

Guyana Living Standards Measurements Survey 1992-1993

Basic Information Document

Country Operations Division II
Department III
Latin America and the Caribbean Region
The World Bank
July 15, 1996

PRINCIPAL ABBREVIATIONS AND ACRONYMS USED

CPI	Consumer Price Index
ED	Enumeration District
GBS	Guyana Bureau of Statistics
GDP	Gross Domestic Product
GNP	Gross National Product
HIES	Household Income and Expenditure Survey
LSMS	Living Standards Measurement Study
P.C.E.	Per Capita Expenditure
SIMAP	Social Impact Amelioration Program
UNDP	United Nations Development Programme
UNHSCP	United Nations Household Survey Capability Programme

Contents

I. Overview	1
HIES.	1
LSMS.	1
Availability of Facilities Survey.	1
Time Frame	2
HIES Fieldwork.	2
LSMS.	2
Availability of Facilities Survey.	2
II. Survey Questionnaires	3
HIES Household Questionnaire	3
Consumption.	3
Reference Periods.	3
Expenditure Classifications.	3
LSMS	4
Household Roster.	4
Health Module.	4
Education Module.	5
Migration Module.	5
Fertility Module.	5
Anthropometry Module.	5
Availability of Facilities Survey	5
III. Sample	7
Sample Design of the HIES	7
The First Stage Sample.	7
The Second Stage Sample.	8
Sample Design of the LSMS	9
Sample Design of the Availability of Facilities Survey	9
Implementation of the Sample	9
IV. Organization of the Survey	11
Survey Management	11
HIES/Facilities Survey.	11
LSMS.	11
Field Testing and Training	11
Fieldwork	11
Pre-Survey.	11
Survey.	12
Data Entry.	12

V. Using the Data	13
Data Quality	13
Constructed Data Sets.	14
Linking Data Sets.	16
Problems	17
Missing values.	17
Data cleaning.	17
Appendix A. How to Obtain Guyana LSMS Data	19
Appendix B. List of Data Sets Available	20
Appendix C. List of Related Documents	21
Appendix D. List of Papers and Reports	22
Appendix E. Codes Not in Questionnaire	23
Appendix F. Map	56
Appendix G. Contents of HIES and LSMS data files	57

Tables

Table 1. Allocation of Sample Enumeration Districts	8
Table 2. Data Files	14

I. Overview

1. The World Bank's Living Standard Measurement Study (LSMS) was adapted for use in Guyana and administered in early 1993 as part of the Guyana Bureau of Statistics' year-long Household Income and Expenditure Survey (HIES). This document provides basic information to those who are interested in analyzing the LSMS/HIES data sets. This section provides a general description of the HIES/LSMS project, the surveys, and a time frame. Section 2 describes the questionnaires. Section 3 outlines the sample design and selection processes. Section 4 summarizes the project's management structure and describes pretesting, training and the actual fieldwork. Section 5 details the data collected, including constructed data sets, and issues and problems of interest to subsequent users of the data. Finally, several appendices provide more detailed information, such as the contents of data files, descriptions of constructed variables, and directions for obtaining copies of the data files.
2. *HIES*. Originally administered in Guyana in 1942, and again in 1956 and 1969-70, Household Income and Expenditure Surveys collected data including income, expenditures, household indebtedness, housing conditions, household savings and investment, employment and wages, and the possession of durables, that were used in the construction of a consumer price index (CPI). Because nearly twenty years had lapsed since the most recent previous survey in 1969-70, by 1989 the CPI had lost its validity. This heightened the urgency for new data collection efforts. A new instrument was designed and, during a twelve-month period beginning May 1992, it was administered in four (4) subrounds to a national sample of 7,392 households.
3. The HIES project actually combined three data collection efforts. In addition to the household questionnaire on income, expenditure, and related topics, a supplemental LSMS household questionnaire and a community survey of available facilities were also administered to portions of the sample drawn for the HIES.
4. *LSMS*. The Living Standards Measurement Study surveys were originally developed by the World Bank in 1980 to improve the quality of household data collected by statistical offices in developing countries. LSMS data were intended to contribute to the design of development policies by providing a richer empirical foundation for policy dialogue. The Guyana LSMS survey gathered data specifically designed to measure poverty and social welfare. Because the LSMS survey was to take place at about the same time as the HIES, it was decided to link the two surveys. The HIES questionnaire substituted for the normal LSMS modules on income, expenditures, labor activities, household businesses, housing, durable goods, and savings. The LSMS questionnaire focused only on health, education, migration, fertility, and anthropometrics.
5. *Availability of Facilities Survey*. To enable government agencies to evaluate the effectiveness of targeted programs, this survey collected information concerning the availability of various facilities and civic amenities such as schools, hospitals and health clinics, water sources, facilities for cultural activities, facilities for rehabilitation for disabled persons, and other facilities related to general civic amenities. These data were not collected at the household level.

Rather they were collected for the Enumeration District as a whole from a local community leader or a public official. Data were gathered establishing the existence of the facilities and the distance individuals had to travel to avail themselves of them.

Time Frame

6. *HIES Fieldwork.* The HIES was administered in four subrounds (scheduled for 3 months each) beginning in May 1992. Scheduling the fieldwork in this way captured the effects upon the data of seasonal household expenditure variations. For example, household expenditures generally increase substantially during the holiday period of November and December.

7. *LSMS.* The LSMS survey was administered in conjunction with the third subround of the HIES. This required an additional visit by interviewers to each of the approximately 1,800 households selected in this round. Another subsequent visit was made to households with children younger than 5 years of age to collect anthropometric data. Fieldwork was carried out between January and July 1993. Data entry was begun in March 1993 and concluded in August 1993.

8. *Availability of Facilities Survey.* The facilities survey was conducted concurrently with the HIES fieldwork. It was administered in each of the 616 Enumeration Districts (EDs) selected for the HIES.

II. Survey Questionnaires

HIES Household Questionnaire

9. *Consumption.* The bulk of the household survey consists of items collecting consumption expenditure data. Consumption expenditures include all monetary expenditures on goods and services intended for consumption, as well as the value of the goods or services received in kind and consumed by the household. Payments made by the household for some goods and services for which no ready measure of consumption is available are also collected. These include payments for education, health and legal services, television and radio license fees.

10. In addition to income and expenditures, detailed data were collected on household indebtedness, housing characteristics and conditions, household savings and investments, employment and wages, and possession of durables. The "Instruction Manual for Field Staff" provides a detailed description of data elements. The reader should also refer to the questionnaire while reading this section.

11. *Reference Periods.* For most items in the household schedule, data were collected for a reference period of thirty (30) days preceding the date of the interview. For semi-durables and periodic payments of intermediate frequencies, additional data for 90 days preceding the date of the interview were collected. For infrequent expenditures such as durables a reference period of 365 days was used. The questionnaire should be carefully consulted because often, similar items may refer to different reference periods. Refer to the analysis paragraphs below for a description of how recorded expenditures were adjusted for comparison.

12. *Expenditure Classifications.* Consumption expenditures were measured in terms of "acquisition," "use," "payments," and "transactions in kind." The category into which an expenditure fell determined whether and how much of the expenditure was recorded by the survey. Goods and services were classified according to the "Classification of Household Goods and Services," prepared as part of the System of National Accounts, developed by the UN (1968) (included as Annex I of the HIES "Instruction Manual for Field Staff"). This classification distinguished durable goods, which have a life of more than one year, semi-durable goods, which have a life of a year or more but have significantly shorter lifespans and smaller values than durable goods, and non-durable goods, which have short lifespans and are relatively inexpensive.

13. "Acquisition" referred to the total value of goods and services delivered during the period, regardless of whether they were paid for or used during the period or not. The acquisition approach was used for many expenditures classified as semi-durable or durable such as agricultural products and gross rent of owner occupied dwellings.

14. "Use" referred to the total value of goods and services actually consumed during the period regardless of when they were acquired or paid for. Expenditures for food items and other non-durables were recorded according to the "use" method. This is due to the phenomenon often

encountered in developing countries of rural populations stocking large quantities of food for future use. To ensure comparability of data items the equivalent expenditure for the amount of these foods actually consumed during the period was recorded.

15. "Payments" are total payments made for goods and services during the period regardless of when they were delivered or used. Examples include payments for current supplies such as housing, water, electricity -- items that were more or less continuously acquired and used.

16. "In-Kind" transactions included: (a) goods and services received as income; (b) consumption of home production; (c) consumption of business stock; (d) owner-occupied housing; and (e) exchange of gifts. These transactions are an important element of the household budget, and were appropriately recorded as income and as consumption (to the extent to which they were consumed). Non-food items were considered to be consumed as soon as they were received. Food items and home production, especially bulk transactions, were recorded as expenditures according to the "use" method.

17. Goods and services received as income were valued for the survey at their retail market price at the time of the interview. The respondent was first asked to value the goods and services based on local price information. If usable, the enumerator then valued items. Finally, the supervisor checked the valuation. Home production consumed was valued at producers' prices, when they could be ascertained. Otherwise, they were valued at local wholesale levels. Items for which there was no local market, or which were available for free collection were not recorded. Business stock consumed was valued at the prices the trader would have charged for the sale of the goods.

18. Owner-occupied housing was valued by calculating an imputed gross rental value. That is, the market rent of a building similar to the one owned, less estimated maintenance, property taxes, and mortgage interest. Gross rental value was imputed by the enumerator/supervisor at the time of the interview and then checked by data encoders and data processing personnel.

LSMS

19. *Household Roster.* The LSMS was administered approximately two weeks following the HIES. Much of the cover section of the LSMS household information was copied directly from the HIES prior to the interview. This was to minimize the possibility of a household's LSMS not being matched with its HIES. Following the cover section, the LSMS contained five modules. The "Interviewer Manual" provides detailed descriptions of all items in the survey.

20. *Health Module.* This schedule contained items concerning the health status of all members of the household, specifically about any illness experienced during the previous 30 days: its length; the use of medical facilities for the illness; the amount spent on its treatment; the kinds and costs of medications; and the satisfaction with medical interventions. Also collected

were data concerning the use of the National Insurance Scheme, preventive care, and specific items regarding pregnancy, breastfeeding and the presence of infants.

21. *Education Module.* Information concerning the schooling of each household member over the age of three years was collected, including the level completed, type of school, years repeated, access to meals and textbooks, distance traveled, and several categories of associated expenditures. Attention should be paid to the expenditure data. Some items request monthly expenditures. Others collect annual expenditures.

22. *Migration Module.* This section collected information about individuals who at the time of the interview had lived away from the household for more than six months. These individuals were not counted on the household roster and did not appear in HIES data. Information regarding the location of the individual, her/his reason for leaving, and whether or not contributions to the family were made. Because data on international remittances were collected in the HIES, the amount of the remittances was not recorded here. It was felt that respondents would be unwilling to answer too many questions about transfers from abroad.

23. *Fertility Module.* This section collected information about the pregnancy, birthing, and contraceptive practices of women in the household between the ages 13 and 49. Only one member of the household was interviewed for this section. The interviewer consulted a previously prepared list of randomly ordered ID numbers and selected the first one corresponding to an eligible member of the household being interviewed. ID numbers were established when the household roster was completed using information from the HIES. The ID code was a number between 01 and 12. Selecting a number randomly avoided selection bias on the part of the interviewer.

24. *Anthropometry Module.* During the initial LSMS interview, the interviewer indicated whether any children under the age of five years were present. For households with such children, a return visit by a team of nursing students, was made to collect data on the children.

25. Anthropometric measurements gathered were standing height (taken for children between two and five years of age), recumbent length (taken lying down on children less than two years of age) and weight of pre-school age children (less than five years of age). Immunizations received, breastfeeding, other dietary and vitamin supplement data were also collected.

Availability of Facilities Survey

26. Information was gathered concerning the availability of specified facilities in five broad categories: cultural activities, education, health and medical, rehabilitation of disabled persons, and others relating to general civic amenities. Specific entities included public library or reading room, community radio/TV center, community hall, religious place, sports or recreation club, philanthropic institutions, professional cultural unit, industrial or other technical institution, special school for the blind, deaf and dumb, and vocational training center.

27. Enumerators were instructed to seek this information from one or more knowledgeable individuals living in the ED, such as a local officer or social leader in the rural EDs, or a public official in the urban EDs. Enumerators recorded whether the facility fell within the ED. If the closest facility lay outside the ED, the approximate mileage from the central point within the ED was recorded.

III. Sample

Sample Design of the HIES

28. The objectives of the HIES and the LSMS called for a national sample representative of rural and urban populations at all income levels. Based on the experiences of Labor Force Survey and the Survey of Living Conditions in Jamaica, it was decided to draw a one-percent sample of households. The design called for a two-stage stratified sample. For the first stage sample, Enumeration Districts (geographical areas designated during the 1991 population census) were selected from 16 geographical regions. In the second, households, the units of inquiry, were selected from a listing of all households in the selected Enumeration Districts.

29. *The First Stage Sample.* Guyana is divided into 10 Administrative Regions (Annex F contains a map displaying their borders). For the 1991 population census, each Administrative Region was divided into Enumeration Districts (EDs) of about 100 households each. There were 2,610 EDs in the country, of which 616 were selected to the sample for the HIES.

30. The urban sampling frame contained the EDs comprised of the Georgetown metropolitan area (central and suburban areas), which accounts for 21 percent of the total population, and the EDs comprised of the other urban areas which include New Amsterdam, Linden, Anna Regina, and Corriverton, accounting for 11.2 percent of the population. The Rural sampling frame was defined as the EDs in all ten Administrative Regions not defined as urban.

31. The 616 EDs to be sampled were allocated to different strata taking into consideration the relative size of the rural and urban population. Within the rural sector, the sample size was reallocated to ten strata in proportion to the rural population with a minimum of eight EDs for each stratum. In the urban sector also, the sample size was reallocated into six strata in proportion to the urban population. For the bigger and comparatively more populated interior regions (regions 1, 7, and 9) an allocation of 16 EDs was made so as to net about 200 households in these regions. Within each rural and urban stratum, the allocated number of EDs was selected in circular systematic manner with probability proportional to population as available from preliminary estimates from the 1991 census. For some EDs the estimates were not yet available from the 1991 census, so the results from the 1980 census were used.

32. Table 1 presents the allocation of selected EDs. Note that the number of EDs selected in each stratum is a multiple of 8. This was to ensure that each of the strata would be represented by at least two EDs in each of the four calendar rounds. This sub-round restriction was not applied to interior regions 1, 7, 8, and 9 which are not accessible during certain periods of the year. In these regions, the total sample allocated was programmed to be surveyed during the part of the year when they were accessible.

Table 1. Allocation of Sample Enumeration Districts

<i>Administrative Region No.</i>	<i>Geographical Description</i>	<i>Number of Sample EDs</i>
RURAL SAMPLE FRAME		
1	Barima - Waini	16
2	Pomeroon - Supernaam	32
3	Essequibo Island - West Demerara	72
4	Mahaica - Berbice	112
5	East Berbice - Corentyne	40
6	Cuyuni - Mazaruni	72
7	Potaro - Simpauni	16
8	Upper Takutu - Upper Essequibo	8
9	Upper Demerara - Berbice	16
10		8
Subtotal		392
URBAN SAMPLE FRAME		
	Georgetown	48
	Suburbs of Georgetown	104
	New Amsterdam	16
	Corriverton - Rosehall	16
	Linden	32
	Anna Regina	8
Subtotal		224
TOTAL		616

33. *The Second Stage Sample.* From the 616 selected EDs, a sample of 7,392 households was drawn for the study. Twelve households per ED were selected. Thus, for each of the four quarterly cycles, approximately 1,800 households were surveyed. The field enumerators selected the households in each ED, under the supervision of field supervisors and GBS. The selection process is described in detail in the "Field Supervisor's Manual."

34. In each selected ED, the first step in the selection process of the final sample was listing of all buildings and households in the ED. While listing each household, enumerators collected information to implicitly stratify each sample. This information included household size, means of livelihood, area of land possessed (rural only), and average monthly consumer expenditure (urban only).

35. In the rural sample, households were arranged by occupation type and extent of land ownership in the order: (1) self-employed in non-agriculture; (2) rural labor; (3) agriculture owning less than 1 acre; (4) agriculture owning 1 to 2.49 acres; (5) agriculture owning 2.5 to 4.99 acres; (6) agriculture owning 5 to 9.99 acres; and (7) agriculture owning 10 or more acres.

36. In the Urban sample, the households were arranged first in order of categories corresponding to means of livelihood: (1) Self-employed; (2) Regular wage/salaries employees; (3) Casual labor; and (4) Others. Within the categories (1) and (2), the households were further arranged in order of three per capita expenditure classes (p.c.e.).¹ The three p.c.e. classes were designated: (a) less than the amount demarking "lower" class, (G\$5,000); (b) more than (a) but less than the amount demarking "upper" class, (G\$20,000); and (c) more than the amount demarking "upper" class. Thus, the urban sample was arranged in the order 1a, 1b, 1c, 2c, 2b, 2a, 3, 4.

37. From each of the rearranged sample frames, twelve (12) households were selected circular systematically with a random start and with substitution. If a sample household could not be surveyed due to the temporary absence from the ED, refusal to give information or for other reasons, it was substituted by the household with the next sample serial number of the same column of the listing schedule so that the substitute household had the same economic characteristics as the original one. The substitute for the last household of a column would, however, be the first household of the same column. If a household had been already selected for survey, it would not be taken as a substitute. If there was no proper substitute household in the same column, the first household in the next column was to be taken.²

Sample Design of the LSMS

38. The LSMS was implemented in conjunction with the HIES and drew data from the third round of the four-round HIES 7,000 household sample. Because each round represented a national sample, it was possible to administer the LSMS in one round only, covering 1,795 households in 154 EDs.

Sample Design of the Availability of Facilities Survey

39. The facilities survey was administered in each of the EDS selected for the HIES sample.

Implementation of Sample

40. On the whole, there were some limitations in the successful implementation of the fieldwork due to shortages in field staff. Implementation took approximately 18 months, exceeding the originally targeted 12 months. The uneven spread in the completion of fieldwork in some Regions meant the non-realization of some of the potentialities of sophisticated sample design. For example, no sub-round-wise estimates could be compiled on a national level to study the effects of seasonality on relevant aspects like employment status, income, etc. This is very

1. p.c.e. was calculated by dividing the average monthly expenditure by the household size.

2. For further discussion of this see Report on the HIES, Guyana Bureau of Statistics, 1994.

important in an agriculture-dominated economy like Guyana. Similarly, the benefits of interpenetrating sub-sample techniques could not be fully realized, as the different sub-samples could not be allocated to different enumerators. There was no scope to address this within the time constraints and pressures to complete the field work.

41. Of the total 7,254 households surveyed in HIES, 1,196 were substituted households, and a very small proportion, 0.5 percent (37 households) were casualty households, e.g., no interview was conducted even with a substitute household. In urban areas, particularly Georgetown, the number of "call backs" to get data had been much higher than expected. In many of these cases substitution had to be used.

42. Of the entire sample, only two EDS had to be substituted due to inaccessibility, and three became casualties. Karisparu (ED no. 364) could not be surveyed because the air strip was closed, making the ED inaccessible. A second ED in Region 4 was found to have only institutional population (the Georgetown Jail) and was not included. The third ED not included was in Region 10 due to unsatisfactory completion of the survey by the Enumerator and his subsequent resignation. There was a substantial time lag, making revisits impossible.

43. Another constraint was the difficulty in physically identifying the EDS in the field using the census maps. These maps had been prepared in the seventies and over the years, many changes had taken place. In some areas, there was non-comparability between the Census population figure and the numbers of persons listed by the survey enumerators. This was addressed by modifying the expansion factors to be used to estimate the values of different characteristics in cases where the difference between the ED population as estimated from the census and as revealed in the listing differed by more than 20 percent. The expansion factors are included with the data files.³

3. The expansion factors are missing for ED numbers 408 and 482.

IV. Organization of the Survey

Survey Management

44. *HIES/Facilities Survey.* Funded by UNDP, the HIES was administered by the Guyana Bureau of Statistics (GBS) as part of an effort of the UN Household Survey Capability Programme (UNHSCP). Two UNDP technical advisors were given two-year full-time assignments to the GBS for the project. They were involved in many aspects of survey design and implementation. GBS hired and trained enumerators and field supervisors. Data entry was undertaken by GBS staff. Data analysis was provided by local researchers who were hired with consultation with SIMAP.

45. *LSMS.* The survey instrument was developed by the World Bank and was reviewed and modified by representatives from GBS, SIMAP, the Ministry of Health, the Ministry of Education, Guyana Agency for Health, Environment and Food, the Georgetown School of Nursing, and the Guyana Responsible Parenthood Association. Survey implementation, including the training of enumerators and interviewers in field work and data entry, was the responsibility of GBS with supervision from the World Bank.

Field Testing and Training

46. The HIES was field tested in April 1992 using 3 households in 6 EDS, and the LSMS in November 1992 using approximately 40 sample households. After field testing, the questionnaires were adapted as necessary.

47. Approximately 55 enumerators and supervisors were involved in administering the four-round HIES effort. They received an extensive one-month training, conducted by UNDP and GBS. An additional two-day LSMS training was carried out by the World Bank in January 1993 for the existing field staff. Approximately 65 nursing students from the Georgetown School of Nursing were trained in anthropometry for 3 days by Irwin Shorr, a consultant to the World Bank.

Fieldwork

48. *Pre-Survey.* Field supervisors played a broad role in the data gathering. Each was given the responsibility for assigning EDS to enumerators, supervising the selection of sample households from the household lists, and ensuring acceptable data quality. Supervisors were expected to spot check enumerators, provide additional training as needed, and communicate regularly with GBS via several quality control forms.

49. Enumerators first made a walking tour of the ED in which they were preparing to work. They had a map and, working with the supervisor, confirmed that the boundaries appearing on the map were correct. This tour also familiarized the enumerator with the ED, if she/he were not

already.⁴ Supervisors, working with central project staff created coded lists of households from which the sample of twelve households were chosen. This work was carried out during the initial weeks of each sub-round.

50. *Survey.* Interviewers made at least two visits to each household. In cases in which children under the age of five were present, a third visit was made to carry out the anthropometric component. The first visit was for the purpose of completing the HIES. The second visit, usually occurring within two-weeks of the first visit, was used to correct any problems or omissions encountered during data entry of the HIES, and to administer the LSMS. After a review of each completed LSMS questionnaire by the field supervisor, it was returned to the head office in Georgetown for initial coding and data entry. Before the LSMS was returned to the field for the anthropometric visit, the first round of data entry was completed. If inconsistencies in the data were found, the enumerator was responsible for correcting the relevant portions of the questionnaire, accompanying the anthropometric visit when possible. No follow-up visits subsequent to the administration of the anthropometric module were attempted in interior regions due to prohibitive logistics and transportation costs.

51. *Availability of Facilities Survey.* The facilities survey was conducted by enumerators at the same time as the ED was covered. Typically, a single interview with a knowledgeable local informant was sufficient to complete the survey.

52. *Data Entry.* A data entry program was developed for the LSMS data by Sistemas Integrales in Santiago, Chile. The program consisted of a series of computer screens designed to resemble the questionnaire and was programmed to perform a number of data verification tasks automatically. These included flagging omitted, out-of-range and inconsistent responses. Those questionnaires which were identified as having inconsistent responses were returned to the field for additional data or clarification. The data entry program for the HIES was developed by GBS.

4. Most enumerators were local.

V. Using the Data

53. Item-level data from either the HIES or the LSMS should not be used without a review of the entire questionnaire and this documentation. Both the questionnaire itself and the corresponding section of the training manual should be carefully reviewed prior to making use of these data. Values in the data sets are not labeled and the response codes are listed only on the instrument for most variables. Appendix E contains a listing of codes not in the questionnaires. In addition, the GBS "Instruction Manual for Field Staff" contains a very detailed explanation of each instrument item, and should be thoroughly reviewed before using the data. For example, the section entitled "Consumption Expenditure" provides an exhaustive explanation of how consumption expenditures were to be recorded by the interviewer: by the acquisition, use, or payment method.

Data Quality

54. The data quality is considered fair. It is difficult to make comparisons, however, due to the lack of previous data sets. For example, data from the most recently collected data, the 1991 Census, have not yet been processed. One issue related to data quality is in the valuation of consumption. Mean per capita consumption adjusted for regional price differentials is estimated at G\$91,602 (US\$733). This figure is considerably higher than the GNP per capita estimate of US\$330 for 1992 (*World Bank Atlas*, 1993). The GNP per capita figure is calculated using the *World Bank Atlas* methodology, which measures the total domestic and foreign value added claimed by residents.⁵ It is comprised of GDP (the total output of goods and services for final use produced by residents and nonresidents, regardless of the allocation to domestic and foreign claims) plus net factor income from abroad, which is the income residents receive from abroad for factor services (labor and capital), less similar payments made to nonresidents who contributed to the domestic economy. GNP is then divided by the population estimate and converted to U.S. dollars using the official exchange rate.⁶ The discrepancy between per capita consumption and per capita GNP is due to several factors: (a) income is generally under-reported, including the substantial international remittances received from expatriate Guyanese living abroad; (b) illegal activity such as smuggling is not reported; (c) there is undercounting of the informal sector (including subsistence farming); and (d) the population estimate used in 1992 was 802,000, even though GBS has estimated the population, based on the 1990 Census, at 730,000.

55. It should be noted that because the full HIES contained a larger sample of 7,200 households, some differences may occur in comparing results from the full HIES sample and analysis of the smaller (1,800 households) linked HIES-LSMS sample (e.g., slight differences

5. See 1993 World Development Report, World Development Indicators, Technical Notes for Table 1 (page 306) for a description of the *World Bank Atlas* method.

6. In 1993, the official exchange rate was US\$1=G\$125.

in consumption patterns, and regional distribution). For example, average household size for the HIES four sub-rounds was 4.3 compared with 4.4 for the third HIES-LSMS sub-round only. The proportion of household expenditures on food was 54.0 percent for the HIES survey compared with 55.2 percent for the HIES-LSMS sample.

Data Files

56. There are four groups of data files related to this project, the basic HIES files, the basic LSMS files, a Facilities Survey data file, and the data sets constructed by the World Bank for analytic purposes. Table 2 provides a description of the basic HIES, LSMS, and Facilities data files. Appendix B presents a list of the contents of each of the data sets and Appendix G has detailed information on each data set, including variable names and brief descriptions. These variable lists also contain notes describing how calculated variables were constructed and any special considerations concerning their use. These lists should also be consulted prior to using the data sets.

57. All data sets contain identifying items including region, sector, stratum number, major division number, ED numbers, and sample and sub-sample numbers. An ID number is used to link the LSMS files with HIES files (see the section below on linking data sets).

58. *Constructed Data Sets.* Researchers at the World Bank have created the data set CONKM03 that combines various sections of the questionnaires that are especially useful. To increase the facility with which the data can be used by other researchers, this data set is being made available with the raw data sets. This constructed data set is made available for general use with the understanding that the description given in this document is the only documentation that will be provided. Any manipulation of the data requires that assumptions be made and, to the extent possible, those assumptions are explained below. Except where noted, the data sets have been created using only the raw data sets. A researcher could construct similar data sets incorporating different assumptions.

59. The data file CONKM03 contains the major constructed variables used in the first set of poverty analysis performed at the World Bank. These variables relate particularly to consumption expenditure. A complete listing of the contents of CONKM03 and how the variables were constructed is included in Appendix G. The consumption expenditure aggregate variables vary somewhat. There are two sets; YRCONS1 and YRCONS2, and YRCONS1N and YRCONS2N.

60. YRCONS1 and YRCONS1N contain annual food and nonfood consumption expenditures and in-kind benefits. This consists of data on direct household expenditures, the value of home-produced food items, the value of payments in-kind, and housing expenditures including the rental value of owner-occupied housing (as valued on the questionnaire and explained previously). The values used for expenditures were based on the last thirty days, except where the data were not available. In those cases, the data on annual expenditure were used.

Table 2. Survey Data Files

<i>File Name</i>	<i>Description</i>
HIES DATA FILES	
WEIGHT	Contains ED number and expansion factor
HHLDID	Includes sampling information and household IDs.
HHCHAR	Household Characteristics -- contains basic demographic information concerning the household, as well as responses to gross income and expenditure items, and housing and rent information. (sections 1-4, 10i, 11, 13, 14, 16, 17, and 19 of the HIES)
MEMBP, MEMBA	Contain responses to questions about household members present and household members absent (sections 5-8 of the HIES). The codes used for industry of employment (Block 7) refer to the International Standard Industrial Classification. Only the first three digits were used. For occupation group codes, the first three digits of the International Standard classification of occupations was used.
OUTSE and INPSE	These files are HIES sections 9.1 & 9.2, Output from Self-Employment Activities, and Input to Self-Employment Activities, respectively.
INCPRP.	Responses to questions about income from property are in this file. (section 10ii of the HIES)
DEBT	Items pertaining to household debt are in this file. (HIES section 15).
DRBLS	Corresponds to the section entitled "Selected Household Durables Possessed on Date of Survey". (section 18 of the HIES)
CONSUM	This is the major household consumption expenditures data file. It should be noted that responses refer to cash expenditures, the value of home produced items, and those received as a gift or through barter. In addition, consumption was measured during three time periods: 30, 90, and 365 days prior to the interview. For analysis purposes, researchers at the World Bank recoded consumption responses into 3 variables (VAL30, VAL90, and VAL365) and annualized them (VAL30*12, VAL90*4). (section 12 of the HIES)
FACILITIES SURVEY DATA FILES	
FACIL	Contains all of the variables from the schedule which collected information concerning the availability of facilities.
LSMS DATA FILES	
COVERN	The data set contains coversheet data.
ROSTERN	Contains household roster variables, and head-of-household variables.
HEALTHN	File of health module variables.
EDUCN	Variables are from the education module.
FERTCNN	Information on children even born to informant for fertility module.
FERTWNN	Questions 1-15 from fertility module.
MIGRATN	Includes migration items.
ANTHRON	Contains anthropometric data. Also contains data concerning childhood immunizations, diet, and dietary supplements.

Expenditures are based on real prices. All expenditures were then *annualized*, which is reflected in the value of the variables included in the constructed data set. YRCONS2 and YRCONS2N also include non-consumption expenditures (such as gifts, contributions, and interest) plus total disbursements and other expenditures. Expenditures on household durables were not included in the aggregate because these items provide a flow of services over time. Due to the limitations of the data set, it was not possible to calculate a "use value" that would more accurately measure true household welfare.

61. YRCONS1 and YRCONS2 are deflated by two regional price indices; one for food and one for non-food items. YRCONS1N and YRCONS2N are not deflated. The prices were deflated because there are substantial regional price differentials, particularly between coastal areas and the interior. The cost of transporting products to the interior, which is largely done by air, is high and is reflected in the price of goods there. The limited demand in remote areas only further inflates prices. For example, the cost of a pound of sugar purchased in Lethem, a town near the Brazilian border, is estimated to be nearly four times higher than in Georgetown. By using the spatial price indices based on the 16 strata defined in the file, it is possible to make standard comparisons of welfare across regions.

62. The regional price index for food reflects an average calculated from real food prices paid (for a given quantity -from the expenditure data) on plantains, cassava, yams, bananas, mangos, and sugar. Georgetown was used as the base for prices. The non-food expenditure index was calculated using an average for two imported goods which were widely consumed (powdered milk and tomato paste). There was no non-food expenditure item which was consumed in all regions and thus the powdered milk-tomato paste average had to be used to construct the index. Because these are imported goods and had to be flown in, it is believed that the price reflects the travel costs. The food index was then used to deflate food expenditures, and the non-food index was used to deflate non-food expenditures.

Regional Price Indices					
<i>Stratum</i>	<i>Food</i>	<i>Non-Food</i>	<i>Stratum</i>	<i>Food</i>	<i>Non-Food</i>
1	.86	.91	9	.99	1.2
2	.86	.85	10	.98	.93
3	.86	.96	11	1.0	1.0
4	.95	.79	12	.98	.77
5	.89	.74	13	1.0	.72
6	.95	.83	14	1.1	.67
7	.93	.81	15	1.0	.75
8	4.42	1.3	16	.90	.68

63. *Linking Data Sets.* To link the LSMS and HIES files, the user will need to use the variable NEWID. It was constructed by combining the ED number, the ED subsample, and the household number. The user will want to note that the variable has six digits and care should be taken to ensure that the data format retains all of the digits.

64. There will be households that do not match from one dataset to the next. The following table indicates how many records can be merged between the household characteristic files from the LSMS and HIES surveys.

LSMS FILES		HIES FILES		
COVERN	ROSTERN	HH CHAR	CON KM03	COUNT
NO	NO	NO	YES	38
NO	NO	YES	NO	6
NO	NO	YES	YES	48
YES	NO	NO	NO	6
YES	NO	YES	NO	3
YES	NO	YES	YES	9
YES	YES	NO	NO	37
YES	YES	YES	NO	419
YES	YES	YES	YES	1333

Problems

65. *Missing values.* Missing values were defined throughout the questionnaires and are accordingly reflected in the data files.

66. *Skip Patterns.* In the questionnaires, extensive use is made of *skip patterns*. This was desirable to maximize the ease with which the interview could be conducted and to include all questions that applied to a particular household or individual, but exclude those that were not relevant to a particular respondent or household. The researcher must be aware of these skip patterns so that the data are properly interpreted. The skip patterns are, in most cases, clear. If there is no instruction the next question should be asked regardless of the response. An arrow followed by a number in parentheses ($\Rightarrow 2$) after a particular response indicates which question should be asked if that reply is given. This implies skipping over other questions. An arrow in a rectangle indicates which question to ask next regardless of the response. Where a question has been skipped over, there is no data recorded in the data set. No explicit code for "no answer" is given.

67. *Data cleaning.* This took place over four months in the GBS. A series of consistency checks were run in dbase. A list of errors was then compiled, with corrections eventually made after verifying the correct responses.

Appendix A. How to Obtain Guyana LSMS Data

The HIES, LSMS and Facilities data are solely the property of the Government of Guyana. The World Bank has been provided with unrestricted use of the data and may transfer the data to third parties on receipt of written permission from the Guyana Bureau of Statistics.

Requests for the HIES, LSMS, or Facilities data should include a description of the intended research and should be directed to:

Mr. Lennox Benjamin
Guyana Bureau of Statistics
Brickdam & Avenue of the Republic
Georgetown, Guyana
FAX: 592-2-62036

When authorization to use the data has been obtained, requests for the data sets may be sent to either GBS, above, or to:

The World Bank
Attn: LSMS Data
Living Standards Measurement Study
Poverty and Human Resources Division
Policy Research Department
1818 H Street, N.W.
Washington, D.C. 20433 USA

OR

LSMS@WORLDBANK.ORG

There is a nominal fee charged for the data files. The World Bank provides them on 3.5" high density diskettes, in SAS (version 5.0) portable, STATA (version 2.1), or ASCII format. The Poverty and Human Resources Division of The World Bank requests copies of all reports and documents resulting from research employing this data. The data may not be released to a third party; nor may they be used for any research other than that specified in the original request. Other researchers must contact GBS directly for access to these data. Any infringement on this policy will result in the denial of future access to World Bank LSMS data.

Appendix B. List of Data Sets Available

(See Appendix G for detailed contents of these files.)

1. LSMS Files

COVERN	Cover Sheet
ROSTERN	Household Roster
HEALTHN	Health Module
EDUCN	Education Module
FERTCNN	Fertility Module/Children Ever Born
FERTWNN	Fertility Module/Other Information
MIGRATN	Migration Module
ANTHRON	Anthropometric Module
WEIGHT	Expansion Factors

2. HIES Files

HHCHAR	Household Characteristics
MEMBA	Household Members Absent
MEMBP	Household Members Present
OUTSE	Output from Self-Employment
INPSE	Inputs from Self-Employment
INCRP	Income from Property
CONSUM	Consumption Expenditures
DEBT	Indebtedness
DRBLS	Selected Durables

3. Facilities File

FACIL	Available Facilities
-------	----------------------

4. Analysis File

CONKMO3	Constructed Variables
---------	-----------------------

Appendix C. List of Related Documents

Household Income and Expenditure Survey

Guyana Living Standards Measurements Survey

Availability of Facilities Survey

Guyana Living Standards Measurement Survey: Interviewer Manual. Guyana Bureau of Statistics, The World Bank. January 1993.

Guyana Living Standards Measurement Survey: Anthropometric Training Manual. January 1993.

Guyana Living Standards Measurement Survey: Data Entry Manual. Guyana Bureau of Statistics, The World Bank. January 1993.

Household Income and Expenditure Survey, 1992: Field Supervisor's Manual. May 1992.

Household Income and Expenditure Survey, 1992: Instruction Manual for Field Staff. May 1992.

Appendix D. List of Papers and Reports

World Bank. 1994. *Guyana: Strategies for Reducing Poverty*. Report No. 12861. Latin American and the Caribbean Region, Country Department III, Population and Human Resources Division, Washington, DC.

Guyana Bureau of Statistics. 1994. Report on the Household Income and Expenditures Survey 1992-93. Ministry of Finance, Georgetown.

Appendix E. Codes Not in Questionnaire

1991 POPULATION AND HOUSING CENSUS INDUSTRY CODES

Tabulation Categories	Group	Class	Description
A		AGRICULTURE, HUNTING AND FORESTRY	
	DIVISION 01	AGRICULTURE, HUNTING AND RELATED SERVICE ACTIVITIES	
	011	Growing of sugar cane	
	012	Field crop cultivation	
	013	Market gardening and horticulture	
	014	Livestock Farming	
	015	Mixed farming (farming of crop and livestock combined)	
	016	Agriculture, animal husbandry and horticultural services activities except veterinary activities	
	017	Hunting, trapping and game propagation and related service activities	
	DIVISION 02	FORESTRY, LOGGING AND RELATED SERVICE ACTIVITIES	
	020	Forestry, logging and related service activities	
B		FISHING	
	DIVISION 05	FISHING, OPERATION OF FISH HATCHERIES AND FISH FARMS, SERVICE ACTIVITIES INCIDENTAL TO FISHING	
	051	Fishing, operation of fish hatcheries and fish farms, service activities incidental to fishing	
C		MINING AND QUARRYING	
	DIVISION 10	MINING OF COAL AND LIGNITE; EXTRACTION OF HEAT	
	101	1010	Mining and agglomeration of hard coal
	102	1020	Mining and agglomeration of lignite
	103	1030	Extraction and agglomeration of heat

D	DIVISION 11		EXTRACTION OF CRUDE PETROLEUM AND NATURAL GAS, SERVICE ACTIVITIES INCIDENTAL TO OIL AND GAS EXTRACTION EXCLUDING SURVEYING
	111		Extraction of crude petroleum
	112		Extraction of Natural Gas
	113		Service Contractors
	114	1140	Service activities incidental to oil and gas extraction excluding surveying
	DIVISION 13		MINING AND METAL ORES
	131		Mining of iron ores
	DIVISION 14		OTHER MINING AND QUARRYING
	141		Other mining and Quarrying
			MANUFACTURING
	DIVISION 15		MANUFACTURE OF FOOD PRODUCTS AND BEVERAGES
	151		Production, processing and preservation of meat, fish, fruit, vegetables, oils and fats
	152	1520	Manufacture of dairy products
	153		Manufacture of grain mill products, starches and starch products, and prepared animal feeds
	154		Sugar factories and Refineries
	155		Manufacture of other food products
	156		Manufacture of beverages
	DIVISION 16		MANUFACTURE OF TOBACCO PRODUCTS
	160	1600	Manufacture of tobacco products
	DIVISION 17		MANUFACTURE OF TEXTILES
	171		Spinning, weaving and finishing of textiles
	172		Manufacture of other textiles
	173	1730	Manufacture of knitted and crocheted fabrics and articles
	DIVISION 18		MANUFACTURE OF WEARING APPAREL; DRESSING AND DYEING OF FUR
	181	1810	Manufacture of wearing apparel, except fur apparel

182	1820	Dressing and dyeing of fur; manufacture of articles of fur
DIVISION 19		TANNING AND DRESSING OF LEATHER; MANUFACTURE OF LUGGAGE, HANDBAGS, SADDLERY, HARNESS AND FOOTWEAR
191		Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness
192	1920	Manufacture of footwear
DIVISION 20		MANUFACTURE OF WOOD AND OF PRODUCTS OF WOOD AND CORD, EXCEPT FURNITURE; MANUFACTURE OF ARTICLES OF STRAW AND PLAITING MATERIALS
201	2010	Saw milling and planing of wood
202		Manufacture of products of wood, cork, straw and plaiting materials
DIVISION 21		MANUFACTURE OF PAPER AND PAPER PRODUCTS
210		Manufacture of paper and paper products
DIVISION 22		PUBLISHING, PRINTING AND REPRODUCTION OF RECORDED MEDIA
221		Publishing
222		Printing and service activities related to printing
223	2230	Reproduction of recorded media
DIVISION 23		MANUFACTURE OF COKE, REFINED PETROLEUM PRODUCTS AND NUCLEAR FUEL
231	2310	Manufacture of coke oven products
232	2320	Manufacture of refined petroleum products
233	2330	Processing of nuclear fuel
DIVISION 24		MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS
241		Manufacture of basic chemicals
242		Manufacture of other chemical products
243		Manufacture of man-made fibers
DIVISION 25		MANUFACTURE OF RUBBER AND PLASTIC PRODUCTS
251		Manufacture of rubber products

252	2520	Manufacture of plastics products
DIVISION 26		MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS
261	2610	Manufacture of glass and glass products
269		Manufacture of non-metallic mineral products n.e.c.
DIVISION 27		MANUFACTURE OF BASIC METALS
271	2710	Manufacture of basic iron and steel
272	2720	Manufacture of basic precious and non-ferrous metals
273		Casting of Metals
DIVISION 28		MANUFACTURE OF FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT
281		Manufacture of structural metal products, tanks, reservoirs and steam generators
289		Manufacture of other fabricated metal products; metal working service activities
DIVISION 29		MANUFACTURE OF MACHINERY AND EQUIPMENT N.E.C.
291		Manufacture of general purpose machinery
292		Manufacture of special purpose machinery
293	2930	Manufacture of domestic appliances n.e.c.
DIVISION 30		MANUFACTURE OF OFFICE, ACCOUNTING AND COMPUTING MACHINERY
311	3110	Manufacture of electric motors, generators and transformers
312	3120	Manufacture of electricity distribution and control apparatus
313	3130	Manufacture of insulated wire and cable
314	3140	Manufacture of accumulators, primary cells and primary batteries
315	3150	Manufacture of electric lamps and lighting equipment
319	3190	Manufacture of other electrical equipment n.e.c.
DIVISION 32		MANUFACTURE OF RADIO, TELEVISION AND COMMUNICATION EQUIPMENT AND APPARATUS

321	3210	Manufacture of electronic valves and tubes and other electronic components
322	3220	Manufacture of television and radio transmitters and apparatus for line telegraphy
323	3230	Manufacture of television and radio receivers, sound or video recording or reproducing apparatus, and associated goods
DIVISION 33		MANUFACTURE OF MEDICAL ,PRECISION AND OPTICAL INSTRUMENTS, WATCHES AND CLOCKS
331		Manufacture of medical appliances and instruments and appliances for measuring, checking, testing, navigating and other purpose, except optical instruments
332	3320	Manufacture of optical instruments and photographic equipment
333	3330	Manufacture of watches and clocks
DIVISION 34		MANUFACTURE OF MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS
341	3410	Manufacture of motor vehicles
342	3420	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semitrailers
343	3430	Manufacture of parts and accessories for motor vehicles and their engines
DIVISION 35		MANUFACTURE OF OTHER TRANSPORT EQUIPMENT
351		Building and repairing of ships and boats
352	3520	Manufacture of railway and tramway locomotives and rolling stock
353	3530	Manufacture of aircraft and spacecraft
359		Manufacture of transport equipment n.e.c.
DIVISION 36		MANUFACTURE OF FURNITURE; MANUFACTURING N.E.C.
361	3610	Manufacture of furniture
369		Manufacturing n.e.c.
DIVISION 37		RECYCLING
371	3710	Recycling of metal waste and scrap

	372	3720	Recycling of non-metal waste and scrap
E			ELECTRICITY, GAS AND WATER SUPPLY
	DIVISION 40		ELECTRICITY, GAS , STEAM AND HOT WATER SUPPLY
	401	4010	Production, collection and distribution of electricity
	402	4020	Manufacture of gas; distribution of gaseous fuels through mains
	403	4030	Steam and hot water supply
	DIVISION 41		COLLECTION, PURIFICATION AND DISTRIBUTION OF WATER
	410	4100	Collection, purification and distribution of water
F			CONSTRUCTION
	DIVISION 45		CONSTRUCTION
	451	4510	Site preparation
	452	4520	Building of complete constructions of part thereof; civil engineering
	453	4530	Building installation
	454	4540	Building completion
	455	4550	Renting of construction or demolition equipment with operator
G			WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES, MOTORCYCLES AND PERSONAL AND HOUSEHOLD GOODS
	DIVISION 50		SALE, MAINTENANCE AND REPAIR OF MOTOR VEHICLES AND MOTORCYCLES; RETAIL SALE OF AUTOMOTIVE FUEL
	501	5010	Sale of motor vehicles
	502	5020	Maintenance and repair of motor vehicles
	503	5030	Sale of motor vehicle parts and accessories
	504	5040	Sale, maintenance and repair of motorcycles and related parts and accessories
	505	5050	Retail sale of automotive fuel
	DIVISION 51		WHOLESALE TRADE AND COMMISSION TRADE EXCEPT OF MOTOR VEHICLES AND MOTOR CYCLES

511	5110	Wholesale on a fee or contract basis
512		Wholesale of agricultural raw materials, live animals, food, beverages and tobacco
513		Wholesale of household goods
514		Wholesale of non-agricultural intermediate products, waste and scrap
515	5150	Wholesale of machinery, equipment and supplies
519	5190	Other wholesale
DIVISION 52		RETAIL TRADE, EXCEPT OF MOTOR VEHICLES AND MOTORCYCLES; REPAIR OF PERSONAL AND HOUSEHOLD GOODS
521		Non-specialized retail trade in stores
522	5200	Retail sale of food, beverages and tobacco in specialized stores
523		Other retail trade of new goods in specialized stores
524	5240	Retail sale of second-hand goods in stores
525		Retail trade not in stores
526	5260	Repair of personal and household goods

H

HOTELS AND RESTAURANTS

DIVISION 55		HOTELS AND RESTAURANTS
551		Hotels; camping sites and other provision of short-stay accommodation
552		Restaurants, bars and canteens

I

TRANSPORT, STORAGE AND COMMUNICATIONS

DIVISION 60		LAND TRANSPORT; TRANSPORT VIA PIPELINES
601		Bus transport
602		Taxis and rental of passenger motor vehicle-with operator
603	6030	Freight Transport
604		Other land transport
605		Transport via pipeline
DIVISION 61		WATER TRANSPORT
611	6110	Sea and coastal water transport

612	6120	Inland water transport
DIVISION 62		AIR TRANSPORT
621	6210	Scheduled air transport
622	6220	Non-scheduled air transport
DIVISION 63		SUPPORTING AND AUXILIARY TRANSPORT ACTIVITIES; ACTIVITIES OF TRAVEL AGENCIES
630		Supporting and auxiliary transport activities; activities of travel agencies
DIVISION 64		POST TELECOMMUNICATIONS
641		Post and courier activities
642	6420	Telecommunications

J

FINANCIAL INTERMEDIATION

DIVISION 65		FINANCIAL INTERMEDIATION, EXCEPT INSURANCE AND PENSION FUNDING
651		Monetary intermediation
659		Other financial intermediation
DIVISION 66		INSURANCE AND PENSION FUNDING, EXCEPT COMPULSORY SOCIAL SECURITY
660		Insurance and pension funding, except compulsory social security
DIVISION 67		ACTIVITIES AUXILIARY TO FINANCIAL INTERMEDIATION
671		Activities auxiliary to financial intermediation, except insurance and pension funding
672	6720	Activities auxiliary to insurance and pension funding

K

REAL ESTATE, RENTING AND BUSINESS ACTIVITIES

DIVISION 70		REAL ESTATE ACTIVITIES
701	7010	Real estate activities with own or leased property
702	7020	Real estate activities in a fee or contract basis
DIVISION 71		RENTING OF MACHINERY AND EQUIPMENT WITHOUT OPERATOR AND OF PERSONAL AND HOUSEHOLD GOODS
711		Renting of transport equipment
712		Renting of other machinery and equipment

713	7130	Renting of personal and household goods n.e.c.
DIVISION 72		COMPUTER AND RELATED ACTIVITIES
721	7210	Hardware consultancy
722	7220	Software consultancy and supply
723	7230	Data Processing
724	7240	Data base activities
725	7250	Maintenance and repair of office, accounting and computing machinery
729	7290	Other computer and related activities including sales
DIVISION 73		RESEARCH AND DEVELOPMENT
731	7310	Research and experimental development on natural sciences and humanities (NSE)
732	7320	Research and experimental development on social sciences and humanities (SSH)
DIVISION 74		OTHER BUSINESS ACTIVITIES
741		Legal, accounting, book-keeping and auditing activities; tax consultancy; market research and public opinion polling; business and management consultancy
742		Architectural, engineering and other technical activities
743	7430	Advertising
749		Business activities n.e.c.

M

EDUCATION

DIVISION 80		EDUCATION
801	8010	Primary education
802		Secondary education
803	8030	Higher education
809	8090	Adult and other education

N

HEALTH AND SOCIAL WORK

DIVISION 85		HEALTH AND SOCIAL WORK
851		Human health activities
852	8520	Veterinary activities
853		Social work activities

O **OTHER COMMUNITY, SOCIAL AND PERSONAL SERVICES ACTIVITIES**

DIVISION 90 SEWAGE AND REFUSE DISPOSAL SANITATION
AND SIMILAR ACTIVITIES

900 9000 Sewage and refuse disposal, sanitation and similar
activities

DIVISION 91 ACTIVITIES OF MEMBERSHIP ORGANIZATIONS
N.E.C.

911 Activities of business, employers and professional
organizations

912 9120 Activities of trade unions

919 Activities of other membership organizations

DIVISION 92 RECREATIONAL, CULTURAL AND SPORTING
ACTIVITIES

921 Motion picture, radio, television and other entertainment
activities

922 9220 News agency activities

923 Library, archives, museums and other cultural activities

924 Sporting and other recreational activities

DIVISION 93 OTHER SERVICE ACTIVITIES

930 Other service activities

P **PRIVATE HOUSEHOLDS WITH EMPLOYED PERSONS**

DIVISION 95 PRIVATE HOUSEHOLDS WITH EMPLOYED
PERSONS

950 9500 Private household with employed persons

Q **EXTRA-TERRITORIAL ORGANIZATIONS AND BODIES**

DIVISION 99 EXTRA-TERRITORIAL ORGANIZATIONS AND
BODIES

990 9900 Extra-territorial organizations and bodies

**1991 POPULATION AND HOUSING CENSUS
OCCUPATION CODES**

MAJOR GROUP 1- LEGISLATORS, SENIOR OFFICIALS AND MANAGERS

Workers in this major group comprise persons whose main tasks consist of planning, formulating and deciding on policies, laws, rules and regulations or national, state, regional or local governments or legislative assemblies or of planning, formulating, organizing, coordinating, controlling and directing policies and operations of enterprises and organizations.

11. *Legislators and Senior Officials*

111 Legislators

Workers in this minor group decide or participate in formulating policies; make or repeal laws and official regulations and interpret policies.

112 Senior Government Officials

Workers in this minor group decide or participate in formulating policies; make or repeal laws and official regulations and interpret policies.

113 Traditional Chiefs and Heads of Villages

114 Senior Officials of Special-Interest Organizations

Workers in this minor group direct the implementation of policies in special interest organizations such as political part organization, trade union, employers' organization, sport associations.

12. *Corporate and Specialized Managers*

121 Directors and Chief Executives

Workers in this minor group direct the operations of organizations.

122 Specialized managers (except Production and Operations)

Workers in this minor group plan, organize, coordinate and control the activities of establishments, other than those related to Production and Operations.

123 Specialized Managers, Production and Operations

Workers in this minor group plan, organize, coordinate and control the production and operations activities of establishments engaged in Manufacturing, Physical and Engineering Sciences and Public Utilities.

13. *Small Business Managers and Managing Supervisors.*

131 Small Business Managers and Managing Supervisors

Workers in this minor group plan, organize, coordinate and supervise the activities of small businesses. They run these commercial undertakings either on their own or behalf of the proprietors.

14. *Hospitality Industry*

141 Hospitality Managers (Hotels and Restaurants affiliated with Hotels and Guest Houses)

151 Other managerial Occupations Allied to the Tourist Industry.

MAJOR GROUP 2 - PROFESSIONALS

Workers in this major group require a high level of professional knowledge and experience in Engineering, Natural Sciences, Social Sciences, Humanities and related fields. The main tasks consist of engaging in the practical application of scientific and artistic concepts and theories, increasing the existing stock of knowledge by means of research and creativeness, and teaching about the foregoing in a systematic manner.

21. *Physical, mathematical, Building and Engineering Science Professionals*

211 Physical Scientists and Related Professionals

Workers in this minor group conduct pure and applied research and develop practical applications of scientific knowledge in the field of physical sciences, they normally specialize in a particular branch of physical science, such as organic, inorganic, physical or analytical chemistry. mechanics, heat, light, sound, electricity and magnetism, electronics, nuclear physics, geophysics, geology, meteorology and astronomy and they may specialize in developing practical applications in medical, industrial, military or other particular fields.

212 Mathematicians, Statisticians and Related Professionals

Workers in this minor group conduct research in the science of statistics to develop improved statistical methodology, advise on practical applications of statistical methods, plan and conduct statistical surveys and evaluate, organize and interpret problems in specific fields; apply knowledge of mathematics, statistics and financial affairs to the design and operation of insurance and pension schemes.

213 Computer Professionals

Workers in this minor group analyze data processing needs and problems of business enterprises and other organizations and advise on and introduce automatic data processing systems.

214 Architects, Engineers and Related Professionals

Workers in this minor group design buildings and supervise their construction; plan and coordinate development of urban areas; plan, design and supervise landscaping; study, design, advise and supervise the construction of civil engineering structures; study, advise on and develop plant, equipment and processes in electrical, electronic, mechanical, chemical, mining and other engineering fields; develop and control processes properties of metals, develop new alloys and advise on metallurgical problems; study, develop and advise on the promotion of efficient safe and economic utilization of personnel, materials and equipment; study, plan and advise on the routing and control of road traffic; make trigonometric surveys of the earth's surface and under ground areas; prepare technical drawings and maps.

22. *Life Science and Health Professionals*

221 Life Science Professionals

Workers in this minor group conduct pure and applied research and development practical application of scientific knowledge in the field of the life sciences. They normally specialize in a particular branch of life sciences, such as biology, botany, zoology, anatomy, biochemistry, physiology, pharmacology, pathology, animal genetics and ecology, agronomy, silviculture, horticulture or pisciculture. They may specialize in developing practical applications in medical, industrial agricultural and other particular fields.

222	Health Professionals	Workers in this minor group diagnose, and prescribe and give medical and surgical curative and preventative treatment for human and animal illnesses, make and dispense medicaments.
23	<i>Graduate Teaching Professionals</i>	
231-239	Graduate Teaching Professionals	Workers in this minor group having attained graduate status, conduct classes and give private lessons to instruct students at the tertiary (University) level and at the secondary and technical conventional level, undertake research and advise on teaching methods and instructional aids and organize and direct teaching activities in schools.
231	College, University and Higher Education Teaching Professionals	
232	Secondary Education Graduate Teachers	
233	Technical/Vocational Education Graduate Teachers	
234	Primary and Pre-Primary School-Teaching Professionals	
235	Special Education teaching professionals	
239	Other Graduate Teaching Professionals and Related Workers	

24. *Other Professionals*

241 Business and Government Professionals

Workers in this minor group plan and direct accounting services, advise on accountancy problems and plan and conduct financial audits; are involved in employee recruitment, placement or employee-management relations, vocational guidance, analysis or occupations to assist personnel and administration department. These workers may be employed either in the private or public sectors.

242 Legal Professionals

Worker in this minor group plead cases or conduct prosecutions in courts of justice, preside over judicial proceedings and pronounce judgements, give advice on legal matters, draw up legal documents, draft legislation and perform other legal functions.

243 Archivist, Librarians and Other Information Professionals

Workers in this minor group organize, develop and maintain systematic collections of books and other recorded material and make them available to library users; collect, organize and preserve permanent records and historically valuable documents in archives; direct and organize museums and art galleries.

244 Social and Related Science Professionals

Worker in this minor group conduct research and apply the principles and theories of economical and other social sciences to formulate solutions to economic and social problems; study languages and translate or interpret written matter or the spoken word from one language to another.

245 Writers, Artists and related professionals

Workers in this minor group write literary works for publication or dramatic presentation and compose other written material to inform, entertain or influence the public; create and execute artistic works by sculpturing, painting and drawing; compose, adapt, conduct and perform musical works and dances; produce, direct and act in theatrical, motion picture and broadcast productions.

246 Religious Professionals

Workers in this minor group minister religion, give spiritual guidance, propagate religious doctrines, perform a variety of other functions associated with the propagation and practice of religious and endeavor to cure human ailments by the power of faith.

247 Ships' Captains and Pilots

Workers in this minor group command and navigate ships and hovercraft.

MAJOR GROUP 3 - TECHNICIANS AND ASSOCIATE PROFESSIONALS

Workers in this major group require the experience and knowledge of principles and practices necessary to assume operational responsibility and to give technical support to Professionals in Engineering, Natural Sciences, Social Sciences, Humanities and related fields.

31 *Physical Science and Engineering Associate Professionals*

311 Physical Science and Engineering Technicians

Workers in this minor group, by performing auxiliary technical tasks, normally under supervision, in the field of physical sciences and engineering, give support to the Professionals in the field.

312 Computer Programmers and Equipment Controllers

Workers in this minor group prepare programs to control automatic processing of data by computers; control the equipment used in the automatic processing of data.

313 Optical and Electronic Equipment Controllers

Workers in this minor group take photographs and direct and operate motion picture and television cameras; operate radio and television broadcasting equipment; install and operate sound-recording and amplifying apparatus and operate cinema projectors; operate medical equipment for diagnostic and therapeutic treatment.

- 314 Ship and Aircraft Controllers and Technicians
- Workers in this minor group direct and supervise engine-room activities on board ship; direct marine services and supplies or mechanical overhauls, replacement and repairs for vessels of a shipping line in port; pilot and navigate aircraft.
- 315 Building, Safety, Health and Quality Inspectors
- Workers in this minor group are involved in activities such as inspecting building plans and sites, structures and industrial installations, vehicles, processes and products to ensure adherence to health and safety laws. Regulations and standards.
- 32 *Life Science and Health Associate Professionals*
- 321 Life Science Technicians and Related Workers
- Workers in this minor group give support to the Professionals in the field of the life sciences by performing auxiliary technics and related tasks, normally under supervision.
- 322
- Workers in this minor group make and dispense medicaments; prescribe and fit spectacles; provide nursing services assist in the provision of special therapeutic services.
- 323 Non-Graduate Teachers
- Workers in this minor group endeavor to prevent or cure human illnesses using traditional techniques such as herbs and medicinal plants.
- 33 *Non-Graduate Teachers*
- Workers in these minor groups have not attained graduate status and conduct classes and give lessons to instruct students at the secondary, primary and pre-primary level.
- 331 Secondary Education Non-Graduate Teachers
- 332 Technical/Vocational Education Non-Graduate Teachers
- 333 Primary Education Non-Graduate Teachers
- 334 Pre-Primary Education Non-Graduate Teachers

- 335 Special Education Non-Graduate Teachers
- Workers in this minor group are the teachers of the blind deaf, physically and mentally handicapped.
- 339 Other Non-Graduate Teachers and Related Workers
- 34 *Other Associate Professionals*
- 341 Finance and Sales Associate Professionals
- Workers in this minor group sell securities, insurance, real estate; carry out specialized technical selling activities requiring knowledge of the technology of the composition, utilization and maintenance of the goods or equipment sold; sell specialized engineering and assimilated services; give technical information and advice to customers before and after sales; solicit orders and sell goods on a wholesale basis by visiting clients in a defined district; act as intermediaries for sales on behalf of local or foreign manufacturers to wholesale and retail establishments; buy goods for resale or use on behalf of wholesale, retail, industrial or other establishments; and auction property or commodities.
- 342 Trade Brokers and Business Services Agents
- Workers in this minor group act as intermediaries between buyers and sellers of goods by purchasing goods of the types, qualities and quantities required and selling these to retailers, industrial, commercial or other establishments or to individual customers; sell business services or organize, on a commission basis, the contact between buyers and sellers of business services, such as advertising space in printed and broadcasting media, performances or entertainers and artists.
- 343 Administrative Associate Professionals
- Workers in this minor group perform technical tasks which are contributory to the work of Administrative Professionals, Legal and Business Professionals, Accounting Professionals, Statistical and Mathematical Professionals.

344 Government Regulatory Officers

Workers in this minor group put into effect, according to instructions from administrators, the policy decisions of central or local government and implement law, rules and administrative regulations with respect to the collection of customs and excise duties, immigration, assessment of taxes, public assistance/welfare and pension matters and the granting of licenses.

345 Social Work Associate Professionals

346 Creative, Entertainment and Sports Associate Professionals

Workers in this minor group apply artistic media to decorative and sales promotion purposes; reads news bulletins and makes other announcements for broadcasting over radio and television; perform musical works and dances for street and night club audiences; perform a variety of amusing, mystifying and spectacular acts for entertainment of circus and other audiences; participate for again in , and regulate the conduct of, public sporting competitions, coach sportsmen in the skills of their sport and instruct persons in the development of their physical fitness.

347 Religious Associate Professionals

Workers in this minor group perform or assist in performing religious rites, participate in religious ceremonies and meetings.

349 Other Associate Professionals, NEC

MAJOR GROUP 4- CLERKS

Workers in this major group have the knowledge and experience necessary to record, organize, store and retrieve information; compute numerical, financial and statistical data; and perform a number of client - oriented clerical duties, especially in connection with money - handling operations, travel arrangements business information and appointments. Workers (such as head typist, chief book keeper etc.) whose duties consist primarily in supervising a group of workers all of whom perform, essentially the same type of clerical work (e.g. typing, book keeping) are classified in the same group as the workers supervised.

41 *Office Clerks*

411 Secretaries and Keyboard Operators

Workers in this minor group record oral or written matter by shorthand and typing; operate book keeping, calculating and automatic data processing machines.

412 Numerical Clerks

Workers in this minor group keep records of business transactions; calculate wages and costs; code and compile statistical data and perform other specialized book keeping and computing clerical duties.

413 Material Recording and Transport Clerks

Workers in this minor group record the receipt, storage, weighing and issuing of finished goods or materials; dispatch, receive, store, issue and weigh materials; prepare orders for materials required for production processes; calculate quantities needed and draw up production schedules.

414 Library, Mail and Related Clerks

Workers in this minor group maintain library records relating to the acquisition, issue and return of books and other publications and arrange and classify correspondence, invoices, receipts and other documents and records; perform sorting, recording, delivery and other duties in connection with the distribution of mail and the forwarding of messages; code and classify information, prepare and process documents such as those concerned with shipping and customs and verify printer's proofs. They may be employed in public services or private enterprises.

415 Other Office Clerks

Workers in this minor group perform a variety of clerical duties in the office such as maintaining personnel records; receiving, routing and despatching correspondence, searching public records and carrying out specialized tasks in connection with legal and insurance.

42 *Customer Services Clerks*

421 Cashiers, Tellers and Related Clerks

Workers in this minor group handle cash on behalf of an organization and its customers and maintain records of these financial transactions; issue receipts or tickets; conduct counter services such as transfer or banking of money and payment of fees; receive and pay off bets on the results of sporting events; lend money to customers on pledge or bonds, issue pawn tickets and record loans; prepare bills and collect outstanding debts.

422 Workers in this minor group are involved in activities such as receiving people, providing information and making travel arrangements in offices, hotels, travel agencies, airports and other establishments; transmit and receive messages by operating telecommunications equipment.

43 *Other Clerks and Related Workers*

430 Workers in this minor group perform miscellaneous clerical tasks not elsewhere classified such as registration or recording of information obtained from clients or customers. Such activities are not conducted in offices nor can they be classified as customer-service type.

MAJOR GROUP 5 - SERVICE WORKERS AND SHOP SALES WORKERS

Workers in this major group have the knowledge and experience necessary to provide protective services, personal services related to travel, house-keeping, catering and personal care, or to sell and demonstrate goods for wholesale or retail and similar establishments.

51 *Personal Services Workers*

511 Travel Attendants and Guides

Workers in this minor group are involved in activities such as issuing tickets and ensuring the safety and comfort of passengers on transport vehicles; escort travelers during sight-seeing tours and describe points of interest.

- 512 Housekeeping and Restaurant Services Workers
- Workers in this minor group organize, supervise and carry out housekeeping functions in enterprises, institutions and private households, and on board ships; supervise and perform various kinds of work related to the preparation and cooking of meals and the serving of food and beverages. They may be employed in hotels or other commercial establishments, in institutions or in private households or on board ships.
- 513 Personal Care Workers
- Workers in this minor group take care of children and other persons either at home or in institutions.
- 514 Other Personal Services Workers
- Workers in this minor group cut and dress hair, apply cosmetics and make-up and perform related tasks to improve the appearance of individuals; provide companionship and attend to employer's personal needs; embalm human bodies to retard or arrest the process of decay; make arrangement for funerals.
- 515 Astrologers, Fortune Tellers and Related Workers
- Workers in this minor group make forecasts of future events for particular clients or the general public basing predictions either on the position of stars and planets at specified times or on characteristics of the clients' palms, samples of playing cards drawn at random, or other factors.
- 52 *Protective Services Workers*
- 521 Protective Services Workers
- Workers in this minor group protect individuals and property against hazards and enforce law and order.
- 53 *Sales Persons, Demonstrators and Models*
- 531 Shop Sales Persons and Demonstrators
- Workers in this minor group sell and demonstrate goods in wholesale or retail establishments, solicit orders and perform related selling tasks.

532 Fashion and Other Models

Workers in this minor group wear and display clothing or other items for sale in showrooms and other places in order to demonstrate style and other characteristics.

MAJOR GROUP 6 - AGRICULTURAL, FORESTRY AND FISHERY WORKERS

Workers in this minor group are engaged in the growing and harvesting of crops, the breeding, feeding or hunting of animals, the gathering of wild fruit and plants, the catching or breeding of fish or the cultivation or gathering of other forms of aquatic life.

61 *Farmers*

611-613 General and specialized farmers and animals producers

Workers in this minor group conduct mixed farms to produce a variety of agricultural and animal husbandry products, or specialized farms to produce a particulate type of agricultural or animal husbandry product, on their own behalf or in partnership.

611 General Farmers and Animal Producers

612 Specialized Farmers

613 Other Specialized Farmers

614 Mixed Crop and Animal Farmers

62 *Skilled Agricultural and Animal Husbandry Workers*

621 Skilled Agricultural and Animal Husbandry Workers

Workers in this minor group perform a variety of tasks in growing field and market garden crops, cultivation trees, shrubs and flowers, breeding raising livestock and poultry and related agricultural and animal husbandry work.

- 63 *Forestry and Related Workers*
- 631 Forestry and Related Workers
- Workers in this minor group supervise and perfect tasks in the cultivation conservation and exploitation of forests.
- 64 *Fishery Workers, Hunters and Trappers*
- 641 Fishery Workers, Hunters and Trappers
- Workers in this minor group catch fish, hunt and trap animals and perform related tasks.

MAJOR GROUP 7 - CRAFT AND RELATED WORKERS

Workers in this major group are engaged in the extraction and treatment of raw materials, the manufacture and repair of structures and machinery. The main tasks of these occupations require experience with and understanding of the work situation, the materials worked with and the requirements of the structures, machinery and other items produced.

- 71 *Extraction and Building Trades Workers*
- 711 Miners and Blasters, Stone Cutters and Carvers
- Workers in this minor group extract solid material from underground or surface mines and quarries; charge monumental and ornamental purposes.
- 712 Building Frame and Related Trades Workers
- Workers in this minor group erect and repair buildings and other structures. They lay bricks and stones; erect re-enforced concrete frameworks; apply lath and plaster in buildings.
- 713 Building Finishers and Related Trades Workers
- Workers in this minor group fit roofs; apply insulating material to building, boilers, pipes, refrigeration and air-conditioning equipment; fit and set glass in buildings and vehicles; assemble, fit, install and repair plumbing fixtures, pipes and pipeline systems; install and service electrical wiring systems in homes, industrial plants and other establishments, and in ships, motor vehicle and aircraft; make, erect, fit and repair flooring, fixtures and paneling.

714 Painters, Structural Cleaners and Related Workers

Workers in this minor group prepare structural surfaces for painting and apply decorative and protective coatings to buildings, ships, motor vehicles and articles of wood, metal, textile and other materials (except glass and ceramics products).

72 *Metal and Machinery Trades Workers*

721 Metal Cutters, Welders, Sheet-Metal Workers, Structural Metals Preparers, and Related Workers

Workers in this minor group make molds and cores for casting metal form and cut metal parts using flame, electric-arc or other source of heat; make and repair articles and parts of articles of cold sheet metal; shape as girders and plates to form structures or structural frame works; rig cables, wires and ropes for lifting hauling and other purposes, and splice cables, or carry out similar work under water.

722 Blacksmiths, Toolmakers and Related Workers

Workers in this minor group hammer and forge metal by hand or machine, make tools, dies, patterns and other metal articles, using hand and machine tools, set up metal-cutting machine tools, operate machine tools and perform various metal working tasks not performed by workers classified elsewhere.

723 Machinery Mechanics and Fitters

Workers in this minor group assemble, install, service and repair various types of machinery, metal products, engines and mechanical equipment.

724 Electrical and Electronic Mechanics, Fitters, Installers and Repairers

Workers in this minor group fit, assemble install, maintain and repair electrical and electronic equipment such as electrical motors, generators, instruments, signal transmitters and receivers, domestic appliances, switchgear and control apparatus; install and service electrical power transmission cables, telephone and telegraph lines and related equipment.

- 73 Precision, handicraft, Printing and Related Trades Workers
- 731 Precision, Handicraft, Printing and Related Trades Workers
- Workers in this minor group make, service and repair watches, clocks and precision instruments, make and repair jewelry and precious metal-ware, shape and set gems and engrave designs on jewelry and precious metal-ware.
- 732 Potters, Glass Formers and Related Workers
- Workers in this minor group blow, mold, press and roll shapes from molten glass; cut, grind and finish glass, ceramics products from clay and abrasives; engrave, etch, paint and decorate glass and ceramics articles; perform other functions in the manufacture of glass and ceramics products.
- 733 Handicraft Workers in Wood, Textile, Leather and Related Materials
- Workers in this minor group include craftsmen and specialized workers performing functions requiring application of particular techniques and ability and experience in working particular materials to produce handicraft items.
- 734 Printing and Related Trades Workers
- Workers in this minor group compose, type, cast and engrave printing plates; bind plates; bind books; perform other related tasks.
- 74 *Other Craft and Related Workers*
- 741 Food and Related Products Processing Trades Workers
- Workers in this minor group slaughter animals and fish, treat and prepare them for human and animal consumption, make various kinds of bread and other flour products, prepare tobacco products, or inspect and grade and beverage products.
- 742 Cabinet Makers, Wood Treaters and Related Trades Workers
- Workers in this minor group season and preserve wood; make and repair wooden furniture, highly finished wooden fittings and similar objects, set and operate precision woodworking machines to saw, shape, plane, turn and carve wooden products and perform related woodworking tasks not elsewhere classified, such as making wooden carts, wheels, patterns, model, casks and smoking pipes.

743 Textile and Garment Trades Workers

Workers in this minor group weave materials on hand; make or take part in making garments, hats, gloves and other articles of textile, fur, leather and similar materials; upholster furniture and decoration.

744 Leather and Shoemaking Trades Workers

Workers in this minor group make leather from hides and skins; make and repair footwear mainly of leather and make saddles, harness and various other kinds of products from leather or similar materials.

749 Other Craft and Related Workers

MAJOR GROUP 8 - PLANT AND MACHINE OPERATORS AND ASSEMBLERS

Workers in this major group have the knowledge and experience necessary to operate vehicles and other mobile equipment, to tend, control and monitor the operation of industrial plant and machinery, on the spot or by remote control, or to assemble products from components parts according to strict rules and procedures. The tasks of these occupations require mainly experience with and understanding of the machinery used.

81 *Industrial Plant Operators*

811 Mining and Mineral-Processing Plant Operators

Workers in this minor group operate and monitor heavy equipment cutting channels in mine work face, plants processing mineral ore; erect and operate drilling plants and perform related tasks in the sinking and operation of wells.

812 Metal-Processing Plant Operators

Workers in this minor group operate furnaces to smelt, convert, melt and reheat metals; operate metal-rolling mills; pour metal into molds and operate metal-casting machines; alter the physical properties of metal objects by heating, cooling and chemical treatment; draw and extrude metals to make wire, pipes, tubes and similar products; operate equipment to plate and coat metal products; and perform related tasks.

- 813 Glass and Ceramic Kiln and Related Plant Operators
- Workers in this minor group operate furnaces and kilns to make glass, bake ceramics and anneal and temper glass.
- 814 Wood-Processing Plant Operators
- Workers in this minor group operate and monitor equipment, which saws and cuts wood in preparation for further use; convert wood and other materials into stock for making paper or operate plants that make paper for stock.
- 814 Wood-Processing Plant Operators
- 815 Chemical Processing Plant Operators
- Workers in this minor group crush, grind, mix, blend, cook, roast, filter, separate, distill, refine and otherwise treat chemicals and other materials used in chemical and related processes.
- 816 Workers in this minor group operate equipment to produce electric power and control its distribution; operate and tend stationary engines and related equipment such as steam boilers, air and gas compressors, pumps, refrigeration plant, heating and ventilation systems and water treatment, waste disposal and similar types of equipment
- 817 Automated Assembly Line Operators
- Workers in this minor group control, operate and monitor automated or semi-automated assembling processes and the operation industrial robots.
- 82 *Stationary Machine Operators and Assemblers*
- 821 Metal and Mineral Products Processing Machine Operators
- Workers in this minor group operate machines to form metal and other minerals into parts or finished products.

- 822 Chemical Products Machine Operators
- Workers in this minor group operate machine to process a variety of chemicals and other ingredient to produce pharmaceuticals, toiletries, explosives, photographic, or other chemical products, or to finish, plate and coat metal articles to give improved protection against corrosion.
- 823 Rubber and Plastic Products Machine Operators
- Workers in this minor group operate machine to make tires for vehicles or to knead, blend and form rubber, rubber compounds, leather or plastics to produce various components and articles.
- 824 Wood Products Machine Operators
- Workers in this minor group operate automatic or semi-automatic woodworking machines to perform repetitive work.
- 825 Printing, Binding and Paper Products Machine Operators
- Workers in this minor group operate various types of printing and copying machines, machines to bind and emboss books or machines to make various articles from paper, paperboard and similar materials.
- 826 Textile and Leather Products Machine Operators
- Workers in this minor group operate various types of machines to spin and wind thread, weave fabrics, bleach or dye textile products or sew or embroider garments.
- 827 Food and Related Products Processing Machine Operators
- Workers in this minor group operate various types of machines to process food and make food products for human and animal consumption.
- 828 Assemblers
- Workers in this minor group perform limited, specialized tasks in assembling components into products according to strictly laid out procedure. The products worked on may move from one worker to the next along assembly lines.
- 829 Other Stationary Machine Operators and Assemblers

- 83 *Drivers and Mobile Machinery Operators*
- 831 *Railway Engine Drivers and Related Workers*
- Workers in this minor group drive railway engines to transport materials, freight or passengers, maneuver railway coaches or operate railway signals.
- 832 *Motor Vehicle Drivers and Riders*
- Workers in this minor group drive vehicles and perform other tasks related to transport of passengers and freight by land transport vehicles.
- 833 *Agricultural, Earthmoving, Lifting and Other Mobile Materials handling Equipment Operators*
- Workers in this minor group operate cranes and other hoisting equipment; operate machine to plough, excavate, grade, level and compact earth; mix concrete and lay road surfaces of asphalt and concrete; operate specialized vehicles (not used for road transport) to lift, move, dump and stack materials in warehouses, on mining and construction sites and in timber yards and other establishments.
- 834 *Ships' Deck Crews and Related Workers*
- Workers in this minor group carry out deck and engine room duties aboard ships and other waterborne craft.

MAJOR GROUP 9 - ELEMENTARY OCCUPATIONS

Workers in this major group perform mostly simple and routine tasks, involving the use of simple hand-held tools and in some cases some physical effort is required. In a few cases limited personal initiative or judgement may be used.

- 91 *Sales and Service Elementary Occupations*
- 911 *Street and Stall Vendors and Related Workers*
- Workers in this minor group display and sell food or other products in the street, from door to door, or in the market place or solicit orders for products on the telephone.

- 912 Shoe Cleaning and Other Street Services elementary Occupations
Workers in this minor group clean shoes and provide other services on the street.
- 913 Workers in this minor group provide housekeeping services in private households, in institutions and other establishments; launder and press clothing by hand.
- 914 Building Caretakers and Window Cleaners
Workers in this minor group take care of and clean building interiors, equipment and furniture and windows.
- 915 Messengers, Watchers and Related Workers
Workers in this minor group deliver messages, packages and other goods; watch and guard either persons of private and public properties against hazards, fire, theft and illegal entry.
- 916 Garbage Collectors and Related Laborers
Workers in this minor group collect and remove garbage, sweep and wash the streets and other public places.
- 919 Other Sales and Services Elementary Occupations
- 92 *Agricultural, Animal Husbandry, Fishery and Related Workers and Laborers*
- 921-923 Agricultural and Animal Husbandry Workers and Laborers
Workers in these minor groups perform a variety of tasks for a simple and routine nature in the growing of field and market garden crops, cultivation of trees, shrubs and flowers, breeding and raising of livestock and poultry; maintenance of grounds used for sporting and recreational purposes.
- 921 General Farm Helpers and Animal Husbandry Workers
- 922 Agricultural Workers and Laborers
- 923 Other Agricultural and Related Workers and Laborers

924	Forestry Workers and Laborers	Workers in this minor group perform a variety of simple tasks associated with cultivation, conservation and exploitation of forests, such as the digging of holes for tree planting, pulling, pushing, piling of cut trees and logs.
925	Fishery and Hunting Workers and Laborers	Workers in this minor group perform a variety of simple tasks associated with the catching, breeding, and cultivation of fish and other aquatic life and the catching of animals.
93	<i>Laborers in Mining, Construction, Manufacturing and Transport</i>	
931	Mining and Construction Laborers	Workers in this minor group perform simple and routine tasks requiring physical effort and the use of simple hand tools such as picks, shovels or wheelbarrows and are engaged in the extraction material from underground of surface mines, from well and quarries or road and building construction.
932	Manufacturing Laborers	Workers in this minor group perform manual tasks involved in manufacturing processes such as installation and assembling of parts, packing of materials by hand in containers for storage or shipment.
933	Transport Laborers	Workers in this minor group perform freight handling tasks, such as loading and unloading ship and aircraft cargoes and other freight drive vehicles drawn by animals.
94	<i>Other Laborers</i>	
940	Other laborers n.e.c.	
999	Occupations not adequately described	

MAJOR GROUP 0 - DEFENSE FORCE

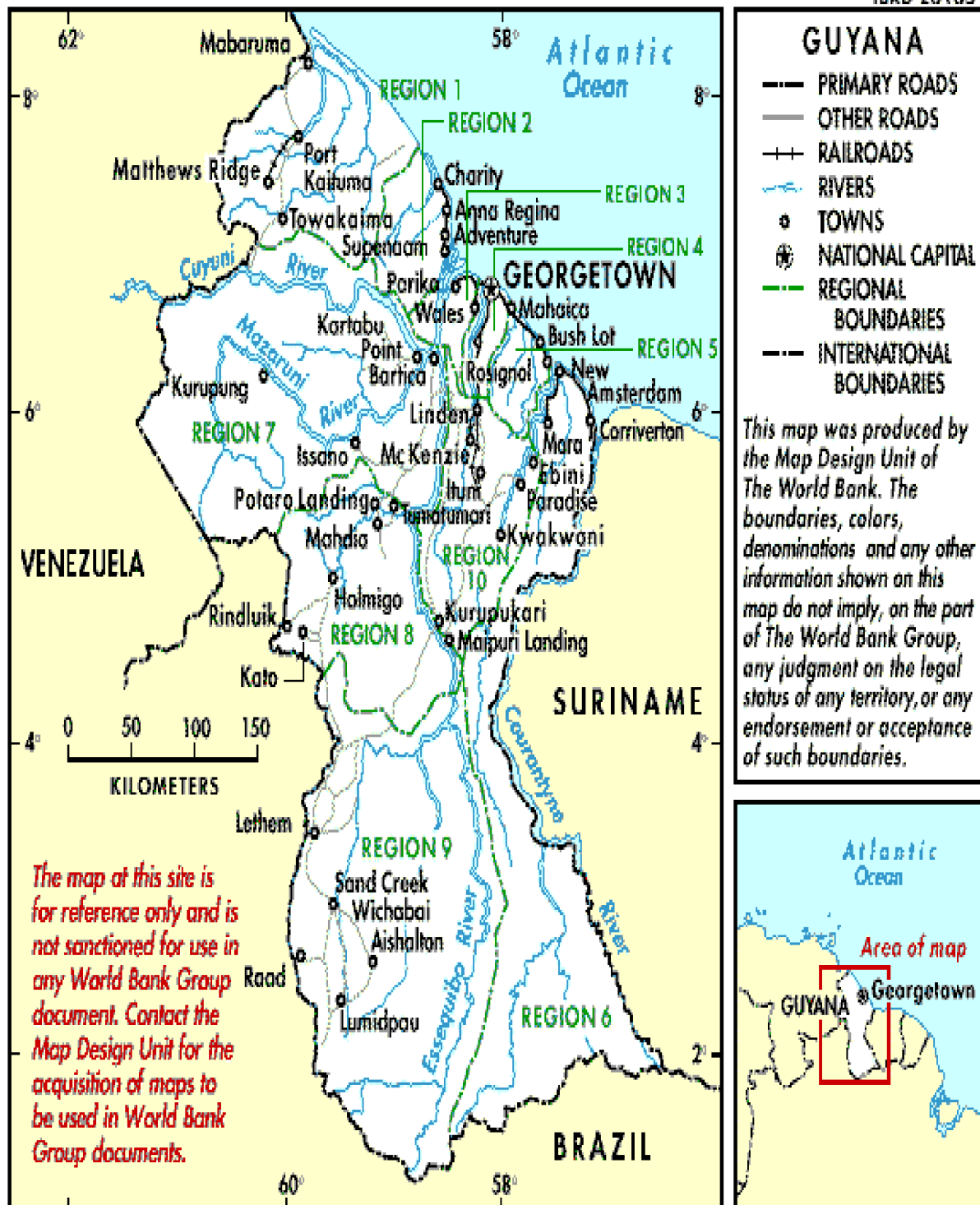
01 *Defense Force*

011 Defense Force

Workers in this major group carry out military operations undertaken as collective defense measures, prepare and train to deter military aggression, are engaged in the surveillance and protection of national territory, airspace and coastal waters, provide aid to civilian authorities as requested in the event of civil disorder, natural disaster and other emergencies.

Appendix F. Map

IBRD 28185



AUGUST 1996

Appendix G. Contents of HIES and LSMS data files

Data File: COVERN

Description: LSMS Cover Sheet

Variable Name	Item Number	Description
id		
section		
rgn	4	Region
sector	6	Sector
stno	7	Stratum Number
ma	8	Major Division Number
ed	9	Enumeration District Number
sn	10	Enumeration District Serial Number
ssn	11	Sub-sample Number
hh	12	Sample Household Number
dde		Data Entry - day
mde		Data Entry - month
yde		Data Entry - year
newid		

Data File: ROSTERN

Description: LSMS Household Roster

Variable Name	Item Number	Description
id		
section		
rgn		Region
sector		Sector
stno		Stratum Number
ma		Major Division Number
ed		Enumeration District Number
sn		Enumeration District Serial Number
ssn		Sub-sample Number
hh		Sample Household Number
pid		
rll	2	Relationship to head of household
sx	3	Gender
ag	4	Age (years)
mstt	5	Membership status
uns	6	Union status
rln	7	Religion

For children under 15 years.

nm	8	Does natural mother live in this household?
nmid	9	ID code of natural mother
cme	10	Highest education level of mother
nf	11	Does natural father live in household?
nfid	12	ID code of natural father
cfe	13	Highest education level of natural father.
newid		

Data File: HEALTHN LSMS Health

Description: LSMS Health Module

Variable Name	Item Number	Description
id		
section		
rgn		Region
sector		Sector
stno		Stratum Number
ma		Major Division Number
ed		Enumeration District Number
sn		Enumeration District Serial Number
ssn		Sub-sample Number
hh		Sample Household Number
pid		
sick	1	Sickness or injury during last 30 days?
dsick	2	How many days of sickness?
nsick	3	Number of days incapacitated.
vtp	4	Visited a health practitioner for this sickness?
wnv	5	If NO, why not?
pv	6	If YES, where was visit.
att	7	Who attended.
trnsp	8	Means of transport.
miles	9	How far?
time	10	Time it took.
tcost	11	Cost of trip, both ways.
wtime	12	Time spent waiting for care.
nov	13	How many visits.
mdc	14	Total costs of visits, last 30 days.
stfcn	15	Satisfied with treatments?
ovrngt	16	Overnight stay in hospital?
mdcn	17	Purchase medicine during last 30 days?
ppblc	18	Bought medicine in public facility?
ppvt	18	Bought medicine in private facility?
com	19	Total cost of medicines, last 30 days (excludes insurance).
prvtins	20	Covered by private insurance?
nis	21	Payments to NIS?
rnis	22	Received payments from NIS?
fnis	23	Filed claims under NIS, last 12 months?
nc	24	If NO, why not?
ntf	25	How many NIS claims filed, last 12 months.
ntr	26	How many NIS payments received, last 12 months.
ar	27	How much received from NIS, last 12 months.
pc	28	Preventive care received, last 12 months?
Women 13-49 Years Only:		
c	29	Have a child under 1 year?
pb	30	Currently pregnant or breastfeeding?
newid		

Data File: EDUCN

Description: LSMS Education Module

Variable Name	Item Number	Description
id		
section		
rgn		Region
sector		Sector
stno		Stratum Number
ma		Major Division Number
ed		Enumeration District Number
sn		Enumeration District Serial Number
ssn		Sub-sample Number
hh		Sample Household Number
pid		
afa	1	Age first attended school
attnd	2	Attending school this year?
sctp	3	Type of school last attended
hs	4	Highest standard or form attained at that school.
ala	5	At what age last attended school?
ta	6	What type of school currently attending?
st	7	What standard or form attending this year?
pp	8	Public or private school.
rpt	9	Ever repeated a standard or form?
rp	10	How many years repeated in primary school?
rs	11	How many years repeated in secondary school?
ash	12	Lives at home while attending school?
da	13	How many days attended last week?
f fd	14	Meal or snack through school?
sb	15	School provides textbooks?
pb	16	Household purchase textbooks?
trns	17	Mode of transport to school.
tm	18	Length of one way trip.
dst	19	Distance of school from home.
cst	20	Monthly cost of transport.
co	21	Daily expenditure for lunch and snacks.
Family Expenditures During School Year (3 Terms) for:		
tc	22	Tuition and contributions
un	22	Uniforms
bks	22	Books
othr	22	Other Supplies
bl	22	Board and lodging
exf	22	Exam fees
newid		

Data File: FERTWNN

Description: Questions 1-15 of LSMS fertility module

Variable Name	Item Number	Description
id		Old ID, do not use
section		Described elsewhere
rgn		Region
sector		Sector
stno		Stratum Number
ma		Major Division Number
ed		Enumeration District Number
sn		Enumeration District Serial Number
ssn		Sub-Sample Number
hh		Sample Household Number
pid		
egb	1	Ever given birth?
bh	2	No. of living boys in household
gh	3	No. of living girls n household
boh	4	No. of living boys out of household
goh	5	No. of living girls out of household
bd	6	No. of boys died
gd	7	No. of girls died
nob	8	Total no. of births
pnt	9	Currently pregnant?
mc	10	Want more children?
cntra	11	Using contraception?
mtd	12	Method used most?
src	13	Source of contraceptive?
pc	14	Pay for contraceptive?
hopc	15	How often paid for in last 12 months?
amnt	16	Amount each time?
mrr	17	Married?
nou	18	No. of unions
aiu	19	age at first union
newid	20	USE THIS ID
area	21	Code, 1-4 for geographic area
urban	22	1=urban
qpcx2	23	Per capita quintiles

Data File: FERTCNN

Description: Questions on children ever born from LSMS Fertility Module

Variable Name	Item Number	Description
id		
section		
rgn		Region
sector		Sector
stno		Stratum Number
ma		Major Division Number
ed		Enumeration District Number
sn		Enumeration District Serial Number
ssn		Sub-sample Number
hh		Sample Household Number
mb	17	Month born
yb	17	Year born
bg	18	Gender
alv	19	Still living?
chcks	20	Pregnancy checkups while pregnant?
nochck	21	How many pregnancy check-ups?
atn	22	Anti-tetanus shot during pregnancy?
bplc	23	Where was birth?
assnt	24	Who assisted in birth?
wng	25	Months breastfed exclusively?
cddm	26	Month child died
cddy	26	Year child died
newid		
order		
pid		

Data File: MIGRATN

Description: LSMS Migration Module

Variable Name	Item Number	Description
id		
section		
rgn		Region
sector		Sector
stno		Stratum Number
ma		Major Division Number
ed		Enumeration District Number
sn		Enumeration District Serial Number
ssn		Sub-sample Number
hh		Sample Household Number
pid		
msx	2	Sex of household member living away.
mag	3	Age (years)
medc	4	Education level prior to departure.
ysabr	5	Years gone.
rl	6	Most important reason for leaving.
mt	7	Destination
ctb	8	Contribution to household? (cash, in-kind)
ri	9	Regular or irregular contributions.
newid		

Data File: ANTHRON

Description: LSMS Anthropometry

Variable Name	Item Number	Description	
id			
section			
rgn		Region	
sector		Sector	
stno		Stratum Number	
ma		Major Division Number	
ed		Enumeration District Number	
sn		Enumeration District Serial Number	
ssn		Sub-sample Number	
hh		Sample Household Number	
pid			
bd	1	Birth day	Must be used together (d,m,yr)
bm	1	Birth month	
byy	1	Birth year	
wlb	2	Weight (pounds)	Must be used together (lbs, ozs.)
woz	2	Weight (ounces)	
ayr	3	Age (years)	Must be used together (yrs., mos.)
amnth	3	Age (months)	
msr	4	Was child measured?	
rmsr	5	Reason not measured	
awgt	6	Weight (pounds)	
lngth	7	Length (inches)	
wmsr	8	Child measured lying, standing	
drara	9	Diarrhea during last 2 weeks?	
<u>Immunizations</u>			
pl	10	Polio (# of doses)	
dptra	11	Diphtheria (# of doses)	
ttns	12	Tetanus (y/n)	
tblss	13	Tuberculosis (y/n)	
msls	14	Measles (y/n)	
bf	15	Child breastfed exclusively?	
agwn	16	Age child weaned	
fd	17	First diet after weaning	
pd	18	Child's present diet	
vtn	19	Does child receive vitamin supplement?	
tvtn	20	Type of vitamin supplement	
vsrc	21	Source of vitamin supplement	
newid			

Data Set Name:	HHCHAR	Observations:	1819
Description:	HIES Household Characteristics	Variables:	190
Engine:	V607	Indexes:	0
Created:	16:31 October 7, 1993	Observation Length:	693
Last Modified:	16:31 October 7, 1993	Deleted Observations:	0
Protection:		Compressed:	NO
Data Set Type:		Sorted:	NO

----- Alphabetic List of Variables from HHCHAR (HIES) -----

#	Variable	Type	Len	Pos	Label
146	BLDG1	Num	2	575	P3116.11: TYPE OF BUILDING
147	BLDG2	Num	2	577	P3116.12: YEAR OF CONSTRUCTION
148	BLDG3	Num	2	579	P3116.13: MATERIAL OF WALLS
149	BLDG4	Num	2	581	P3116.14: MATERIAL OF ROOF
25	DWELL	Num	2	59	P3Q311:TENURE OF DWELLING
7	ED_DVSN	Num	3	12	
8	ED_SMPL	Num	3	15	
20	ETH_HD	Num	2	45	P3Q36:ETHNIC GROUP- HEAD
158	HHL D1	Num	2	599	P3116.31: TENANCY
159	HHL D2	Num	3	601	P3116.32: RESIDENCE-MONTHS
160	HHL D3	Num	4	604	P3116.33: MONTHLY RENT
161	HHL D4	Num	2	608	P3116.34: # ROOMS OCCUPIED
162	HHL D5	Num	3	610	P3116.35: AREA OF ROOMS-SQ. FT.
163	HHL D6	Num	2	613	P3116.36: FACILITIES SHARED
15	HHSIZE	Num	2	34	P2Q31:HOUSEHOLD SIZE
18	HHTYP	Num	2	41	P3Q34:HOUSHOLD TYPE
150	HOUS1	Num	2	583	P3116.21: OWNERSHIP
151	HOUS2	Num	2	585	P3116.22: TYPE OF UNIT
152	HOUS3	Num	2	587	P3116.23: COOKING FACILITY
153	HOUS4	Num	2	589	P3116.24: TOILET FACILITY
154	HOUS5	Num	2	591	P3116.25: BATHING FACILITY
155	HOUS6	Num	2	593	P3116.26: WATER SUPPLY
156	HOUS7	Num	2	595	P3116.27: SEWERAGE SYSTEM
157	HOUS8	Num	2	597	P3116.28: LIGHTING TYPE
14	ID_NMBR	Num	6	28	HOUSEHOLD ID
24	LNDOWN	Num	4	55	P3Q310:LAND OWNED-ACRES
23	LNDPOS	Num	4	51	P3Q39:LAND POSSESSED-ACRES
16	MAINHHSZ	Num	2	36	P2Q32:MAIN HOUSEHOLD SIZE
110	MDIS1	Num	4	431	P29Q21: L 30 D - ADD TO BANK DEP.
112	MDIS2	Num	4	439	P29Q22: L 30 D - LOAN REPAYMENT
114	MDIS3	Num	4	447	P29Q23: L 30 D - LOAN GIVEN
116	MDIS4	Num	4	455	P29Q24: L 30 D - INVESTED-STOCKS...
118	MDIS5	Num	4	463	P29Q25: L 30 D - CREDIT PAYMENT
120	MDIS6	Num	4	471	P29Q26: L 30 D - PRINCIPAL PAID
122	MDIS7	Num	4	479	P29Q27: L 30 D - INVEST-REAL ESTATE
124	MDIS8	Num	4	487	P29Q28: L 30 D - INVEST-ENTERPRISE
126	MDIS9	Num	4	495	P29Q29: L 30 D - BUILDING SOCIETIES
128	MDIS10	Num	4	503	P29Q210: L 30 D - DONATIONS
140	MDIS11	Num	4	551	P29Q211: L 30 D-TOTAL JEWELRY
142	MDIS12	Num	4	559	P29Q212: L 30 D - OTHER DISBURS.
144	MDIS13	Num	4	567	P29Q213: L 30 D-TOTAL DISBURSEMENTS
130	MDIS111	Num	4	511	P29Q2111:L 30 D-GOLD ORNAMENTS
132	MDIS112	Num	4	519	P29Q2112:L 30 D-SILVER ORNAMENTS
134	MDIS113	Num	4	527	P29Q2113:L 30 D-OTHER ORNAMENTS
136	MDIS114	Num	4	535	P29Q2111:L 30 D-GOLD/SILVERWARE

138	MDIS115	Num	4	543	P29Q2112:L 30 D-OTHER JEWELRY
30	MEALOUT	Num	2	77	P3Q316:OUTSIDE MEAL L/30D?
6	MJR_DVSN	Num	2	10	
82	MNC1	Num	4	319	P29Q21: L 30D - DIRECT TAXES
84	MNC2	Num	4	327	P29Q22: L 30D - TAXES,DUTIES,ETC
102	MNC4	Num	4	399	P29Q24: L 30D - TRANSFERS
104	MNC5	Num	4	407	P29Q25: L 30D - SUBS./CONTR.
106	MNC6	Num	4	415	P29Q26: L 30D - INTEREST- DEBT
108	MNC7	Num	4	423	P29Q27: L 30D - TOTAL NON-CONS. EXP.
78	MNC11	Num	4	303	P29Q211: L 30D - INCOME TAXES
80	MNC12	Num	4	311	P29Q212: L 30D - OTHER DIRECT TAXES
86	MNC31	Num	4	335	P29Q231: L 30D - PENSION CONTR.
88	MNC32	Num	4	343	P29Q232: L 30D - PROV. FUND CONTR.
90	MNC33	Num	4	351	P29Q433: L 30D - SOC. SEC. CONTR.
92	MNC34	Num	4	359	P29Q234: L 30D - LIFE INS. PREM.
94	MNC35	Num	4	367	P29Q435: L 30D - HEALTH INS. PREM.
96	MNC36	Num	4	375	P29Q236: L 30D - PROP. INS. PREM.
98	MNC37	Num	4	383	P29Q237: L 30D - OTHER INS. PREM.
100	MNC38	Num	4	391	P29Q238: L 30 D - SUB-TOTAL 31-37
31	NCEREM	Num	2	79	P3Q41:# CEREMONIES L/30D
22	NEARNRS	Num	2	49	P3Q38:NUMBER OF EARNERS
32	NMEALS1	Num	3	81	P3Q42:# MEALS AT CEREMONIES
33	NMEALS2	Num	3	84	P3Q43A:# OTHER MEALS - GUESTS
34	NMEALS3	Num	3	87	P3Q43B:# OTHER MEALS - EMPLOYEES
35	NMEALS4	Num	3	90	P3Q44:TOTAL # MEALS SERVED
17	OCCUP	Num	3	38	P3Q33:PRINCIPAL OCCUPATION
36	OINCM1	Num	5	93	P10Q12: ROYALTIES - L/30D
38	OINCM2	Num	5	103	P10Q22: INTEREST - L/30D
40	OINCM3	Num	5	113	P10Q32: DIVIDENDS - L/30D
42	OINCM4	Num	5	123	P10Q42: PENSIONS - L/30D
44	OINCM5	Num	5	133	P10Q52: ANNUITIES - L/30D
46	OINCM6	Num	5	143	P10Q62:FAMILY ALLOWANCES-L/30D
48	OINCM7	Num	5	153	P10Q72:OTH SOC SEC BENEFITS- L/30D
50	OINCM81	Num	5	163	P10Q821: LOCAL REMITTANCES- L/30D
52	OINCM82	Num	5	173	P10Q822:FOREIGN REMITTANCES- L/30D
54	OINCM91	Num	5	183	P10Q921: OTHER INCOME - I - L/30D
56	OINCM92	Num	5	193	P10Q922: OTHER INCOME - II - L/30D
37	OINCY1	Num	5	98	P10Q13: ROYALTIES - L/365D
39	OINCY2	Num	5	108	P10Q23: INTEREST - L/365D
41	OINCY3	Num	5	118	P10Q33: DIVIDENDS - L/365D
43	OINCY4	Num	5	128	P10Q43: PENSIONS - L/365D
45	OINCY5	Num	5	138	P10Q53: ANNUITIES - L/365D
47	OINCY6	Num	5	148	P10Q63:FAMILY ALLOWANCES-L/365D
49	OINCY7	Num	5	158	P10Q73:OTH SOC SEC BENEFITS- L/365D
51	OINCY81	Num	5	168	P10Q831: LOCAL REMITTANCES- L/365D
53	OINCY82	Num	5	178	P10Q832:FOREIGN REMITTANCES- L/365D
55	OINCY91	Num	5	188	P10Q931: OTHER INCOME - I - L/365D
57	OINCY92	Num	5	198	P10Q932: OTHER INCOME - II - L/365D
58	ORECM1	Num	5	203	P10Q12: INSURANCE - L/30D
60	ORECM2	Num	5	213	P10Q22: INHERITANCE - L/30D
62	ORECM3	Num	5	223	P10Q32: LOTTERY,ETC - L/30D
64	ORECM4	Num	5	233	P10Q42: SALE-PROPERTY - L/30D
66	ORECM5	Num	5	243	P10Q52: SALE-DURABLES - L/30D
68	ORECM6	Num	5	253	P10Q62: LOANS-L/30D
70	ORECM7	Num	5	263	P10Q72: LOAN REPAYMENTS- L/30D
72	ORECM8	Num	5	273	P10Q82: SAVING WITHDRAWAL- L/30D
74	ORECM91	Num	5	283	P10Q921: OTHER RECEIPTS - I - L/30D
76	ORECM92	Num	5	293	P10Q922: OTHER RECEIPTS - II - L/30D

59	ORECY1	Num	5	208	P10Q13: INSURANCE - L/365D
61	ORECY2	Num	5	218	P10Q23: INHERITANCE - L/365D
63	ORECY3	Num	5	228	P10Q33: LOTTERY,ETC - L/365D
65	ORECY4	Num	5	238	P10Q43: SALE-PROPERTY - L/365D
67	ORECY5	Num	5	248	P10Q53: SALE-DURABLES - L/365D
69	ORECY6	Num	5	258	P10Q63: LOANS-L/365D
71	ORECY7	Num	5	268	P10Q73: LOAN REPAYMENTS- L/365D
73	ORECY8	Num	5	278	P10Q83: SAVING WITHDRAWAL- L/365D
75	ORECY91	Num	5	288	P10Q931: OTHER RECEIPTS - I - L/365D
77	ORECY92	Num	5	298	P10Q932: OTHER RECEIPTS - II -L/365D
168	OWNH122	Num	4	625	P32122: PURCHASE VALUE
169	OWNH123	Num	4	629	P32123: INITIAL PAYMENT
170	OWNH124	Num	2	633	P32124: # OF INSTALLMENTS
171	OWNH125	Num	2	635	P32125: PERIODICITY-INST.
172	OWNH126	Num	4	637	P32126: AMT. OF INSTALLMENT
164	OWNHH1	Num	2	615	P321: HOUSING CONSTRUCT/PURCHASE?
175	OWNHH3	Num	2	649	P323: ANY PART RENTED OUT?
165	OWNHH11	Num	4	617	P3211: COST OF CONSTRUCTION
173	OWNHH21	Num	4	641	P3221: CURRENT RENTAL VALUE-OUT
174	OWNHH22	Num	4	645	P3222: CURRENT RENTAL VALUE-IN
176	OWNHH31	Num	4	651	P3231: PROP. FLOOR AREA RENTED OUT
177	OWNHH32	Num	4	655	P3232: MONTHLY RENT FOR AREA
178	OWNHH41	Num	4	659	P3241: AMT SPENT-MAINT/REPAIR-L/365D
179	OWNHH42	Num	4	663	P3242: PROPERTY TAXES L/365 D
180	OWNHH43	Num	4	667	P3243: INT ON LOANS PAID L/365 D
166	OWNH12M	Num	2	621	P3212M: MONTH PURCHASED
167	OWNH12Y	Num	2	623	P3212Y: YEAR PURCHASED
27	PCEXP	Num	4	65	P3Q313:PER CAPITA EXPENDITURE
29	PCINC	Num	4	73	P3Q315:PER CAPITA INCOME
12	R_F_SBS	Num	2	24	
187	RENT3	Num	2	683	P32Q3: ANY OTHER CHARGES W/TENANCY?
188	RENT4	Num	2	685	P32Q4:HOUSING PROV-EMPL/CHARIT. ORG?
189	RENT5	Num	2	687	P32Q5: RENTAL SUBSIDIZED?
190	RENT6	Num	4	689	P32Q6: IF PAID, RENTAL VALUE
181	RENT1A	Num	2	671	P32Q1A: INCLUDE FURN. W/RENTAL
182	RENT1B	Num	2	673	P32Q1B: INCL. KITCHEN EQUIP W/RENT
183	RENT1C	Num	2	675	P32Q1C: HEATING/COOLING EQUIP INCL.
184	RENT2A	Num	2	677	P32Q2A: RENTAL INCLUDE WATER SUPP?
185	RENT2B	Num	2	679	P32Q2B: RENTAL INCLUDE ELECTRICITY?
186	RENT2C	Num	2	681	P32Q2C: RENTAL INCLUDE GAS?
3	RGN	Num	2	4	
4	RLT_HD	Num	2	6	
13	RSPNS_CD	Num	2	26	
1	SB_RND	Num	2	0	
9	SB_SMPL	Num	2	18	
19	SEG	Num	2	43	P3Q35:SOCIO-ECONOMIC GROUP
21	SELFEMP	Num	2	47	P3Q37:HHLD SELF-EMPLOYED?
10	SMPL_HH	Num	2	20	
11	SRVY_CD	Num	2	22	
5	STRTM	Num	2	8	
2	SX	Num	2	2	
26	TOTEXP	Num	4	61	P3Q312:TOTAL HHLD EXPENDITURE
28	TOTINC	Num	4	69	P3Q314:TOTAL HHLD INCOME
111	YDIS1	Num	4	435	P29Q31: L 365 D - ADD TO BANK DEP.
113	YDIS2	Num	4	443	P29Q32: L 365 D - LOAN REPAYMENT
115	YDIS3	Num	4	451	P29Q33: L 365 D - LOAN GIVEN
117	YDIS4	Num	4	459	P29Q34: L 365 D - INVESTED-STOCKS...
119	YDIS5	Num	4	467	P29Q35: L 365 D - CREDIT PAYMENT

121	YDIS6	Num	4	475	P29Q36: L 365 D - PRINCIPAL PAID
123	YDIS7	Num	4	483	P29Q37: L 365 D - INVEST-REAL ESTATE
125	YDIS8	Num	4	491	P29Q38: L 365 D - INVEST-ENTERPRISE
127	YDIS9	Num	4	499	P29Q39: L 365 D - BUILDING SOCIETIES
129	YDIS10	Num	4	507	P29Q310: L 365 D - DONATIONS
141	YDIS11	Num	4	555	P29Q311: L 365 D-TOTAL JEWELRY
143	YDIS12	Num	4	563	P29Q312: L 365 D - OTHER DISBURS.
145	YDIS13	Num	4	571	P29Q313: L 365 D-TOTAL DISBURSEMENTS
131	YDIS111	Num	4	515	P29Q3111:L 365 D-GOLD ORNAMENTS
133	YDIS112	Num	4	523	P29Q3112:L 365 D-SILVER ORNAMENTS
135	YDIS113	Num	4	531	P29Q3113:L 365 D-OTHER ORNAMENTS
137	YDIS114	Num	4	539	P29Q3111:L 365 D-GOLD/SILVERWARE
139	YDIS115	Num	4	547	P29Q3112:L 365 D-OTHER JEWELRY
83	YNC1	Num	4	323	P29Q31: L 365D - DIRECT TAXES
85	YNC2	Num	4	331	P29Q32: L 365D - TAXES,DUTIES,ETC
103	YNC4	Num	4	403	P29Q34: L 365D - TRANSFERS
105	YNC5	Num	4	411	P29Q35: L 365D - SUBS./CONTR
107	YNC6	Num	4	419	P29Q36: L 365D - INTEREST - DEBT
109	YNC7	Num	4	427	P29Q37: L 365D - TOTAL NON-CONS. EXP
79	YNC11	Num	4	307	P29Q311: L 365D - INCOME TAXES
81	YNC12	Num	4	315	P29Q312: L 365D - OTHER DIRECT TAXES
87	YNC31	Num	4	339	P29Q331: L 365D - PENSION CONTR.
89	YNC32	Num	4	347	P29Q332: L 365D - PROV. FUND CONTR.
91	YNC33	Num	4	355	P29Q333: L 365D - SOC. SEC. CONTR.
93	YNC34	Num	4	363	P29Q334: L 365D - LIFE INS. PREM.
95	YNC35	Num	4	371	P29Q335: L 365D - HEALTH INS. PREM.
97	YNC36	Num	4	379	P29Q336: L 365D - PROP. INS. PREM.
99	YNC37	Num	4	387	P29Q337: L 365D - OTHER INS. PREM.
101	YNC38	Num	4	395	P29Q338: L 365D - SUB-TOTAL 31-37222

Data File: CONKMO3

Description: Constructed Variables for World Bank Analysis

Variable Name	Description	
ID_NMBR	Old ID. Do not use. See NEWID.	
NEWID	Replaces ID_NMBR.	
FOODEXP	Food and beverage, 10101 - 11298	These variables contain the sum of the values of val30, val90, val365 for each of the specified expenditure items. Val30, val60, val365 and all expenditure items are from the file CONSUM. For each item, a value is found in only one of the 3 val.. variables. If the value is not in val365, the value is annualized.
FUELEXP	Fuel and HH supplies, 40201 - 40298, 50501 - 50598	
HOUSEXP	Housing and HH operational expenses, 40101 - 40198, 50601 - 50798	
DUREXP	Household durable goods, 50101 - 50198, 50201 - 50298, 50301 - 50398, 50401 - 50498	
PERSEXP	Personal care, 90101 - 91098, 90201 - 90298, 90301 - 90398, 90401 - 90498	
HLTHEXP	Health care, 70101 - 70598	
CLTHEXP	Clothing and footwear, 20101 - 30298	
TRNSEXP	Transportation, 60101 - 60398	
EDRECEXP	Education and recreation, 80101 - 80198	
MISCEXP	Miscellaneous, 11301 - 11398, 604, 907, 908, 909	
FOODK	Annualized food in-kind benefits.	From HIES, section 8, found in HMEMBP.
HOUSK	Annualized household in-kind benefits.	
OTH_CLK	Annualized "other" and clothing in-kind benefits.	
TOTEXP	HIES P3, q13. From HHCHAR, Total household expenditures.	
NCONEXP	Non-consumption expenditures, calculated by annualized YNC7 (in HHCHAR), plus annualized total disbursements and other expenditures (YDIS13, also in HHCHAR).	
PCEXP	Per capita expenditures: TOTEXP/SIZE	
TOTINC	HIES P3, Q14. From HHCHAR, Total household income.	
PCINC	Per capita income: TOTINC/SIZE	
RGN	Region (1-10)	
STRTM	Stratum (1-16)	
FDEF	Deflation Factor: Food	
NFDEF	Deflation Factor: Nonfood	
SIZE	Family size	
SIZEX	Equivalent household size: age 0-6=.2, 7-12=.3, 13-17=.5, >17=1.	
URBAN	1 = urban	
FDCONS	Food consumption. Same as FOODEXP.	
NFDCONS	FUELEXP + DUREXP + PERSEXP + CLTHEXP + MISCEXP	
FDCONSD	Deflated food consumption: FDCONS/FDEF	
NFDCONSD	Deflated nonfood consumption: NFDCONS/NFDEF	
YRCONS1	(Sum of FOODEXP -- OTH_CLK)/FDEF	
YRCONS2	(YRCONS1 + NCONEXP)/NFDEF	
PCCONS1	Per capita consumption: YRCONS1/SIZE	

PCCONS2	Per capita consumption plus nonconsumption expenditures: YRCONS2/SIZE	
PCXCONS1	Equivalent per capita consumption: YRCONS/SIZEX	
PCXCONS2	Equivalent per capita consumption plus nonconsumption expenditures: YRCONS2/SIZEX	
DECONS1	Total consumption expenditure decile (YRCONS1 ranked).	
DECONS2	YRCONS2 ranked.	
DECPC1	Per capita consumption decile (PCCONS1 ranked).	
DECPC2	PCCONS2 ranked.	
DECPCX1	Equivalent per capita decile (PCXCONS1 ranked).	
DECPCX2	PCXCONS2 ranked.	
QPC2		
SHR01	Food	Respective share of total expenditures: FOODEXP -- OTH_CLK, undeflated.
SHR02	Fuel, household supplies	
SHR03	Housing	
SHR04	Durables	
SHR05	Personal Care	
SHR06	Health Care	
SHE07	Clothing, etc.	
SHR08	Transportation	
SHR09	Education/recreation	
SHR10	Miscellaneous	
SHR11	Non-consumption	
AREA	1=urban Georgetown; 2=other urban; 3=coastal rural; 4=interior rural.	
YRCONS1N	See YRCONS1. Not deflated.	
YRCONS2N	See YRCONS2. Not Deflated.	
MALEHD	1=Male head of household.	
FEMHD	1=Female head of household	
SPOUSE	1=spouse lives in household	
HEAD	1=male head; 2=female head	
WATEXP		
HOUSEXP	Same as HOUSEEXP	
SHE03A	These sum to SHR03.	
SHR03B		