of the household and LFS questionnaires are administered to all individuals 15 years of age or older, within a selected household.

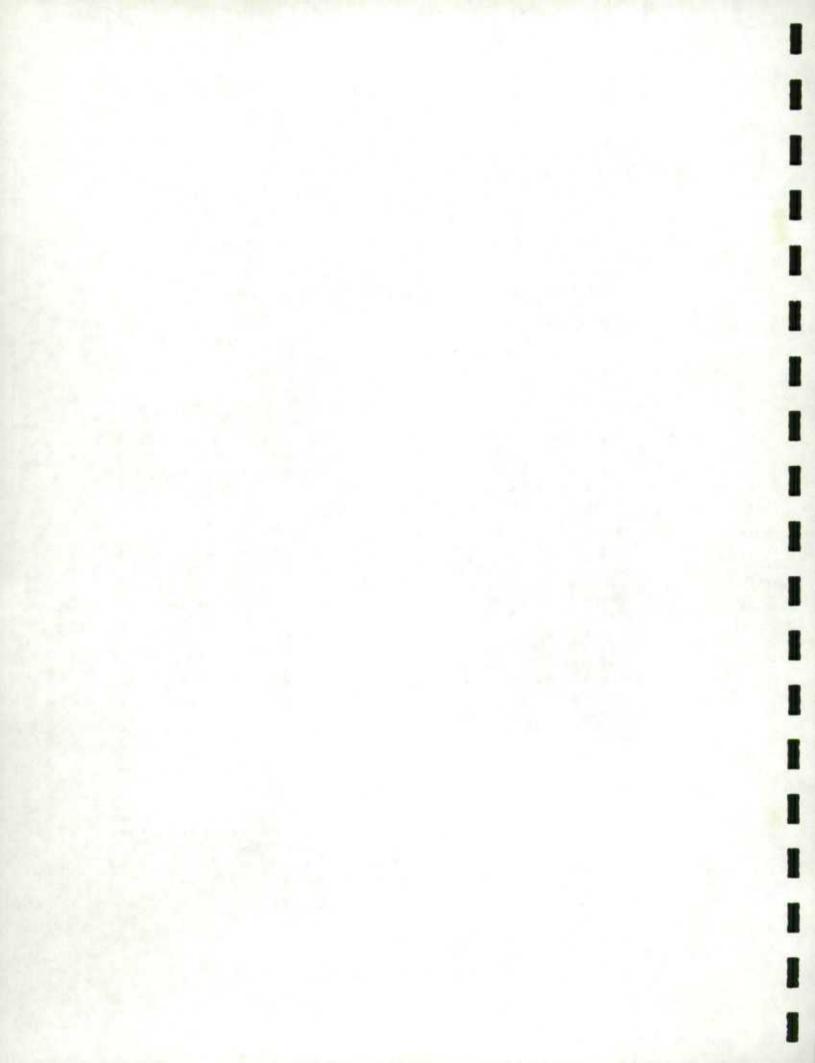
In the 17 largest self-representing units, a special selection is made of large apartment buildings (30 or more units and 5 or more stories) to improve the representativeness of the sample and to reduce the variance of the sample estimates. The sampling procedure for the apartment sample is similar to that of the regular sample, each apartment building constituting a cluster.

# 4.1.2 Non-Self-Representing Units (NSRUs)

The NSRUs are the areas outside the SRUs containing rural portions and small urban centers. Before discussing the selection stages used in the NSRUs, it is necessary to briefly describe the two methods of stratification and PSU formation.

In economic regions with sufficient NSR urban and rural populations (70% of the ERs), separate urban and rural strata are set up. Stratification is done using the optimization procedure separately within urban and rural portions. Each stratum of an NSRU within an economic region is delineated into a number of primary sampling units (PSUs). The delineation is done using a modified version of the optimization procedure used for stratification, so as to form similar rather than dissimilar groupings, each representing the stratum in which they are located with respect to the census characteristics.

In the remaining 30% of economic regions which do not have sufficient NSR urban and rural population for explicit urban/rural stratification, strata are formed using the optimization procedure and PSUs are formed in such a way as to represent the stratum with respect to the census characteristics and the urban/rural population split in the stratum (according to 1981 census figures). Within those PSUs selected for the



sample, urban and rural portions are sampled independently.

Two to four PSUs are selected in each stratum. Urban areas (selected urban PSUs or urban portions of selected PSUs where explicit urban/rural stratification was not done) are further subdivided into clusters; a cluster being a well-defined area with bourdaries recognizable both on maps and in the field. A number of clusters are selected from each group using systematic sampling with probability proportional to the number of households in it. Dwellings are systematically selected within selected clusters. From selected rural areas (consisting of nearby rural census enumeration areas or EAs), seondaries (EAs) and dwellings are selected as described for urban areas.

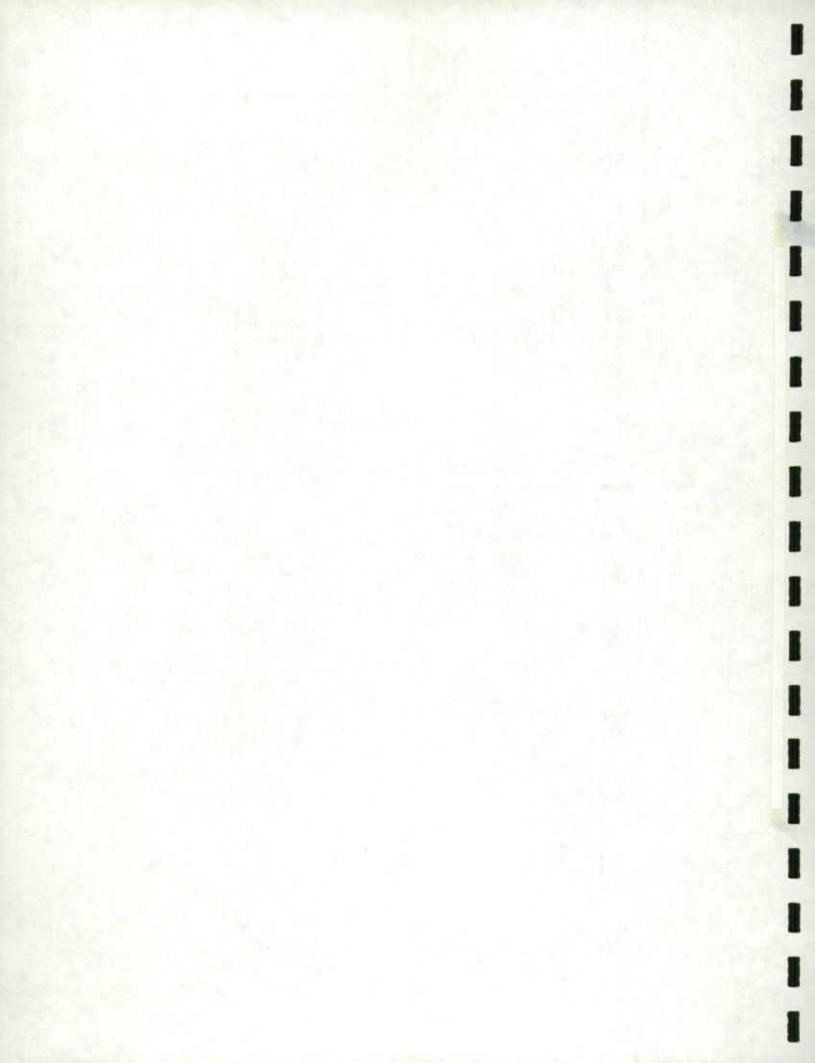
## 4.1.3 Special Areas

In addition to the SRUs, a small proportion of the LFS population is found in institutions such as hospitals, schools, hotels, on military establishments, in remote areas, etc. Because the labour force characteristics of people in these institutions are unique and because some of these areas are not regularly accessible to LFS interviewers, they are handled by the special area frame, which for sampling purposes is divided into the following strata: military establishments, hospitals and other institutions, and remote areas. It may be noted that only the civilian population living on military establishments is included in the survey and that in the case of institutions, inmates of the institutions are not included in the survey.

The special areas are sampled in three stages. The first stage units correspond to census enumeration areas and are selected systematically with probability proportional to size, the eligible labour force population as of the 1981 census being the size measure. Subsequent stages of sampling are clusters and households, as described earlier.

# 4.2 Sample Rotation

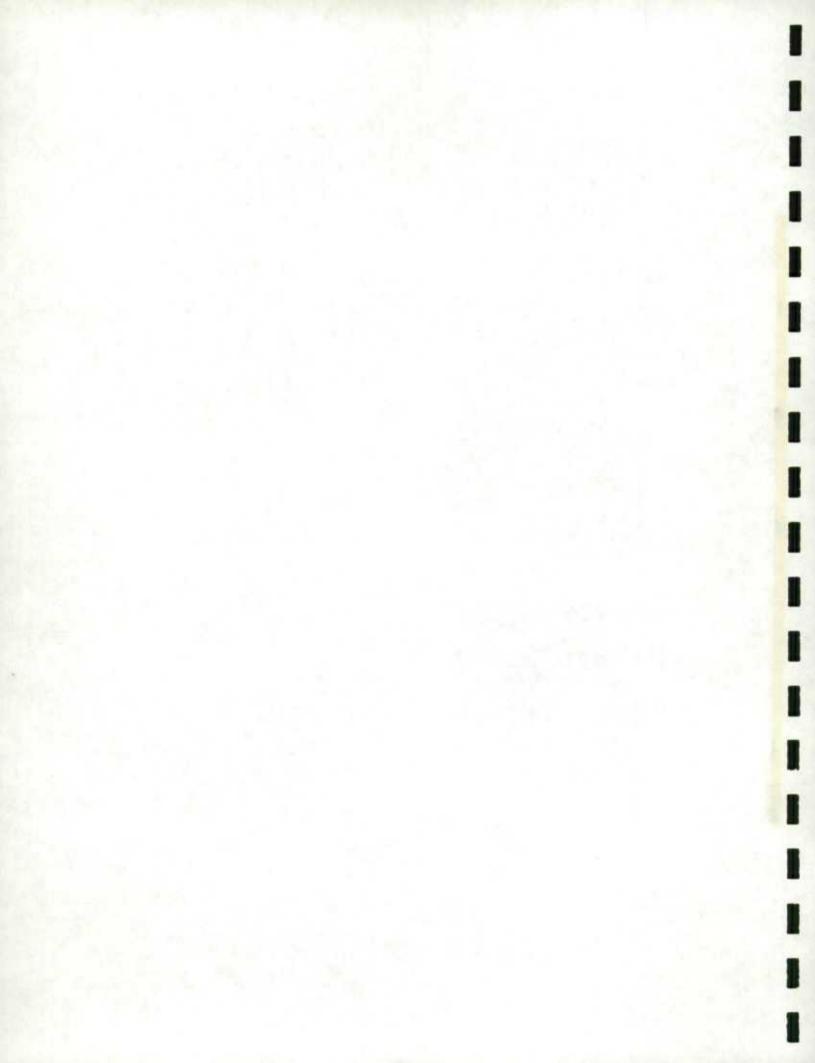
Each household in the LFS sample remains in the sample for a period of six consecutive months. After the sixth month, the household 'rotates out' of the sample and is replaced by a new household. One-sixth of the



sample is rotated out in this manner each month and a new sixth is brought in to replace it. This rotation, as it is called, is done primarily to minimize the non-response that might occur if respondents were asked to remain in the survey for a longer period of time. The rotation procedure is designed in such a way as to effectively divide the whole sample into six equally representative parts. This facilitates subsampling of the LFS sample.

# 4.3 The Survey of Alberta Apprentices and Journeymen

the Survey of Alberta Apprentices and Journeymen was conducted on a subsample of the October 1988 Labour Force Survey sample. Five of the six LFS rotation groups were used, rotation groups 1,2, 3, 5, and 6. Each person residing in Alberta in one of these rotation groups aged 16 to 65 were asked the survey questions.



#### 5. COLLECTION

The interviewing was done using the regular interviewing procedures of the Labour Force Survey. Data were collected during the week of October 17-22, 1988. Most of the labour force variables relate to the reference week of October 9-15, 1988. Supplementary questions were completed for each person 16-65 years of age in the household.

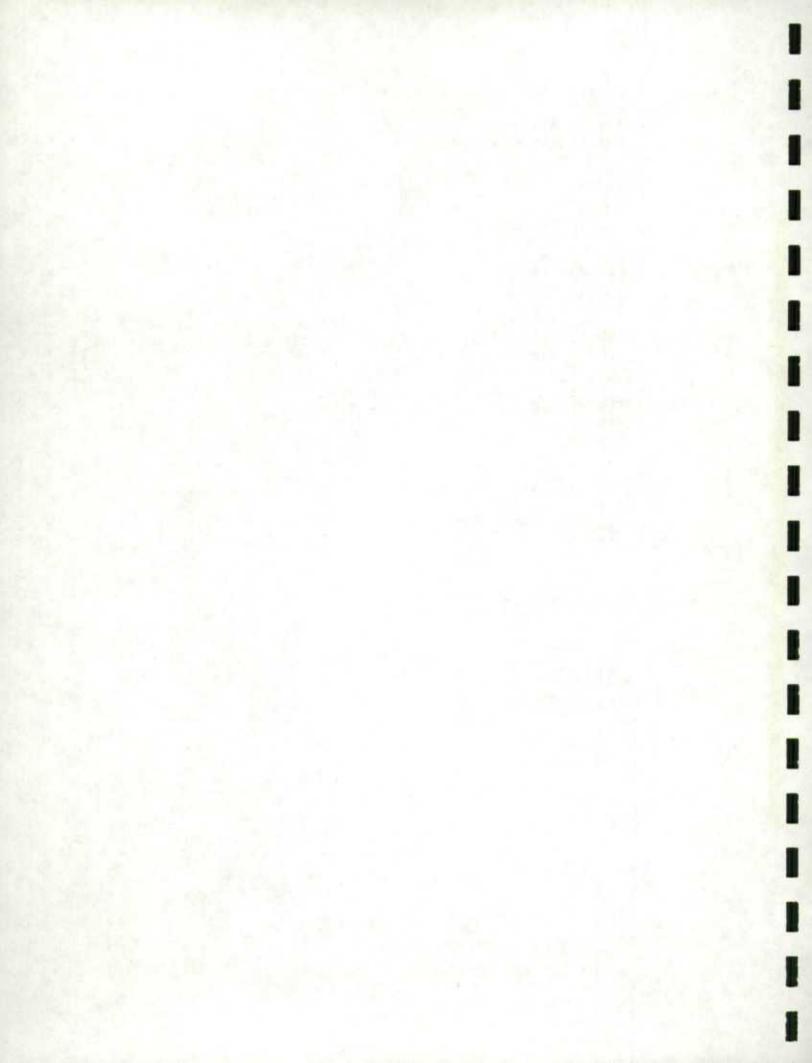
#### 6. PROCESSING

Data entry was completed in the Statistics Canada Regional Offices using the mini computers situated there. Following capture, the data were subjected to validation, edit and correction procedures.

Partial non-response to the APP was identified by subjecting the raw data to an exhaustive computer edit. Records with missing or inconsistent data were imputed from similar records.

#### 7. DATA OUTPUT

This microdata file represents the sole vector of dissemination planned by Statistics Canada for the Survey.



#### 8. ESTIMATION

The principle behind the estimation procedure in a probability sample such as the LFS is that each person in the sample 'represents', beside himself or herself, several other persons not in the sample. For example, in a simple random sample of 2%, each person in the sample represents 50 persons in the population.

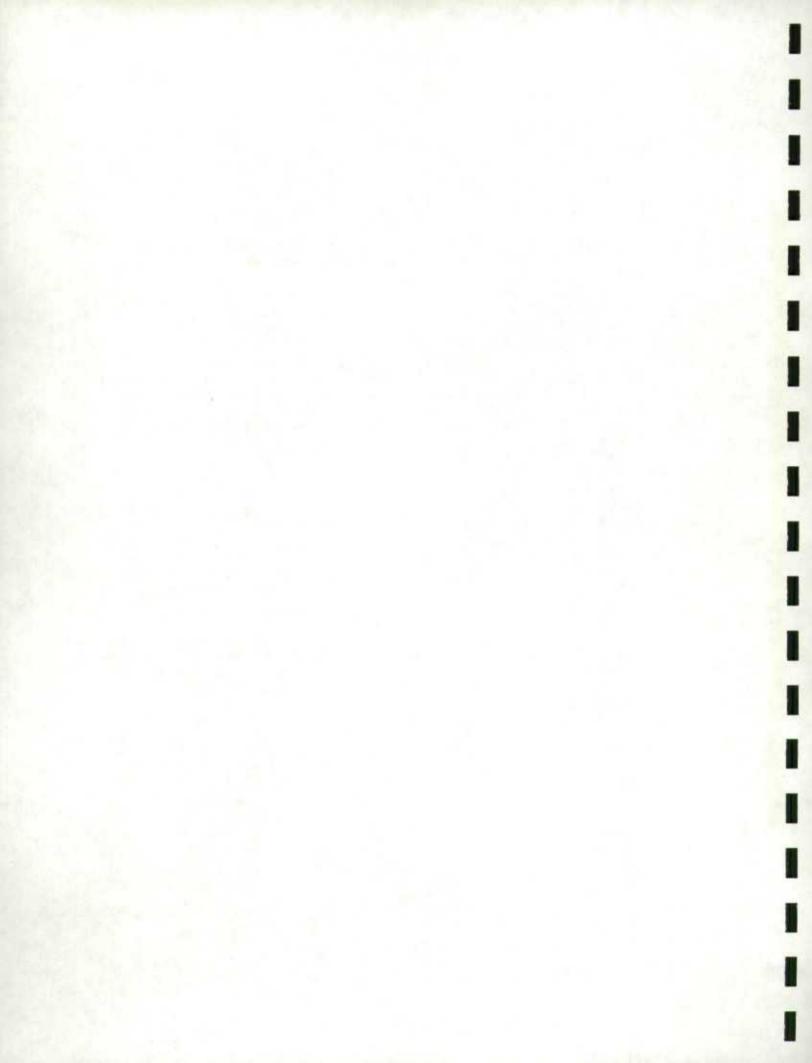
For the LFS, the file created for tabulation purposes contains one record per person in the sample. Each record contains all labour force and demographic characteristics concerning the selected individual. Instead of physically duplicating the sample record according to the number of persons that record represents, an overall weighting factor is placed on each record. The weighting factor refers to the number of records that a particular record represents in order to obtain population estimates. For example, if the number of persons who are married is to be estimated, it is done by selecting the records, referring to those persons, in the sample with that characteristic and summing the weights entered on those records.

In a probability sample, the sample design itself determines weights which must be used to produce unbiased estimates. Each record must be weighted by the inverse of the probability of selecting the person to whom the record refers (in the example of the 2% simple random sample, this probability would be 0.02 for each person and the records must be weighted by 1/0.02=50). This is called the simple estimate.

Since the Survey of Alberta Apprentices and Journeymen used a subsample of the LFS sample, the derivation of weights for the survey records is closely tied to the weighting procedure used for the LFS. The LFS weighting operation is described briefly below.

# 8.1 LFS Weighting

In the LFS, the final weight attached to each record is the product of the following factors: the basic weight, the cluster sub-weight, the balancing factor for non-response, the rural-urban factor, and the subprovincial and the province-age-sex ratio adjustment factors. Each is described below.



## 8.1.1 Basic Weight

The basic weight is essentially the inverse of the probability that the individual is selected in the sample.

## 8.1.2 Cluster Sub-Weight

The cluster delineation is such that the sample take increases very slightly with moderate growth. Substantial growth can be tolerated in an isolated cluster before the additional sample represents a field collection problem. However, if growth takes place in more than one cluster in an interviewer assignment, the cumulative effect of all increases may create a problem. In clusters where substantial growth has taken place, sub-sampling may be resorted to as a means of keeping assignments manageable. The cluster sub-weight represents the inverse of this sub-sampling ratio in clusters where sub-sampling has occurred.

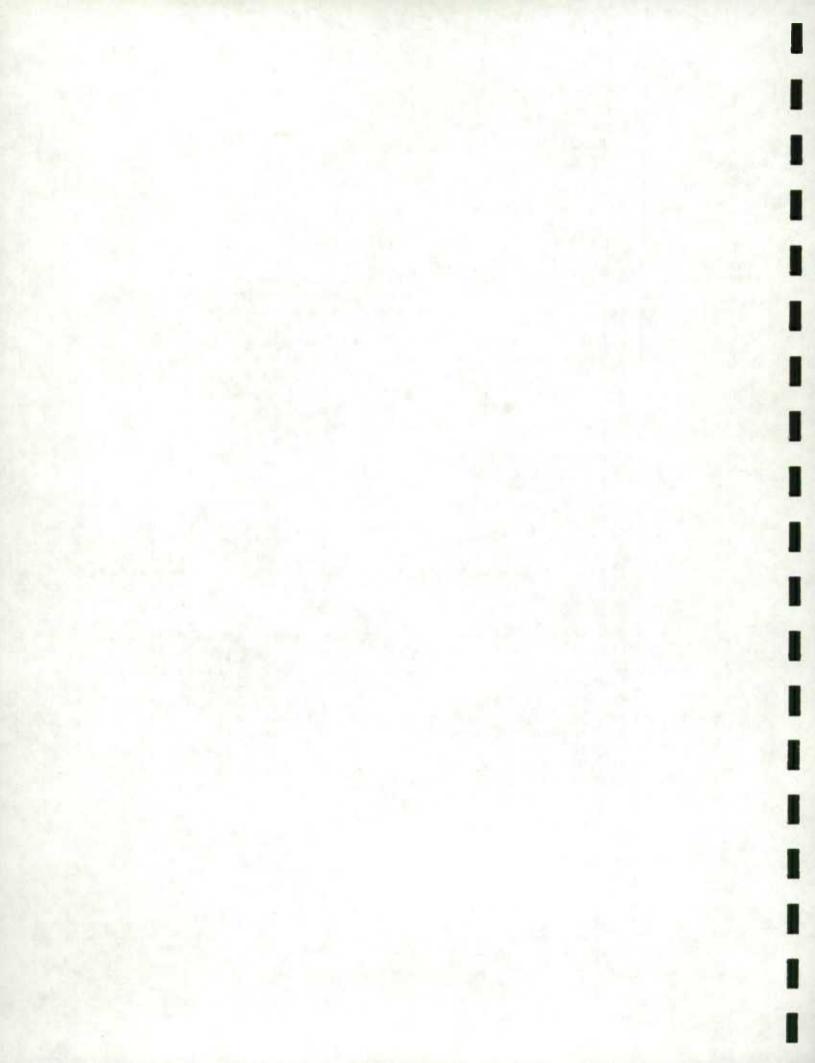
## 8.1.3 Non-Response

Notwithstanding the strict controls in the LFS, some non-response is inevitable, despite all the attempts made by the interviewers. The LFS non-response rate is approximately 5%. For certain types of non-response (temporarily absent, refusal), if the previous month's data is available, it is imputed for the non-responding record.

In other cases non-response is compensated by dividing the sample into geographic balancing units. The weight of each responding record is increased by the ratio of the number of households that should have been interviewed, divided by the number that were interviewed. This adjustment is based on the assumption that the households that have been interviewed represent the characteristics of those that should have been interviewed. If this assumption is not true, the estimates will be somewhat biased.

#### 8.1.4 Rural-Urban Factor

In NSRUs without sufficient rural and urban population for explicit urban and rural strata to be formed, each



primary sampling unit (PSU) is composed of both urban and rural parts. Information concerning the total population in rural and urban areas is available from the 1981 census for each PSU as well as for each economic region (a geographically contiguous subprovincial area). Using the selected PSUs only and dividing their 1981 rural or urban population by the known probability of selection a 'simple estimate' of the 1981 rural or urban population is obtained for each economic region (ER) in which explicit urban/rural stratification is not done. Comparison by ER with the actual 1981 rural or urban census counts indicates whether the selected PSUs over- or under-represent the respective areas. The ratio of the actual rural-urban counts is divided by the corresponding estimates. These two factors are computed for each relevant ER and are used in the form of ratio adjustments. They are computed at the time of selection of the PSUs and are entered on each sample record according to the appropriate area (rural or urban) of the NSRU. Changes in these factors are incorporated at the time of PSU rotations.

## 8.1.5 Subprovincial and Province-Age-Sex Adjustments

By applying the previously described four weighting factors, a valid estimate could be derived for any aggregates for which information is collected by the LFS. In particular, estimates of the total number of persons 15+ in subprovincial regions comprised of 67 individual or combined economic regions and 24 large cities (census methropolitan areas) as well as in designated age-sex groups in each of the ten provinces are produced. Independent estimates are available monthly for the totals in each of these classes by projecting forward the 1981 Census counts. A 'raking ratio' procedure is applied in which two ratio steps are repeated or iterated until both the subprovincial and province-age-sex adjustment is done. Beginning the procedure with the weights produced as the product of the first 4 factors, for each adjustment and within each class, the independent estimate is divided by the sum of the weights and this factor is applied to the weights on records in that class. After these repeated adjustments have been made, the estimated aggregates will agree with the projected census counts for each classification.

the contract of the contract o
Attended to the second of the

# 8.2 Weighting for the Survey of Alberta Apprentices and Journeymen

The principals of the calculations for the weights for the Survey of Alberta Apprentices and Journeymen are identical to those of the LFS. Three adjustments are made to the final LFS weights in order to derive a final weight for the individual records on the Apprentices and Journeymen Survey microdata file. The adjustments made to the LFS weights account for:

- (1) a factor to adjust for the use of a five-sixth sample;
- (2) a factor to adjust for the non-response to the Apprentices and Journeymen Supplement;
- (3) a factor to adjust for subprovincial and provincial age-sex projections.

The first weight adjustment mentioned above is to account for subsampling of rotation groups.

The second is to account for the non-response rate to the Apprentices and Journeymen Supplement. Some households that responded to the LFS refused to respond to the supplementary questions.

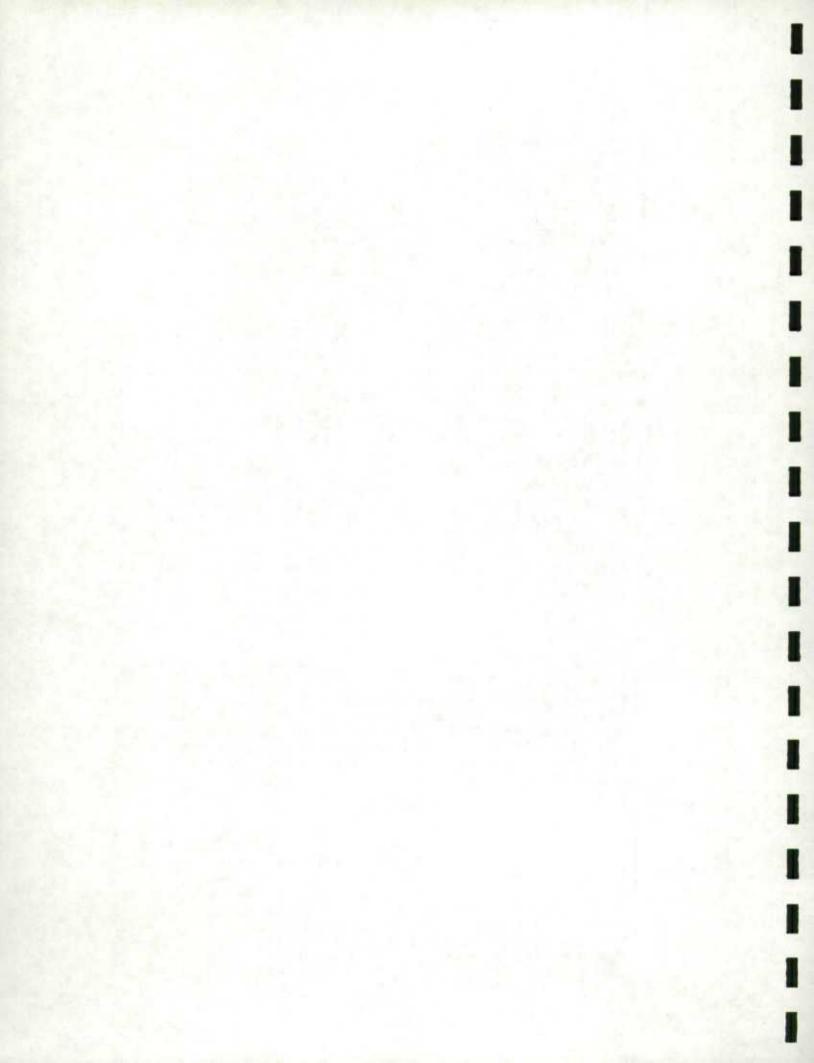
The third adjustment, which is actually a series of adjustments, is identical to what is done for the LFS as outlined in 8.1.5.

# 8.3 Types of Estimates

Two types of estimates are possible from the Survey of Alberta Apprentices and Journeymen: qualitative estimates (estimates of counts or proportions of people possessing certain characteristics) and quantitative estimates (estimates of total or average amounts). It should be noted that the data on the Apprentices and Journeymen Survey tape are almost exclusively qualitative in nature.

### 8.3.1 Qualitative Estimates

Qualitative estimates are estimates of the number or proportion of the surveyed population possessing certain characteristics. The number of persons in Alberta who are registered apprentices is an example of this type of estimate. These estimates are readily obtained by summing the final weights of the supplementary survey records possessing the characteristic in question.



#### 8.3.2 Quantitative Estimates

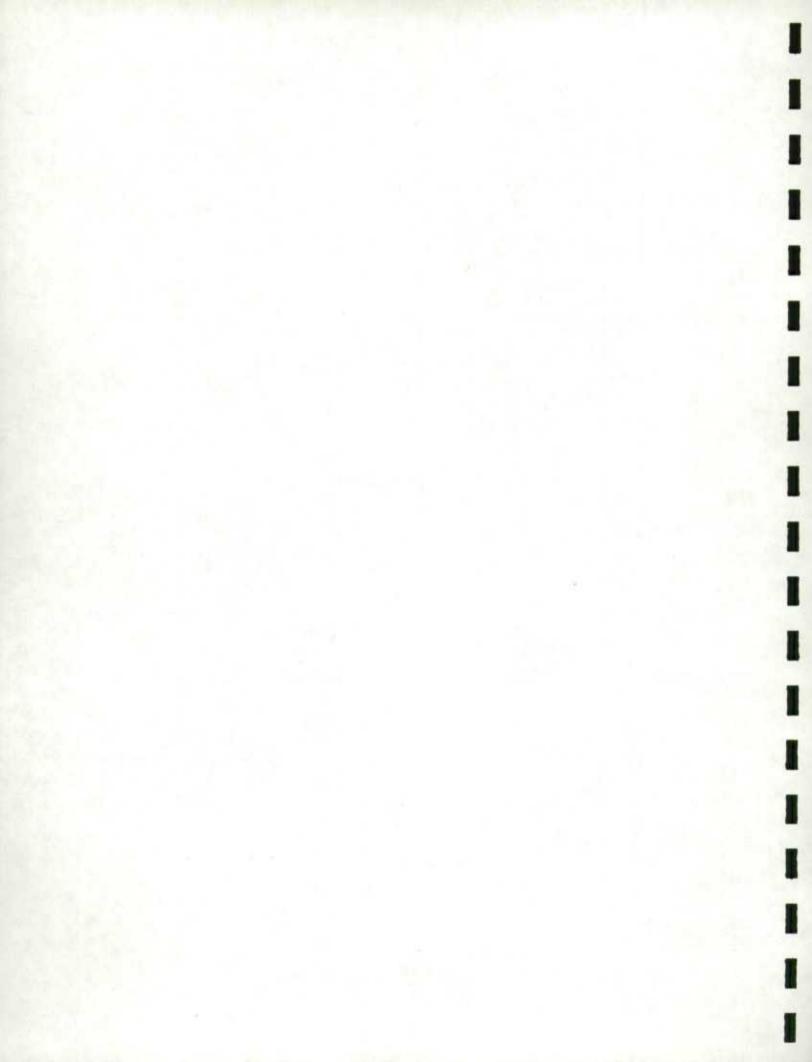
A few variables on the Apprentices and Journeymen Survey microdata file are quantitative in nature (e.g., number of weeks looking for work by apprentices). From these variables, it is possible to obtain such estimates as the average number of weeks without work. These estimates are of the following ratio form:

est(average) = 
$$\chi \gamma$$

The number (X) is a quantitative estimate of the total of the variable of interest (number of weeks without work). The denominator (Y) is the qualitative estimate of the number of participants (those persons who were apprentices).

# 8.4 Weighting Policy

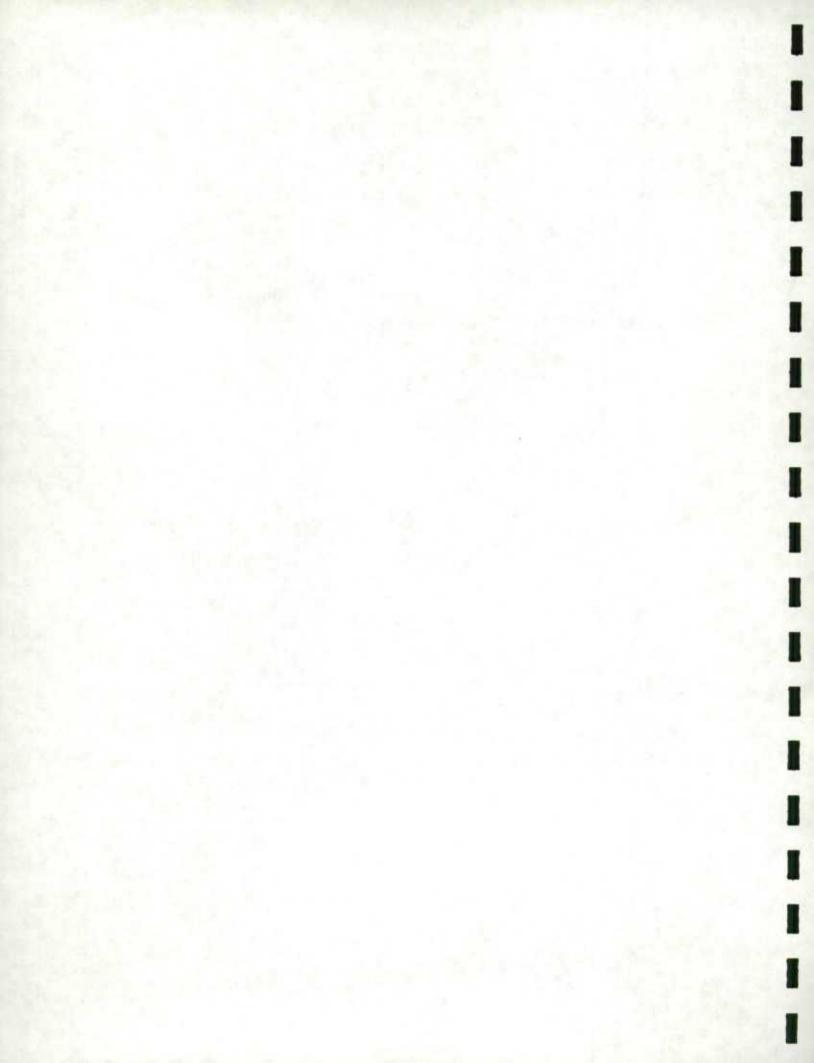
Users are cautioned against releasing unweighted tables or performing any analysis based on uneweighted survey results. As was discussed in Sections 8.1 and 8.2, there were several weight adjustments performed on the survey data. Sampling rates as well as non-response rates varied significantly from region to region within province.



### TABLE ONE

## Interview/Non-Interview Classifications

Category	Code	Explanation
Interview	weet hand would recall hand hand hand hand hand hand hand hand	Completed interview - LFS questionnaire completed for all eligible members of the household.
	Ε	Parital interview - LFS questionnaire completed for some, but not all, eligible members of the household.
Non-response	7	Household temporarily absent
	N	No one at home
	R	Refusal
	K	No interview due to circumstances within the household (e.g., sickness, death, language problems)
	A	No interviewer available
	L	No interview due to weather conditions
	Z	'No Shows' - survey forms arrived too late for processing or were lost in the mail.
Vacant		Vacant dwellings
	S	Vacant seasonal dwellings
	С	Dwelling under construction
	В	Usual place or residence elsewhere, military or embassy personnel
Non-existance	times were recent recent want want want want want w	Dwelling was demolished, removed, converted into business premises or listed in error



Note: The sampling variability policy should be applied to rounded estimates.

	-
	7.4
	_
	1
	•
	-
	-
	1

policy should be applied to

#### RELIABILITY

ers became familiar with the before publishing or otherwise derived from the Survey of Journeymen microdata file.

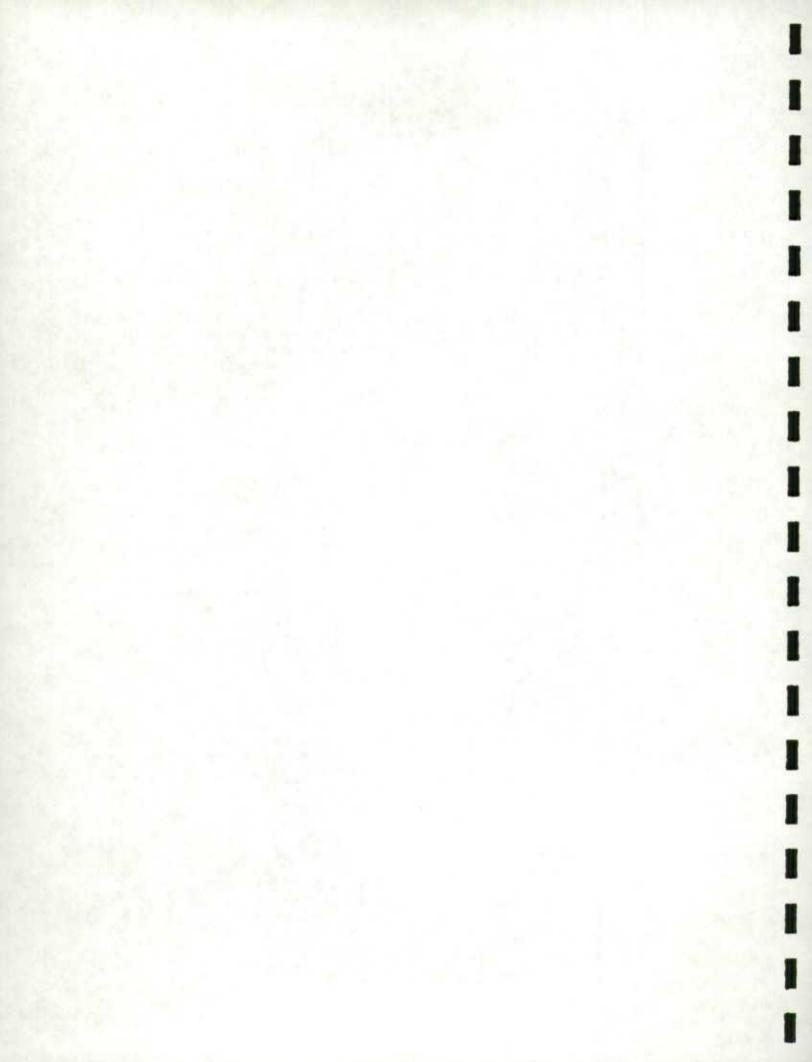
mentation provides guidelines
With the aid of these
microdata should be able to
nt with those produced by
conformance with the
or rounding and release. The
into two broad sections rounding policy.

#### delines

om this survey are based on a omewhat different figures might complete census had been taken aire, interviewers, nethods, etc. than those erence between the estimates and the results from a er similar conditions is called estimate.

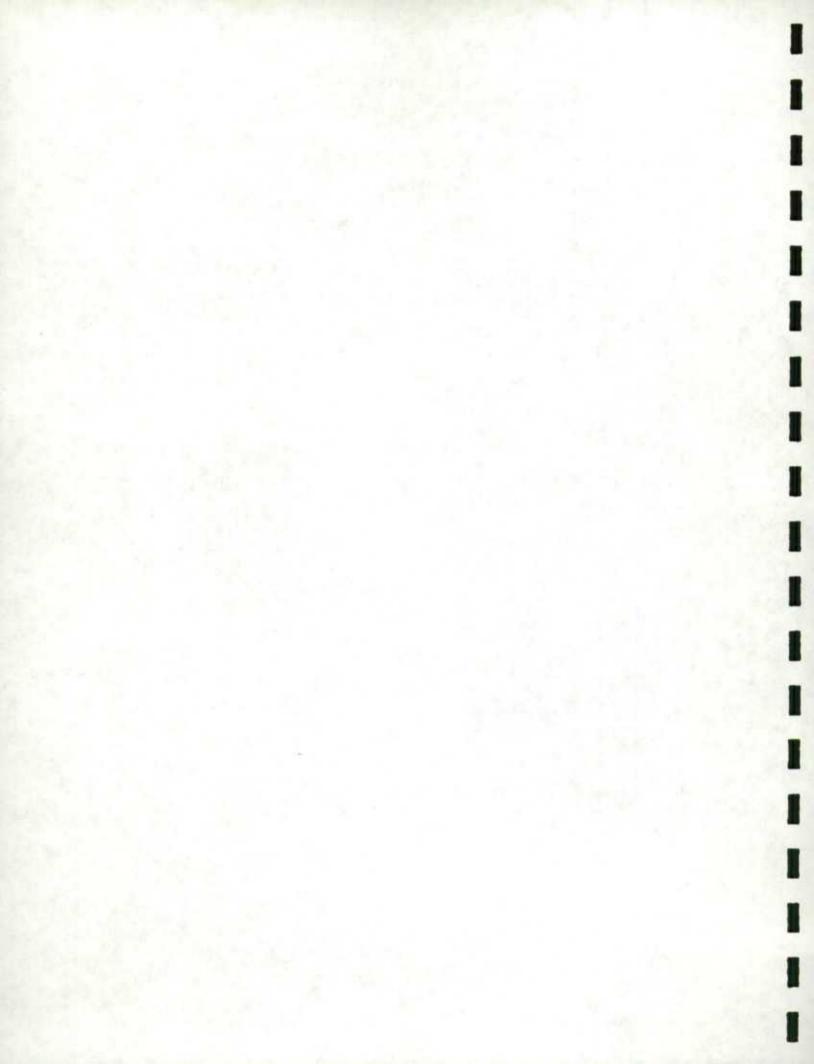
ing error of the estimate, as measured from sample results estimate a statistical measure andard error, from the sample error, confidence intervals he effects of non-sampling der the assumption that the stributed about the true ances are about 68 out of 100 en a sample estimate and the ld be less than one standard 0 that the difference would be rors, and virtually with ences would be less than three

ety of estimates that can be he standard deviation is e to the estimate to which it measure, known as the of an estimate is obtained by or of the estimate by the pressed as a percentage of the

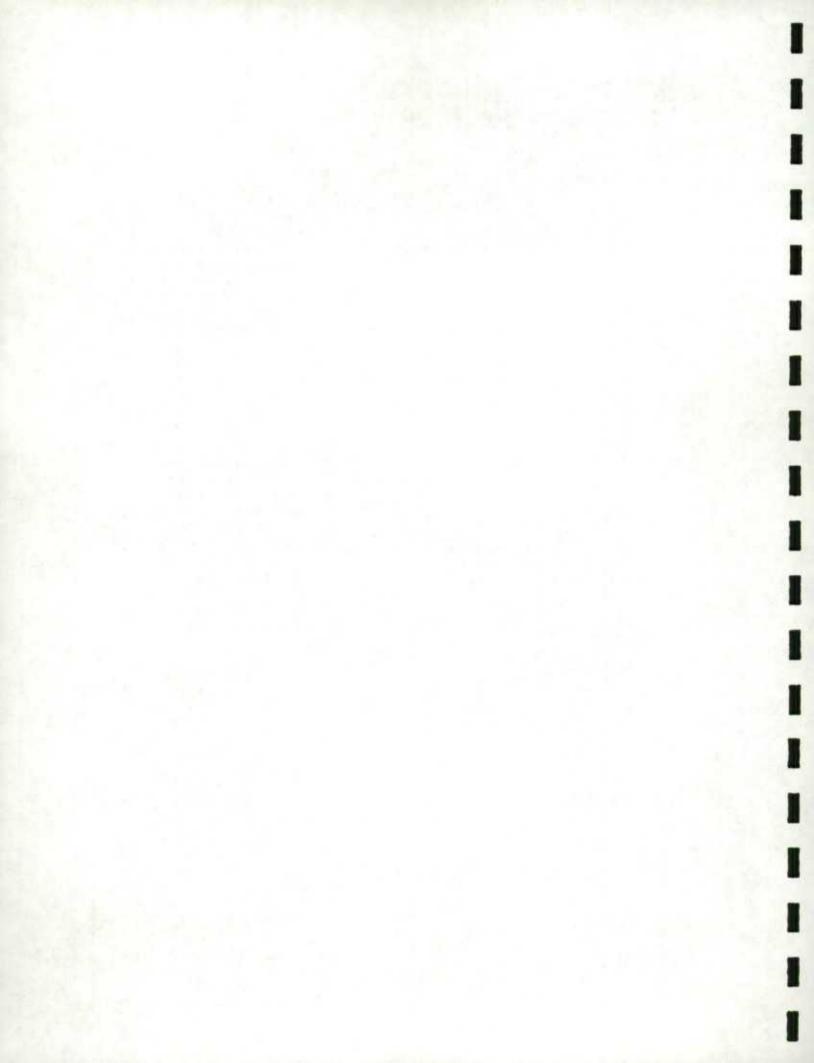


estimate. Before releasing and/or publishing any estimates from the microdata file, users should determine whether the estimate is releasable based on the following guidelines:

TYPE OF ESTIMATE	COEFFICIENT OF VARIATION (IN %)	ALPHABETIC INDICATORS	GUIDELINE STATEMENT
1 Unqualified	0.0 to 0.5% 0.6 to 1.0% 1.1 to 2.5% 2.6 to 5.0% 5.1 to 10.0% 10.1 to 16.5%	A B C D E F	Estimates can be considered for general unrestricted release. No special notation is required, although the alphabetic indicators at the left are suggested.
2 Qualified	16.6 to 25.0%	G .	Estimates can be considered for general unrestricted release but should be accompanied by warning of high sampling variability associated with the estimates. Such estimates should be identified by the letter G (or some other similar fashion).



TYPE OF COEFFICIENT ALPHABETIC GUIDELINE STATEMENT ESTIMATE OF VARIATION INDICATORS (IN %) 3 Restricted 25.1 to 33.3% Estimates can be considered for general unrestricted release only when sampling variabilities are obtained using an exact variance calculation procedure. The estimates should be accompanied by a warning of high sampling variability associated with the estimates. 4 Not for Release (i) 33.4% . Estimates should not or over be released in any form under any circumstances. In statistical tables, such estimates should be deleted.



#### 9.2 Estimates of Variance

Variance estimation is described separately for qualitative and quantitative estimates.

#### 9.2.1 Sampling Variability for Qualitative Estimates

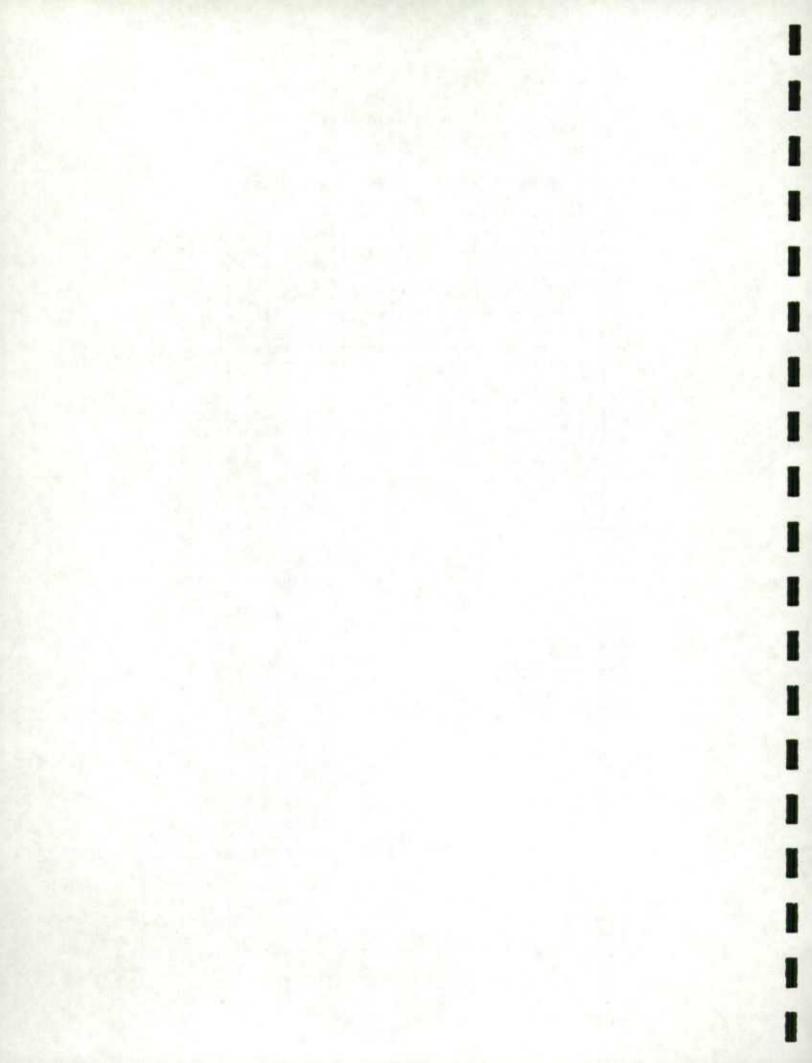
Derivation of sampling variabilities for each of the estimates which could be generated from the Apprentices and Journeymen Survey would be an extremely costly procedure, and for most users, an unnecessary one. Consequently, crude measures of sampling variability. in the form of tables, have been developed for use and are included in Section 12 (Crude Sampling Variability Tables). These tables have been produced using the coefficient of variation formula based on a simple random sample. Because estimates from the Survey of Alberta Apprentices and Journeymen were made from a multi-probability sample design (the LFS design), a factor called the design effect was introduced into the formula. This factor accounts for the increase in variance that resulted from using the LFS sample design over a simple random sample design. When sampling variability is obtained using these tables, only estimates falling into the unqualified or qualified range (i.e., estimates with a coefficient of variation less than or equal to 25%) may be considered for release. Two such tables, one for apprentices, and one for journeymen, are included in Section 12 of this package. The following table provides standard thresholds below which estimates must either be qualified or suppressed completely if the crude sampling variability tables are used.

Subpopulation	% of C.V	
	25.0%	16.5%
Apprentices	3,500	8,000
Journeymen	4,000	9,000

The following rules should enable the user to determine coefficients of variation for aggregates (totals), percentages, ratios, differences between totals or percentages, and differences between ratios

#### Rule 1 Estimates of Aggregates (Totals)

The coefficient of variation for totals depends only on the size of the estimated total itself. On the Crude Sampling Variability Table for the appropriate group,



locate the estimated total (in thousands) in the leftmost column of the table (headed 'Numerator of Percentage') and follow the asteristks across to the first figure encountered. This figure is the coefficient of variation.

#### Rule 2 Estimates of Percentages

The coefficient of variation of an estimated percentage depends on the size of the percentage and the size of the group upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. (Note that in the Crude Sampling Variability Tables, the coefficients of variation drop in going from left to right.)

To estimate the coefficient of variation of a percentage, reference should be made to the percentage (across the top of the table) and to the numerator of the percentage, in thousands (down the left side of the table). The intersection of the appropriate row and column gives the appropriate coefficient of variation.

#### Rule 3 Ratios

In the case where the numerator is a subset of the denominator, the ratio should be converted to a percentage and Rule 2 applied.

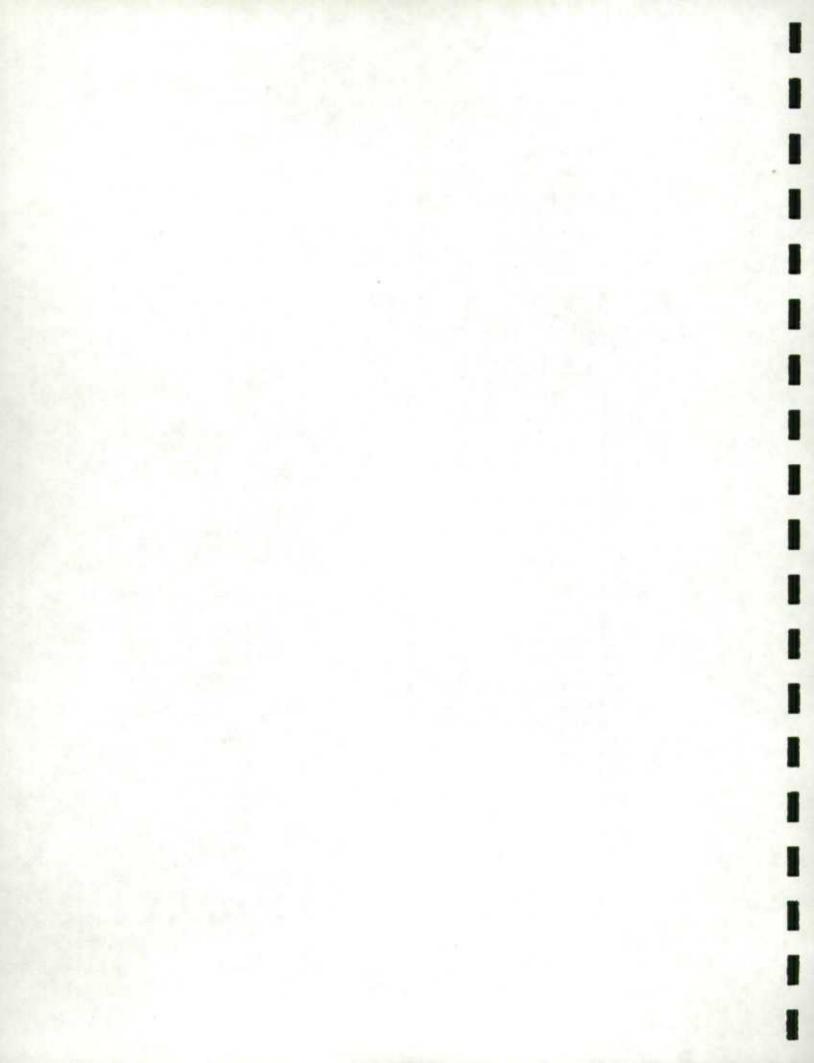
In the case where the numerator is not a subset of the denominator, the coefficient of variation of the ratio of the two estimates is approximately equal to the square root of the sum of squares of each coefficient of variation considered separately; that is, the coefficient of variation of a ratio:

$$R = \frac{\chi}{\gamma}$$

15

$$cv(R) = cv(X)^2 + cv(Y)^2$$

This formula will tend to overstate the error if X and Y are positively correlated and understate the error if X and Y are negatively correlated.



#### Rule 4 Difference Between Totals or Percentages

The standard deviation of a difference between two estimates is approximately equal to the square root of the sum of squares of each standard deviation considered separately. That is, the standard deviation of a difference:

$$d = X - Y$$

$$sd(d) = X cv(X)^2 + Y cv(Y)^2$$

The coefficient of variation of d is approximately

$$cv(d) = \underline{sd}(\underline{d})$$

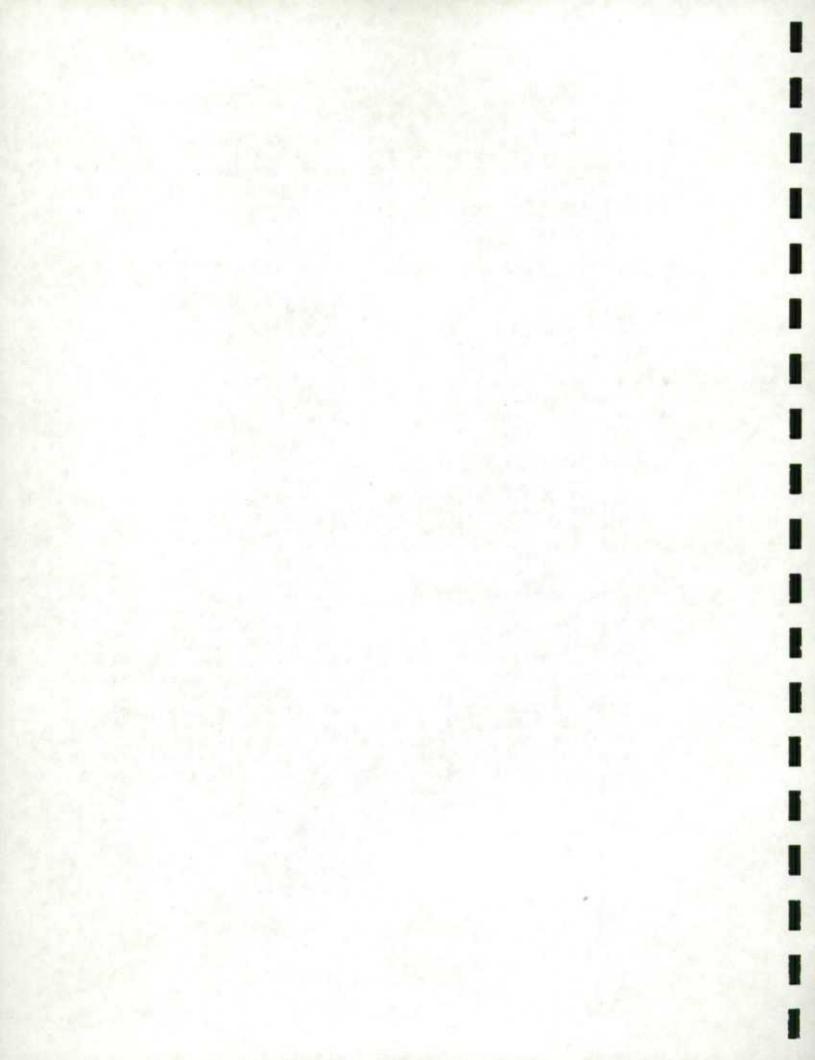
This formula is accurate for the difference between separate and uncorrelated characteristics but is only approximate otherwise.

#### Rule 5 Differences of Ratios

In this case, Rules 3 and 4 are combined. The coefficients of variation for the two ratios are first determined using Rule 3, and then the coefficient of variation of their difference is found using Rule 4.

#### 9.2.2 Sampling Variability for Quantitative Estimates

In order to provide variability estimates for quantitative (non-attribute) type variables, special tables would have to be produced. Since the variables on the Apprentices and Journeymen Survey microdata file are primarily qualitative in nature, this has not been done. As a general rule, however, the coefficient of variation of a quantitative total from this file will be larger than the coefficient of variation of the corresponding qualitative estimate (i.e., the number of persons contributing to the quantitative estimate). If the corresponding qualitative estimate is not releasable, the quantitative total will not be.



#### 9.3 Rounding Policy

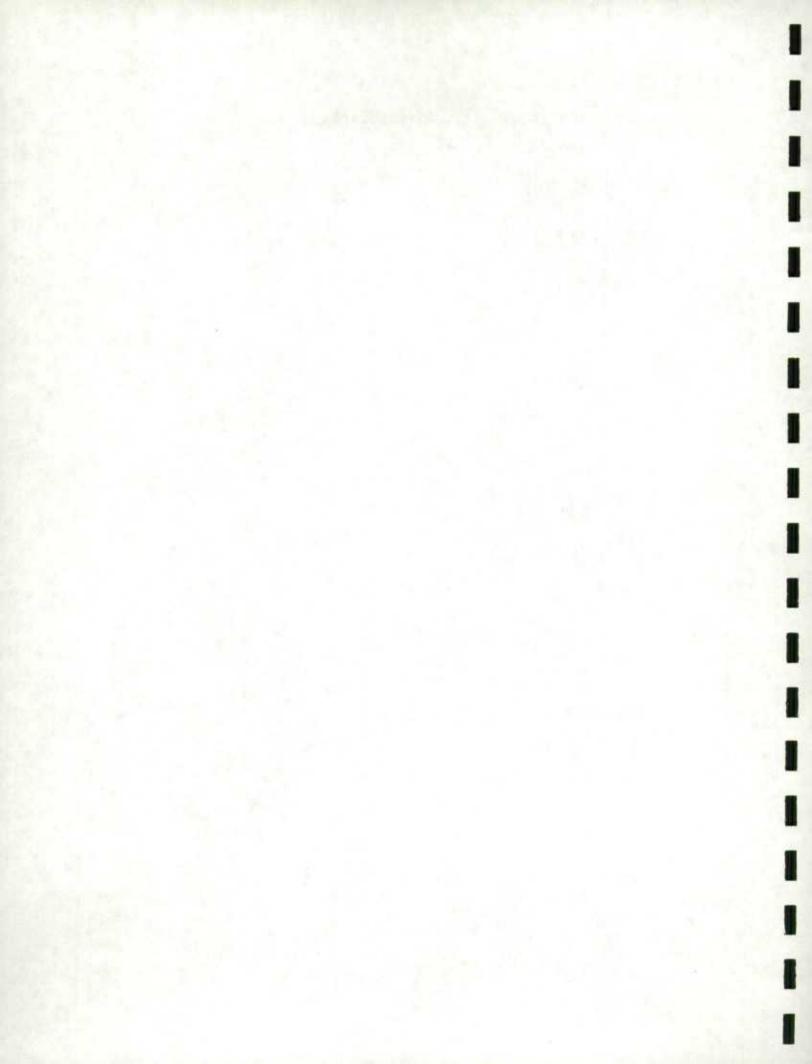
In order that estimates for publications or any other data released from the Apprentices and Journeymen Survey microdata file correspond to those produced by Statistics Canada or any others analyzing the data, users are urged to adhere to the following guidelines regarding the rounding of such estimates. It is unwise to release unrounded estimates, as they imply greater precision than actually exists.

#### 9.3.1 Rounding Guidelines

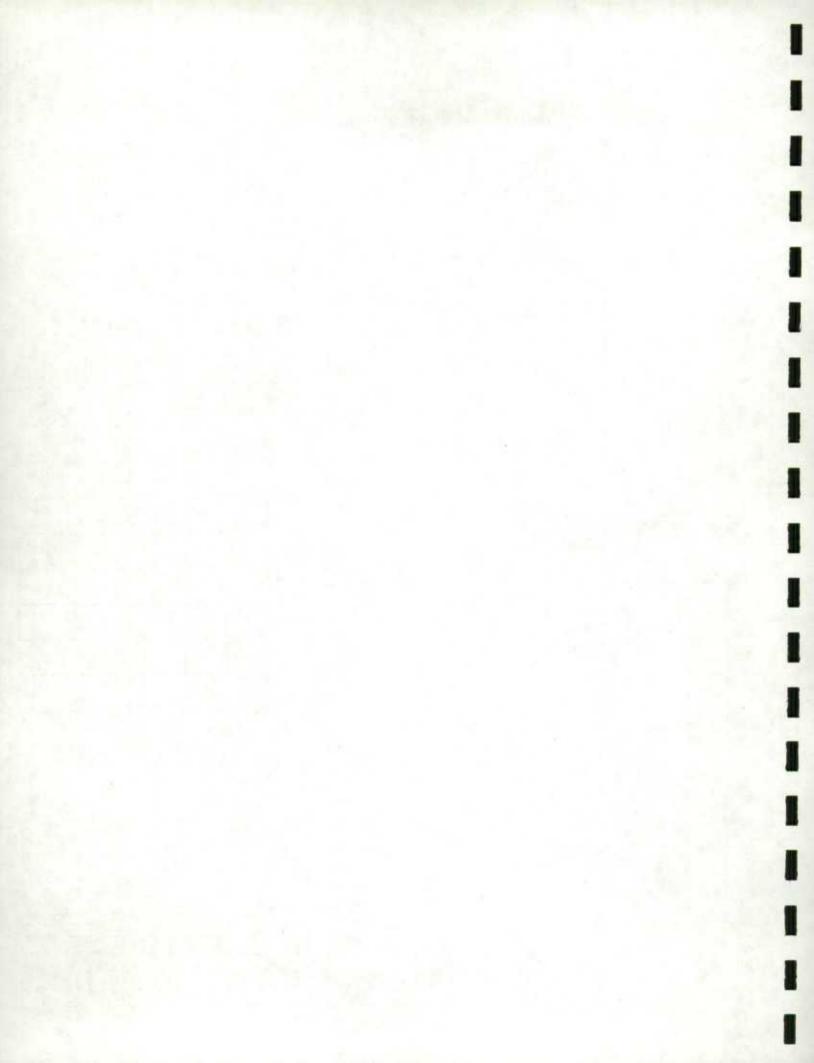
- Estimates of totals in the main body of a statistical table should be rounded to the nearest thousand using the normal rounding technique (see definition below).
- 2. Marginal sub-totals and totals in statistical tables are to be derived from their corresponding unrounded components and then are to be rounded themselves to the nearest thousand units using normal rounding.
- 3. Averages, proportions, rates and percentages are to be computed from unrounded components and then are to be rounded themselves to one decimal using normal rounding.
- 4. Sums and differences of aggregates and ratios are to be derived from corresponding unrounded components and then rounded to the nearest thousand units or the nearest one decimal using normal rounding.
- 5. In instances where due to technical or other limitations, a different rounding technique is used, which results in estimates being released which differ from the corresponding estimates produced by Statistics Canada, users are encouraged to note the reason for such differences in the released document.

#### 9.3.2 Normal Rounding

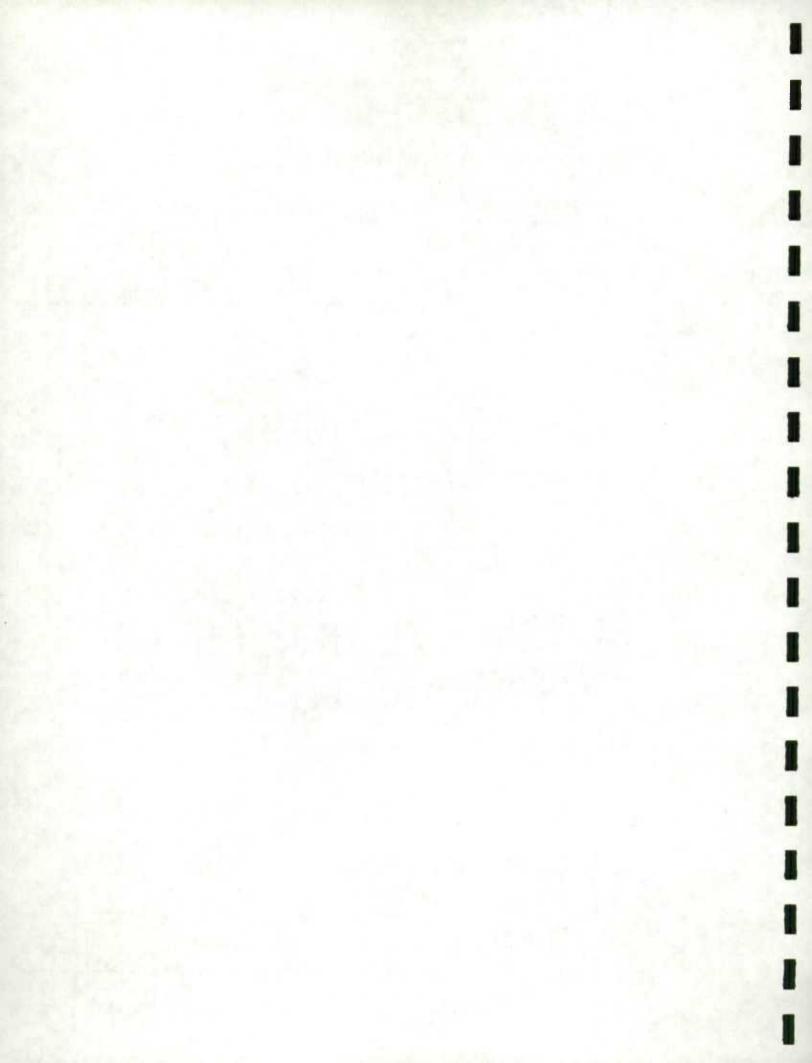
In normal rounding, if the first or only digit to be dropped is 0 to 4, the last digit to be retained is not changed. If the first or only digit to be dropped is 5 to 9, the last digit to be retained is raised by one. For example, the number 8499 rounded to thousands would be 8 and the number 8500 rounded to thousands would be 9.



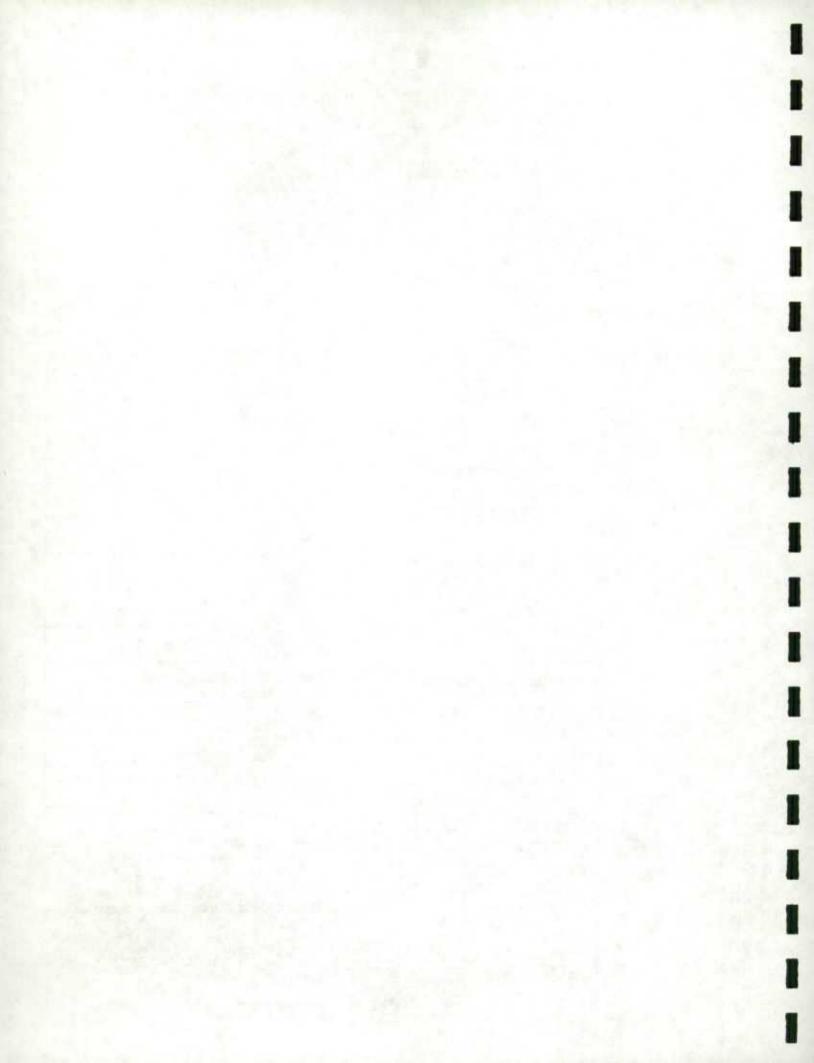
# 10. SURVEY DOCUMENTS



Type of dwelling  Type of dwelling  Emin  Your correct mailing  Address on Form 23  Address on Form 23  SUBSEQUENT INTERVIEW  O the Personal interview  O therwise ask  ARE YOU STILL LIVING IN THE SAME  DWELLING AS LAST MONTHY  where possible, state issing activess  Yes O to 21  No The Following Persons STILL  LIVE OR STAY AT THIS DWELLING?  Read all names in 32  Enter appropriate code in 40  Emic COMPLETE 33 through 40 and go to 42  Interview, go to 42  Answers to supplementally questions  D Answers to supplementally questions
8 Emir India Serial Ser
Ves Go to 13  SUBSEQUENT INTERVIEW  20  If Personal interview  Otherwise ask ARE YOU STALL LIVING IN THE SAME DWELLING AS LAST MONTH?  where possible, state isting address  Yes Go to 21  100 THE FOILDWING PERSONS STALL LIVING IN STALL IN SUBJECT OF PRESONS STALL LIVE OR STAY AT THIS DWELLING?  Read all names in 32  Enter appropriate code in 40  Answers to supplementally substicuts  Answers to supplementally substicuts  Answers to supplementally substicuts
Ves Go to 13  SUBSEQUENT INTERVIEW  O H Personal interview Go to 21  Otherwise ask ARE YOU STILL LIVING IN THE SAME DWELLING AS LAST MONTH?  where possible, state is/ing actives:  Yes Go to 21  No Personal visit required  1 DO THE FOIL DWING PERSONS STILL  1 DO THE FOIL DWING PERSONS STILL  2 I LIVE OR STAY AT THIS DWELLING?  • Read all names in 32  • Enler appropriate code in 40  Wew. COMPLETE 33 Brough 40 and go to 42  Interview. go to 42  SO Answers to supplementally substitions  D L A STAY AT THIS DWELLING.
Ves Go to 13  SUBSEQUENT INTERVIEW  O H Personal interview  O therwise ask ARE YOU STILL LIVING IN THE SAME DWELLING AS LAST MONTH?  where possible, state is/ing actress  Yes Go to 21  1 DO THE FOIL DWING PERSONS STILL  THE POIL DWING PERSONS STILL  Enter appropriate code in 40  Answers to supplementally designs  Answers to supplementally designs  Answers to supplementally designs
SUBSEQUENT INTERVIEW  20  H Personal interview  Otherwise ass.  ARE YOU STALL LIVING IN THE SAME DWELLING AS LAST MONTH?  where possible, state tering address.  Yes Go to 21 No Personal visit required  1 DO THE FOLLOWING PERSONS STILL LIVING?  Read all names in 32  Enler appropriate code in 40  EN. COMPLETE 33 Brough 40 and go to 42  Interview, go to 42  SO Answers to supplementally juestions  D L A STAN THE GREEN AND THE STAN THE
Otherwise ass.  ARE YOU STILL LIVING IN THE SAME DWELLING AS LAST MONTH? where possible state isting address Yes Go to 21 No Personal visit required  1 DO THE FOLLOWING PERSONS STILL LIVE OR STAY AT THIS DWELLING? Read all names in 32 Enler appropriate code in 40  Answers to supplementary Livestons Answers to supplementary Livestons  Answers to supplementary Livestons
Otherwise ask  ARE YOU STALL LIVING IN THE SAME DWELLING AS LAST MONTH?  where possible, state listing actress  2 Go to 21 No Personal visit required  2 DO THE FOILLOWING PERSONS STILL LIVE OR STAY AT THIS DWELLING?  • Read all names in 32  • Enler appropriate code in 40   ew. COMPLETE 33 through 40 and go to 42 attributions, go to 42  Still interview, go to 42  SO Answers to supprementally juestions.
DWELLING AS LAST MONTHY  where possible state ising address  2 Yes Go to 21 No Personal visit required  2 100 THE FOILLOWING PERSONS STILL LIVE OR STAY AT THIS DWELLING?  • Read all names in 32  • Enter appropriate code in 40  ew. COMPLETE 33 through 40 and go to 42 is internew. go to 42  50 Answers to audorementally juestions  D L A TO G D S F G H I L L
Yes Go to 21 No required 2 1 DO THE FOLLOWING PERSONS STILL LIVE OR STAY AT THIS DWELLING?  • Read all names in 32 • Enter appropriate code in 40  ew. COMPLETE 33 through 40 and go to 42 to internew, go to 42  50 Answers to supplementally justions  D L A STATE OF G H I I I I I I I I
e Read all names in 32 e Enter appropriate code in 40  ew. COMPLETE 33 through 40 and go to 42 ti internew. go to 42  50  Answers to supplementally justions  D  L  A  F  G  H  L  1
ew. COMPLETE 33 through 40 and go to 42 ht internew, go to 42  SO Answers to supplementary specions  D L A S S F G H I L
ti interneti. go to 42  50 Answers to supplementally suestions  D  L A B B B F G H I J L
ti interneti. go to 42  50 Answers to supplementally suestions  D  L A B B B F G H I J L
LABSDSFGHIJLL
LASSBSFGHISSL
1
2
2
3
4
5
6
7
8
5 6 7

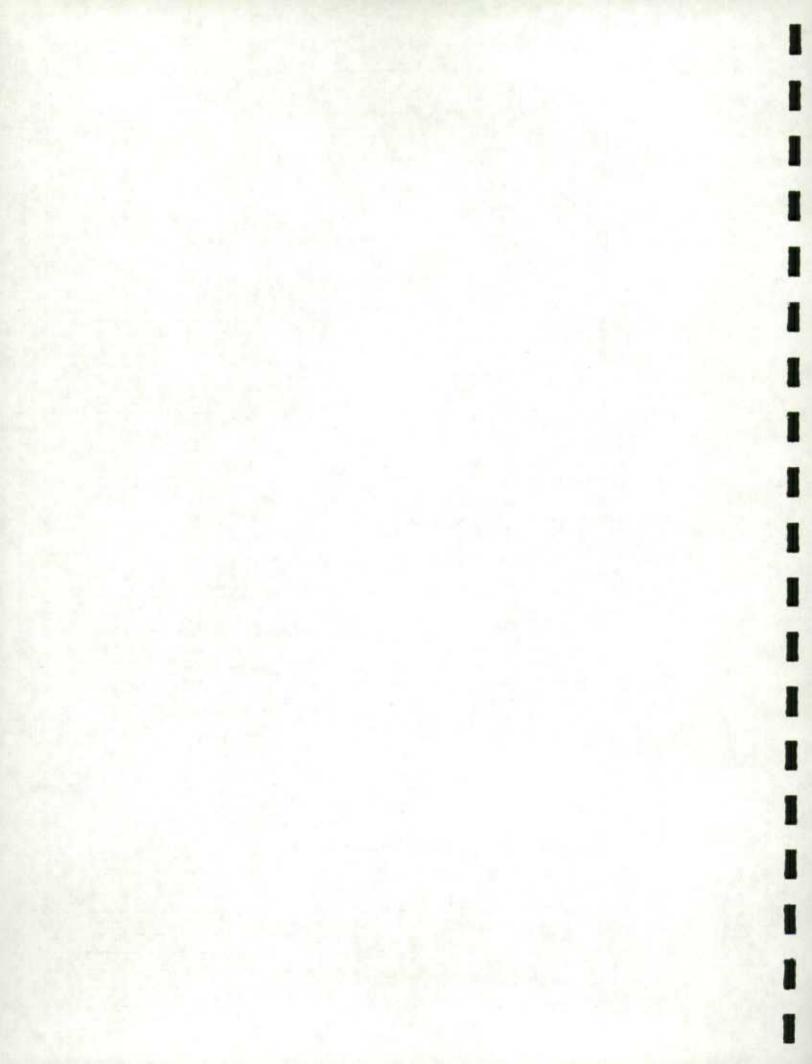


Stanutics Canada StaneRque Canada	LABOUR FORCE SURVEY QUESTIONNA	AIRE CONFIDENTIAL when complised
Occident No. 2	arvey date 3 Assignment No. 4	. 05
HPIC page with No Green name	Mb W Survey	1 годино ОЗ
5 6		
10 LAST WEEK, DID WORK AT A JOB OR BUSINESS? (Regardless of the number of hours.)	30 LAST WEEK, DID HAVE A JOB OR BUSI- NESS AT WHICH HE/SHE DID NOT WORK?	MAS EVER WORKED AT A JOB OR BUSINESS?
PERMANENTLY unable to work. 3 Go to 50	31 LAST WEEK, DID HAVE A JOB TO START	E 1 WHEN DIDLAST WORK AT A JOB OR BUSINESS?
11 DID HAVE MORE THAN ONE JOB OR BUSINESS LAST WEEK?	AT A DEFINITE DATE IN THE FUTURE?	
Ves 1 ○ No 2 ○ Go to 13	32 COUNTING FROM THE END OF LAST WEEK, IN HOW MANY WEEKS WILL START TO	CHANGE IN A STATE OF THE PARTY
12 WAS THIS A RESULT OF CHANGING EMPLOYERS LAST WEEK?	WORK AT HIS/ HER NEW JOB?	52 INTERMENUER CHECK ITEM
wa¹ ○ wo² ○	Go to 50	(2) # 51 is equal to
13 HOW MANY HOURS PER WEEK DOES	33 WHY WAS ABSENT FROM WORK LAST WEEK?	46 "
(Main) JOB? # start 30 or more	34 DID HAVE MORE THAN ONE JOB OR	WEEK?
Other sibs? 90 to 75	BUSINESS LAST WEEK?	Full-terms Pours (Justs then 30 liques per week)
14 WHAT IS THE REASON USUALLY WORKS LESS THAN 30 HOURS PER WEEK?	35 HOW MANY HOURS PER WEEK DOES	54 WHAT WAS THE MAIN REASON WHY LEFT THAT JOB?
Enter Code	USUALLY WORK AT HIS/HER:	Enter code
15 LAST WEEK, HOW MANY HOURS OF OVERTIME OR EXTRA HOURS DID	(Main) JOB? # total 30 or more	55 NTERMEWER CHECK ITEMS  *If 'parm unable to work' in 10 1 go to 80
WORK? //riskure paid and unpeid	Other Jobs? go to 37	◆Otherwise <sup>2</sup> go to 56
16 LAST WEEK HOW MANY HOURS WAS	36 WHAT IS THE REASON USUALLY WORKS	56 IN THE PAST 6 MONTHS, HAS LOOKED FOR WORK?
AWAY FROM WORK FOR ANY REASON? (Holiday, vacation, illness, labour dispute, etc.)	HOURS PER WEEK?  Enter code	Ves 1 No 2 O Go Ro 64
	37 UP TO THE END OF LAST WEEK, HOW MANY WEEKS HAS BEEN CONTINUOUSLY ABSENT	
of nominal robs to 1.8	FROM WORK?	Noting 0 to 62  In the past 4 weeks, mas Done anything else
17 WHAT WAS THE MAIN REASON FOR BEING AWAY FROM WORK?	38 IS GETTING ANY WAGES OR SALARY	TO FIND WORK? Mark all other methods reported.
Erwar cook	OFF LAST WEEK?	WHEN DID LAST ?  (Recent method)
18 HOW MANY HOURS DID ACTUALLY WORK	39 INTERVIEWER CHECK ITEM	Alethod ago (enc)
(Marri JOB?	• if code 5 (layoff) in 33 1 Qpp to 56	Checked with used sey week )  PUBLIC employment AGENCY
Other jobs?	*# code 5 (layor) in 33	PRIVATE employment AGENCY
19 IN THE PAST 4 WEEKS, HAS . LOOKED FOR ANOTHER JOB?	40 IN THE PAST 4 WEEKS, HAS LOOKED FOR ANOTHER JOB?	LIMON "O
ves O No C	_ Yes 1 O _ No 2 O	EMPLOYERS directly
Go & 7.2 DESCRIPTION OF MAI	GO to 72 N JOB OR BUSINESS	FREENDS or relatives
72 FOR WHOM OID WORK? I have or business	government dispit or agency, or person)	Placed or answered ADS  LOOKED at job ADS
		OTHER Specify in NOTES
		58 UP TO THE END OF LAST WEEK, HOW MANY WEEKS
73 WHEN DID START WORKING FOR THIS EMPI	OYER?	(Not counting weeks worked.)
Mb W	Mc Vi II month unknown	59 WHAT WAS MAIN ACTIVITY BEFORE HE/SHE STARTED TO LOOK FOR WORK?
2	erter ·· er month	60 IS LOOKING FOR A JOB TO LAST MORE THAN 6
74 WHAT KIND OF BUSINESS, INDUSTRY OR SERV federal government, canning industry forestry services.		WONTHS?
O.>		(More than 6 months) 16 months or tess) 61 ISLOOKING FOR A FULL-TIME OR PART-TIME JOB?
T >		Full-time 1 Perf-time 2
		(30 or more hours (Less than 30 hours per week) per week)
75 A WHAT KIND OF WORK WAS DOWG? (Give Autorestry technician.)	Il description e.g., office clark, factory worker,	Go to 63
		62 WHAT WAS THE MAIN REASON WHY DID NOT LOOK FOR WORK LAST WEEK?
To be		63 WAS THERE ANY REASON WHY COULD NOT TAKE A
		JOB LAST WEEK? Enter code
758 IN THIS WORK, WHAT WERE MOST IMPORTA (Give full description, e.g., filing documents, drying	INT ACTIVITIES OR DUTIES?	64 INTERMEMER CHECK ITEM
	regression, record cadificati	+# "No" (never worked) ig 50
		• If upper circle in 52 is merhald
		EDUCATIONAL ACTIVITIES (if age 65 or over, 9, 10 90)
76 Day of worker		80 LAST WEEK, WAS ATTENDING A SCHOOL, COLLEGE OF UNIVERSITY?
Mari pe	ar ▶ Erter code	Wes ' ○ No ' ○ Go 10 90
77 Other ob Nc O N	Enter code go to 80	81 WAS ENROLLED AS A FULL-TIME OR A PART-TIME STUDENT?
NCTES		82 WHAT KIND OF SCHOOL WAS THIS?
		Enter code
		INFORMATION SOURCE  90 HRD page-line No. of person providing
		the above information.
		riterview riterview

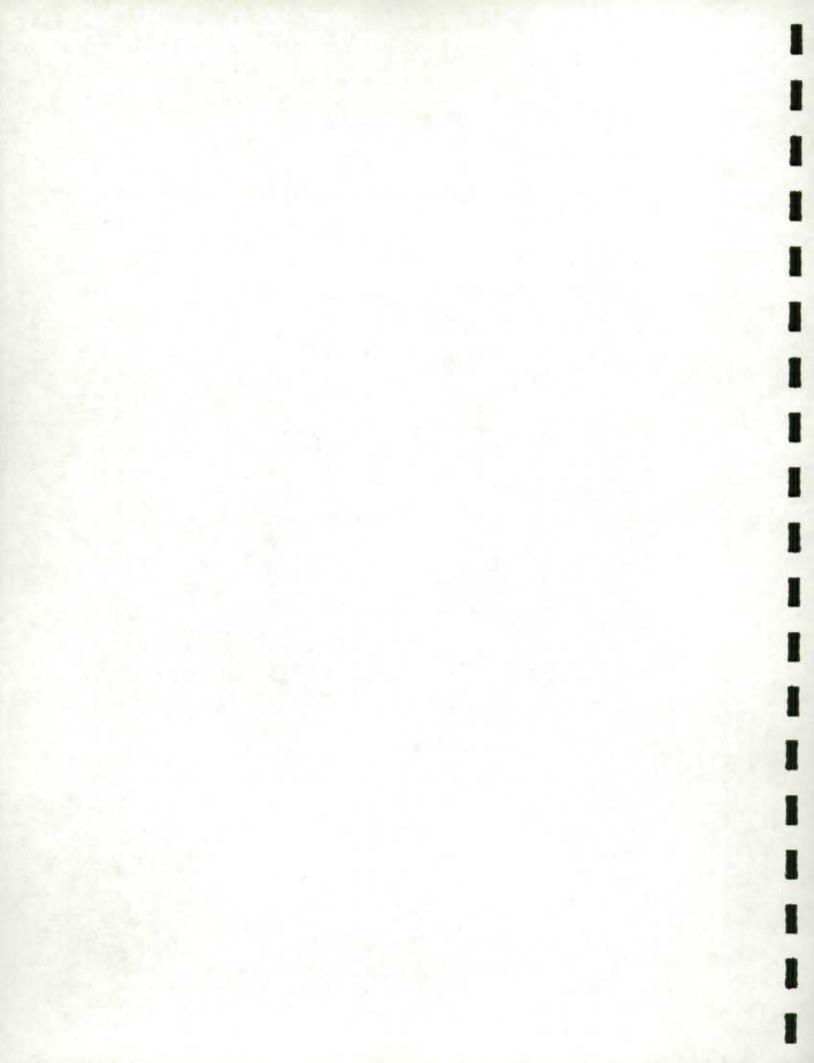


но	USEHOLD SURVEYS DIVISION	and the last the second
SUI	RVEY OF APPRENTICES AND JOURNEYMEN	
6 7	O 6 2 3 1 0 8 8 Survey Date  Survey Date  Survey Date  HRD page-line No  Given Name  Surname  Teiephone no  LL BACK NOTES	INTRODUCTION: APPRENTICESHIP IS A COMBINATION OF ON-THE-JOB AND TECHNICAL TRAINING WHICH LEADS TO CERTIFICATION AS A QUALIFIED JOURNEY-MAN. IN ALBERTA, THE APPRENTICESHIP PROGRAM COMES UNDER THE DIRECTION OF APPRENTICESHIP AND TRADE CERTIFICATION BRANCH OF ALBERTA MANPOWER WHO IS SPONSORING THIS SURVEY. THE SURVEY IS BEING CONDUCTED TO DETERMINE THE NUMBER OF EMPLOYED AND UNEMPLOYED JOURNEYMEN AND APPRENTICES BY TRADE, AND
		THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.
NO		THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  RESPONDENT THREE TELEPHONE CALL BACKS SHOULD
	TE: OBTAIN ANSWERS DIRECTLY FROM EACH BE MADE BEFORE ACCEPTING PROXY RES.  15 A REGISTERED APPRENTICE IN ALBERTA?	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.
	BE MADE BEFORE ACCEPTING PROXY RES	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.
10.	BE MADE BEFORE ACCEPTING PROXY RES	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13
10.	BE MADE BEFORE ACCEPTING PROXY RES.  IS A REGISTERED APPRENTICE IN ALBERTA?	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  TRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE
10.	IS A REGISTERED APPRENTICE IN ALBERTA?  IN WHICH TRADE IS TAKING HIS/HER APPR	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  TRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE
10.	IS A REGISTERED APPRENTICE IN ALBERTA?  IN WHICH TRADE IS TAKING HIS/HER APPR	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE  CAPACITY IN THIS TRADE?  YES NO GO TO 13
10.	BE MADE BEFORE ACCEPTING PROXY RES.  IS A REGISTERED APPRENTICE IN ALBERTA?  IN WHICH TRADE IS TAKING HIS/HER APPR  LAST WEEK DID WORK IN A "HANDS-ON"	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE  CAPACITY IN THIS TRADE?  YES 1 NO CO
10. 11.	IS A REGISTERED APPRENTICE IN ALBERTA?  IN WHICH TRADE IS TAKING HIS/HER APPR  LAST WEEK DID WORK IN A "HANDS-ON"  IS A JOURNEYMAN WITH AN ALBERTA TRA  IN WHICH TRADE DOES HOLD AN ALBERTA	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE  CAPACITY IN THIS TRADE? YES NO GO TO 17
11. 12. 13.	IS A REGISTERED APPRENTICE IN ALBERTA?  IN WHICH TRADE IS TAKING HIS/HER APPR  LAST WEEK DID WORK IN A "HANDS-ON"  IS A JOURNEYMAN WITH AN ALBERTA TRA  IN WHICH TRADE DOES HOLD AN ALBERTA	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE  CAPACITY IN THIS TRADE?  YES NO GO TO 17  A TRADE CERTIFICATE?  ENTER CODE  TRADE CERTIFICATE ENTER CODE OF TRADE WHICH
10. 11. 12. 13.	IS A REGISTERED APPRENTICE IN ALBERTA?  IN WHICH TRADE IS TAKING HIS/HER APPR  LAST WEEK DID WORK IN A "HANDS-ON"  IS A JOURNEYMAN WITH AN ALBERTA TRA  IN WHICH TRADE DOES HOLD AN ALBERTA  IF HOLDS MORE THAN ONE ALBERTA  RESPONDENT FEELS IS HIS/HER MAIN TRADE  LAST WEEK, DID WORK IN A "HANDS-ON"	THE NUMBER OF JOURNEYMEN AND APPRENTICES NOT WORKING IN THEIR TRADE.  PRESPONDENT THREE TELEPHONE CALL BACKS SHOULD PONSE.  YES NO GO TO 13  ENTICESHIP?  ENTER CODE  CAPACITY IN THIS TRADE?  YES O NO GO TO 17  A TRADE CERTIFICATE?  ENTER CODE  TRADE CERTIFICATE ENTER CODE OF TRADE WHICH  CAPACITY IN THIS TRADE?

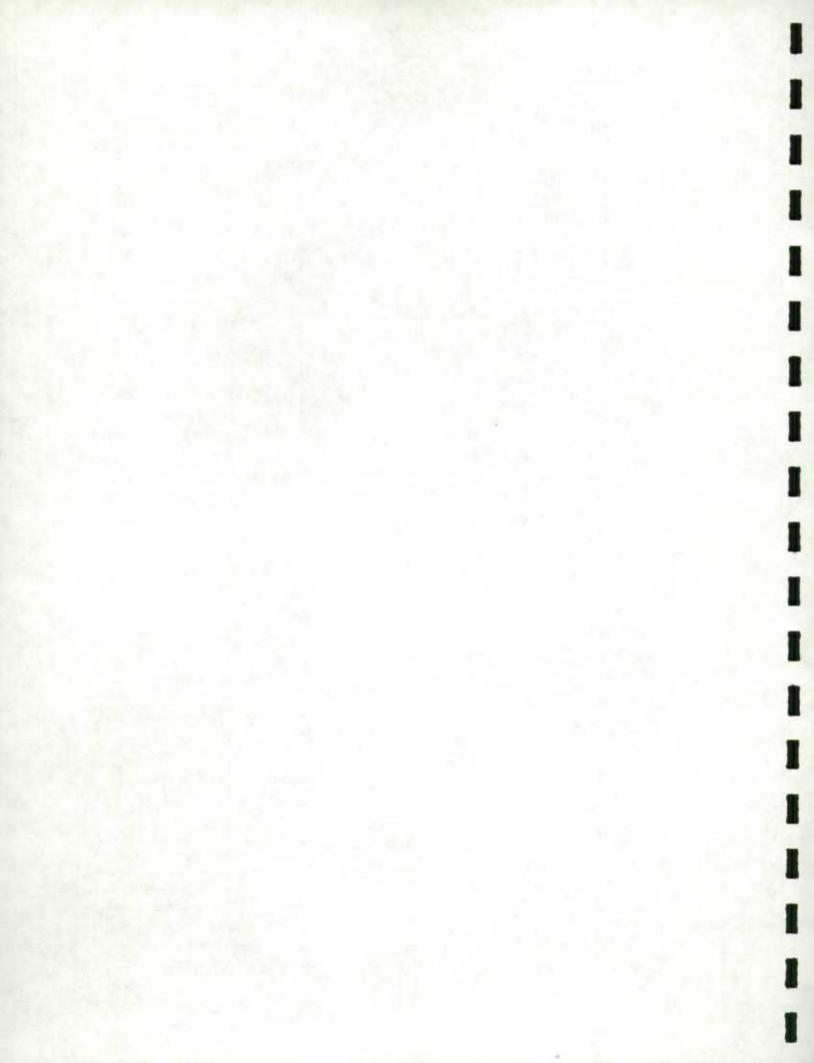
17. INFORMATION SOURCE:	ENTER HRD PAGE-LINE NUMBER OF PERSON PROVIDING THE ABOVE INFORMATION.	
	99 NOTES	See over for additional NOTES
item No	'tem No	
	FRANÇAIS AU VERSO	"Authority - Statistics Act, Chapter 15, Statutes of Canada 1970 - 71 - 72 "



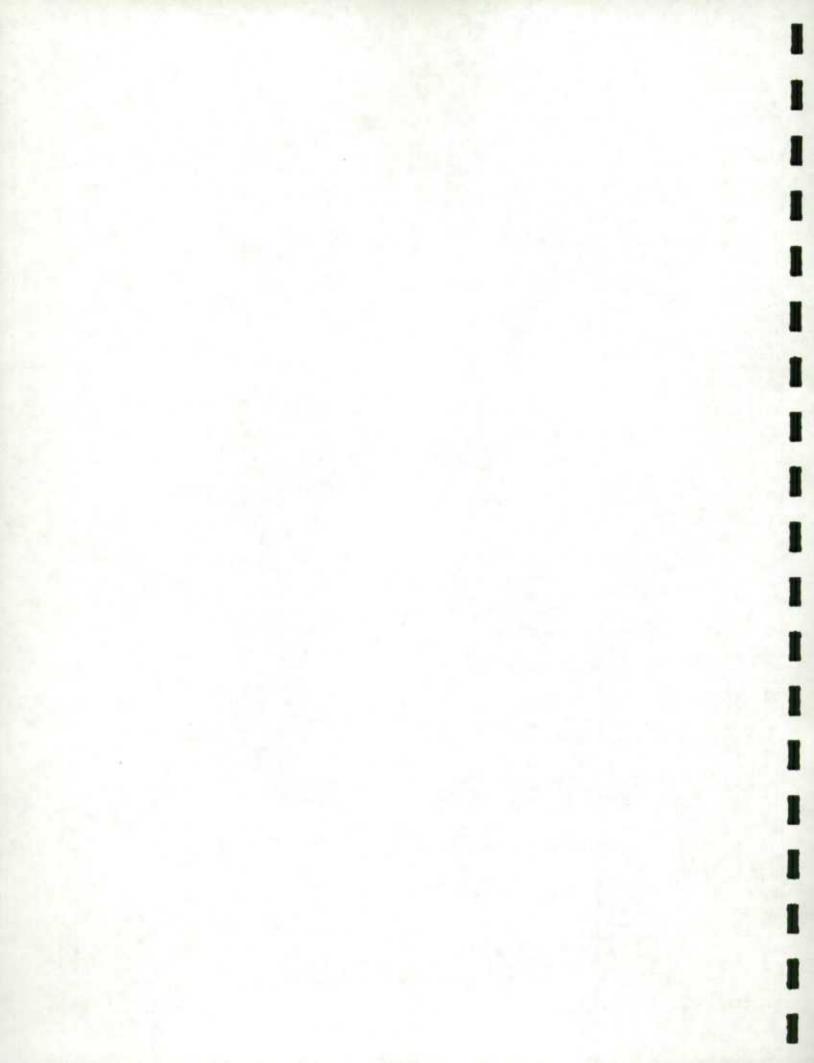
ÉTRE INTERVIEWE, ANGLAIS?  FIANCAIS CLUM  ER TOUTES LES PEI S DE RÉSIDENCE N À 32. SONNES QUI SONT IVAGE DU À L'HÔPI VEZ JES NOMS à 32 et	RE INTERVIEW E) EN  OU BARE   B FUN TO TRAFF  RESONNES QUE D  ABITUALLE AAL	4 I	L INTER angue de ngiais 1	Page	VEUM Verme un mere im 15502	a 12	u mena	5[	Passer 1		2 E E O	ST-CE	QUE A	bary from the property of the	de les les les les les les les les les le		EXACTOR PASS	l'adres sur la l ez à l'i	ormu	1000
PREMIÉ ÉTRE INTERVIEWE ANGLAIST FIANÇAS  L'UN ER TOUTES LES PEI S DE RÉSIDENCE H A 32 SONNES QUI SONT IYAGE DU A L'HÔPI Wez les noms a 32 er	RE INTERVIEW E) EN  OU BARE   B FUN TO TRAFF  RESONNES QUE D  ABITUALLE AAL	10 11.	dresse de L'INTER S Sagnil de logement depuis la con C	Page	WEUM WEUM STREET	a 12	Meno acras	10.20	30	20	2 E 0	SIII	QUE ATTRE AT	bary from the property of the	SE PO		PROCESS OF PASS	l'adres sur la l ez à l'i	ormu	104
PREMIÉ ÉTRE INTERVIEWE ANGLAIST FIANÇAS  L'UN ER TOUTES LES PEI S DE RÉSIDENCE H A 32 SONNES QUI SONT IYAGE DU A L'HÔPI Wez les noms a 32 er	RE INTERVIEW E) EN  OU BARE   B FUN TO TRAFF  RESONNES QUE D  ABITUALLE AAL	10 11.	L INTER S agrid de la logement depuis la comment de la logement de	Page	WEUM WEUM STREET	a 12	e mena	,'O	30	20	0	\$111	Passe INTE	Z & 13	W Sul	¿O	PROCESS OF PASS	l'adres sur la l ez à l'i	ormu	ios rie
PREMISE ETRE INTERVIEWEL ANGLAIST  Francais LES PEI S DE RESIDENCE N 3.2 SONNES OUI SONT IYAGE DU A L HÔPI VEZ JES NOMS à 32 et	RE INTERVIEW E) EN  OUT BARRY  A COUNTY TOURTS  RECONNESS OUR DABITUELLE AAL	11.	Out C MENAC L INTER	P. P	un an ere iai issez WEU/ enven	a 12	e mena	,'O	30	20	0	\$111	Passe INTE	Z & 13	W Sul	¿O	PROCESS OF PASS	l'adres sur la l ez à l'i	ormu	101
PREMIE  ETRE INTERVIEWE ANGLAIST  FIANCAIS  FIANCAIS  ER TOUTES LES PEI S DE RÉSIDENCE N A 32 SONNES OUI SONT IVAGE DU A L'HÔPI VEZ JES NOMS A 32 et	RE INTERVIEW  OUT BATE  A Fun to Faute  RESONNES QUE D  ABITUELLE AAL	DANS GE	Out C MENAC L INTER	P. P	un an ere iai issez WEU/ enven	a 12	e mena	,'O	30	20	0	\$111	Passe INTE	Z & 13	W Sul	¿O	PROCESS OF PASS	l'adres sur la l ez à l'i	ormu	100
ÉTRE INTERVIEWE, ANGLAIS?  FIANCAIS CLUM  ER TOUTES LES PEI S DE RÉSIDENCE N À 32. SONNES QUI SONT IVAGE DU À L'HÔPI VEZ JES NOMS à 32 et	E) EN  OU! BAPE 3  O I IN TO TRAFF  RECONNES OUT D  ABITURELLE ALL	140	MENAC LINTER angue de	GE RVLEI I I HMI	WELW enven	9: */	Nor		30		0	\$111	INTER	RVIEV	w Sul		UENTE	ez à li		
ÉTRE INTERVIEWE, ANGLAIS?  FIANCAIS CLUM  ER TOUTES LES PEI S DE RÉSIDENCE N À 32. SONNES QUI SONT IVAGE DU À L'HÔPI VEZ JES NOMS à 32 et	E) EN  OU! BAPE 3  O I IN TO TRAFF  RECONNES OUT D  ABITURELLE ALL	140	L INTER angue de ngiais 1	P F	rança		'O	Autre	,O,	2			ge d'une	nen-	- bu	-5120	1			
Franças <sup>2</sup> L'un  ER TOUTES LES PEI S DE RÉSIDENCE H  4 32 SONNES QUI SONT IYAGE DU A L HÔPI Vez les noms a 32 er	OUT BAPE TO SOUTH OF THE SOUTH	A A	ngiais 1	OF	rança		20	Autre	°O,	1						SHECK .				
ER TOUYES LES PEI S DE RÉSIDENCE H A 32 ISONNES QUI SONT LY AGE DU À L'HÔPE Vez les noms a 32 et	RSONNES QUI D ABITUELLE AALI	EMEURENT LEURS	ACTUEL		Pass	*					U	EMEU	REZ-VI	OUS E	NCOR	E DAN	IS LE N	ISSOZ I IÉME	121	
S DE RÉSIDENCE H 4-32 ISONNES QUI SONT IYAGE DU À L'HÔP! VEZ IES noms a 32 er	ABITUELLE AILI	LEURS.			ENT		15			4		lorsqu 2	ENT Q	UE LE	MORS confirm	DEFO az Fad	resse d	e kale sile su	piac	O#
VAGE DU A L'HÔPE vez les noms a 32 er	ABSENTES DU									2	41	ES PE	RSON	ez 4 2	HAVIL	Mon	EMEU	COSSAI BENTI		-
	IAL. MAIS OUT	DEMEUREN'	THABITL	JELL	ES S EME	ONT NT H	CI?	ÉTUO	€S.	Ť		LLL 3	ENCOF Ious le	at Un	210 02			,		
ON U NUTHE GOT	EMEURE DANS	CE LOGEMI	Passez a Ent, Pas		EMPL	LE	_	_			•	Inscri	vez ie c	code a	ppropr	né au p	coste 40		_	
CHAMBREUR, UN P	REWPLISSEZ es		OYE?		No	n 2		33 4	r une pr ± 40. pu	S DESS	2 A	4.2				osies				
40 puis passez à 42			33	34	35		37 3	_	une in	-		eque/		-		estions	tuc-e	nentar	es	
Noms des membres	du menage		Âge	8	E. M	F &	e-	Nrv. d'inst	Compo	ostion					1					
		111		٠		m	C	1 2	-		k.	AB	C	0 1	F	9	1	3 8	L	
		1									1				1				1	
											2					П				
1111				-			-	+	+	H	-	+	+	-	+	11	+	-	+	-
		+++	1						11	11	3	1		1					1	
								1	1	T	1		T	1		IT	T		T	-
								-	11	$\perp$	1	1		1	-	Ц	+		1	
1111		111								11	5	1	1				-		1	
		111						+	1	+		+	1	+	+	1	+		+	_
											6					П				
		11									7			1		1			1	
		-		-			+	+	1	+	-	+		+	+	H	-	+	+	
		111									8								1	
	PPARTIENT-IL À UN sez directement FORMULES OS et 06	PPARTIENT-IL À UN MEMBRE DE CI sez directement FORMULES OS et DS  EMPLISSEZ À LA FIN DE L'INTE MENAGES	PPARTIENT-IL À UN MEMBRE DE CE MENAGE?  Sez directement FORMULES OS et DS Non Partiessez la FIEMPLISSEZ À LA FIN DE L'INTERVIEW  MENAGES  Permission d'	Noms des membres du menage  Age  Age  PPARTIENT-IL À UN MEMBRE DE CE MENAGE?  PREZ GIRCTERTIENT FORMULES 05 et 06  Michael Profiles de l'INTERVIEW  MENAGES	PPARTIENT-IL À UN MEMBRE DE CE MENAGE?  Sez directement FORMULES OS et 06 Non Remoissez la FORMULE OM  EMPLISSEZ À LA FIN DE L'INTERVIEW  MENAGES  Permission d'internewer	PPARTIENT-IL À UN MEMBRE DE CE MÉNAGE?  SEL M  EN M  PRARTIENT-IL À UN MEMBRE DE CE MÉNAGE?  SEZ DIRECTORNELES DE PROPRIESSEZ À LA FIN DE L'INTERVIEW  MENAGES  Permassion d'internatives	PPARTIENT-IL À UN MEMBRE DE CE MÉNAGE?  SE U M F A N M M M M M M M M M M M M M M M M M M	Noms des membres du menage  Age  Age  M  Age  M  M  M  M  M  M  M  M  M  M  M  M  M	Noms des membres du menage  Age  Age  Age  Age  Age  Age  Age	Noms des membres du merage  Age  Age  Age  Age  Age  Age  Age	Noms des membres du menage  Age  Age  M  Age  M  M  M  M  M  M  M  M  M  M  M  M  M	Noms des membres du menage  Age s M S S E V D Nov dinst m Nov weck dinst m S C T T S S S E S S S S S S S S S S S S S S	Noms des memores du mer-age    Age   e   M   F   Nov.   Composition	Noms des membres du merage  Age  Age  Age  Age  Age  Age  Age	Noms des membres qui menage  Age	Noms des membres au merage  33 34 35 36 37 38 40 50 Representation of the first state of	Noms des membres du menage  Age  Age  Age  Age  Age  Age  Age	Noms des memores au merage  33 34 35 36 37 38 40 50 Register aux genetiums aux genetiu	Noms des memores du menage  Age e M M Norma des memores du menage  Age e M M M Norma des memores du menage  1 1 2 3 3 4 4 5 5 6 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Noms des memores au ner-age  33 34 35 36 37 38 Nom d'instructions au ner-age  Age of the participation of the part



	QUESTIONNAIRE DE L'ENQUÊTE SUR LA POPULI	THON ACTIVE DOCUMENT CONTRACTS OF THE OWN
V to any type to the form	the free type	1 205
5 6	7	
10 LA SENANE DEPORENE A.T-ELELLET	30 LA SENAME DEPONÈNE. MAUT-EJELLE) UN	50 AT LEWESTER TRANSLE LUNE SERVICE OUT UNE
TRANALLE & UN EMPLOY OU & UNE ENTRE- PRISE? (Pau Importe le recrière d'heures.)  Ou 1 0 100 100 100 100 100 100 100 100 10	ELLEI HA PAR TRANSLET	ENTREPRISES ON THE CONTROL OF THE CO
PORCES OF TRANSPORT OF THE B SE	Out O Passes 333 Nov. 2 O TOTAL	UNE ENTREMUSE LA DEMMENE POIST
11 MANT-ELELLE PLUS D'UN EMPLOI OU PLUS D'UNE ENTREPRISE LA SEMANE DERINÈRE?	31 CA SENDAR DEMANT COMMENCER À UNE DATE PATUME DETERMINÉE? Ou 1 0 mm² 0 Ausur à 50	≈O. ►
a. ( ) ( ) ( )	30 A MATTER DE LA FEN DE SEMANE BERNIÈNE.	52 ATMINISTRICE
12 ETATICE DU À UN CHUNGEMENT D'EMPLOYEUR LA SEMANE DERNIÈRE?	DANS COMBIEN DE SEMANES DOIT- BLELLE COMMENCER À TRANSLER À SON MOLVEL EMPLOI?	(2) 9 8 cm 2 51 cm 2 cm
13 COMBIEN DIVEURES NIN SEMANE . TRA-	33 POUROUGH SEST-LIELLE) ABSENTE(E) DU	Most Arran 30 533
A SON EMPLOI sprooper? 9 is told	TRANSP. LA SEMANE DEPONER à code 9 car 6, page à 32	53 TRANSLAT-RIELLE HABITUELLEMENT 30 HEURES
a d'autres arrotan <sup>1</sup> passac à 18	34 ANT-LIELLE) PLUS D'UN EMPLOI OU PLUS D'UNE ENTREPRESE LA SEMANE	A times plan ( ) A times parted ( ) (200 hourse on ( ) on the control of the control of the control of times of the control of times of ti
14 POUROUGI TRAMELE T-RIELLE I HAM-	DERNIERE?	54 QUELLE EST LA RAISON PRINCIPALE POUR LAQUELLE A LAISSÉ CET EMPLOY?
SEMANET Pachel Is code	35 COMBIEN DHEURES PAR SEMANE TRA-	55 A LINTENENSE
15 LA SEMAINE DERINÉRIE, COMBIEN D'HEURES SUPPLÉMENTAIRES A-T-IL(ELLE) TRA-	A SON EMPLO (pryoper? 8 to eater	*8 Trospecté permanent à 18 1 passe à 80
MALLE? //Conserve or non.	à d'aumen eroctus <sup>®</sup> arr 30 eu pha, passessa à 37	*Africard <sup>2</sup> O passe à 56
16 LA SEMAINE DERINERE COMBIEN D'HEURES A-T-RIELLEI ÉTÉ ABSENTIEI DU TRAMAL	36 POUROUGE TRABILLE T-LIELLE) HASE-	56 AU COURS DES 6 DERVIERS MOIS, BEST-L(ELLE) CHERCHÉ DU TRAMAL?
POUR UNE RAISON QUELCONQUE? (Jour Minds, vecanous, maladis, confilt de treveir, esc.)	SCHEURE'S PAA SEHAINE? Incom	00 0 None 2 64
(Tour les emploie) Pour "auture", resonier 00	37 JUSQU'À LA FIN DE LA SEMAINE DERNIÈRE. PENDANT COMBIEN DE SEMAINES CONSÉ- CUTIVES MAIT-L(ELLE) ÉTÉ ABSENT(E)	POUR SE TROUVER DU TRANAL? Ablez itule methode indicade.
17 QUELLE ÉTAIT LA RAISON PRINCIPALE DE	DU TRAMAL?	AU COURS DES 4 DERNIÈRES SEMANES. A.T-BLIEL- LE) FAIT AUTRE CHOSE POUR SE TROUVER DU TRAMAL?
CETTE ABSENCE?	38 RECOTT-LIELLET UNE RÉMUNÉRATION DE BON EMPLOYEUR POUR SES ABSENCES DE	Note: bute autre méthode indiquée. Pour ofreque méthode donnée, dernématez.  Abritire
18 COMBIEND HEURES A T-ALIELLE) EFFECTI-	LA SENOUNE DERNÉRE?	OUAND     Country     FORS? (Receiver its instructor)  Attended its
A 30N EMPLOI (DYVIDENT)	39 ALINTEMENER	S'out-Rolle) administration employee service d'etc)
a Cadra organi	*9 code 5 (min à piet) è 33	au BUFEAU de procurent PRANC.
19 AU COURS DES 4 DERNIÈRES SEMUNES. S'EST-RUELLE) CHERCHÉ UN AUTRE	40 AU COURS DES 4 DERNIÈRES SEMUNES.  8 EST-8 (ELLE) CHERCHÉ UN AUTRE	aur SMOCK O
EMPLOY? Ou O No. O	EMPLOY? Ou 1 O No. 2 O	discovers a de DALOYEURS
DESCRIPTION DE L'EMPLOI OU DE	ENTIL PRISE (actuale principale):	a das AMS au das poruma A-s Redat public una AMPONCE 7
72 POUR OUR TRANSLULE T-L(ELLE)? (NOTE de	entreprise, de l'organième gouverniemental ou de le	as deports is one ANNONCE
		AUTRE Preceded during the MOTES
		58 AUSOUTÀ LA FIN DE LA SÉMAINE DEPINIÈRE, PENDANT COM- BEN DE SEMAINES ARATI-ALIELLE)
73 OUAND A-T-R/ELLE) COMMENCE À TRAVAS	LER POUR CET EMPLOYEUR?	OHERCHE DU TRAMAL? (No comptant passing assumptions travelless)
Av Die Moss Arres	Mos Arres S is mon our months,	59 QUELLE ÉTANT L'ACTIVITÉ PRINCIPALE DE ARANT QU'ELLE COMMENCE À SE CHERCHER DU TRARAL?
74 DE QUEL GENRE D'ENTREPRISE, D'INDUSTRIE	DUTTE SERVICE STADISSAUTUS 3	60 MONT THENES UN EMPLOY DE PLUE DE 8
74 DE QUEL GENRE D'ENTREPRISE, D'INDUSTRIE (Dannier une dissorption compiète, par all, gouver		On O Hon? O Hon of the most of
		61 CHENCHE TRUTHLES UN EMPLOS À TEMPS PLEM OU
		A tempe pain A tempe person (130 hause are (more de 30 hause
75 A ONE GENERAL STREET		(As an america) per corrected
duane, actricier(ne) forestier(are))	(Per exemple, comme de bureau, se-afeur(m)	62 OUTLIE EST LA RAISON PRINCIPALE POUR LAOUELLE
Au O		TRAMA LA SEMANE DE PROPRETE DE PROPRETE DE CORP.
		63 Y A-T-L UNE RAISON OUR ALRAIT EMPÉCINÉ DE PRENDRE UN EMPLO! LA SEMANE DEPRIÉRE?  PROMÉ D'ORD
758 DANS CE TROMA, QUELLES ETAENT LES MOTE	VITES OU FONCTIONS LES PLUS bourners, Michago de Riguries, estimation fonatible.)	64 LINDHONE
*O.>	CONTROL MONEY OF AGUING, MINNEY PRINCE	*8 "Nor" (brinds seguito) à 50 Unione à 80
(G)		• 89 y s on "2" duris in carchi di hauf ii 52
		ACTIVITE SCOLAIRE (+ 65 ans el plus priser a 9).
76 Categore in Frankley Au D.	[Final Parader]	80 LA BEHANE DERNEÈNE, FRÉQUENTAT-LIELLE) LINE ÉCOLE, UN COLLÈGE
Englo process on Lit		Q 4 FOUT-4 PELES INSCRITTED COMME ETUDIANTIED À
77 Adra ordin Arr Ordinat	Process   Process & 80	PARTIEL? Sten OU A TEMPS A toros 1 A toros 2
MOTES MOTES		82 DE QUEL GENNE D'ÉCOLE S'AGIT-B.7
		SOU-CE DE RENSEIGNEMENTS
		90 If as page-tyre as DM as its passons as a four las
2.500.425.4.446		Tockmeton experient various is full as it is electrical.

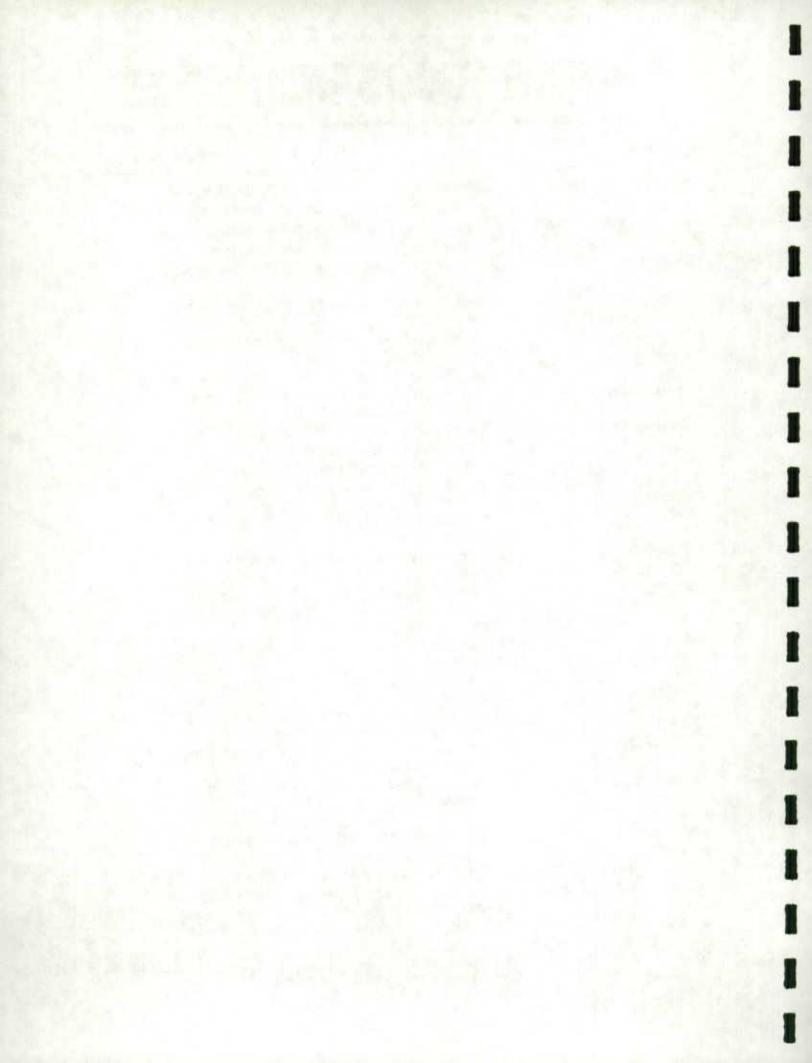


DIVISION DES ENQUÊTES-MÉNAGE		
ENQUÈTE AUPRÈS DES APPRENTIS ET DES MANQEUVRES		
No de la formule No de dossier Date d'enquéte		
4 S S S Nº de page i gne du DM		
6 Prenom 7 Nom de famille		
Notes DE RAPPEL	INTRODUCTION: L'APPRENTISSAGE EST UNE COM- BINAISON DE FORMATION EN COURS D'EMPLOI ET DE FORMATION TECHNIQUE MENANT À UN CERTIFICAT DE COMPÉTENCE. EN ALBERTA, LE PROGRAMME D'APPRENTISSAGE RELÉVE DE L'APPRENTICESHIP AND TRADE CERTIFICATION BRANCH OF ALBERTA MANPOWER, PROMOTEUR DE L'ENQUETE CELLE-CI EST MENÉE POUR DÉTER- MINER LE NOMBRE DE MANOEUVRES ET D'AP- PRENTIS OCCUPÉS ET EN CHÔMAGE, SELON LE MÉTIER, AINSI QUE LE NOMBRE DE MANOEUVRES ET D'APPRENTIS NE PRATIQUANT PAS LEUR MÉTIER.	
NOTA: OBTENEZ LES RÉPONSES DIRECTEMENT DE C		
AVANT D'ACCEPTER UNE DECLARATION PAR PE	RSONNE INTERPOSÉE.	
10 EST-IL(ELLE) UN(E) APPRENTI(E) ENREGISTRE(E) E	N ALBERTA?	
11. DANS QUEL MÉTIER FAIT-IL(ELLE) SON APPRENT		
12. LA SEMAINE DERNIÈRE, A-T-IL(ELLE) PRATIQUE S		
13 EST-IL(ELLE) UN MANOEUVRE TITULAIRE D'UN C		
14. DANS QUEL MÉTIER EST-IL(ELLE) TITULAIRE D'UN	N CERTIFICAT DE COMPÉTENCE DE L'ALBERTA?	
SI EST TITULAIRE DE PLUS D'UN CERTIFICAT D DU MÉTIER QUE L'ENQUÊTÉ(E) CONSIDÈRE COMME	INSCRIVEZ LE CODE  E COMPÉTENCE DE L'ALBERTA, INSCRIVEZ LE CODE  SON MÉTIER PRINCIPAL	
15. LA SEMAINE DERNIÈRE A-T-IL(ELLE) PRATIQUE S		
16 A-T-IL(ELLE) PRATIQUÉ SON MÉTIER À UN MOM		
17. SOURCE D'INFORMATION: INSCRIVEZ LE NUMÉRO DE LA PERSONNE FOU. CI-DESSUS	DE LA PAGE-LIGNE DU DM RNISSANT LES INFORMATIONS	,
99 NO.	TES Servez-vous du verso pour NOTES supplémentaires	
N° de poste	N: de poste	
SEE BEVERSE END END	*Déclaration exigee en vertu de la loi sur la statistique	

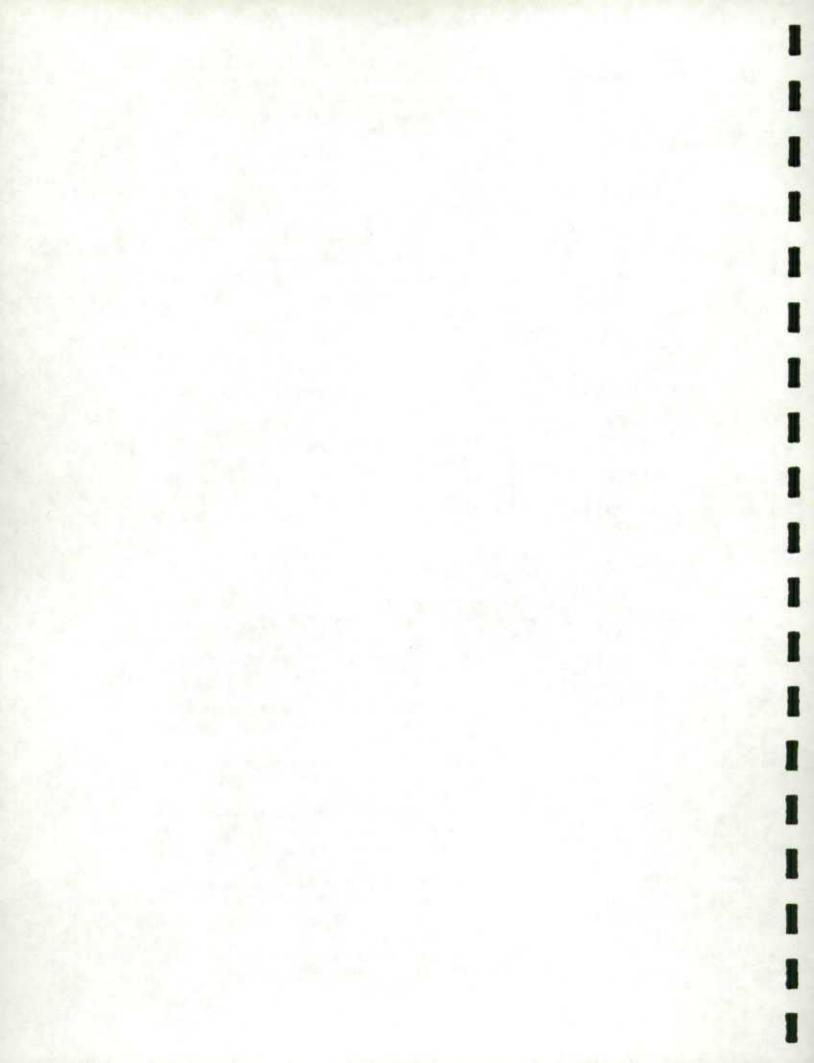


# Apprenticeship Trades

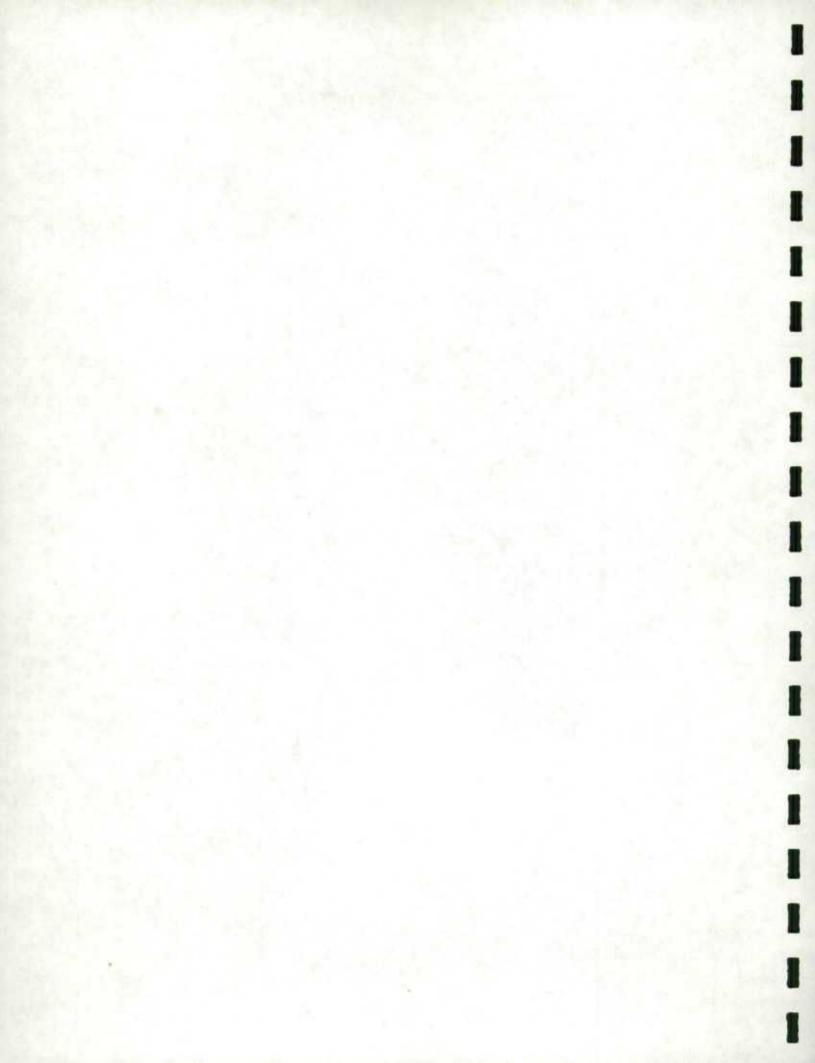
Code	Name of Trade	Description	CODE SHEET
01	Agricultural Mechanic	Services, repairs, and sets up agricultural machines.	
02	Appliance Serviceman	Repairs and services household appliances.	
03	Auto Body Mechanic (P)	Repairs and refinishes automobile bodies.	
04	Baker	Makes bread, pastries, cookies, and cakes.	
05	Barber (P)	Cuts, trims, waves, and colours hair; shaves beards, mustaches, etc.	
06	Beautician (P)	Cuts, trims, waves, and colours hair; gives facial treatments, etc.	
07	Boilermaker	Builds, tests, and repairs airtight and liquid-tight containers	
08	Bricklayer	Lays brick, hollow tile, and concrete block for buildings or other structures.	
09	Cabinetmaker (1)	Builds custom or production-typ furniture of wood and wood sub	
10	Carpenter	Works with wood and wood sub construction of buildings and or	
11	Cement Finisher	Places, finishes, cuts, and repa	
12	Communication Electrician	Installs, services, and repairs to and related communication sys	
13	Cook	Prepares food and meals in hotels, restaurants, and institutions.	
14	Electrical Rewind Mechanic	Repairs and rebuilds electric manufactures, controls, and other	
15	Electrician (P)	Installs, alters, repairs, and maintains electrical systems in buildings to supply heat, light, power, controls, signal or fire alarms.	
16	Electronic Technician (P)	Services and repairs radio and equipment.	television-receiving
17	Elevator Constructor (P)	Installs, repairs, and maintains moving walkways, etc.	elevators, escalators,
18	Floorcovering Mechanic	Installs many types of resilient coverings in buildings.	and carpet floor
19	Gasfitter (P)	Installs piping and appliances finatural and propane gas.	or heating with
20	Glassworker	Cuts and installs glass for wind curtain-wall building construction	
21	Heavy Duty Mechanic (P)	Services and repairs construction industrial mobile and stationary	
22	Heavy Equipment Operator (2)	Operates power cranes or mob swing materials during constru	ile cranes to lift;and
23	Instrument Mechanic	Maintains, services, repairs, an and control instruments used in	d installs measuring
24	Insulator	Installs insulation materials in dindustrial structures.	
25	Ironworker	Builds, erects, constructs, and on buildings, bridges, and tower	



	Code	Name of Trade	Description	CODE SHEET
	26	Landscape Gardener	Grows, installs, and maintigrasses in all environment	·
	27	Lather-Interior Systems Mechanic	Installs metal, plaster lath, construction of buildings.	
	28	Machinist	Works with metals and op shaping machinery.	erates metal-cutting and
	. 29	Millwright	Installs and maintains ma other production plants.	chinery in factories and
	30	Motorcycle Mechanic (P)	Assembles, services, and single-tracked motor vehic	
	31	Motor Mechanic (P)	Services and repairs auto	mobiles.
	32	Painter and Decorator		d wallpaper to interior and , and to other fittings and furnishings.
	33	Partsman	Stores and dispenses aut farm machinery parts.	omotive, heavy duty, or
	34	Plasterer	Applies plaster and stucc	o including decorative finishes.
ı	35	Plumber (P)	Installs water services and	d sanitary drainage.
l.	36	Power Lineman	Constructs, maintains, or transmission or distribution	
	37	Power System Electrician	Constructs or maintains e system and power station and control apparatus.	electrical utility power equipment, or metering, protection.
1	38	Printing and Graphic Arts Craftsman	Prepares, produces, and	finishes printed material.
,	39	Recreation Vehicle Mechanic (P)	Repairs mobile motor hor	mes and recreation vehicles.
ı	40	Refrigeration Mechanic (P)	Installs and services refrie conditioning systems.	gerating and air
I	41	Roofer	Installs and maintains but roof coverings, shakes, sh	ilt-up roofs, composition ningles, and plastic membranes.
	42	Sawfiler		ens band saws, chain saws, , and other types of saw blades.
1	43	Sheet Metal Mechanic (P)		lls, and repairs ducts and ating, air conditioning, exhaust, and
ı	44	Sprinkler Fitter	Installs and maintains fixe	ed fire extinguishing systems.
	45	Steamfitter-Pipefitter (P)	Installs steam and hot wa industrial process piping	9 /
	46	Steel Fabricator		ation, preparation, layout, uctural and miscellaneous
ı	47	Tilesetter	Works with ceramic tile, t	erazzo, and marble.
	48	Tool and Die Maker	· ·	s jigs, fixtures, gauges, dies, rarious types of small mechanical
-	49	Transport Refrigeration Mechanic	Installs, repairs, and main units used to haul perish	ntains equipment in mobile able loads.
	50	Water Well Driller	Drills, installs, and service and services water well p	es water wells and installs oumps.
	51	Welder (P)	Joins metal by fusion usi electric arc, or other welc	
S	52	Other Trade	Specify in notes	A CONTRACTOR OF THE PARTY OF TH

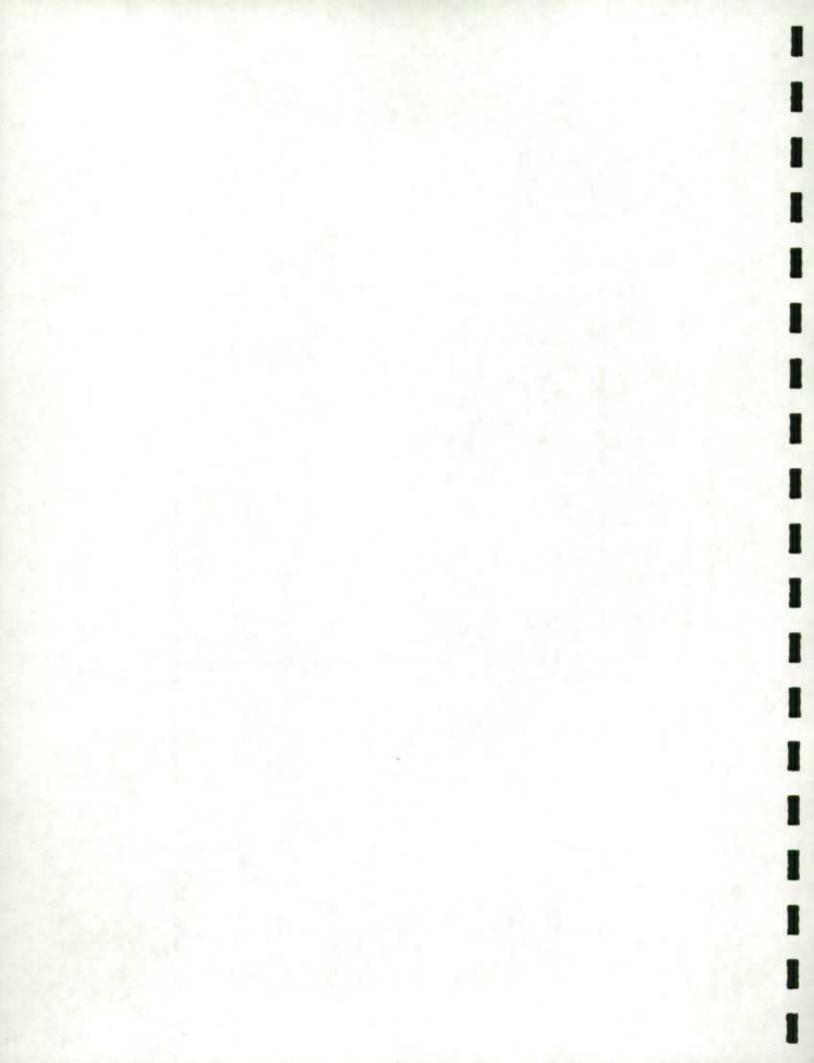


# 11. RECORD DESCRIPTION



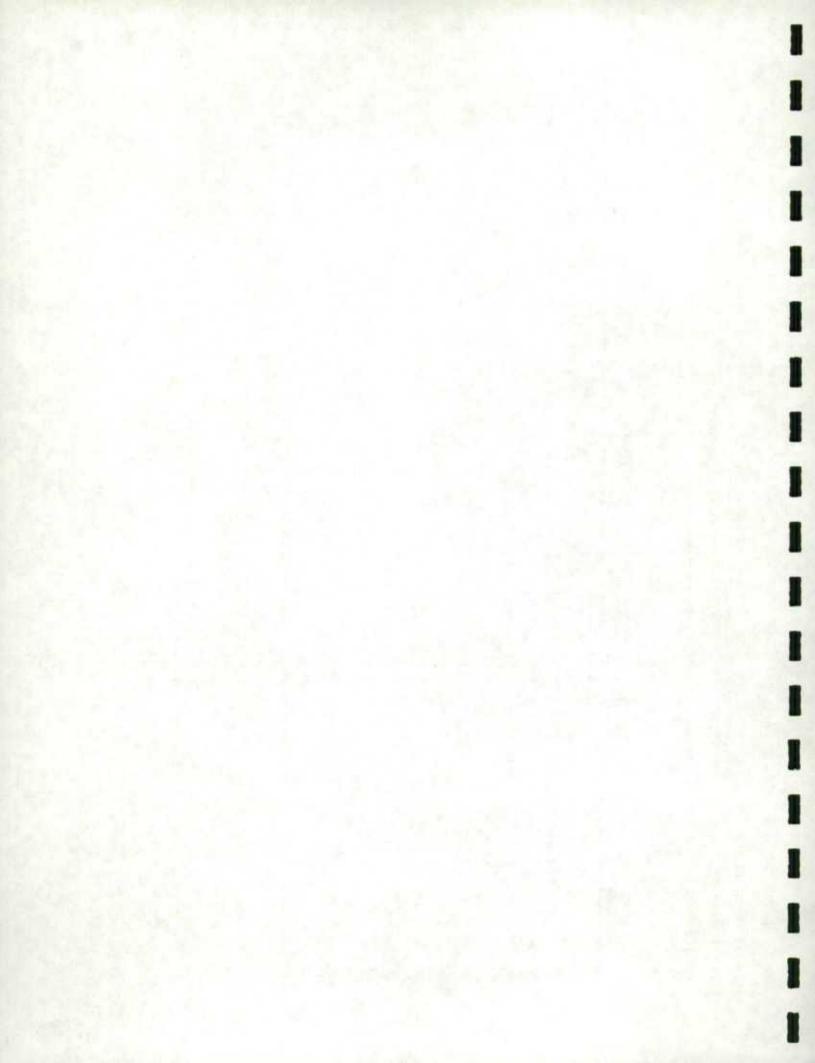
FIE	LD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS
	1	RECNO	6	0001-0006	RECORD NUMBER
	2	SURDTE	4	0007-0010	SURVEY DATE (MMYY)
	3	PROV	2	0011-0012	REGION AND PROVINCE 01 AREA 1 02 AREA 2 03 AREA 3
	4	FILLER	1	0013	FILLER
	5	MARSTAT	1	0014	MARITAL STATUS 1 MARRIED 2 SINGLE 3 OTHER
	6	RELHD	. 1	0015	RELATIONSHIP TO HEAD OF FAMILY  1 HEAD  2 SPOUSE  3 SON-DAUGHTER  4 PARENT (IN-LAW)  5 SON-DAUGHTER (IN-LAW)  6 OTHER RELATIVE
	7	AGE	1	0016	AGE GROUP 1 15-24 YEARS 2 25-44 YEARS 3 45-64 YEARS 4 65 YEARS AND OVER
	8	EDUCER	1	0017	EDUCATION  1 NONE OR ELEMENTARY  2 HIGH SCHOOL (SOME OR COMPLETED)  3 SOME POST-SECONDARY  4 POST-SECONDARY CERT. OR DIPLOMA  5 UNIVERSITY
	9	ACTIV	1	0018	ACTIVITY IN REFERENCE WEEK  1 AT WORK  2 NOT AT WORK, HAS A JOB  3 NOT AT WORK, NO JOB  4 PERMANENTLY UNABLE TO WORK
	10	MULTIJOB	1	0019	MULTIPLE JOB HOLDER 1 YES 2 NO

PAGE



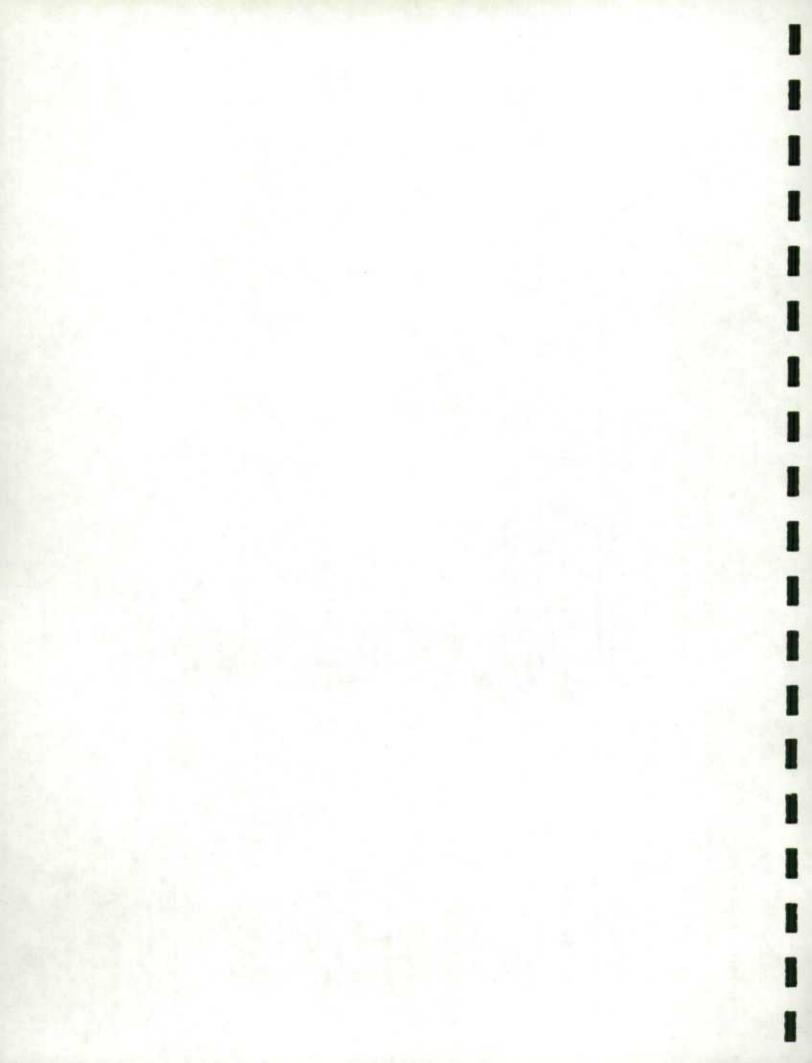
FIELD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS
11	TOTHRSHK	2	0020-0021	TOTAL USUAL HOURS WORKED 00:65
12	<b>М</b> НҮРТ	1	0022	REASON FOR PART-TIME WORK BLANK 1 PERSONAL OR FAMILY RESPONSIBILITIES 2 GOING TO SCHOOL 3 COULD ONLY FIND PART-TIME WORK 4 DID NOT WANT FULL-TIME WORK 5 OTHER REASONS
13	EXTRHRS	2	0023-0024	EXTRA HOURS WORKED BLANK 00:30
14	HRSLOST	2	0025-0026	HOURS LOST BLANK 00:41
15	HHYLOSS	1	0027	REASONS FOR TIME LOSS BLANK  1 ILLNESS OR DISIBLITY OR PERSONAL  2 BAD WEATHER  3 LABOUR DISPUTE  4 LAYOFF  5 LOST JOB/NEW JOB  6 VACATION  7 WORKING SHORT-TIME  8 OTHER
16	STARTJOB	2	0028-0029	WEEKS UNTIL NEW JOB STARTS BLANK 00:13
17	HRSHRKED	2	0030-0031	TOTAL ACTUAL HOURS WORKED  BLANK  00:65
18	PAIDOFF	1	0032	WAGES OR SALARY FOR TIME OFF BLANK 1 YES 2 NO
19	WKSOFF	2	0033-0034	WEEKS OF CONTINUOUS ABSENCE BLANK 00:18

PAGE



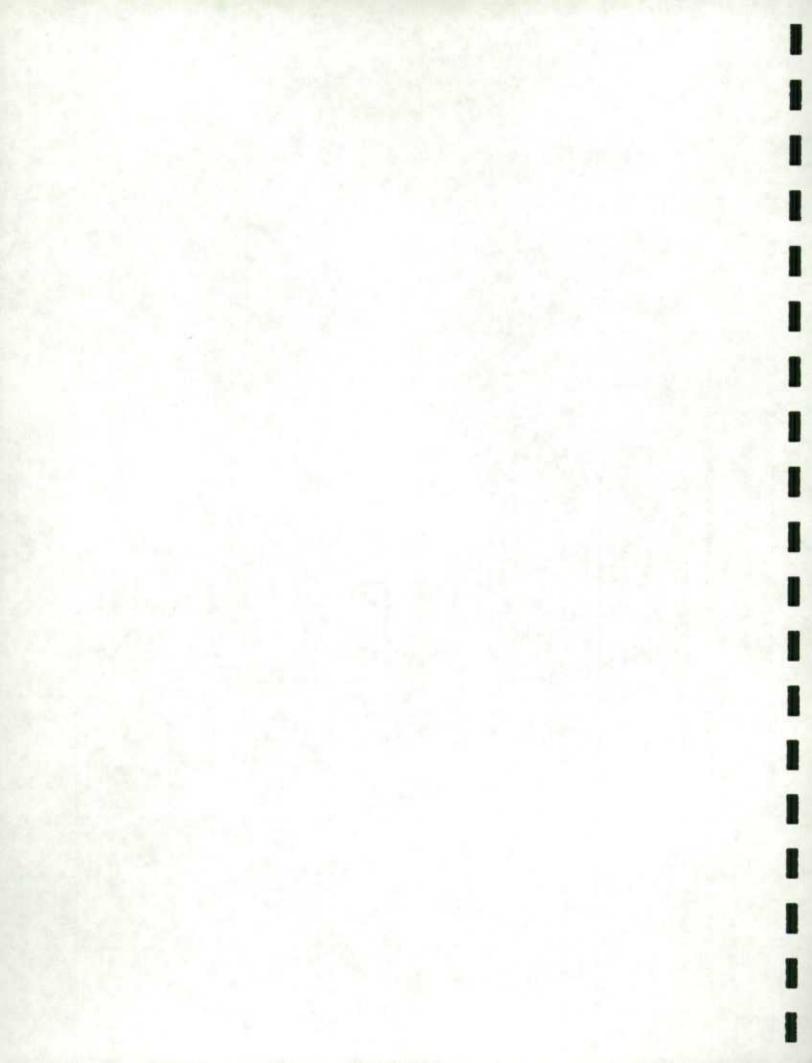
FIELD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS
20	LOOKED6M	1	0035	LOOKED FOR WORK IN PAST SIX MONTHS BLANK 1 YES 2 NO 3 N/A
21	LOOKED4H	1	0036	LOOKED FOR WORK IN PAST FOUR WEEKS 1 YES 2 NO
22	HOHLOOK 1	1	0037	METHODS USED: CONTACTED EMPLOYERS BLANK 1 YES 2 NO
23	HOHLOOK2	1	0038	METHODS USED: USED PUBLIC EMPLOYMENT AGENCY BLANK 1 YES 2 NO
24	HOMLOOK3	1	0039	METHODS USED: LOOKED AT ADS BLANK 1 YES 2 NO
25	HOHLOOK4	1	0040	METHODS USED: USED OTHER METHODS BLANK ' 1 YES 2 NO
26	LOOKING	2	0041-0042	WEEKS LOOKING FOR WORK BLANK 01:39
27	MHYLEAVE	1	0043	REASON FOR LEAVING LAST JOB BLANK 1 ILLNESS OR DISABILITY 2 PERSONAL OR FAMILY RESPONSIBILITIES 3 GOING TO SCHOOL 4 LOST JOB OR LAID OFF 5 RETIRED 6 OTHER REASONS 7 LAST WORKED MORE THAN 5 YEARS AGO 8 NEVER WORKED
28	DOBEFORE	1	0044	ACTIVITY BEFORE STARTED LOOKING FOR WORK BLANK HORKING KEEPING HOUSE SCHOOL

PAGE 3



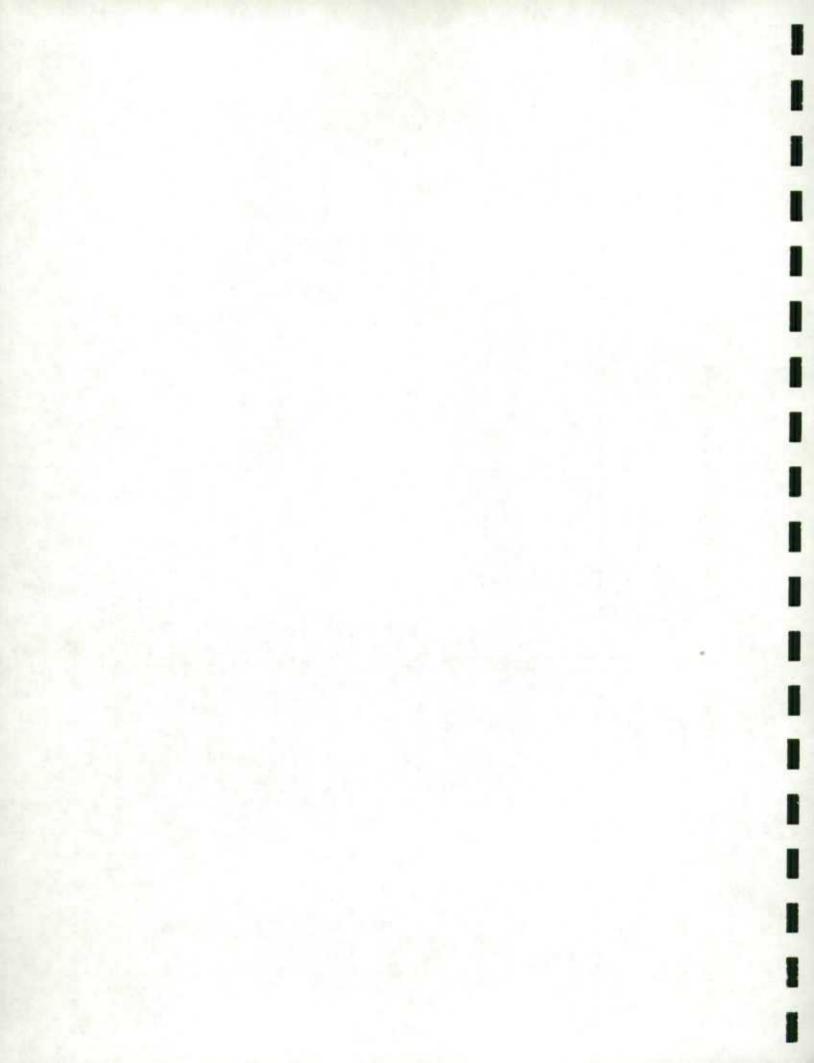
FIELD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS
28	DOBEFORE	1	0044	ACTIVITY BEFORE STARTED LOOKING FOR WORK 4 OTHER
29	MRKSGHT	1	0045	TYPE OF WORK SOUGHT BLANK 1 FULL-TIME, PERMANENT 2 FULL-TIME, TEMPORARY 3 PART-TIME, PERMANENT 4 PART-TIME, TEMPORARY
30	WHYNOTLK	1	0046	REASON FOR NOT LOOKING IN REFERENCE WEEK BLANK 1 ILLNESS OR PERSONAL RESPONSIBILITIES 2 AT SCHOOL 3 NO LONGER INTERESTED OR FOUND JOB 4 AWAITING RECALL OR REPLY 5 BELIEVES NO WORK AVAILABLE 6 OTHER REASONS
31	AVAILWRK	1	0047	AVALIBILITY FOR WORK BLANK 1 NOT AVAILABLE; GOING TO SCHOOL 2 NOT AVAILABLE; OTHER REASONS 3 AVAILABLE
32	INSCHOOL	1	0048	SCHOOL ENROLMENT BLANK  1 NOT ENROLLED 2 PRIMARY OR SECONDARY 5 UNIVERSITY, FULL-TIME 4 UNIVERSITY, PART-TIME 5 COMMUNITY COLLEGE, FULL-TIME 6 COMMUNITY COLLEGE, PART-TIME 7 OTHER, FULL-TIME 8 OTHER, PART-TIME
33	FILLER	1	0049	FILLER
34	TYPJOB	1	0050	TYPE OF JOB (PRESENT OR PREVIOUS)  1 FULL-TIME 2 PART-TIME 3 N/A
35	LFSTATUS	1	0051	LABOUR FORCE STATUS 1 EMPLOYED 2 UNEMPLOYED 3 NOT IN LABOUR FORCE

\*\* CONTINUED \*\*



FIELD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	PAGE
36	CLSHKER	1	0052	CLASS OF WORKER 1 PAID 2 OTHER	
37	IND	2	0053-0054	INDUSTRY  01 AGRICULTURE  02 OTHER PRIMARY  03 MANUFACTURING, NON-DURABLES  04 MANUFACTURING, DURABLES  05 CONSTRUCTION  06 TRANSPORTATION, ETC.  07 WHOLESALE TRADE  08 RETAIL TRADE  09 FINANCE, ETC.	••
				10 COMMUNITY SERVICES 11 PERSONAL SERVICES 12 BUSINESS AND MISC. SERVICES 13 PUBLIC ADMINISTRATION 14 NEVER WORKED 15 LAST WORKED MORE THAN 5 YEARS AGD 16 PERMANENTLY UNABLE TO WORK	
38	occ	2	0055-0056	OCCUPATION 01 MANAGERIAL 02 PROFESSIONAL 03 TEACHING 04 MEDICINE 05 CLERICAL 06 SALES 07 SERVICES 08 PRIMARY OCCUPATIONS 09 MINING, PROCESSING, MACHINING 10 FABRICATION 11 CONSTRUCTION 12 TRANSPORTATION, MATERIALS HANDLING, OTHER CRAFTS	
				13 NEVER WORKED BEFORE 14 LAST WORKED MORE THAN 5 YEARS AGO, OR PERMANENTLY UNABLE TO WORK	
39	DURUNEMP	2	0057-0058	DURATION OF UNEMPLOYMENT BLANK 00:53	
40	TENURE	1	0059	JOB TENURE BLANK 1 1-6 MONTHS 2 7-12 MONTHS 3 1-5 YEARS 4 6-10 YEARS	

-



FIELD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS
40	TENURE	1	0059	JOB TENURE
				5 11-20 YEARS
				6 OVER 20 YEARS
41	DURNOJOB	1	0060	DURATION OF JOBLESSNESS
				BLANK
				1 0-1 MONTH
				2 1-3 MONTHS
				3 4-6 MONTHS
				4 7-12 MONTHS
				5 13-24 MONTHS
				6 2-5 YEARS
				7 6-10 YEARS
				8 OVER 10 YEARS
42	DURLSTHK	1	0061	DURATION OF PREVIOUS JOB
				BLANK
				1 NEVER WORKED
				2 1-3 MONTHS
				3 4-6 MONTHS
				4 7-12 MONTHS
				5 1-5 YEARS
				6 OVER 5 YEARS
43	FLOMS	1	0062	FLOWS INTO UNEMPLOYMENT
				BLANK
				1 JOB LOSERS
				2 JOB LEAVERS
				3 NEW ENTRANTS
				'4 RE-ENTRANTS-ONE YEAR OR LESS
				5 RE-ENTRANTS-GREATER THAN 1 YEAR
44	FILLER	33	0063-0095	FILLER
45	910	1	0096	IS A REGISTERED APPRENTICE IN ALBERTA?
				1 YES
				2 NO
				O NOT STATED
				BLANK
46	Q11	2	0097-0098	IN WHICH TRADE IS TAKING HIS/HER
			*****	APPRENTISHIP?
		6		01 CONSTRUCTION TRADE
				02 ELECTRICAL TRADE
				03 INDUSTRIAL TRADE
				04 MECHANICAL TRADE
				05 METAL TRADE
				06 PIPING TRADE
				07 SERVICE TRADE
	7			08 OTHER TRADE

PAGE

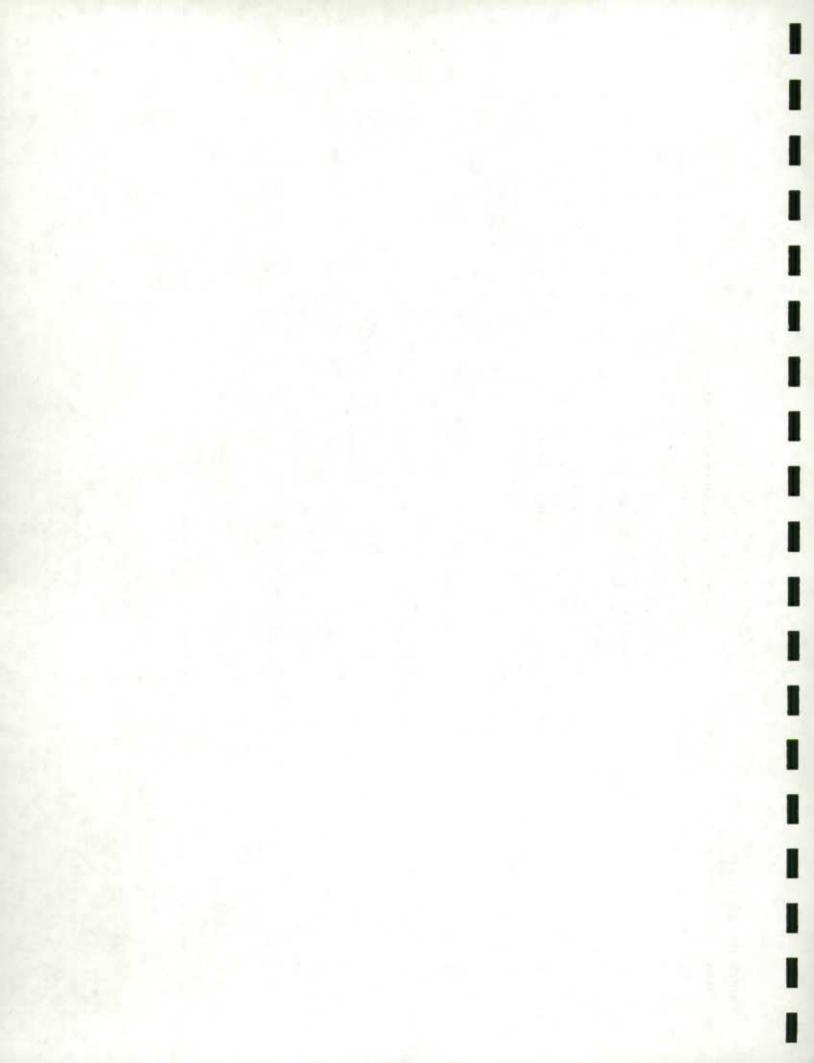
\*\* CONTINUED \*\*

			_
			10.00
			S-100
	12		
			_
			-
			100
			1.00
			7
			_
			-
			ı
			ı
			ı
			I
			ı
			I

FIELD	ACRONYM	LENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS
46	Q11	2	0097-0098	IN WHICH TRADE IS TAKING HIS/HER APPRENTISHIP?
				09 NOT STATED 00 NOT APPLICABLE
47	<b>Q12</b>	1	0099	LAST WEEK DID WORK IN A "HANDS-ON" CAPACITY IN THIS TRADE? 3 YES 4 NO 0 NOT STATED
				BLANK
48	Q13	1	0100	IS A JOURNEYMAN WITH AN ALBERTA TRADE CERTIFICATE?
				5 YES
				6 NO
				0 NOT STATED BLANK
49	Q14	2	0101-0102	IN WHICH TRADE DOES HOLD AN ALBERTA TRADE
				CERTIFICATE?
				01 AGRICULTURAL MECHANIC
				02 APPLIANCE SERVICEMAN
				03 AUTO BODY MECHANIC
				04 BAKER
				05 BARBER
				06 BEAUTICIAN
				07 BOILERMAKER
				08 BRICKLAYER -09 CABINETMAKER
				10 CARPENTER
				11 CEMENT FINISHER
				12 COMMUNICATION ELECTRICIAN
				13 COOK
				14 ELECTRICAL REWIND MECHANIC
				15 ELECTRICIAN
				16 ELECTRONIC TECHNICIAN
				17 ELEVATOR CONSTRUCTOR
				18 FLOORCOVERING MECHANIC
				19 GASFITTER
				20 GLASSHORKER
				21 HEAVY DUTY MECHANIC
		•		22 HEAVY EQUIPMENT OPERATOR
				23 INSTRUMENT MECHANIC
				24 INSULATOR
				25 IRONWORKER
				26 LANDSCAPE GARDENER
				27 LATHER-INTERIOR SYSTEMS MECHANIC
				28 MACHINIST
				29 MILLWRIGHT

PAGE 7

\*\* CONTINUED \*\*



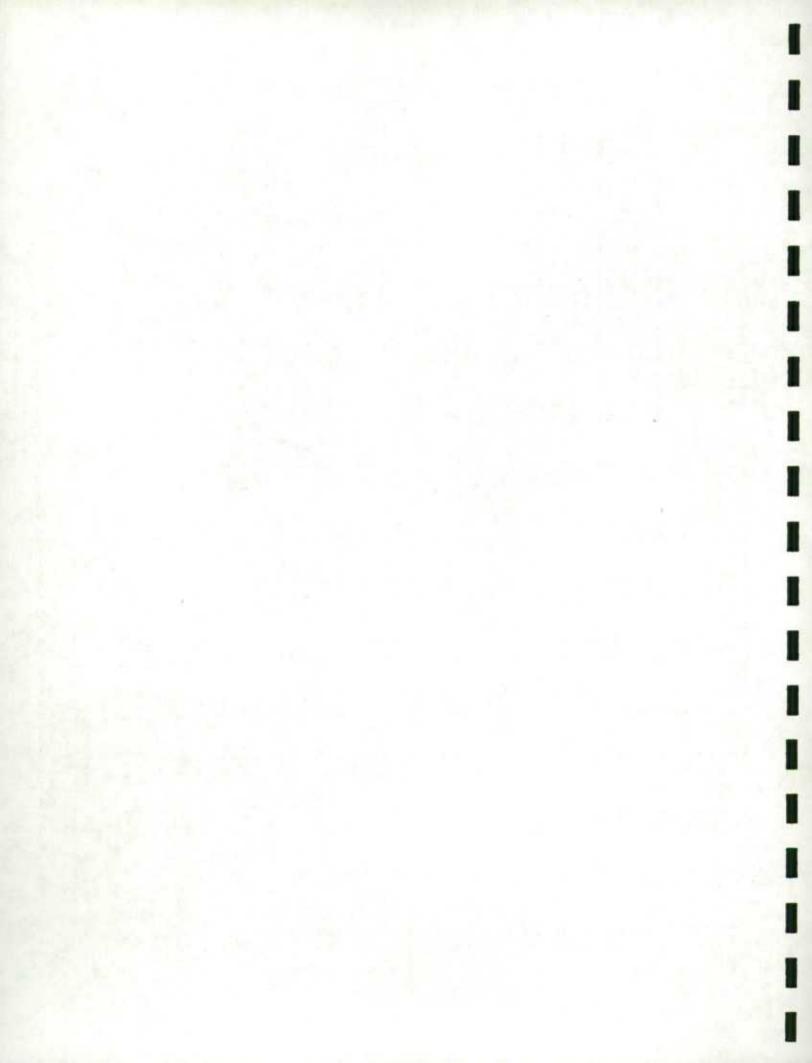
FIELD	ACRONYH L	ENGTH	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	PAGE 8
49	Q14	2	0101-0102	IN WHICH TRADE DOES HOLD AN ALBERTA TRADE CERTIFICATE? 30 MOTORCYCLE MECHANIC 31 MOTOR MECHANIC 32 PAINTER AND DECORATOR 33 PARTSMAN 34 PLASTERER 35 PLUMBER 36 POWER LINEMAN 37 POWER SYSTEM ELECTRICIAN 38 PRINTING AND GRAPHIC ARTS CRAFTSMAN 39 RECREATION VEHICLE MECHANIC 40 REFRIGERATION MECHANIC 41 ROOFER 42 SAWFILER 43 SHEET METAL MECHANIC 44 SPRINKLER FITTER 45 STEAMFITTER-PIPEFITTER 46 STEEL FABRICATOR 47 TILESETTER 48 TOOL AND DIE MAKER 49 TRANSPORT REFRIGERATION MECHANIC 50 WATER WELL DRILLER 51 WELDER 52 OTHER TRADE 00 NOT STATED 53 NOT APPLICABLE	** CONTINUED **
50	Q15	1	0103	LAST WEEK, DID WORK IN A "HANDS-ON" CAPACITY APACITY IN THIS TRADE? 7 YES 8 NO 0 NOT STATED BLANK	
51	Q16		0104	HAS WORKED IN A "HANDS-ON" CAPACITY IN THIS TRADE AT ANY TIME IN THE PAST 12 MONTHS? 1 YES 2 NO 0 NOT STATED BLANK	
52	APPHGHT	9	0105-0113	APP WEIGHT (NNNNN.NNNN)	

	400
	The state of the s
	The same of the parties.
	_
	and the state of t
	4-
	2 C. C. C. C. C. C.
	-
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	_
	U- 1.07 0 410 M
	L. D. D. B.

# CRUDE SAMPLING VARIABILITY TABLES FOR SURVEY OF APPRENTICES AND JOURNEYMEN IN ALBERTA - OCT 1988

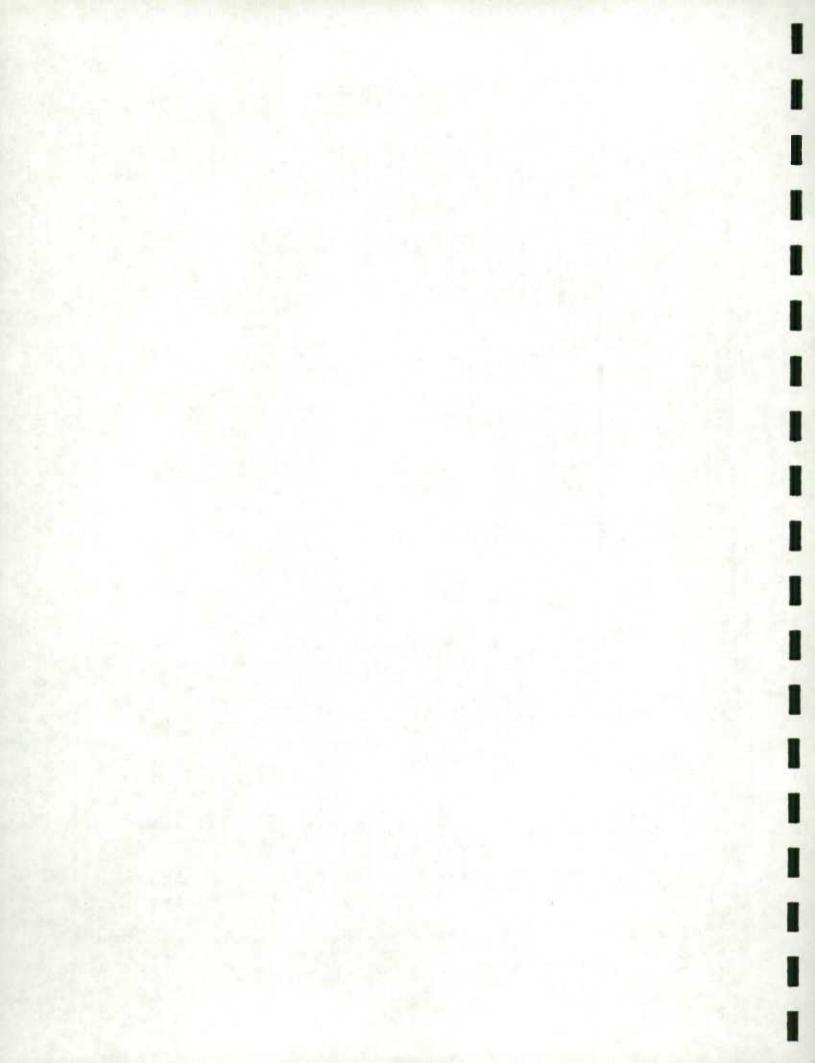
JOURNEYMEN

NU	MERATOR OF	F					ESTIMATI	ED PERCE	NTAGE						
	ERCENTAGE														
	('000)	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
	1	49.0	48.8	48.5	47.8	46.5	45.2	43.9	42.5	41.0	39.5	38.0	34.7	26.9	15.5
	2	******	34.5	34.3	33.8	32.9	32.0	31.0	30.0	29.0	28.0	26.9	24.5	19.0	11.0
	3	******	28.2	28.0	27.6	26.9	26.1	25.3	24.5	23.7	22.8	21.9	20.0	15.5	9.0
	4	*****	24.4	24.3	23.9	23.3	22.6	21.9	21.2	20.5	19.8	19.0	17.3	13.4	7.8
	5	******	21.8	21.7	21.4	20.8	20.2	19.6	19.0	18.3	17.7	17.0	15.5	12.0	6.9
	6	******	19.9	19.8	19.5	19.0	18.5	17.9	17.3	16.7	16.1	15.5	14.2	11.0	6.3
	7	******	18.4	18.3	18.1	17.6	17.1	16.6	16.1	15.5	14.9	14.4	13.1	10.2	5.9
	8	******	17.2	17.2	16.9	16.4	16.0	15.5	15.0	14.5	14.0	13.4	12.3	9.5	5.5
	9	******	16.3	16.2	15.9	15.5	15.1	14.6	14.2	13.7	13.2	12.7	11.6	9.0	5.2
	10	******	15.4	15.4	15.1	14.7	14.3	13.9	13.4	13.0	12.5	12.0	11.0	8.5	4.9
	11	******	14.7	14.6	14.4	14.0	13.6	13,2	12.8	12.4	11.9	11.5	10.5	8.1	4.7
	12	******	14.1	14.0	13.8	13.4	13.1	12.7	12.3	11.8	11.4	11.0	10.0	7.8	4.5
	13	******	13.5	13.5	13.3	12.9	12.5	12.2	11.8	11.4	11.0	10.5	9.6	7.4	4.3
	14	******	13.0	13.0	12.8	12.4	12.1	11.7	11.3	11.0	10.6	10.2	9.3	7.2	4.1
	15	*****	12.6	12.5	12.3	12.0	11.7	11.3	11.0	10.6	10.2	9.8	9.0	6.9	4.0
	16	******	*****	12.1	11.9	11.6	11.3	11.0	10.6	10.3	. 9.9	9.5	8.7	6.7	3.9
	17	******	****	11.8	11.6	11.3	11.0	10.6	10.3	10.0	9.6	9.2	8.4	6.5	3.8
	18	*******	*****	11.4	11.3	11.0	10.7	10.3	10.0	9.7	9.3	9.0	8.2	6.3	3.7
	19	*******	*****	11.1	11.0	10.7	10.4	10.1	9.7	9.4	9.1	8.7	8.0	6.2	3.6
	20	******	*****	10.9	10.7	10.4	10.1	9.8	9.5	9.2	8.8	8.5	7.8	6.0	3.5
	21	******	*****	10.6	10.4	10.2	9.9	9.6	9.3	9.0	8.6	8.3	7.6	5.9	3.4
	22	******	*****	10.3	10.2	9.9	9.6	9.4	9.1	8.7	8.4	8.1	7.4	5.7	3.3
	23	******	*****	10.1	10.0	9.7	9.4	9.1	8.9	8.6	8.2	7.9	7.2	5.6	3.2
	24	******		9.9	9.8	9.5	. 9.2	9.0	8.7	8.4	8.1	7.8	7.1	5.5	3.2
	25	******		9.7	9.6	9.3	9.0	8.8	8.5	8.2	7.9	7.6	6.9	5.4	3.1
	30	******		8.9	8.7	8.5	8.3	8.0	7.8	7.5	7.2	6.9	6.3	4.9	2.8
	35	******			8.1	7.9	7.6	7.4	7.2	6.9	6.7	6.4	5.9	4.5	2.6
	40	*****			7.6	7.4	7.1	6.9	6.7	6.5	6.3	6.0	5.5	4.2	2.5
	45	******			7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.2	4.0	2.3
	50	******			6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	4.9	3.8	2.2
	55	******			6.4	6.3	6.1	5.9	5.7	5.5	5.3	5.1	4.7	3.6	2.1
	60	*****			6.2	6.0	5.8	5.7	5.5	5.3	5.1	4.9	4.5	3.5	2.0
	65	*****			5.9	5.8	5.6	5.4	5.3	5.1	4.9	4.7	4.3	3.3	1.9
	70 75	******			5.7	5.6	5.4	5.2	5.1	4.9	4.7	4.5	4.1	3.2	1.9
	80	*******			5.5	5.4	5.2	5.1	4.9	4.7	4.6	4.4	4.0	3.1	1.8
	85		******			5.2	5.1	4.9	4.7	4.6	4.4	4.2	3.9	3.0	1.7
	90	******				5.0	4.9	4.8	4.6	4.4	4.3	4.1	3.8	2.9	1.7
	95	******				4.9	4.8	4.6	4.5	4.3	4.2	4.0	3.7	2.8	1.6
	100	******				–	4.6	4.5	4.4	4.2	4.1	3.9	3.6	2.8	1.6
_	125	******				4.7	4.5	4.4	4.2	4.1	4.0	3.8	3.5	2.7	1.6
	150	******				3.8	4.0	3.9	3.8	3.7	3.5	3.4	3.1	2.4	1.4
	200	******					3.7	3.6	3.5	3.3	3.2	3.1	2.8	2.2	1.3
	250		*****					2.8	3.0	2.9	2.8	2.7	2.5	1.9	1.1
	300		*****					2.5	2.5	2.6	2.5	2.4	2.2	1.7	1.0
	350	******							2.3	2.4		2.2	2.0	1.6	0.9
	400	*******	******				******			2.1	2.1	2.0	1.9	1.4	0.8
	450	*******	*****	******	*****		******			1.9	1.9	1.9	1.7	1.3	0.8
										1 . 7	. 7	1.0	1.6	1.3	0.7
-	500	*******	******	*****	******	******	******	******	*****	M M M M M M		4 7	4 (		0 7
-	500 750	*******	******* *****	****** *****	********	*******	*********	(********	******	*****	1.8	1.7	1.6	1.2	0.7



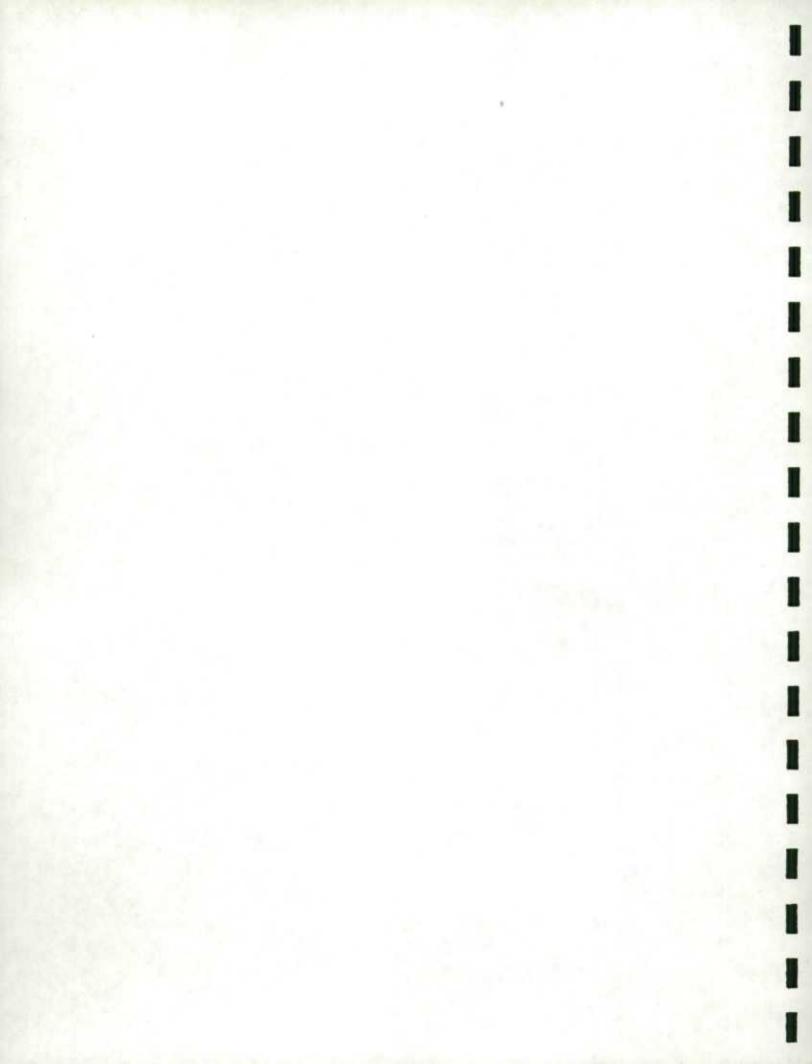
#### APPRENTICES

PERCENTAGE						ESTIMATI	ED PERCE	NTAGE						
( '000)	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0
1	47.3	47.1	46.9	46.2	44.9	43.7	42.4	41.0	39.6	38.2	36.7	33.5	25.9	15.
2	*****	33.3	33.2	32.6	31.8	30.9	30.0	29.0	28.0	27.0	25.9	23.7	18.3	10.
3	*****	27.2	27.1	26.7	25.9	25.2	24.5	23.7	22.9	22.1	21.2	19.3	15.0	8.
4	******	23.6	23.4	23.1	22.5	21.8	21.2	20.5	19.8	19.1	18.3	16.7	13.0	7.
5	******	21.1	21.0	20.6	20.1	19.5	18.9	18.3	17.7	17.1	16.4	15.0	11.6	6.
6	*****	19.2	19.1	18.9	18.3	17.8	17.3	16.7	16.2	15.6	15.0	13.7	10.6	6.
7	*****	17.8	17.7	17.5	17.0	16.5	16.0	15.5	15.0	14.4	13.9	12.7	9.8	5
8	*****	16.7	16.6	16.3	15.9	15.4	15.0	14.5	14.0	13.5	13.0	11.8	9.2	5
9	*****	15.7	15.6	15.4	15.0	14.6	14.1	13.7	13.2	12.7	12.2	11.2	8.6	5
10	*****	14.9	14.8	14.6	14.2	13.8	13.4	13.0	12.5	12.1	11.6	10.6	8.2	4.
11	*****	14.2	14.1	13.9	13.6	13.2	12.8	12.4	12.0	11.5	11.1	10.1	7.8	4
12	*****	13.6	13.5	13.3	13.0	12.6	12.2	11.8	11.4	11.0	10.6	9.7	7.5	4
13	*****	13.1	13.0	12.8	12.5	12.1	11.8	11.4	11.0	10.6	10.2	9.3	7.2	4
14	*****	12.6	12.5	12.3	12.0	11.7	11.3	11.0	10.6	10.2	9.8	9.0	6.9	4.
15	*****	12.2	12.1	11.9	11.6	11.3	10.9	10.6	10.2	9.9	9.5	8.6	6.7	3
16	******		11.7	11.5	11.2	10.9	10.6	10.3	9.9	9.5	9.2	8.4	6.5	3
17	*****		11.4	11.2	10.9	10.6	10.3	10.0	,	9.3	8.9	8.1	6.3	3
18	*****		11.1	10.9	10.6	10.3	10.0	9.7	9.3	9.0	8.6	7.9	6.1	3
19	*******		10.8	10.6	10.3	10.0	9.7	9.4	9.1	8.8	8.4	7.7	6.0	3
20	*****		10.5	10.3	10.0	9.8	9.5	9.2	8.9	8.5	8.2	7.5	5.8	3
21	*******		10.2	10.1	9.8	9.5	9.2	9.0	8.6	8.3	8.0	7.3	5.7	3
22	******		10.0	9.8	9.6	9.3	9.0	8.7	8.5	8.1	7.8	7.1	5.5	3
23	******		9.8	9.6	9.4	9.1	8.8	8.6	8.3	8.0	7.7	7.0	5.4	3
24	******		9.6	9.4	9.2	8.9	8.6	8.4	8.1	7.8	7.5	6.8	5.3	3
25	*******		9.4	9.2	9.0	. 8.7	8.5	8.2	7.9	7.6	7.3	6.7	5.2	3
30	******		8.6	8.4	8.2	8.0	7.7	7.5	7.2	7.0	6.7	6.1	4.7	2
3.5 40	********			7.8	7.6	7.4	7.2 6.7	6.9	6.7	6.5	6.2	5.7	4.4	2
45	******			6.9	6.7	6.5	6.3	6.1	5.9	6.0 5.7	5.8	5.0	4.1	2
50	******			6.5	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.7	3.7	2
55	******			6.2	6.1	5.9	5.7	5.5	5.3	5.2	4.9	4.5	3.5	2
60	******			6.0	5.8	5.6	5.5	5.3	5.1	4.9	4.7	4.3	3.3	1
65	*******			5.7	5.6	5.4	5.3	5.1	4.9	4.7	4.6	4.2	3.2	1
70	*******			5.5	5.4	5.2	5.1	4.9	4.7	4.6	4.4	4.0	3.1	1
75	*******			5.3	5.2	5.0	4.9	4.7	4.6	4.4	4.2	3.9	3.0	1
80	*******				5.0	4.9	4.7	4.6	4.4	4.3	4.1	3.7	2.9	1
85			******		4.9	4.7	4.6	4.4	4.3	4.1	4.0	3.6	2.8	i
90	*******	******	******	*****	4.7	4.6	4.5	4.3	4.2	4.0	3.9	3.5	2.7	1
95	*******	******	*****	*****	4.6	4.5	4.3	4.2	4.1	3.9	3.8	3.4	2.7	1
100	*******	******	******	*****	4.5	4.4	4.2	4.1	4.0	3.8	3.7	3.3	2.6	1
125			*****		4.0	3.9	3.8	3.7	3.5	3.4	3.3	3.0	2.3	1
150	*******	*****	*****	*****	3.7	3.6	3.5	3.3	3.2	3.1	3.0	2.7	2,1	1
200	******	******	*****	*****	*****	3.1	3.0	2.9	2.8	2.7	2.6	2.4	1.8	1
250	*******	******	******	*****	******	*****	2.7	2.6	2.5	2.4	2.3	2.1	1.6	0
300	******	******	******	*****	******	*****	2.4	2.4	2.3	2.2	2.1	1.9	1.5	0
350	******	******	******	*****	******	*****	*****	2.2	2.1	2.0	2.0	1.8	1.4	0
400	*******	******	*****	*****	******	*****	******	*****	2.0	1.9	1.8	1.7	1.3	0
450	******	*****	******	*****	******	*****	******	*****	1.9	1.8	1.7	1.6	1.2	0
500	******	*****	******	*****	*****	*****	******	******	*****	1.7	1.6	1.5	1.2	0
750	*******	*****	*****	******	*****	******	******	*****	******	******	*****	1.2	0.9	0

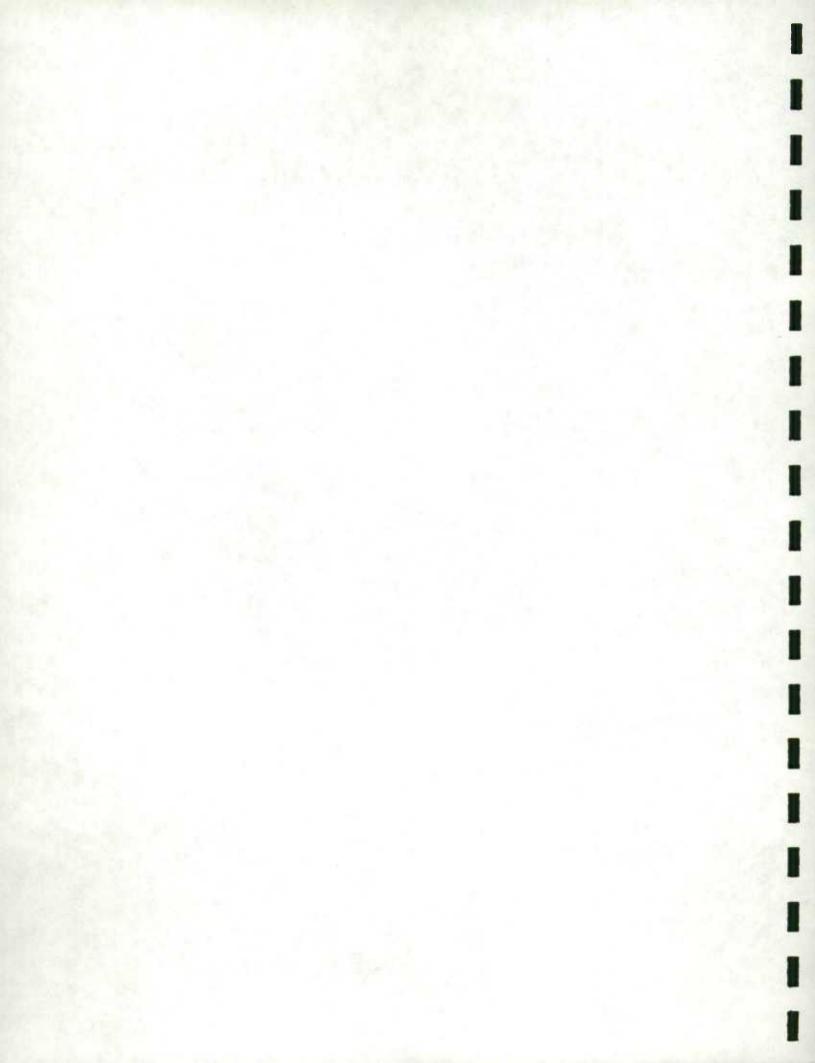


### NOTES:

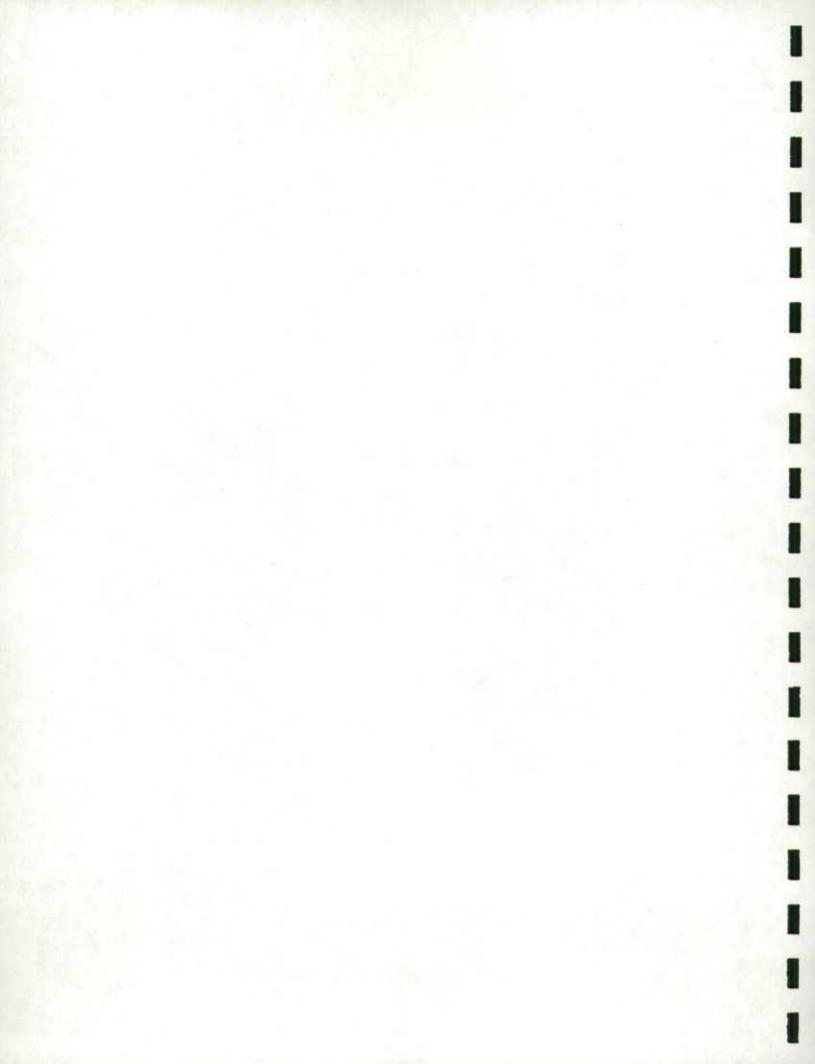
-(1	) SAMPLING VARIABILITIES (COEFFICIENTS OF VARIATION) ARE IN PERCENTS.	00610000
12	) TO DETERMINE SAMPLING VARIABILITIES FOR ESTIMATES OF TOTALS, LOCATE	00620000
	THE ROW CLOSEST TO THE ESTIMATED TOTAL. THE LEFT-MOST COLUMN GIVES	00630000
	THE SAMPLING VARIABILITY.	00640000
13	) TO DETERMINE SAMPLING VARIABILITIES FOR ESTIMATES OF PERCENTAGES,	00650000
	USE THE ROW CLOSEST TO THE NUMERATOR OF THE PERCENTAGE AND THE	00660000
	COLUMN CLOSEST TO THE PERCENTAGE.	00670000
14	) SAMPLING VARIABILITIES IN THIS TABLE ARE CRUDE INDICATORS AND IN	00680000
	GENERAL ARE HIGHER THAN THOSE THAT WOULD BE OBTAINED USING MORE	00690000
	EXACT TECHNIQUES. UNDER NO CIRCUMSTANCES ARE THEY OFFICIAL.	00700000



# 12. SAMPLING VARIABILITY TABLES



# 13. TECHNICAL SPECIFICATIONS



Dataset Name: Spec.APP8610

Volume Serial Number: ----NT

Record Length: 113

Blocksize:

Recording Density: 1600 BPI

Label: Standard IBM

STATISTICS CANADA LIBRARY BIBLIOTHEQUE STATISTIQUE CANADA 1010143634