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Recensement Census



NATIONAL CENSUS TEST

Report No. 28

Evaluation of Processing Operations

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Report No. 28

Evaluation of Processing Operations

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Special Surveys Division

July 1994

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Introduction

This report discusses problems resolved in the processing (including capture) of the 1993 National Census Test (NCT) survey. It may help in the planning and development of any future Census Test, assuming the methodology of the Census to continue as a self-completion, mail-back paper-and-pencil form. On the other hand, the NCT was adapted to 1993 Labour-Force Survey (LFS) procedures; as the LFS moves to CAI (Computer-Assisted Interviewing) some of our problems may be unique to the 1993 test.

Field Operations - Background

The NCT used a November 8, 1993 reference date. Questionnaire drop-off started on Saturday October 30 and finished on Friday, November 5, 1993.

One component of the test was selection of a subsample of NCT households¹ whose responses were captured as the "Edit Failure Survey" (EFS) component of the survey as soon as received in the ROs, then sent back to interviewers for field edits and follow-up. These questionnaires were re-captured in order to test the field edits and follow-up.

Startup of data capture of EFS responses was delayed a day or two because of the November 11th holiday (Thursday) and problems encountered with the capture program written in the DC2 software. The first transmission was received from the Edmonton RO on Saturday, November 13, 1993. Data collection was completed for EFS responses by November 30, 1993. The raw EFS file consisted of 10,145 person-records.

Data capture of NCT responses started on December 10,1993 and the final transmission was received on January 26, 1994. The raw NCT file (combined LFS-based and special populations) consisted of 47,057 person-records.

Print Requirements

Labels: Labels and interviewer-assignment control-lists were generated through the LFS and had to fit in with the LFS production facilities. The household identification code on

¹Sample selection was completed on the Mainframe by Mike Egan. The main sample was selected as a subset of the LFS sample from April, May and June of 1991, which "rotated out" of (i.e., finished with) the LFS in September - November 1991. It was judged that, two years after LFS participation, the households would not have retained any bias in their attitudes from the LFS experience that would significantly affect their NCT responses. A total of 17,109 dwellings was selected. The EFS sample was 1/2 of the NCT sample, i.e.,8500 dwellings. A further 3985 dwellings were picked for "special population" samples, primarily from 1991 Census files.

labels and control lists was 15 bytes long, consisting of the LFS-file fields PSU, GROUP, CLUSTER, ROTATION, LISTING and MULTIPLE. Only fourteen bytes of identifying information were generated in the label program instead of fifteen, with 'multiple' not being printed. To resolve this problem regional offices were instructed to code '0' in 'multiple' on the labels and control lists. In spite of the instructions, 'multiple' was still blank for many cases on the assignment control lists. This was problematic because they were to be linked to household-related responses from the main questionnaire to create a Household file. To recover the multiple a match to the sample file to pick up this field was performed. All multiple codes of 1 or higher were selected and assigned manually on-line.

All linkage specifications used a 20-byte id consisting of the Interviewer Assignment Number (IAN), PSU, group, cluster, rotation, listing and multiple. With hindsight, it would have been better to have used a shorter household-id code similar to the LFS RO-DOCKET. Linking on a household identifier of twenty bytes was long, cumbersome and error-prone.

During assignment planning, ROs were asked to assign "7" as the second digit of the IAN if the dwelling was picked for the LFS-based sample, and "9" for special-population samples². In general, this worked and made it readily possible to separate and order the assignments for printing labels and assignment control sheets. However, there were a few errors which suggests that clean-ups must be done early in the initial stages of processing in order to verify the IAN.

Furthermore, to accommodate the IAN planning (R21 files) there needs to be adequate lead time to allocate IANs. These are allocated by PSU, GROUP and CLUSTER for the LFS rotate-out sample. We allowed three months for the completion of assignment planning in the regional offices.

A problem arose in the Special Population sample. Some EAs exceeded 75 households which was the maximum allocation for one assignment. In order for the ROs to determine how to break the EA down into meaningful geographical delineations at the household level the household id was carried on the L01 file. A hardcopy listing with address information was provided for each RO to cross reference with the household id given on the L01 file. For EAs that were too large for one assignment '01' was put in

²A total sample of 3985 households was selected using 1991 Census Visitation Records to locate EAs with high concentrations of the special populations of interest. The Winnipeg and Saskatoon Metis samples were obtained from provincial membership association lists. These households were in addition to the LFS-based main NCT sample.

the yield³. Fortunately, none of these procedures had an impact on the instruction manuals written by Survey Operations.

The Special Population samples were not weighted because they are not representative samples of the population in general, and national estimates will not be calculated from the information obtained. The major purpose of these samples is to evaluate the Census Test Questionnaire for specific groups⁴ that may experience particular problems with the proposed questions.

If there is to be a Special Population component in future Census tests then careful attention is required in the preparation of the "F03" files needed by LFS (John Rowland) as input to the "S03" print files needed by ISD (Kathy Reid/ Dave Bowman). Extra processing was required to reformat Special Population records into an "F03" structured response file. This file was required by the LFS to create an "S03" print file for the production of NCT labels and control lists. For the two Métis samples selected from membership association lists we had to make up dummy Prov-FED-EA-Hhld numbers. The proper Province code was assigned, '000000' for FED-EA and then Hhld number was sequentially assigned commencing at '001'. Group and Rotation were recoded to zeros. The LFS "F03 Short" record length is 280 bytes but the Special Population mock F03 was created as 131 bytes. The LFS F03 file expects a record length of 372 so the Special Population file was zero-filled to meet this requirement.

Two problems arose with the Special Populations. The F03 interviewer assignment numbers (IANs) were not moved over correctly and consequently did not match Dave Bowman's file. This was resolved in the program that merged the F03 and R21 (assignment planning) files. The LFS system required a current IAN as well as a previous IAN to be placed on the F03 file in two consecutive places. Secondly, it was decided that Edmonton was to handle the assignment planning for Winnipeg. This complicated the print file preparation so that Edmonton could print Winnipeg's labels by requiring a matching on PSU, Listing number and last byte of IAN for RO 16 and RO 17 data.

A few days were lost during production to produce a print file. Some more fields on the

³Yield is a required field according to Labour Force procedures for updating assignments in the ROs

⁴Blacks in Halifax, Asians in Montréal, Blacks in Montréal, Latin Americans in Montréal, Asians in Toronto, Blacks in Toronto, Aboriginals in Winnipeg, Métis in Saskatoon, Aboriginals in Regina, Aboriginals in Edmonton and Asians in Vancouver

372-byte F03 were identified that should have specific values⁵ (see footnote below for future reference).

Data Capture

The start of EFS data capture was delayed three or four days mainly because of bugs in the DC2 software being used for the NCT. Due to time constraints Special Surveys did not have an opportunity to review keyer instructions. One instruction called for household data (Steps 1 - 7 and QQ47 onwards) to be captured only once as a part of the person-1 record. In several cases, household data were captured for somebody other than person 1⁶. An ambiguity in the instructions may have been the reason. It would have been desirable to have reviewed and commented on the instructions.

In using DC2, there was no means of control to guarantee all household members had been captured. DC2 was capable of controlling for the number of forms but there was no way of knowing whether a key operator had missed out an entire person from the form. A higher level of verification than was used would be helpful.

The design of the questionnaire was set up for vertical capture to reflect the capturing of person records within the household. No colour distinction was made on the form to assist the key operator visually to stay in the correct column on each page. A recommendation for shading should be made if the budget can handle the additional cost for printing.

Another limitation of the DC2 software was that it lacked verification flexibility. For example, 100% of a given field had to be verified by re-keying for all forms. It was not possible to verify a sample of forms. It would have been preferable to have taken a subsample of documents and verified on several or all fields. If this option had been available a better picture of the error rate incurred by the key operator would have been evident. For budget reasons we chose to verify the 20-byte Household identifier and questions 2-5 for every form. We would advise with hindsight a higher level of verification.

Processing

 $^{^{5}}$ survey id (pos.25,1) = 1

preprinted code (pos.52,1)=1 (=0 if special populations)

pos. 54,8 = blank (flags based on a previous month - make special populations look like births)

pos. 280,1=0 (there are no notes)

pos. 266 = 1 (if flagged for EFS or blank on special populations)

⁶This occured primarily in the Montréal RO.

Since a major purpose of the test was to measure errors, the capture program was written and costed to allow for multiple entries for all precoded questions, including those with instructions "mark one only". It is questionable whether subject matter people were interested enough in multiple-response errors to make this worth while. Developing and testing the data capture entry system took many person-days more than if Special Surveys' standard processing practice had been used, of capturing the first response where only one is expected. Future tests might also use RO facilities for grooming before capture.

A shortage of resources during the processing was experienced. Planners and managers of any future Census test will want to be assured of having adequate, qualified programmers to handle complex programming requirements⁷. To complete the testing and production runs for the NCT three experienced programmers were found at short notice in January 1994, each available for a few weeks only. Each programmer was assigned his own tasks. What was being tested or produced and by whom required hour-to-hour attention and direction from a coordinator⁸.

Attention needs to be paid to the creation and availability of detailed test files. During the phase of program development for derived variables programmers wanted good test files. Because of the nature of the DVs these test files are best supplied by subject matter persons who are responsible for specifications for the DVs. Early advisement should be given to subject matter in order that they can prepare for this part of the processing.

Working on the same platform would have been advantageous in terms of location and management of file creation. For example, all of the processing could have been handled on our own LAN, or on the Census LAN (UNIX) or on the Mainframe. In actuality, there was a lot of uploading and downloading of production files in order to accomodate the two working environments used for the 1993 NCT⁹. From the creation of the RAW files to the PREDIT files the processing was handled on the Mainframe. Afterwards the processing was all done on the UNIX, except for one of the short-term borrowed programmers who preferred to work on the mainframe. At times the Unix was a bit slow due to maximum user capacity or space limitations. Presumably there are cost savings in using a LAN such as the Census Unix, although it might be difficult to determine just how much.

⁷The NCT Operational team in Special Surveys consisted of Phil Stevens -Manager, Neelam Prakash - Programmer (replacement for Mike Egan in September, 1993), and Lorie Shinder - Processing Rep.

⁸Evelyn Ryan of Census Operations controlled and monitored the assignment of tasks of the three programmers.

⁹Processing was developed and run on both the Mainframe as well as the UNIX.

Other than for income data (Q.46 in the test) there was no editing of results by Special Surveys after capture. For future tests, from a capture point of view, consideration should be given to omitting the income-question cents boxes, or to retaining the background colour in them (i.e., not dropping them out). They added to the incidence of error despite key operators being instructed not to capture the cents. Perhaps incomequestion instructions could be tested: "enter the amount to the nearest dollar". If future tests include editing the income data, verification on this field should be included, and there should be more edits included in the capture system. About four programmer-weeks were used in the test just to edit Q46 which became an expensive and time-consuming aspect of overall programming.

To satisfy LFS weight-correction procedures, every record in the main LFS-sample-based results file had to have an age value. Year of birth was imputed where missing, then age derived from it. Age was then copied to the EFS file. The EFS sample was a subset of the NCT LFS-based sample, with data for each person captured twice - once before field edits and follow-up in the EFS file, then after edits and follow-up in the NCT file. However, some records in the EFS file were not captured in the main NCT file, because not returned in time for NCT capture, or lost in the mail. In the step of copying age to the EFS file from the NCT file, an "unknown" value was given to EFS records not in the NCT file. Some of these EFS records nevertheless had valid year-of-birth data. It might have been desirable to allow for separate derivation of age for these records. If future tests follow the same methodology for an EFS component, this step should be taken into consideration.

A detailed plan of processing steps needs to be drafted as well as documented to provide an overview of the tasks at hand and in the proper sequence. For example, after the creation of many of the derived variables the NCT team became aware that the temporary and foreign residents (i.e., those checking Step 4 or Step 6 of the questionnaire) should have been dropped from the NCT and EFS files at earlier stages of processing, when duplicate and empty records were dropped. This also impacted on the coding because the write-ins had been split off and sent for coding before temporary and foreign residents were dropped. At the time of code linkage we had more codes than we could initially account for, until we recalled that the extras were from the dropped temporary and foreign residents. Up-to-date documentation is important 10.

Autocoding

An unanticipated component was the request by subject matter to allow for more than one code to be returned for a multiple response. One characteristic of the ACTR system is that it can only provide one code per write-in. Multiple responses for Ethnic origin

¹⁰Attached are the NCT and EFS processing flowcharts.

(Q16) and Language (Q09 and Q11) were resolved manually by subject matter. Using SAS, Special Surveys produced hardcopy to assist with the manual resolution. It contained additional information from other questions for the respondent as well as write-ins from other members of the household.

It would be helpful if Subject Matter people were to decide in advance if they wanted to include more than one code from write-ins, and if so the maximum number of entries, and how to handle situations which exceed that limit. In addition, they could specify their requirements for additional information to aid coding early in the planning for coding and whether or not a hardcopy or machine readable format is acceptable.

Resolution of multiple response might be handled better by assigning a unique code for a given multiple during initial coding and then resolving these codes after the linkage processing. The reasons would be twofold: first, Special Surveys could accurately verify code linkage back to the NCT and EFS files and second, Subject Matter would have an opportunity to look at all codes before deciding the appropriate course of action (e.g., whether to recode to more than one code or not).

The multiple response problem will continue to be problematic with the use of openended questions. If this style of questioning is used for the 1996 Census or the next NCT further system development will be required to handle the resolution of these cases.

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APPENDIX Processing Flow

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EFS DATAFLOW

EFS R	PROCESSIF AW FILE			
EFS BRANCH				
STEP 01:	SAS PROGRAM: SAS LOG: SAS OUTPUT: SAS CARD(S): INPUT FILE(S): OUTPUT FILE(S):	CAPS/COD/PROD/EFS/VLDPID.PGM CAPS/COD/PROD/EFS/VLDPID.LOG CAPS/COD/PROD/EFS/VLDPID.OUT	(10,145) (10,090)	
STEP 02:	SAS PROGRAM: SAS LOG: SAS OUTPUT: SAS CARD(S): INPUT FILE(S): OUTPUT FILE(S):	CAPS/COD/PROD/EFS/RAWNDU.PGM CAPS/COD/PROD/EFS/RAWNDU.LOG CAPS/COD/PROD/EFS/RAWNDU.OUT	(10,090) (10,087)	
STEP 03:	SAS PROGRAM: SAS LOG: SAS OUTPUT: SAS CARD(S): INPUT FILE(S): OUTPUT FILE(S):	CAPS/COD/PROD/EFS/NONTEMP2.PGM CAPS/COD/PROD/EFS/NONTEMP2.LOG CAPS/COD/PROD/EFS/NONTEMP2.OUT	(10,090) (10,087)	
s bran	:=====================================	**************************************		
AINFRAM 	E PROCESSI	ING:		
FIRST): SPEC.ICT9311_SRCE(SORT)	# pwge=55	40.44
	•	: SPEC.ICT9311.RAWPH1.ESSDEC01	# RECORDS:	-
	OUTPUT FILE(S)	: SPEC.ICT9311.RAWPH1.ESSDEC01.SORTED lrecl: 1728, blksize:8640	# RECORDS:	10, 14

INPUT FILE(S): SPEC.ICT9311.RAWPH1.ESSDEC01.SORTED # RECORDS: 10,145

RECORDS: 0 OUTPUT FILE(S): SPEC.ICT9311.RAWPH1.DUPS

RECORDS: 10,145 SPEC.ICT9311.RAWPH1.UNIQUE lrecl: 1728, blksize:8640

(Program is checking & producing output file with duplicate records)

SECOND PROGRAM: SPEC.ICT9311.SRCE(FSPLIT)

RECORDS: 10,145 INPUT FILE(S): SPEC.ICT9311.RAWPH1.ESSDEC01 *

* DOWNLOADED TO UNIX: /PROD/EFS/RAW1728.COMPLETE.DAT.00.DEC01

RECORDS: OUTPUT FILE(S): SPEC.ICT9311.RAWESS.PERSID00 # RECORDS: 10,090

: SPEC.ICT9311.RAWESS.VLDPERID * lrecl: 1728, blksize:8640

* DOWNLOADED TO UNIX: /PROD/EFS/VLDPID_RAW1728.DAT.01.DEC10

(Program is spliting records with PERSONID = '00')

PREDIT PROGRAM: FINAL FILE BEFORE GOING INTO PREDIT

THIRD PROGRAM: SPEC.ICT9311.SRCE(COMPEDIT)

RECORDS: 10,090 INPUT FILE(S): SPEC.ICT9311.RAWESS.VLDPERID

RECORDS: 10,090 OUTPUT FILE(S): SPEC.ICT9311.EFS.PREDIT.NONTEXT

lrect = 92, blksize = 8832

RECORDS: 9,551 : SPEC.ICT9311.EFS.PREDIT.TEXT

lrect = 532, blksize = 8512

(PL1 program is going through the PREDIT step and creating 2 output files;

(1)...TEXT file, lrecl =92, blksize = 8832 (2)...NON-TEXT file, lrecl = 532, blksize = 8512

FILE BEING PREPARED FOR AUTOCODING:

SUBSEQUENT PROGRAM(S) TO CREATE TEXT FILES FOR AUTOCODING

PROGRAM 1: SPEC_ICT9311_SRCE(ALLTEXT)

RECORDS: 10.145 INPUT FILE(S): SPEC.ICT9311.RAWPH1.ESSDEC01

LRECL: 1728, blksize = 8640

RECORDS: 10,145 OUTPUT FILE(S): SPEC.ICT9311.PF.RAWPH1.ALLTEXT

LRECL: 794, blsize = 8734

(Program is picking up all fields where text is and producing 1 big text file of 794 bytes which will be split in subsequent program)

PROGRAM 2 : SPEC.ICT9311.SRCE(SMALLTXT)

STEP A: SORT # RECORDS: 10,145 INPUT FILE: SPEC.ICT9311.PF.RAWPH1.ALLTEXT

LRECL: 794

72-BYTE OUTPUT FILE(\$):

SPEC.ICT9311.PF.RAWPH1.Q09TX1
SPEC.ICT9311.PF.RAWPH1.Q09TX2
SPEC.ICT9311.PF.RAWPH1.Q11TXT
SPEC.ICT9311.PF.RAWPH1.Q12TXT
SPEC.ICT9311.PF.RAWPH1.Q13TXT
SPEC.ICT9311.PF.RAWPH1.Q13TXT
SPEC.ICT9311.PF.RAWPH1.Q16TXT
SPEC.ICT9311.PF.RAWPH1.Q18TX1
SPEC.ICT9311.PF.RAWPH1.Q16TX2
SPEC.ICT9311.PF.RAWPH1.Q19TXT
SPEC.ICT9311.PF.RAWPH1.Q19TXT
SPEC.ICT9311.PF.RAWPH1.Q22TXT
SPEC.ICT9311.PF.RAWPH1.Q22TXTOC
SPEC.ICT9311.PF.RAWPH1.Q22TXTOC
SPEC.ICT9311.PF.RAWPH1.Q22TXTOC

97-BYTE OUTPUT FILE: SPEC.ICT9311.PF.RAWPH1.Q22TXTIC

163-BYTE OUTPUT FILE: SPEC.ICT9311.PF.RAWPH1.Q42TXT

RECORDS ON EACH OUTPUT FILE: 10,145

NOTE: Each of the above files created, is split into two files; non-blank & blanks; non-blanks are sent for autocoding.

STEP B1: SPLIT FOR Q09 TEXT 1 (KNOWLEDGE OF LANGUAGE)

INPUT FILE(S): SPEC.ICT9311.PF.RAWPH1.Q09TX1 # RECORDS: 10,145

LRECL: 72, BLKSIZE: 8856

CHIRDLE FLECCS: CDEC ECTORS1 DE DAUDHI DOGTKI NONBLK * # RECORDS: 902

OUTPUT FILE(S): SPEC.ICT9311.PF.RAWPH1.Q09TX1.NONBLK * LRECL: 72

* FILE SENT FOR AUTOCODING

: SPEC.ICT9311.RAWPH1.Q09TX1.BLANKS # RECORDS: 9,243

STEP 82: SPLIT FOR Q09 TEXT 2 (KNOWLEDGE OF LANGUAGE)

INPUT FILE(S): SPEC.ICT9311.PF.RAWPH1.Q09TX2 # RECORDS: 10,145

LRECL: 72

: SPEC.ICT9311.PF.RAMPH1.Q09TX2.NONBLK * # RECORDS: 102

LRECL: 72

* FILE SENT FOR AUTOCODING

: SPEC.ICT9311.RAWPH1.QO9TX2.BLANKS # RECORDS: 10,043

STEP B3: SPLIT FOR Q09 TEXT 3 (KNOWLEDGE OF LANGUAGE)

INPUT FILE(S): SPEC.ICT9311.PF.RAWPH1.Q09TX3 # RECORDS: 10,145

LRECL: 72

	SPEC.ICT9311.PF.RAWPH1.Q09TX3.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	24
:	SPEC.ICT9311.RAWPH1.Q09TX3.BLANKS	# RECORDS:	10,121
STEP C: INPUT FILE(S):	SPLIT FOR Q11 TEXT (MOTHER TONGUE) SPEC.ICT9311.PF.RAWPH1.Q11TXT LRECL: 72	# RECORDS:	10,145
	SPEC.ICT9311.PF.RAMPH1.Q11TXT.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	883
:	SPEC.ICT9311.RAWPH1.Q11TXT.BLANKS	# RECORDS:	9,262
CTED D-	SPLIT FOR Q12 TEXT (PLACE OF BIRTH)		
INPUT FILE(S):	SPEC.ICT9311.PF.RAWPH1.Q12TXT LRECL: 72	# RECORDS:	10,145
	SPEC.ICT9311.PF.RAMPH1.Q12TXT.MONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	950
:	SPEC.ICT9311.RAMPH1.Q12TXT.BLANKS	# RECORDS:	9,195
STEP E: INPUT FILE(S):	SPLIT FOR Q13 TEXT (CITIZENSHIP) SPEC.ICT9311.PF.RAWPH1.Q13TXT LRECL: 72	# RECORDS:	10,145
	SPEC.ICT9311.PF.RAWPH1.Q13TXT.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	299
:	SPEC.ICT9311.RAWPH1.Q13TXT.BLANKS	# RECORDS:	9,846
INPUT FILE(S):	SPLIT FOR Q16 TEXT 1 (ETHNIC ORIGIN) SPEC.ICT9311.PF.RAWPH1.Q16TX1 LRECL: 72	# RECORDS:	
	SPEC.ICT9311.PF.RAMPH1.Q16TX1.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	8,838
:	SPEC.ICT9311.RAWPH1.Q16TX1.BLANKS	# RECORDS:	1,307
INPUT FILE(S):	SPLIT FOR Q16 TEXT 2 (ETHNIC ORIGIN) SPEC.ICT9311.PF.RAWPH1.Q16TX2 LRECL: 72	# RECORDS:	-
	SPEC.ICT9311.PF.RAMPH1.Q16TX2.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	3,262
:	SPEC.ICT9311.RAWPH1.Q16TX2.BLANKS	# RECORDS:	6,883

STI INPUT FII	EP F3: LE(S):	SPLIT FOR Q16 TEXT 3 (ETHNIC ORIGIN) SPEC.ICT9311.PF.RAWPH1.Q16TX3 LRECL: 72	# RECORDS:	10,145
OUTPUT FII		SPEC.ICT9311.PF.RAWPH1.Q16TX3.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	1,334
	:	SPEC.ICT9311.RAWPH1.Q16TX3.BLANKS	# RECORDS:	8,811
S INPUT FI	TEP G: LE(S):	SPLIT FOR Q18 TEXT (RACE) SPEC.ICT9311.PF.RAWPH1.Q18TXT LRECL: 72	# RECORDS:	10,145
OUTPUT FI		SPEC.ICT9311.PF.RAMPH1.Q18TXT.MONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	98
	:	SPEC.ICT9311.RAWPH1.Q18TXT.BLANKS	# RECORDS:	10,047
•				
S INPUT FI	TEP H: LE(S):	SPLIT FOR Q19 TEXT (INDIAN BAND) SPEC.ICT9311.PF.RAWPH1.Q19TXT LRECL: 72	# RECORDS:	10,145
OUTPUT FI		SPEC.ICT9311.PF.RAMPH1.Q19TXT.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	46
	:	SPEC.ICT9311.RAWPH1.Q19TXT.BLANKS	# RECORDS:	10,099
INPUT FI	STEP 1: ILE(S):	SPLIT FOR Q24 TEXT (LANGUAGE OF EDUCATION) SPEC.ICT9311.PF.RAWPH1.Q24TXT LRECL: 72	# RECORDS:	10,145
OUTPUT FI	iLE(\$):	SPEC.ICT9311.PF.RAMPH1.Q24TXT.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	59
	:	SPEC.ICT9311.RAWPH1.Q24TXT.BLANKS	# RECORDS:	10,086
			•	
INPUT F	STEP J: ILE(S):	SPLIT FOR Q41 TEXT (LANGUAGE OF WORK) SPEC.ICT9311.PF.RAWPH1.Q41TXT LRECL: 72	# RECORDS:	10,145
OUTPUT F		SPEC.ICT9311.PF.RAWPH1.Q41TXT.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	78
	:	SPEC.ICT9311.RAWPH1.Q41TXT.BLANKS	# RECORDS:	10,067

STEP K: SPL INPUT FILE(S):	IT FOR Q22 TEXT (MOBILITY OUTSIDE CANADA) SPEC.1CT9311.PF.RAMPH1.Q22TXTOC LRECL: 72	# RECORDS:	10,145
	SPEC.ICT9311.PF.RAMPH1.Q22TXTOC.NONBLK * LRECL: 72 FILE SENT FOR AUTOCODING	# RECORDS:	179
:	SPEC.ICT9311.RAWPH1.Q22TXTOC.BLANKS	# RECORDS:	9,966
STEP L: SP INPUT FILE(S):	PLIT FOR Q22 TEXT (MOBILITY INSIDE CANADA) SPEC.ICT9311.PF.RAWPH1.Q22TXTIC LRECL: 97	# RECORDS:	10,145
	SPEC_ICT9311.PF.RAMPH1.Q22TXTIC.MONBLK * LRECL: 97 FILE SENT FOR AUTOCODING	# RECORDS:	1,540
:	SPEC.ICT9311.RAWPH1.Q22TXTIC.BLANKS	# RECORDS:	8,605
STEP N: INPUT FILE(S):	SPLIT FOR Q42 TEXT (PLACE OF WORK) SPEC.ICT9311.PF.RAWPH1.Q42TXT LRECL: 97	# RECORDS:	10,145
	SPEC.ICT9311.PF.RAMPH1.Q42TXT.NONBLK * LRECL: 163 FILE SENT FOR AUTOCODING BUT	# RECORDS:	4,058
due to sko was unabli	ORTAGE OF RESOURCES PLACE OF WORK UNIT E TO PERFORM MANUAL/INTERACTIVE CODING		
:	SPEC.ICT9311.RAWPH1.Q42TXT.BLANKS	# RECORDS:	6,087

MAINFRAME FILES RETURNED FROM AUTOCODING:

UNIX PROCESSING FOR EFS AFTER PREDIT

"SPEC.ICT9311.EFS.PREDIT.NONTEXT"

DOWNLOADED TO UNIX

UNIX PROCESSING (in SAS)

EFS FLOW OF FILES AFTER PREDIT

INPUT: ../../OLDPROD/EFS/PREDIT.EXCLQ46.DAT.FEB01 (10,087)

Pgm Function:

1

2

3

linking codes received from auto-coding including ethnic and language manual CODLNK.PGM CODLNK.LOG CODLNK.OUT

resolution.

OUTPUT: ../../PROD/EFS/CODLNK.DVS953.DAT.00.MAR02 (10,087)

INPUT: ../../PROD/EFS/CODLNK.DVS953.DAT.00.MAR02 (10,087)

Pgm function:

eliminating Personid >01 that were temporary residents and missed in the earlier stages. NONTEMP.PGM NONTEMP.LOG NONTEMP.OUT

OUTPUT: ../../PROD/EFS/NONTEMP.DVS953.DAT.01.MAR16 (9,986)

INPUT: ../../PROD/EFS/NONTEMP.DVS953.DAT.01.MAR16 (9,986)

Pgm Function:

Fixing Q46(income question)
Program written by Amir Ranjbar
and also establishing Multiple
Error Flags for all questions
that had multiple responses.

Q46MEF.PGM.MAR18 Q46MEF.LOG.MAR18 Q46MEF.OUT.MAR18

OUTPUT: ../../PROD/EFS/Q46MEF.DVS953.DAT.02.MAR18 (9,986)

INPUT: ../../PROD/EFS/Q46MEF.DVS953.DAT.02.MAR18 (9,986)

../../PROD/MCT/DVLANG.DVS953.DAT.02.FEB28 (40,915)

Pgm Function:

Loading date of birth, sex DVAGE2 from NCT to EFS when they are blank, for they were imputed on the NCT file. ENKBIR.PGM.MAR18 ENKBIR.LOG.MAR18 ENKBIR.OUT.MAR18

```
OUTPUT: ../../PROD/EFS/LNKB1R.DVS953.DAT.03.MAR18 (40,662)
     ../../PROD/EFS/LNKBIR.DVS953.DAT.03.MAR18 (9,986)
    Pgm Function:
                                         DVLANG.PGM.MAR18
      Creating derived variables
5
                                         DVLANG.LOG.MAR18
      for language questions.
                                         DVLANG.OUT.MAR18
     ../../PROD/EFS/DVLANG.DVS953.DAT.04.MAR18 (9,986)
     ../../PROD/EFS/DVLANG.DVS953.DAT.04.MAR18 (9,986)
    Pgm function:
                                       ASSPSU.PGM.MAR21
      Recoding Assignment # for
                                       ASSPSU.LOG.MAR21
      certain Rotation Group and
                                       ASSPSU.OUT.MAR21
      recoding PSU # "35087"
      instead of "85087" if
      Rotation Group='0'
     ../../PROD/EFS/ASSPSU.DVS953.DAT.05.MAR18 (9,986)
     ../../PROD/EFS/ASSPSU.DVS953.DAT.05.MAR18 (9,986)
    Pgm Function:
                                        LBFORCE_PGM_MAR30
                                         LBFORCE.LOG.MAR30
7
                                         LBFORCE.OUT.MAR30
      ../../PROD/EFS/LBFRCEDVS.DVS953.DAT.06.MAR28 (9,986)
      ../../PROD/EFS/LBFRCEDVS.DVS953.DAT.06.MAR28 (9,986)
     Pgm Function:
                             ( file produced by Norm Crampton on mainframe, to create ethnic DVs)
8
       ./../PROD/EFS/ETHDVS.DVS953.DAT.07.APR25 (9,986)
      __/../PROD/EFS/ETHDVS.DVS953.DAT.07.APR25 (9,986)
     Pgm Function:
                                          FIXQ46.PGM.MAY06
       Picking Q46AAmt from the raw
                                          FIXQ46.LOG.MAY06
       file (length 20 bytes), for
 9
                                          FIXQ46.OUT.MAY06
       in the Predit only 19 bytes of
       Q46AAmt were picked up and the
       20th byte was garbage(just for
       Q46AAMT) then ran Q46MEF.PGM
       again, against it.
      ../../PROD/EFS/F1XQ46.DVS953.DAT.08.MAY06 (9,986)
```

```
../../PROD/EFS/FIXQ46.DVS953.DAT.08.MAY06 (9,986)
   Pgm Function:
      Reruning Q46MEF.PGM
                                    Q46MEF.REV.PGM
      for Q46ĀAmt only and for
                                    Q46MEF.REV.LOG
10
                                    Q46MEF.REV.OUT
      related multiple flags.
     ../../PROD/EFS/Q46MEF.DVS953.DAT.09.MAY06 (9,986)
     ../../PROD/EFS/Q46MEF.DVS953.DAT.09.MAY06 (9,986)
    Pgm Function:
      Creating income derived
                                         INCOME.PGM.MAY11
                                         INCOME.LOG.MAY11
      variables: wages, investment
11
                                         INCOME.OUT.MAY11
      UIC, etc
     ../../PROD/EFS/INCOME.DVS953.DAT.10.MAY11 (9,986)
     ../../PROD/EFS/INCOME.DVS953.DAT.10.MAY11 (9,986)
    Pgm Function:
                                                FIX.DVLANG.PGM
      Fixing language DVs and adding
                                                FIX.DVLANG.LOG
      the AGEGP and SEX variables
12
                                                FIX.DVLANG.OUT
      and making sure SEXFLG has blanks
      instead of '.' (fixed by Phil)
     ../../PROD/EFS/REVDVLANG.DVS953.DAT.11.MAY11 (9,986)
     ../../PROD/EFS/REVDVLANG.DVS953.DAT.11.MAY11 (9,986)
                                          HLDSIZE.PGM
     Pgm Function:
                                         HLDSIZE.LOG
     recoding HLDSIZE
                                          HLDSIZE.OUT
     from ' 1' ' 2' etc.
     to '01' '02' etc.,
     WAGES & TOTING
     ../../PROD/EFS/HLDSIZE.DVS953.DAT.12.MAY13 (9,986)
13
                   MOVED TO
    ../../OLDPROD/EFS/HLDSIZE.DVS953.DAT.12.MAY13.Z (9,986)
                   RENAMED TO
      __/../PROD/EFS/INCOME.DVS953.DAT.08.APR05 (9,986)
```

../../PROD/EFS/INCOME_DVS953.DAT.08.APR05 (9,986)

UPLOADED TO
SPEC.ICT9311.EFS.APR14.PUBREAD (9,986)

Pom Function: revised DV's of Sandra Swain written by Phil

14

SANDRA.DVCHECK.PGM SANDRA.DVCHECK.LOG SANDRA.DVCHECK.OUT

../../PROD/EFS/DV.REVISED.DAT.13.MAY20 (9,986)

MOVED TO

../../OLDPROD/EFS/DV.REVISED.DAT.13.MAY20 (9,986)

RENAMED TO

../../PROD/EFS/INCONE.DVS953.DAT.08.APR05 (9,986)

UPLOADED TO

SPEC.ICT9311.EFS.APR14.PUBREAD (9,986)

RECORDS: 86

NCT DATAFLOW

	PROCESSIN			
NCT R	AW FILE	=======================================		
NCT BRANCH				
STEP 01:	SAS LOG: SAS OUTPUT: SAS CARD(S):	CAPS/COD/PROD/EFS/VLDPID.PGM CAPS/COD/PROD/EFS/VLDPID.LOG CAPS/COD/PROD/EFS/VLDPID.OUT CAPS/COD/PROD/EFS/RAW1728.COMPLETE.DAT.00.JAN26 CAPS/COD/PROD/EFS/RAW1728.VLDPID.DAT.00.FEB10	(47,057) (40,917)	
STEP 02:	SAS PROGRAM: SAS LOG: SAS CUTPUT: SAS CARD(S): INPUT FILE(S):	CAPS/COD/PROD/EFS/RAWNTEMP.PGM CAPS/COO/PROD/EFS/RAWNTEMP.LOG CAPS/COO/PROD/EFS/RAWNTEMP.OUT CAPS/COD/PROD/EFS/RAW1728.VLDPID.DAT.00.FEB10	(40,917)	
		caps/cod/prod/efs/raw1728.complete.dat.00.JAN26	(246)	
	OUTPUT FILE(S):	CAPS/COD/PROD/EFS/RAWN1728.NONTEMP.DAT.02.MAR17 UPLOADED TO MAINFRAME	(40,)	
		"SPEC_ICT9311.RAV1728.NONTEMP_MAR17"		
		icate records and all non_temporary residence)		
NCT BRAN				
MAINFRAN	Æ PROCESS	ING:		
	FIRST PROGRAM	: SPEC.ICT9311.SRCE(DUPSEQ2)		
	INPUT FILE(S)	: SPEC.ICT9311.RAWNCT.BKUP0126.PUBREAD	# RECORDS:	47,057

OUTPUT FILE(S): SPEC.1CT9311.RAWNCT.DUPS

RECORDS: 46,971

SPEC.ICT9311.RAWNCT.UNIQUE (LRECL: 1728, BLKSIZE: 8640)

(Used SORT & PL1 to create two files: DUPLICATE RECORD FILE & UNIQUE RECORD FILE) (Program is checking duplicate records)

SECOND PROGRAM: SPEC_ICT9311_SRCE(FSPLIT3)

RECORDS: 86 INPUT FILE(S): SPEC.ICT9311.RAWNCT.DUPS

RECORDS: 30 OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.DUPS.DROP # RECORDS: 56

: SPEC.ICT9311.RAWNCT.DUPS.KEEP (28 DUPLICATES) (LRECL: 1728, BLKSIZE: 8640)

(Program is spliting households that could not be manually resolved vs. those that can be resolved. 30 vs 50 respectively, set of 28 duplicates will be merged to the UNIQUE File).

THIRD PROGRAM: SPEC. ICT9311.SRCE(RECODE)

RECORDS: 46,971 INPUT FILE(S): SPEC.ICT9311.RAWNCT.UNIQUE

OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.RECODE.HHLD6.FEB3 # RECORDS: 46,971

. LRECL: 1728, BLKSIZE=8640

(14 records were recoded using PGM=RECODED

6 from Phil's frequency dump, where PERSONID = '00' but should have been '01'

8 from Lori's memo dated January 21, 1994 "DOCUMENTATION FOR NCT PHASE2); records with PERSONID 12,13,14)

FOURTH PROGRAM: (STEP1) SPEC.1CT9311.SRCE(VLDMERGE)

RECORDS: 56 INPUT FILE(S): SPEC.ICT9311.RAWNCT.DUPS.KEEP

RECORDS: 28 OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.DUPUNIQ

(STEP2) SPEC. ICT9311. SRCE(VLDMERGE)

INPUT FILE(S): SPEC.ICT9311.RAWNCT.DUPUNIQ SPEC.ICT9311.RAWNCT.RECODE.HHLD6.FEB3 # RECORDS: 46,971 # RECORDS:

RECORDS: 46,999 OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.MERGE.DUPREC.FEB3

(LRECL: 1728, BLKSIZE: 8640)

(SAS Program is picking up from 56 records(duplicate) a unique record by using IF>LAST>ID function of SAS and then concatenating the .DUPUNIQ. file with the recoded .HHLD6.FEB3. using DBSCOPY.

FIFTH PROGRAM (STEP 1): SPEC.ICT9311.SRCE(FSPLIT2)

RECORDS: INPUT FILE(S): SPEC.ICT9311.RAWNCT.MERGE.DUPREC.FEB3

46,999

RECORDS: 39 OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.NOHHLD.DATA # RECORDS:

: SPEC.ICT9311.RAWNCT_HHLD_DATA

46,960 (LRECL: 1728, BLKSIZE: 8640)

(STEP 2): SPEC.ICT9311.SRCE(FSPLIT2)

RECORDS: 39 INPUT FILE(S): SPEC.ICT9311.RAWNCT.NOHHLD.DATA

OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.NOHHLD.KEEP

SPEC.ICT9311.RAWNCT.NOHHLD.DROP

(LRECL: 1728, BLKSIZE: 8640)

RECORDS: 2 # RECORDS: 37

(Program is spliting PERSONID > '00' & no data beyond pos. 45; 39 records were found & dumped; 2 out of 39 were selected to keep and merge with good file).

(STEP 3): SPEC.ICT9311.SRCE(FSPLIT2)

INPUT FILE(S): SPEC.ICT9311.RAWNCT.HHLD.DATA

RECORDS:

46,962

: SPEC.ICT9311.RAWNCT.NOHHLD.KEEP

RECORDS: 2

OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.MERGE.DUPREC.FEB4

RECORDS:

46,962

(LRECL: 1728, BLKSIZE: 8640)

(Program is using DBSCOPY to concatenate 2 above files together and produce 1 output file)

SIXTH PROGRAM: SPEC.ICT9311.SRCE(ST4ST6)

INPUT FILE(S): SPEC.ICT9311.RAWNCT.MERGE.DUPREC.FEB4 # RECORDS:

46,960

OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.WITH.ST4ST6.DROP # RECORDS: 263

: SPEC.ICT9311.RAWNCT.WITHOUT.ST4ST6

RECORDS:

46,716

(LRECL: 1728, BLKSIZE: 8640)

(Program is spliting the good file into 2 files -- one with step4 = 3 or step6 = 5 (246 records)
-- one without step4 = 3 or step6 = 5;

(temporary residents and usual place elsewhere in Canada)

NOTE: 17 RECORDS HAD BOTH STEP4 = 3 & STEP6 = 5; THAT ACCOUNTS FOR THE DOUBLE COUNT IN 263 RECORDS.

SEVENTH PROGRAM: SPEC.ICT9311.SRCE(PER00)

RECORDS: INPUT FILE(S): SPEC.ICT9311.RAWNCT.WITHOUT.ST4ST6

46,716

RECORDS: OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.VLDPERID

40,934 : SPEC.ICT9311.RAWNCT.PERIDOO # RECORDS:

5,782 (LRECL: 1728, BLKSIZE: 8640)

(Program is spliting PERSONID ='00' into a separate file & keeping the rest of the records into a VLDPERID file & dumping a handful of records to see the actual records with PERSONID = '00'.)

EIGHTH ROGRAM: SPEC.ICT9311.SRCE(POSTALBL)

RECORDS:40,934 INPUT FILE(S): SPEC.ICT9311.RAWNCT.VLDPERID

RECORDS: 17 OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.VLDPERID.BLANK

RECORDS: : SPEC.ICT9311.RAWNCT.VLDPERID.NONBLK

RECORDS:

40,917

(LRECL: 1728, BLKSIZE: 8640)

(Program is spliting input file into 2 output files) -- one which has no information beyond Postal Code eg. nothing in Pos.51 to next 154 bytes, these are being deleted from good file. -- one with information.

NINTH ROGRAM: SPEC.ICT9311.SRCE(DUPSEQ4)

RECORDS: INPUT FILE(S): SPEC.ICT9311.RAWNCT.VLDPERID.NONBLK

40,917

OUTPUT FILE(S): SPEC.ICT9311.RAWNCT.VLDPERID.UNIQ # RECORDS:

40,915

(LRECL: 1728, BLKSIZE: 8640)

(Program is removing 2 duplicate records from the file) NOTE: This step was done after the file had gone through the PREDIT. These 2 duplicatee records were picked up a week later when QaaTXT was sent for Auto-Coding.

PREDIT PROGRAM: FINAL FILE BEFORE GOING INTO PREDIT

TENTH PROGRAM: SPEC.ICT9311.SRCE(COMPEDIT)

RECORDS: 40,917 SPEC.ICT9311.RAWNCT.VLDPERID.NONBLK INPUT FILE(S):

SPEC.ICT9311.SRCE(PREEDIT6)

RECORDS: 40,917 OUTPUT FILE(S): SPEC.ICT9311.NCT.PREDIT.NONTEXT.FEB7

trect: 532, blksize: 8512

RECORDS: : SPEC.ICT9311.NCT.PREDIT.TEXT.FEB7

247,197

lrecl: 92, blksize: 8832

(PL1 program is going through the PREDIT step and creating 2 output files;

(1).. TEXT FILE , Lrecl = 92, Blksize = 8832 (2).. NON-TEXT FILE, Lrecl = 532, Blksize = 8512)

FILES BEING PREPARED FOR AUTOCODING:

PROGRAM 1: SPEC.ICT9311.SRCE(SORT4)

RECORDS: INPUT FILE(S): SPEC.ICT9311.NCT.PREDIT.TEXT.FEB7 247,197

LRECL = 92, BLKSIZE = 8832

RECORDS: OUTPUT FILE(S): SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED1 (Q09T1, Q09T2, Q09T3) 7,022 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED2 (Q16T1, Q16T2, Q16T3) # RECORDS:

57,560 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED3 (Q22T1, Q22T2, Q22T3) # RECORDS:

.12,225 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED4 (Q42T1-Q42T3, Q42PC) # RECORDS: 58,968 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED5 (Q11TX)

: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED6 (Q12TX) # RECORDS: 5,959 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED7 (Q13TX) # RECORDS: 2,105 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED8 (Q18TX) # RECORDS: 670 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED9 (Q19TX) # RECORDS: 588 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED10 (Q24TX) # RECORDS: 138 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED11 (Q41TX) # RECORDS: 447 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED12 (Q02TX) # RECORDS: 613 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q34TX) # RECORDS: 32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
2,105 SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED8 SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED9 SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED10 SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED10 SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED11 (Q24TX) SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED12 (Q02TX) SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q34TX) SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q35TX) SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) RECORDS:
SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED8 (Q18TX)
RECORDS: 138 SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED10 (Q24TX)
: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED10 (Q24TX) # RECORDS: 138 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED11 (Q41TX) # RECORDS: 447 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED12 (Q02TX) # RECORDS: 613 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q34TX) # RECORDS: 32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED11 (Q41TX) # RECORDS: 447 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED12 (Q02TX) # RECORDS: 613 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q34TX) # RECORDS: 32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED12 (Q02TX) # RECORDS: 613 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q34TX) # RECORDS: 32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED13 (Q34TX) # RECORDS: 32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
32,.085 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q35TX) # RECORDS: 20,890 : SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
: SPEC_ICT9311.NCT.PREDIT.TEXT.SORTED14 (Q351X) # RECORDS: 20,890 : SPEC_ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
20,890 : SPEC_ICT9311.NCT.PREDIT.TEXT.SORTED15 (Q37TX) # RECORDS:
: SPEC.ICT9311.NCT.PREDIT.TEXT.SURTED (3) (43) # RECORDS.
·
21,228 # RECORDS:
: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED16 (Q38TX) # RECORDS:
20,262
spec_ict9311_NCT.PREDIT.TEXT.SORTED1/ (Q431X) # KECUKDS: 398
: SPEC.ICY9311.NCT.PREDIT.TEXT.SORTED18 (Q46TA-Q46TK) # RECORDS:

(Using SORT to create 18 output files according to the required fields from the input file)

SUBSEQUENT PROGRAM(S) TO CREATE TEXT FILES FOR AUTOCODING

SPLIT FOR 909 TEXT (KNOWLEDGE OF LANGUAGE)

INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED1 # RECORDS: 7,022 # RECORDS: 1,028 SPEC.ICT9311.NCTAC.LANQ09.FINAL.ESS OUTPUT(1): SPEC.ICT9311.PF.NCT.Q09TXT.WITHAC lrecl = 99, blksize = 8811 # RECORDS: 875 (2): SPEC.ICT9311.PF.NCT.Q09TXT.FORAC # RECORDS: 6,147 Lrecl = 92, Blksize = 8832

SPEC.ICT9311.PF.NCT.Q09TX3.FORAC SPEC.ICT9311.PF.NCT.Q09TX2.FORAC SPEC.ICT9311.PF.NCT.Q09TX1.FORAC (# RECORDS: 639) (# RECORDS: 123) (# RECORDS: 5,385)

SPLIT FOR Q11 TEXT (MOTHER TONGUE)

RECORDS: 6,041 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED5 SPEC.ICT9311.NCTAC.LANQ11.FINAL.ESS # RECORDS: 883 # RECORDS: 756 OUTPUT(1): SPEC.1CT9311.PF.NCT.Q11TXT.WITHAC lrecl = 99, blksize = 8811 # RECORDS: 5,285 (2): SPEC.ICT9311.PF.NCT.Q11TXT.FORAC lrect = 92, blksize = 8832 SPLIT FOR Q12 TEXT (PLACE OF BIRTH)

lrecl = 92, blksize = 8832

RECORDS: 5,959 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED6 SPEC.ICT9311.NCTAC.PCTQ12.FINAL.ESS # RECORDS: 950 OUTPUT(1): SPEC.ICT9311.PF.NCT.Q12TXT.WITHAC # RECORDS: 808 **trect = 99, blksize = 8811** # RECORDS: 5,151 (2): SPEC.ICT9311.PF.NCT.Q12TXT.FORAC

SPLIT FOR Q13 TEXT (CITIZENSHIP)

RECORDS: 2,105 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED7 SPEC.ICT9311.NCTAC.PCTQ13.FINAL.ESS # RECORDS: 299

RECORDS: 237 OUTPUT(1): SPEC.ICT9311.PF.NCT.Q13TXT.WITHAC

trect = 99, blksize = 8811

(2): SPEC.ICT9311.PF.NCT.Q13TXT.FORAC # RECORDS: 1,868 lrect = 92, blksize = 8832

SPLIT FOR Q16 TEXT (ETHNIC ORIGIN)

RECORDS: 57,560 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED2 # RECORDS: 13,434 SPEC.ICT9311.NCTAC.ETOQ16.FINAL.ESS

RECORDS: 11,869 OUTPUT(1): SPEC.ICT9311.PF.NCT.Q16TXT.WITHAC

lrec1 = 99, blksize = 8811

(2): SPEC.ICT9311.PF.NCT.Q16TXT.FORAC # RECORDS: 45,691

lrect = 92, blksize = 8832

SPEC.ICT9311.PF.NCT.Q16TX2.FORAC SPEC.ICT9311.PF.NCT.Q16TX1.FORAC (# RECORDS: 10,608) (# RECORDS: 31,338)

SPEC.ICT9311.PF.NCT.Q16TX3.FORAC (# RECORDS: 3,745)

SPLIT FOR Q18 TEXT (RACE)

RECORDS: 670 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED8 # RECORDS: 94 SPEC.ICT9311.NCTAC.ETOQ18.FINAL.ESS

RECORDS: 75 OUTPUT(1): SPEC.ICT9311.PF.NCT.Q18TXT.WITHAC

lrect = 99, blksize = 8811

RECORDS: 595 (2): SPEC.ICT9311.PF.NCT.Q18TXT.FORAC lrecl = 92, blksize = 8832

SPLIT FOR Q19 TEXT (INDIAN BAND)

RECORDS: 588 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED9 # RECORDS: 46 SPEC.ICT9311.NCTAC.INDQ19.FINAL.ESS

RECORDS: 37 OUTPUT(1): SPEC.ICT9311.PF.NCT.Q19TXT.WITHAC

trect = 99, blksize = 8811

RECORDS: 551 (2): SPEC.ICT9311.PF.NCT.Q19TXT.FORAC

lrecl = 92, blksize = 8832

SPLIT FOR Q22 TEXT (MOBILITY INSIDE/OUTSIDE CANADA

(40,917)INPUT: SPEC.ICT9311.RAWNCT.VLDPEID.NONBLK (40,917)OUTPUT: SPEC.ICT9311.NCT.Q22TXT SPEC.ICT9311.NCT.Q22TXTOC SPEC.ICT9311.NCT.Q22TXTIC (40.917)(40,917) SPEC.ICT9311.NCT.Q22TXTIC.BLANKS SPEC.ICT9311.NCT.Q22TXTIC.NONBLK (35, 154)(5,763) SPEC.ICT9311.NCT.Q22TXTOC.NONBLK (1,210)SPEC.ICT9311.NCT.Q22TXTOC.BLANKS (39,707)
INPUT: SPEC.ICT9311.Q22TXTIC.NONBLK
OUTPUT: SPEC.ICT9311.Q22TXTIC.UNIQUE (5,763) (5,761) SPEC.ICT9311.Q22TXTIC.UNIQUE (5,761) SPEC.ICT9311.NCTAC.M5PQ22T1.FINAL.ESS (1,540) INPUT: SPEC.ICT9311.Q22TXTIC.UNIQUE OUTPUT: SPEC.ICT9311.PF.NCT.Q22TXTIC.WITHAC lrecl = 104, blksize = 8840 (892) (4,869)SPEC.ICT9311.PF.NCT.Q22TXTIC.FORAC lrec1 = 97, blksize = 8827 INPUT: SPEC.ICT9311.Q22TXTOC.NONBLK (1,210)OUTPUT: SPEC.ICT9311.Q22TXTOC.UNIQUE (1,210)INPUT: SPEC.ICT9311.Q22TXTOC.UNIQUE (1,210)SPEC.ICT9311.NCTAC.PCTQ22T3.FINAL.ESS (179) (138)OUTPUT: SPEC.ICT9311.PF.NCT.Q22TXTOC.WITHAC lrecl = 99, blksize = 8811 SPEC.ICT9311.PF.NCT.Q22TXTOC.FORAC (1,072) **lrecl = 92, blksize = 8832**

SPLIT FOR 024 TEXT (LANGUAGE OF EDUCATION)

SPLIT FOR Q41 TEXT (LANGUAGE OF WORK)

RECORDS: 447 INPUT: SPEC.ICT9311.NCT.PREDIT.TEXT.SORTED11 # RECORDS: 78 SPEC.ICT9311.NCTAC.LANQ41.FINAL.ESS

OUTPUT(1): SPEC.ICT9311.PF.NCT.Q41TXT.WITHAC # RECORDS: 52

lrect = 99, blksize = 8811

(2): SPEC.ICT9311.PF.NCT.Q41TXT.FORAC lrecl = 92, blksize = 8832 # RECORDS: 395

SPLIT FOR Q42 TEXT (PLACE OF WORK)

INPUT: SPEC.ICT9311.NCT.VLDPERID.UNIQUE

OUTPUT: SPEC.ICT9311.NCT.Q42TXT

INPUT: SPEC.1CT9311.NCT.Q42TXT

OUTPUT: SPEC.ICT9311.NCT.Q42TXT.NONBLK : SPEC.ICT9311.NCT.Q42TXT.BLANKS

RECORDS: 17,177 INPUT: SPEC.ICT9311.NCT.Q42TXT.NONBLK : SPEC.ICT9311.PF.RAWPH1.Q42TXT.NONBLK OUTPUT: SPEC.ICT9311.PF.NCT.Q12TXT.WITHOAC # RECORDS: 4,058 1,425 # RECORDS:

lrecl = 163, blksize = 8802

RECORDS: 15,752 SPEC.ICT9311.PF.NCT.Q12TXT.FORAC

lrecl = 163, blksize = 8802

UNIX PROCESSING FOR NCT AFTER PREDIT

"SPEC.ICT9311.NCT.PREDIT.NONTEXT.FEB7" (40,917)

DOWNLOADED TO UNIX

"CAPS/COD/STEVENS/NCT/NCT.PREDIT.EXCLQ46" (40,917)

UNIX PROCESSING (in SAS)

NCT FLOW OF FILES AFTER PREDIT

../../STEVENS/NCT/NCT.PREDIT.EXCLQ46 INPUT:

../../PRAKNEE/YOBIMPUT.DAT

Pgm Function:

1

merging Year of Birth and imputation flag for year of birth from the 274 records file created by Matthew Briggs, SSMD (who manually imputed missing y.o.b.)

OUTPUT: ../../PRAKNEE/YOBIMP.DAT

../../praknee/Yobimput.pgm ././praknee/Yobimput.log

../../PRAKNEE/SEXMSG.DAT Pgm Function: ../../praknee/Sexflg2.pgm ../../praknee/sexflg2.log merging Sex and imputed sex flag from the file created by Phil (who manually imputed missing SEX) 2 OUTPUT: ../../PRAKNEE/SEXFLG.DAT ../../PRAKNEE/SEXFLG.DAT INPUT: Pgm Function: Recoding Assignment # for 3 ../../praknee/recdass.pgm certain PSUs that belong to ../../praknee/recdass.log special population vs labour force sample. OUTPUT: ../../PRAKNEE/RECDASS.DAT INPUT: ../../PRAKNEE/RECDASS.DAT Pgm Function: ../../praknee/excldup.pgm sas program to exclude ../../praknee/excldup.log duplicate records OUTPUT: ../../PRAKNEE/EXCLDUP.DAT ./../PRAKNEE/EXCLDUP.DAT Pgm Function: 4 records had sex missing 5 after Phil's recoded sex pgm was completed, therefore sex for those 4 recoded in this program. ../../PRAKNEE/RECDSEX.DAT -renamed ../../PROD/NCT/RECDSX.PRE532.DAT.00.FEB24 Program function: derived age is created in this DVAGE2.PGM program from date DVAGE2.LOG

../../PRAKNEE/YOBIMP.DAT

INPUT:

```
of birth by
Christian Branconnier, COD.
Derived variable is
DVAGE2 (pos.670,2)
```

../../PROD/NCT/DVAGE2.DVS953.DAT.01.FEB24

./../PROD/NCT/DVAGE2.DVS953.DAT.01.FEB24 (40,915)

Program function:

derived language variable are created here from Q9 KOL (672,2)- knowledge of language

HLN (674,1)- home Language MTN (675,2)- mother tongue LGEDUC(677,1) - language of education

LGWORK (678,1) - language of work OL (679,1) - knowledge of official

l anguage NOL (680,1)- knowledge of non-official language

OLNOL(681,1)-knowledge of official/ non-official language

../../PROD/NCT/DVLANG.DVS953.DAT.02.FEB28 (40,915

../../PROD/NCT/DVLANG.DVS953.DAT.02.FEB28 (40,915)

../../PROD/NCT/ST4ST6.DAT (263)

Program function:
created data file with 263 rec. & 3 variables-(hhldid,step4,step6) This program is therefore removing households from the DVLANG file that have temporary residences through merge process by eliminating those records that were in the st4st5 data file. NONTEMP.PGM NONTEMP.LOG NONTEMP.OUT

DVAGE2.OUT

DVLANG.PGM

DVLANG.LOG

DVLANG.OUT

../../PROD/NCT/NONTEMP.DVS953.DAT.03.MAR16 (40,662)

../../PROD/NCT/NONTEMP.DVS953.DAT.03.MAR16 (40,662)

Program function:

Q46 (income question) and Multiple error flags for all related questions have been created here in this program Q46MEF.PGM.MAR18 Q46MEF.LOG.MAR18 Q46MEF.OUT.MAR18

../../PROD/NCT/Q46MEF.DVS953.DAT.04.MAR18 (40,662)

7

8

9

../../PROD/NCT/Q46MEF.DVS953.DAT.04.MAR18 (40,662) ../../PROD/EFS/DVLANG.DVS953.DAT.04.MAR18 (9,986) Program function: EFSFLG.PGM.MAR18 creating a flag (EFSFLG) in EFSFLG.LOG.MAR18 the NCT file for those EFSFLG.OUT.MAR18 records that are in the EFS file (pos.669,1) ../../PROD/NCT/EFSFLG.DVS953.DAT.05.MAR18 (40,662) _./../PROD/NCT/EFSFLG.DVS953.DAT.05.MAR18 (40,662) Program function: CODLNK1.PGM.MAR30 This program is linking CODLNK1.LOG.MAR30 codes from autocoding 11 CODLNK1.OUT.MAR30 back in the NCT file. ../../PROD/NCT/CODLNK.DVS953.DAT.06.MAR30 (40,662) ../../PROD/NCT/CODLNK.DVS953.DAT.06.MAR30 (40,662) CLINKEFS.PGM.MAR30 Program function: CLINKEFS.LOG.MAR30 linking the EFS codes 12 CLINKEFS.OUT.MAR30 that were not sent for autocoding, for they already ! had a code (because the text in the NCT file was the same as in the EFS file) ../../PROD/NCT/CLINKEFS.DVS953.DAT.07.MAR30 (40,662) ../../PROD/NCT/CLINKEFS.DVS953.DAT.07.NAR30 (40,662) CODLNK2.PGM.MAR30 Program function: CODLNK2.LOG.MAR30 linking language and ethnic 13 CODLNK2.OUT.MAR30 recodes and multiple codes to the above file. ./../PROD/NCT/CODLNK2.DVS953.DAT.08.MAR30 (40,662) ../../PROD/NCT/CODLNK2.DVS953.DAT.08.MAR30 (40,662) ASSPSU.PGM.MAR30 Program function: ASSPSU.LOG.MAR30 recoding Assignment & PSU 14 ASSPSU.OUT.MAR30 according to different rotation_group (Lori's request) (pos.12,5) & (pos.8,1) ../../PROD/NCT/ASSPSU.DVS953.DAT.09.MAR30 (40,662)

../../PROD/NCT/ASSPSU.DVS953.DAT.09.MAR30 (40,662) LBFORCE.PGM.MAR30 Program function: LBFORCE.LOG.MAR30 15 creating labour market LBFORCE.OUT.MAR30 derived variables from pos (790 to 804) ../../PROD/NCT/LBFORCE.DVS953.DAT.10.MAR30 (40,662) ../../PROD/NCT/LBFORCE.DVS953.DAT.10.MAR30 (40,662) LBFORCE.WGTED.PGM.MAR30 Program function: LBFORCE.WGTED.LOG.MAR30 weights are added to the 16 LBFORCE.WGTED.OUT.MAR30 Labour force file in this file (pos.925,8). ../../PROD/NCT/LBFORCE.DVS953.WEIGHTED.DAT.11.MAR30 (40,662) ../../PROD/NCT/LBFORCE.DVS953.WEIGHTED.DAT.11.MAR30 (40,662) Pgm Function: (file produced by Norm Crampton on mainframe, to create ethnic DVs) 17 ../../PROD/NCT/ETHDVS.DVS953.DAT.12.APR22 (40,662) ../../PROD/NCT/ETHDVS.DVS953.DAT.12.APRZZ (40,662) Pgm Function: FIXQ46.PGM.MAY02 Picking Q46AAmt from the raw file (length 20 bytes) for FIXQ46.LOG.MAY02 FIXQ46.OUT.MAY02 in the Predit only 19 bytes of Q46AAmt were picked up and the 20th byte was garbage, in order to run Q46MEF.PGM again just for 18 Q46AAmt in the next step. ../../PROD/NCT/FIXQ46.DVS953.DAT.13.MAY02 (40,662) ../../PROD/NCT/FIXQ46.DVS953.DAT.13.MAY02 (40,662) Pgm Function: Rerunning Q46MEF.PGM for Q46MEF.REV.PGM Q46MEF.REV.LOG Q46AAmt only and for Q46MEF.REV.OUT 19 related multiple flags.

./../PROD/NCT/Q46MEF.DVS953.DAT.14.MARYO2 (40,662)

Pgm Function:
Creating income derived INCOME.PGM.MAYO2

../../PROD/NCT/Q46MEF.DVS953.DAT.14.MAY02 (40,662)

```
INCOME.LOG.MAY02
     variables: wages, investment income
20
                                               INCOME.OUT.MAY02
     UIC, total income, etc.
     ../../PROD/NCT/INCOME.DVS953.DAT.15.MAY02 (40,662)
     ../../PROD/NCT/INCOME.DVS953.DAT.15.MAY02 (40,662)
    Pgm Function:
                                             FIX.DVLANG.PGM
      Fixing language DVs and adding
                                             FIX.DVLANG.LOG
      the AGEGP (pos.666,2) and SEX
21
                                             FIX.DVLANG.OUT
      (pos.668,1) variables.
      (fixed by Phil)
     ../../PROD/NCT/REVDVLANG.DVS953.DAT.15A.MAY04 (40,662)
     ../../PROD/NCT/REVDVLANG.DVS953.DAT.15A.MAY04 (40,662)
     Pgm Function:
       Cleaning income derived variables
       like wages, self emplyment, UIC,
       with ' instead of '.' and
                                                INCOME.FIX1.PGM
       Spiliting the file into 2 parts
                                                INCOME.FIX1.LOG
       the Labour force file and the
                                                INCOME.FIX1.OUT
       Special Population file.
     ../../PROD/NCT/DVS953.LFSAMP.DAT.16.MAY04 (32,696)
22
      ../../PROD/NCT/PART1.MAY04 (10,000)
      ../../PROD/NCT/PART2.NAY04
                                  (10,000)
                                  (10,000)
      ../../PROD/NCT/PART3.NAY04
      ../../PROD/NCT/PART4.MAY04
                                  ( 2,696)
     ../../PROD/NCT/SPECPOP_DVS953.DAT.17_MAY04 (7,966)
      ../../PROD/NCT/PART5_MAY04 ( 7,966)
```

LABOUR FORCE FILE

```
../../PROD/NCT/DVS953.LFSAMP.DAT.16.MAY04 (32,696)
                    RENAMED TO
      ./../PROD/NCT/DVS953.LFSAMP.DAT.14.APR08 (32,696)
    (in order to stick with the file name SM people had already been told to use)
               UPLOADED TO MAINFRAME AS
               "SPEC.ICT9311.NCT.LFSAMP.APR14.PUBREAD"
      INPUT:
              ( recoding the HLD$IZE from blank to '0')
                "SPEC.ICT9311.NCT.LFSAMP.HHSIZE.FIX"
      OUTPUT:
23
                "SPEC.ICT9311.NCT.LFSAMP.HHSIZE.FIX"
      INPUT:
             ( recoding Q46, WAGES, SELF_EMP, & INVEST_INC )
               "SPEC.ICT9311.NCT.LFSAMP.RECODE.WAGES"
      OUTPUT:
```

RENAMED ON MAINFRAME TO

"SPEC.1CT9311.NCT.LFSAMP.APR14_PUBREAD"

DOWNLOADED TO UNIX AS

../../PROD/NCT/DVS953.LFSAMP.DAT.16.MAY16 (32,696)

RENAMED TO

._/../PROD/NCT/DVS953.LFSAMP.DAT.14.APRO8 (32,696)
(in order to stick with the file name SM people had already been told to use)

NOTE: PSU RECODE WAS DONE ON LFSAMP FILE BUT NOTHING WAS RECODED, FOR THERE WAS NO PSU# = '85087' IN THE FILE TO BE RECODED. HOWEVER, THE STEP WAS DONE IN ORDER TO CHECK ITS EXISTENCE AND THERFORE DOCUMENTED IN REVPSU.PGM/REVPSU.LOG/REVPSU.OUT BUT WAS NOT CARRIED OUT (PROCESSED).

./../PROD/NCT/DVS953.LFSAMP.DAT.14.APRO8 (32,696)

Pgm Function:

LABFRCE.DVCHECK.PGM
LABFRCE.LOG.MAY19
LABFRCE.OUT.MAY19
./../PROD/NCT/LABFRCE.DV.REVISED.DAT.17.MAY19 (32,696)

RENAMED TO
RENAMED TO

-/../PROD/NCT/DVS953.LFSAMP.DAT.14.APRO8 (32,696)

(Still sticking with the file name SM people had already been told to use)

SPECIAL POPULATION FILE

```
../../PROD/NCT/SPECPOP.DVS953.DAT.17.MAY04 (7,966)

RENAMED TO

../../PROD/NCT/SPECPOP.DVS953.DAT.15.APR14 (7,966)
(in order to stick with the file name SM people had already been told to use)

UPLOADED TO MAINFRAME AS

INPUT: "SPEC.ICT9311.NCT.SPECPOP.APR14.PUBREAD"
( recoding the HLDSIZE from blank to '0')

V

OUTPUT: "SPEC.ICT9311.NCT.SPECPOP.HHSIZE.FIX"

INPUT: "SPEC.ICT9311.NCT.SPECPOP.HHSIZE.FIX"
```

(recoding Q46, WAGES, SELF_EMP, & INVEST_INC)

```
OUTPUT: "SPEC.ICT9311.NCT.SPECPOP.RECODE.WAGES"
```

RENAMED ON MAINFRAME TO

"SPEC.ICT9311.NCT.SPECPOP.APR14.PUBREAD"

after deleting the one created before under the same name
(in order to stick with the file name SM people had already been told to use)

DOWNLOADED TO UNIX AS

../../PROD/NCT/SPECPOP.DVS953.DAT.17.MAY16 (7,966)

RENAMED TO

._/._/PROD/NCT/SPECPOP.DVS953.DAT.15.APR14 (7,966)
(still sticking with the file name SN people had already been told to use)

```
./../PROD/NCT/SPECPOP.DVS953.DAT.15.APR14 (7,966)

Program function:
Corrections to SPECPOP.DVCHECK.PGM
SPECPOP.LOG.MAY20
SPECPOP.OUT.MAY20
SPECPOP.OUT.MAY20

./../PROD/NCT/SPECPOP.DV.REVISED.DAT.18.MAY20 (7,966)

MOVED TO
./../OLDPROD/NCT/SPECPOP.DV.REVISED.DAT.18.MAY20 (7,966)

RENAMED TO
./../PROD/NCT/SPECPOP.DVS953.DAT.15.APR14 (7,966)
```

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