

National Human Exposure Assessment Survey (NHEXAS)

Arizona Study

Quality Systems and Implementation Plan for Human Exposure Assessment

The University of Arizona
Tucson, Arizona 85721

Cooperative Agreement CR 821560

Standard Operating Procedure

SOP-UA-D-17.0

Title: Cleaning: Descriptive Questionnaires

Source: The University of Arizona

U.S. Environmental Protection Agency
Office of Research and Development
Human Exposure & Atmospheric Sciences Division
Human Exposure Research Branch

Notice: The U.S. Environmental Protection Agency (EPA), through its Office of Research and Development (ORD), partially funded and collaborated in the research described here. This protocol is part of the Quality Systems Implementation Plan (QSIP) that was reviewed by the EPA and approved for use in this demonstration/scoping study. Mention of trade names or commercial products does not constitute endorsement or recommendation by EPA for use.

Cleaning: Descriptive Questionnaire

1.0 Purpose and Applicability

The purpose of this procedure is to define the particular steps involved in cleaning the electronic data generated from data entry of the Descriptive Questionnaire. It applies to electronic data corresponding to the Descriptive Questionnaire that was scanned and verified by the Data Staff for NHEXAS Arizona, the Border Study, or other Health and the Environment projects.

2.0 Definitions

- 2.1 **BORDER STUDY:** An alias for "Total Human Exposure Arizona: A Comparison of the Border Communities and the State" conducted in Arizona by the University of Arizona/Battelle/Illinois Institute of Technology consortium.
- 2.2 **DATA CLEANING:** The process of locating and correcting data processing and field technician errors. They can be individual level errors in the electronic and physical data, or they can be system level errors in the data collection, packaging, coding, entry, and cleaning procedures themselves. This process is also referred to as "data validation."
- 2.3 **DATA, ELECTRONIC:** Data stored on some type of magnetic or optical medium (for example: floppy disk, hard disk).
- 2.4 **DATA, ENTERED:** Electronic data scanned into a data file using Teleform scanning software. Entered data are the product of "data entry."
- 2.5 **DATA, VERIFIED:** Electronic data that has cleared through the Teleform Verification process. In the Verification process Teleform reviews all of the entered data and displays any possible errors. These potential errors are reviewed by a Data Technician. Once all of the errors are fixed the data is saved to an ASCII file.
- 2.6 **DATA CLEANING BATCH:** A collection of electronic data, along with their corresponding physical forms. Data cleaning batches are formed after one or more data processing batches (see DATA PROCESSING BATCH below) are scanned. The data cleaning batches are then cleaned (see DATA CLEANING) and appended to the master database (as described in UA-D-44.X). Each data cleaning batch is assigned a numeric descriptor of the form MMDDYY, where MM is the month the batch was created, DD is the day the batch was created, and YY is the year the batch was created. If more than one batch is created on the same day, each batch after the first is assigned a descriptor of the form MMDDYY_N, where N denotes the batch as being the Nth batch created that day.
- 2.7 **HEALTH AND ENVIRONMENT PROJECTS (or H&E):** An umbrella title for all projects funded to M.D. Lebowitz and/or M.K. O'Rourke (or their designees) which examine purported or real relationships among environmental factors and any aspect of

human health.

- 2.8 HRP SITE: The Health Related Professions building, located at 1435 North Fremont Avenue; Tucson, AZ 85719. This is an annex of the Arizona Prevention Center and the primary site of NHEXAS Arizona, the Border Study, or other Health and the Environment projects.
- 2.9 MASS DATA MASSAGE PROCESS (or MDM) = The data processing program used by NHEXAS Arizona, the Border Study, and other Health and Environment projects.
- 2.10 NHEXAS Arizona: Acronym for National Human EXposure Assessment Survey, a research project conducted in Arizona by the University of Arizona/Battelle/Illinois Institute of Technology consortium.

3.0 References

SOP UA-D-44.X (Operation Manual of the Mass Data Massage Program) (This Volume)

4.0 Discussion

A copy of the Descriptive Questionnaire is given in Appendix A. This copy has each variable labeled for easy reference. Questionnaires and Forms are reviewed for completeness and accuracy prior to being transferred to the data section of the project. These checks are designed to generate flawless forms and questionnaires prior to data entry. Once entered and verified the data is subject to logic checks through the application of Dictionaries and other projects. A copy of the Dictionary for the Descriptive Questionnaire is given in Appendix B. This dictionary defines the file structure for the Descriptive database, as well as the logic and range checks that are performed on each field. For further reference, see SOP# UA-D-4.X.

Sometimes despite all best efforts, errors are found in data. These errors must be corrected to produce a valid database. At this time, all anticipated problems have been addressed. "Cleaning" protocols are developed concurrently with data entry to address the unanticipated problems. Specific corrections will be documented as outlined in SOP # UA-D-38.X.

5.0 Responsibilities

The Project Data Coordinator is responsible for writing the data cleaning instructions for the Descriptive Questionnaire when data problems are found during the data entry process.

6.0 Materials and Reagents

- 6.1 Local Area Network
- 6.2 Purple Pen

6.3 Copy of Data Dictionary for specific form.

7.0 Procedure

7.1 Steps Followed

A. Entering data

1. Scan and verify the form as described in UA-D-34.X.

B. Cleaning Data

1. Log into UNIX environment.
2. Type "data" to run the *MDM*.
3. Select form type
 - a. The user will enter "3" for Questionnaires.
 - b. The *MDM* will then prompt the user for a specific questionnaire. The user will then enter "1" for Descriptive Qx.
 - c. The user is required to enter three encryption keys that allow access to the Descriptive Questionnaire. If the encryption keys are improperly entered then a notice is displayed and the *MDM* ends.
4. The *MDM* shall prompt the user for an action. The user then selects an operation from a given list. Operations include:
 - a. Create a new batch
 - b. Clean existing batch
 - c. QA an existing batch
 - d. [Examine Descriptive Master Database]
5. The user will select the Clean existing batch option:
 - a. The *MDM* will list all possible batches to clean.
 - b. If there are no batches, the program will inform the user, and prompt the user to press the <enter> key, which will return the user to the previous menu.
 - c. If there are batches to be cleaned, the user will be prompted for a specific batch.
 - d. Once a batch is selected, it is preprocessed (checking for errors) for cleaning, and the user is given information regarding the status of the preprocessing.
 - e. If no errors are found within in the data, the *MDM* will send mail to the Data Coordinator informing him of the newly cleaned batch.
 - f. If errors are found in the data, the user is informed as to the number of errors found within the batch.

- i. For each error found in the batch, the user will be shown the key variables to locate the record containing the error, which is displayed between dashed lines.
- ii. The user is then prompted for an action, the action being either the changing the erroneous value, the skipping of the error, a manual change to a different variable in the current record, a manual change to any variable in any record, or the user may quit.

g. If the user wishes to change the erroneous value:

- i. Then "C" must be entered.
- ii. The variable name is then displayed, and the *MDM* prompts for a new value.
- iii. Once a new value is given, the user is given the option to accept the value given, to accept a value formatted by the *MDM*, or to abort the operation.
- iv. If the operation is not aborted, the user is prompted for a reason for the change. Once a reason is given, the update is completed.

h. If the user wishes to skip the error:

- i. He/she must enter "S".
- ii. This will cause the *MDM* to skip the current error, but not the current record.
- i. If the user wishes to change the value of a different variable in the current record:
 - i. He/she must enter "M".
 - ii. The user will then be prompted for the number of changes to be made.
 - iii. Once this number is entered, the *MDM* will then prompt for the variable to be changed.
 - iv. Once a valid variable is specified, the user is prompted for the new value.
 - v. Once a new value is given, the user is given the following options:
 - aa. Accept the value given
 - bb. Accept a value formatted by the *MDM*
 - cc. Abort the operation.
- vi. If the operation is not aborted, the user is prompted for a reason for the change. Once a reason is given, the update is completed.

- j. If the user wishes to change the value of a variable in a different record:
 - i. He/she must enter "R".
 - ii. The user will then be prompted for the number of changes to be made.
 - iii. Once this number is entered, the *MDM* will then prompt for the key variable values of the record to be modified.
 - iv. Once valid values are given, the *MDM* prompts the user for the variable to be changed.
 - v. Once a valid variable is specified, the user is prompted for the new value.
 - vi. Once a new value is given, the user is given the following options:
 - aa. Accept the value given
 - bb. Accept a value formatted by the *MDM*,
 - cc. Abort the operation.
 - vii. If the operation is not aborted, the user is prompted for a reason for the change.
 - viii. Once a reason is given, the update is completed.
- k. If the user wishes to quit, he/she must hit the "Q" key. The user is then returned to the menu defined in I.B.4.

7.2 Steps which are unique to the Descriptive Questionnaire.

- 7.2.1 If the variable "Stage" is 1, then the variable "Collapsed" is Not-Applicable. If the variable "Stage" is 2, 3 or 4, then the variable "Collapsed" must be answered Yes or No.
- 7.2.2 If the Descriptive is an original contact, all of the change bubbles are left blank. The change bubble is indicated by the Greek symbol Delta. If the Descriptive is an update, the section that is being updated is indicated by the field technician filling in the change bubble at the beginning of the section.
- 7.2.3 The information for "Hours at Work", "Hours at School", "Hours at Other Activities", "Work Pesticides", "Work Solvents" and "Group Quarters"(Question 5e) are no longer applicable to the Arizona NHEXAS Arizona, the Border Study, or other Health and the Environment projects. Thus the aforementioned variables are left unanswered.
- 7.2.4 Since the variable of Census Block is only one character, the missing and non-applicable values are also valid answers. For example, "8" is a valid census block but it is also the non-applicable code. The validity of such numbers can be found by comparing "Tract" and "Block".

8.0 Records

- 8.1 All records are automatically generated by the *MDM*.
- 8.2 Records of all the forms in a cleaning batch are printed out when the batch is created. This list is then attached to the cleaning batch.
- 8.3 Records of the changes made to the data are located in the following directory tarred with their associated batch: /rsc53/NHEXAZdata/master/qx/dqx/data.
- 8.4 Records of the cleaning batches which have been appended to the master database are located in the following directory: /rsc53/NHEXAZdata/master/qx/dqx. The list is kept in the file "read.me".
- 8.5 All changes to the hard copy of the form must be dated and completed in purple or red ink.

Inclusions:

- Appendix A: Descriptive Questionnaire (12 pages)
Appendix B: Descriptive Dictionary (63 pages)

Appendix A: Descriptive Questionnaire

■ DESCRIPTIVE QUESTIONNAIRE ■

PAGE 1 ■

National Human Exposure Assessment Survey

Form Type: 01 Study: Itemnum <input type="radio"/> 1. NHEXAS <input type="radio"/> 2. Border <input type="radio"/> 3. _____ <input type="radio"/> 4. _____ <input type="radio"/> 5. _____ 	Stage #: <input type="text"/> Stage Collapsed? <input type="radio"/> Y <input type="radio"/> N <input type="radio"/> S <input type="radio"/> Collapse	Administered By: Tech. ID Init. TechID <input type="text"/>	HHID <input type="text"/> HHID <input type="text"/> <input type="text"/> / <input type="text"/> / <input type="text"/> F.S. <input type="text"/> HHIDFS Administration Date <input type="text"/> / <input type="text"/> / <input type="text"/> MO DAY YR EVNTDATE
<p>1. Administered To (First Name): <input type="text"/></p> <p>2. Basic Household Contact Information (Fill in one bubble)</p> <p>a.. <input type="radio"/> 1. Original Contact GO TO p. 2, Q # 3 <input type="radio"/> 2. Update Continue Contact <input type="radio"/> 3. 10% QA Follow Up Continue</p> <p>b. Update or QA check information collected via (Fill in one bubble):</p> <p><input type="radio"/> 1. Personal Field Interview Continue Up-info <input type="radio"/> 2. Telephone Continue <input type="radio"/> 3. Other (specify) Continue <input type="radio"/> 88. N/A (Default Code)</p> <p>c. Changes since last visit series (or update) are for:</p> <p><input type="radio"/> 1. Household (HH) level only GO TO p. 2, Q # 3 <input type="radio"/> 2. Individual (IRN) level only GO TO p. 10, Q # 6 Changes <input type="radio"/> 3. Both HH and IRN GO TO p. 2, Q # 3 <input type="radio"/> 4. No change to HH or IRN status Stop <input type="radio"/> 88. N/A (Default Code)</p>			

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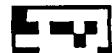
Public reporting burden for this collection of information is estimated to average 15 minutes per completion, and to require 0 hours recordkeeping. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Chief, Information Policy Branch, 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503. OMB Clearance #: PENDING

NHEXAS Form ID: UA-T-1.0-3.0

1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J

Data use only:

8283



PAGE 2

HOUSEHOLD LOCATION

3. Household Location Information (Q #'s 3a-3d)		If update: <input type="radio"/> Δ <input type="radio"/> No Δ																																								
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ННД:

CONTACT HISTORY

PAGE 3

June 1997

Page 3

Page 3

andate:

QA No A

4. If original contact, record (a) contact history, (b) final code from list below, and (c) participation level if applicable. If update, ask Q #s 5c - 5e on next page and then record current final code and participation level below.

Contact	DATE	TIME	COMMENTS	Pending Code	TECH ID
	MO / DAY / YR				
1.	/ /	:			Init. _____
2.	/ /	:			Init. _____
3.	/ /	:			Init. _____
4.	/ /	:			Init. _____
5.	/ /	:			Init. _____
6.	/ /	:			Init. _____
7.	/ /	:			Init. _____
8.	/ /	:			Init. _____
9.	/ /	:			Init. _____
10.	/ /	:			Init. _____
Final Code	Contdate ____ / ____ / ____			Final Code ____ / ____	Tech. ID ____
	MO	DAY	YR	contcode	conttech

PARTICIPATION LEVEL

Fill all bubbles that apply.

- 1. Descriptive complete
 - 2. Baseline complete for P.R.
 - 3. Agrees to Stage 1
 - 4. Agrees to Stage 2
 - 5. Agrees to Stage 3
 - 6. Agrees to Stage 4
 - 7. Refuses Stage 2
 - 8. Refuses Stage 3
 - 9. Unknown level of partic.
 - 88. Not applicable

COMMENTS:

PENDING CODES

- 01 = No one at household
 - 02 = Eligible screening respondent unavailable
 - 03 = Neighbor indicates occupancy
 - 04 = Contact is physically/mentally incompetent - return later
 - 05 = Language Barrier - return with translator
 - 06 = Appointment broken by respondent
 - 07 = Partial interview - return later
 - 08 = Other (Specify in comments section)

II. FINAL CODES

A. If HH is NOT eligible:

- 31 = Vacant housing unit
 - 32 = No contact after 10 attempts
 - 33 = Eligible screening respondent permanently unavailable
 - 34 = Not a primary residence
 - 35 = Physically/mentally incompetent - all contacts
 - 36 = Not a housing unit
 - 37 = Group quarters
 - 38 = Language Barrier - Interpreter Unavailable
 - 39 = Other (Specify in comments section)

B. If HH is eligible:

- 40 = Enrolled Continue
55 = REFUSED (TOTAL) Stop



INTRODUCTION

PAGE 4

5. Hello. I'm (Name) with NHEXAS AZ of the University of Arizona. We are conducting a survey in cooperation with the Environmental Protection Agency on exposures to substances in the environment in and around your home. You have been selected at random to participate in this survey. We mailed a letter to this address that explains the importance of your participation. Do you remember receiving this letter?

If letter not received, hand copy to respondent. Allow time for reading. Answer any questions.

- a. Verify the address in Q # 3c and make any necessary corrections. If the residence has a separate mailing address, then record it in Q # 3d. **not a visitor baby/house sitter, etc., resides Permanent w/ members of HH at least ½ the year**
- b. Verify that the respondent is a RESIDENT of the household and is AT LEAST 18 YEARS OLD. If respondent is not a resident of the household or is not 18 years or older, request to speak to someone eligible to answer for the household.

If eligible respondent Continue

If NO eligible respondent STOP, enter PENDING CODE 02 in Contact History Table, and thank respondent. Arrange a date/time for contact with another eligible respondent.

- c. Is this property your primary residence or is it a vacation home or second home where you live less than half the year?
Fill in ONE bubble:

1. Primary Residence *Type-res* Continue
 2. Secondary Residence Complete Descriptive Questionnaire, but household is INELIGIBLE. Enter FINAL CODE in Contact History Table and then GO TO Q # 5d.
 88. N/A (Default Code) **THAN 10**

- d. Do ~~more~~ MORE PEOPLE live at this address?

Fill in ONE bubble:

1. Yes *Num people* Continue
 2. No GO TO Q # 6
 88. N/A (Default Code)

- e. ~~Probe for relationship: Is this (house/apartment) a group quarters?~~
Fill in ONE bubble:

1. Yes *Grpquart* Complete Descriptive Questionnaire, but household is INELIGIBLE. Enter FINAL CODE in Contact History Table. GO TO Q # 6
 2. No GO TO Q # 6
 88. N/A (Default Code)

HHID:

HOUSEHOLD ROSTER QUESTIONS: Part I

PAGE 5

6. Household Roster Questions (Q #'s 6a - 6i)

- a. First I would like to ask a few general questions about you and the other people who live here now. Just to be sure I account for everyone, please tell me the first names of all the people who currently live here. Let's begin with the person or persons who own the residence or pay the rent.

Enter first name(s) in COLUMN B of the ROSTER. Enter relationship to head if first name(s) is refused.

- b. I have listed (NAME[s]). Is there anyone else living here now such as friends, roomers, or other people we might have overlooked?

If so, ADD them to the ROSTER.

Is (NAME) a full-time resident of this household, that is a person who lives in the residence year round except for short periods of time?

Yes

Continue

No

DELETE from roster and continue with NEXT NAME.

- c. *Fill in the bubble of the sex of each person in COLUMN C (M = MALE and F = FEMALE). Ask if not obvious.*

- d. What is (NAME's) year of birth?

Record year of birth in the print field in COLUMN D.

- e. What is (NAME's) race?

Read choices and fill print field with correct code for race in COLUMN E.

- (1) White
 (2) Black or African-American
 (3) American Indian
 (4) Eskimo or Aleut

- (5) Asian or Pacific Islander
 (6) Some other race (Specify: _____ Code: _____)
 (55) REFUSED
 (88) NOT APPLICABLE (Default Code)
 (99) DON'T KNOW

- f. Is (NAME) of Hispanic or Spanish origin? *Read choices and fill in ONE bubble in COLUMN F.*

- (Y) Yes
 (N) No

- (55) REFUSED
 (88) NOT APPLICABLE (Default Code)
 (99) DON'T KNOW

- g. How much school has (NAME) completed?

Read choices and, in COLUMN G, fill the bubble with the correct code for the highest level completed or degree received. If currently in school, write the highest level of the PREVIOUS grade attended or highest degree received.

- (1) No schooling completed or kindergarten only
 (2) Primary or middle school (Grade 1 through 8)
 (3) Some high school (Grade 10 through 11)
 (4) High school graduate (Grade 12 or GDE)
 (5) Some college or technical school

- (5) College graduate
 (6) Some post-college
 (55) REFUSED
 (88) NOT APPLICABLE (Default Code)
 (99) DON'T KNOW

- h. Does (NAME) smoke tobacco products? *Fill in ONE bubble in COLUMN H.*

- (Y) Yes

Continue below

- (N) No

- (55) REFUSED

Go to Q # 6j

- (88) NOT APPLICABLE

(Default Code)

- (99) DON'T KNOW

Go to Q # 6j

- i. Does (NAME) smoke inside the house? *Fill in ONE bubble in COLUMN I.*

- (Y) Yes
 (N) No

- (55) REFUSED

- (88) NOT APPLICABLE (Default Code)

- (99) DON'T KNOW

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	I	J
<input type="radio"/>																			

Data use only:

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HOUSEHOLD ROSTER QUESTIONS: Part II**PAGE 6****6. Household Roster Questions *Continued* (Q #'s 6j - 6k)**j. Does (NAME) work outside the home? *Fill in ONE bubble in COLUMN K.*(Y) Yes
(N) No(55) REFUSED
(88) NOT APPLICABLE *(Default Code)*
(99) DON'T KNOWk. Does (NAME) attend school or daycare outside the home? *Fill in ONE bubble in COLUMN M.*(Y) Yes
(N) No(55) REFUSED
(88) NOT APPLICABLE *(Default Code)*
(99) DON'T KNOW

NOTE: In the "Household Roster Questions" section of the Descriptive Questionnaire, question numbers 6l, 6m, 6n, 6o, and 6p were eliminated by OMB after the printing of this scannable form version (Qxy = QDES1; Teleform Form_ID = 8283). Page 5 and page 6 (this page) were re-printed with these changes incorporated.

Henceforth, the answer for question 6j is recorded in column K of the Roster, and the answer for question 6k is recorded in column M of the Roster.

The following columns in the Roster are NO LONGER APPLICABLE: J, L, N, O, and P.

Comments: _____

Chair of Custody (sig.): _____

Consigned to jacket _____

Box UA G4-2.0 _____

FORM UA-F5.0-1.0 _____

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	I	J
<input type="radio"/>																			

Data use only:

ННД:

ROSTER: Part I

PAGE 7

A	B	C	D	E
Rost. ID	First Name	Sex	Year of Birth	Race
a.	Fname - A -	*Sex - A M F 55 88 ○ ○ ○ ○	Upbva-A 1	Ethnic - A 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
b.	Fname - B -	Sex - B M F 55 88 ○ ○ ○ ○	Upb-B 1	Ethnic - B 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
c.	Fname - C -	Sex - C M F 55 88 ○ ○ ○ ○	Upb-C 1	Ethnic - C 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
d.	Fname - D	Sex - D M F 55 88 ○ ○ ○ ○	Upb-D 1	Ethnic - D 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
e.	Fname - E	Sex - E M F 55 88 ○ ○ ○ ○	Upb-E 1	Ethnic - E 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
f.	Fname - F	Sex - F M F 55 88 ○ ○ ○ ○	Upb-F 1	Ethnic - F 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
g.	Fname - g	Sex - g M F 55 88 ○ ○ ○ ○	Upb-g 1	Ethnic - g 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
h.	Fname - h	Sex - h M F 55 88 ○ ○ ○ ○	Upb-h 1	Ethnic - h 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
i.	Fname - i	Sex - i M F 55 88 ○ ○ ○ ○	Upb-i 1	Ethnic - i 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
j.	Fname - j	Sex - j M F 55 88 ○ ○ ○ ○	Upb-j 1	Ethnic - j 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
k.	Fname - k	Sex - k M F 55 88 ○ ○ ○ ○	Upb-k 1	Ethnic - k 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
l.	Fname - l	Sex - l M F 55 88 ○ ○ ○ ○	Upb-l 1	Ethnic - l 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
m.	Fname - m	Sex - m M F 55 88 ○ ○ ○ ○	Upb-m 1	Ethnic - m 1 2 3 4 5 6 55 88 99 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

OTHER RACE: <i>Specify beside appropriate roster ID below.</i>	RACE
Ethoth-a <input type="checkbox"/> <input type="checkbox"/>	Ethoth-e <input type="checkbox"/> <input type="checkbox"/>
a. _____	e. _____
Ethoth-b <input type="checkbox"/> <input type="checkbox"/>	Ethoth-f <input type="checkbox"/> <input type="checkbox"/>
b. _____	f. _____
Ethoth-c <input type="checkbox"/> <input type="checkbox"/>	Ethoth-g <input type="checkbox"/> <input type="checkbox"/>
c. _____	g. _____
Ethoth-d <input type="checkbox"/> <input type="checkbox"/>	Ethoth-h <input type="checkbox"/> <input type="checkbox"/>
d. _____	h. _____
Ethoth-i <input type="checkbox"/> <input type="checkbox"/>	Ethoth-j <input type="checkbox"/> <input type="checkbox"/>
i. _____	j. _____
Ethoth-k <input type="checkbox"/> <input type="checkbox"/>	Ethoth-l <input type="checkbox"/> <input type="checkbox"/>
k. _____	l. _____
Ethoth-m <input type="checkbox"/> <input type="checkbox"/>	m. _____
(1) White	
(2) Black or African-American	
(3) American Indian	
(4) Eskimo or Aleut	
(5) Asian or Pacific Islander	
(6) Some other race <i>Specify to left</i>	
(55) REFUSED	
(88) N/A (<i>Default Code</i>)	
(99) DON'T KNOW	



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ROSTER: Part II

Rost. ID	F	G	H	I	J	K
	Hispanic	School Completed	Smoke	Smoke Inside	Smokin-at work	Work outside of home
a.	Hisp-a Y N 55 88 99 ○○○○○	Scomp-a 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-a Y N 55 88 99 ○○○○○	Smokin-a Y N 55 88 99 ○○○○○	Smokin-at work-a Y N 55 88 99 [] []	Workout-a Y N 55 88 99 ○○○○○
b.	Hisp-b Y N 55 88 99 ○○○○○	Scomp-b 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-b Y N 55 88 99 ○○○○○	Smokin-b Y N 55 88 99 ○○○○○	Smokin-at work-b Y N 55 88 99 [] []	Workout-b Y N 55 88 99 ○○○○○
c.	Hisp-c Y N 55 88 99 ○○○○○	Scomp-c 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-c Y N 55 88 99 ○○○○○	Smokin-c Y N 55 88 99 ○○○○○	Smokin-at work-c Y N 55 88 99 [] []	Workout-c Y N 55 88 99 ○○○○○
d.	Hisp-d Y N 55 88 99 ○○○○○	Scomp-d 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-d Y N 55 88 99 ○○○○○	Smokin-d Y N 55 88 99 ○○○○○	Smokin-at work-d Y N 55 88 99 [] []	Workout-d Y N 55 88 99 ○○○○○
e.	Hisp-e Y N 55 88 99 ○○○○○	Scomp-e 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-e Y N 55 88 99 ○○○○○	Smokin-e Y N 55 88 99 ○○○○○	Smokin-at work-e Y N 55 88 99 [] []	Workout-e Y N 55 88 99 ○○○○○
f.	Hisp-f Y N 55 88 99 ○○○○○	Scomp-f 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-f Y N 55 88 99 ○○○○○	Smokin-f Y N 55 88 99 ○○○○○	Smokin-at work-f Y N 55 88 99 [] []	Workout-f Y N 55 88 99 ○○○○○
g.	Hisp-g Y N 55 88 99 ○○○○○	Scomp-g 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-g Y N 55 88 99 ○○○○○	Smokin-g Y N 55 88 99 ○○○○○	Smokin-at work-g Y N 55 88 99 [] []	Workout-g Y N 55 88 99 ○○○○○
h.	Hisp-h Y N 55 88 99 ○○○○○	Scomp-h 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-h Y N 55 88 99 ○○○○○	Smokin-h Y N 55 88 99 ○○○○○	Smokin-at work-h Y N 55 88 99 [] []	Workout-h Y N 55 88 99 ○○○○○
i.	Hisp-i Y N 55 88 99 ○○○○○	Scomp-i 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-i Y N 55 88 99 ○○○○○	Smokin-i Y N 55 88 99 ○○○○○	Smokin-at work-i Y N 55 88 99 [] []	Workout-i Y N 55 88 99 ○○○○○
j.	Hisp-j Y N 55 88 99 ○○○○○	Scomp-j 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-j Y N 55 88 99 ○○○○○	Smokin-j Y N 55 88 99 ○○○○○	Smokin-at work-j Y N 55 88 99 [] []	Workout-j Y N 55 88 99 ○○○○○
k.	Hisp-k Y N 55 88 99 ○○○○○	Scomp-k 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-k Y N 55 88 99 ○○○○○	Smokin-k Y N 55 88 99 ○○○○○	Smokin-at work-k Y N 55 88 99 [] []	Workout-k Y N 55 88 99 ○○○○○
l.	Hisp-l Y N 55 88 99 ○○○○○	Scomp-l 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-l Y N 55 88 99 ○○○○○	Smokin-l Y N 55 88 99 ○○○○○	Smokin-at work-l Y N 55 88 99 [] []	Workout-l Y N 55 88 99 ○○○○○
m.	Hisp-m Y N 55 88 99 ○○○○○	Scomp-m 1 2 3 4 5 6 7 55 88 99 ○○○○○○○○○○	Smoke-m Y N 55 88 99 ○○○○○	Smokin-m Y N 55 88 99 ○○○○○	Smokin-at work-m Y N 55 88 99 [] []	Workout-m Y N 55 88 99 ○○○○○

SCHOOL COMPLETED	COMMENTS
(1) No schooling completed or kindergarten only (2) Primary or middle school (Grade 1 through 8) (3) Some high school (Grade 10 through 11) (4) High school graduate (Grade 12 or GDE) (5) Some college or technical school (6) College graduate (7) Some post-college (55) REFUSED (88) N/A (Default Code) (99) DONT KNOW	_____ _____ _____ _____ _____ _____ _____ _____

1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J

Data use only: (1) (2) (3) (4) (5) (6) (7) (8) (9) (0) (A) (B) (C) (D) (E) (F) (G) (H) (I) (J)

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HHID:

ROSTER: Part III

PAGE 9

Roster #	HhID: At School	M	N	O	P	Q	R
	School outside of home	Hours per week Other Activities	Work Pesticides	Work Solvents	IRN	Status Change	
a.	Mrs-sch-a	Schout-a	Hrply-a	Wpest-a	WsolV-a	IRN-a	Change-a
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
b.	Mrs-sch-b	Schout-b	Hrply-b	Wpest-b	WsolV-b	IRN-b	Change-b
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
c.	Mrs-sch-c	Schout-c	Hrply-c	Wpest-c	WsolV-c	IRN-c	Change-c
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
d.	Mrs-sch-d	Schout-d	Hrply-d	Wpest-d	WsolV-d	IRN-d	Change-d
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
e.	Mrs-sch-e	Schout-e	Hrply-e	Wpest-e	WsolV-e	IRN-e	Change-e
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
f.	Mrs-sch-f	Schout-f	Hrply-f	Wpest-f	WsolV-f	IRN-f	Change-f
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
g.	Mrs-sch-g	Schout-g	Hrply-g	Wpest-g	WsolV-g	IRN-g	Change-g
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
h.	Mrs-sch-h	Schout-h	Hrply-h	Wpest-h	WsolV-h	IRN-h	Change-h
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
i.	Mrs-sch-i	Schout-i	Hrply-i	Wpest-i	WsolV-i	IRN-i	Change-i
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
j.	Mrs-sch-j	Schout-j	Hrply-j	Wpest-j	WsolV-j	IRN-j	Change-j
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
k.	Mrs-sch-k	Schout-k	Hrply-k	Wpest-k	WsolV-k	IRN-k	Change-k
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
l.	Mrs-sch-l	Schout-l	Hrply-l	Wpest-l	WsolV-l	IRN-l	Change-l
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	
m.	Mrs-sch-m	Schout-m	Hrply-m	Wpest-m	WsolV-m	IRN-m	Change-m
	[] . []	[] N 55 88 99 [] O O O O O	[] . []	[] N 55 88 99 [] O O O O O	[] N 55 88 99 [] O O O O O	[] Y N 88 [] O O O	

ROSTER ID	COMMENTS	ROSTER ID	COMMENTS
a.		h.	
b.		i.	
c.		j.	
d.		k.	
e.		l.	
f.		m.	
g.			

1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J

Data use only: (1) (2) (3) (4) (5) (6) (7) (8) (9) (0) (A) (B) (C) (D) (E) (F) (G) (H) (I) (J)

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HOUSEHOLD CHARACTERISTICS

PAGE 10

If update: Δ No Δ

7. Household Characteristics (Q #'s 7a - 7c)

Houschng

- a. I would now like to ask you a few questions about your home. Is your home...
Read choices and fill in ONE bubble. Include all apartments, flats, etc, even if vacant.

- 1. A mobile home or trailer
- 2. A one-family house detached from any other house
- 3. A one-family house attached to one or more houses
- 4. A building with 2 apartments
- 5. A building with 3 to 4 apartments
- 6. A building with 5 to 9 apartments
- 7. A building with 10 to 19 apartments
- 8. A building with 20 to 49 apartments
- 9. A building with 50 or more apartments
- 10. Other (Specify: _____)
- 55. REFUSED
- 88. NOT APPLICABLE (Default Code)
- 99. DON'T KNOW

Houschar

Other code

Char-othr

If update: Δ No Δ

Roomchng

- b. How many rooms are there in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, OR halls, ~~or half-rooms~~.

--	--

Rooms Numrooms

If update: Δ No Δ

Ownchng

- c. Is this house or apartment...

Read choices and fill in ONE bubble.

- 1. Owned by you or someone in this household with a mortgage or loan?
- 2. Owned by you or someone in this household free and clear (without mortgage)?
- 3. Rented for cash?
- 4. Occupied without payment of cash rent?
- 55. REFUSED
- 88. NOT APPLICABLE (Default Code)
- 99. DON'T KNOW

Housownd

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	I	J
<input type="radio"/>																			

Data use only:

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HHID: _____

RESPONDENT SELECTION

PAGE 11

8. a. *What is the roster line ID of Primary Respondent?*

 Primrost

If update:

 Δ No Δ

Pr-chng

- b. *Obtain full name of Primary Respondent.*

First

Prfname

Middle:

Prmid-in

Last

Prlname

If update:

 Δ No Δ

G-chng

- c. *If Primary Respondent is UNDER 18, obtain full name of Primary Respondent's legal guardian.*

G-none

 Primary Respondent is UNDER 18 N/A (Default Code)

First

Gfname

Middle:

Gmid-in

Last

E Glname

9. STAGE I ONLY!

- a. Thank you for taking the time to answer our questions about your household. We would like to ask some additional questions about each individual in your home using a second questionnaire [Display BASELINE QUESTIONNAIRE]. This questionnaire asks much more detailed questions related to your potential exposure to the substances in the environment we are interested in. It will take approximately one hour to complete this questionnaire. Is this a good time to do this?

1. YES ----- *Obtain informed consent and administer BASELINE.*
 2. NO ----- *GO TO Q # 9b.*

- b. Would there be a better time to do this?

1. YES ----- *Schedule appt. and record below. Then GO TO Q # 10.*
 2. NO ----- *GO TO Q # 10.*

_____ / _____ / _____ AT _____ : _____
 MO DAY YR

Comments: _____

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1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J
 Data use only:



FUTURE CONTACT

PAGE 12

10. **IF NO ONE SELECTED:** My supervisor needs to call some of the people I talk with in order to verify my work

MAY
IF PARTICIPANT SELECTED: We ~~will~~ need to call you to verify the appointments.

a. Do you have a telephone in this house or apartment?

If update:

 Δ No Δ

- 1. Yes ----- *Record below. Then GO TO Q # 11.*
 - 2. No ----- *GO TO Q # 10c.*
 - 55. REFUSED ----- *GO TO Q # 12.*
 - 88. NOT APPLICABLE ----- (Default Code)
 - 99. DON'T KNOW ----- *GO TO Q # 10c.*
- Phone*

b. What is the telephone number, starting with the area code?

Home telephone number:

() -

Home num

c. Is there a telephone on which you can receive calls?

If update:

 Δ No Δ

- 1. Yes ----- *Record below. Then GO TO Q # 12.*
 - 2. No ----- *GO TO Q # 12.*
 - 55. REFUSED ----- *GO TO Q # 12.*
 - 88. NOT APPLICABLE ----- (Default Code)
 - 99. DON'T KNOW ----- *GO TO Q # 12.*
- Alt ring*
- Phon alt*

d. What is the telephone number, starting with area code?

Alternative telephone number:

() -

Alt num

11. When would be a good time to call you?

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.
Mornings							
Afternoons							
Evenings							

12. Thank respondent. On p. 3 (Contact History), record final code and participation level.

Data use only: Page Link QA

Init.

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	I	J
<input type="radio"/>																			

Data use only:

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Appendix B: Descriptive Dictionary

* Logic checks reviewed and approved by Mary Kay on 05/07/96
* Last updated by Jared on 06/25/97

* It was decided that we wanted the least amount of missing values as possible.

* Thus missing values were not included in any of the logic checks.

* If there was a missing, it was verified and then a missing value would be

* added to the appropriate logic check.

K HHID (F6.0) '', HHIDFS (A1) '', Stage (F1.0) '', Evndt_m (F2.0) '', Evndt_d (F2.0) ''
Evndt_y (F2.0) ''

Q HHID 1 1 I6
T Household Identification

Q HHIDFS 1 7 A1
T Household Family Schism
Y 'A' Most frequent answer

* The following date field has been broken up into mm/dd/yy
* Q Evndate 1 8 A8
* T Administration Date

Q Evndt_m 1 8 I2
T Administration Date, Month
R (01,12)

Q Evndt_d 1 11 I2
T Administration Date, Day
R (01,31)

Q Evndt_y 1 14 I2
T Administration Date, Year
R (95,99)

Q Itemnum 1 16 I2
T Form Type
Y 01 Descriptive Questionnaire

Q Study 1 18 I14
T Study
Y 000000000000001 NHEXAS
Y 000000000000002 Border

Q Stage 1 32 I1
T Stage #
R (1,5)

Q Collapse 1 33 I2
T Collapsed?

Y 01 Yes

Y 02 No

Y 08 N/A

P Stage (F2.0) ''

L X (any(Stage,1,4,5,8) and Collapse=08)

L X (any(Stage,2,3) and any(Collapse,01,02))

Q TechID 1 35 I2

T Administered By:

Y 11 Ruben Dorame

Y 12 Antonio Luna

Y 13 Bruce Bechtal

Y 14 Bruce Seivertson

Y 17 First Semester Jessica Fanzo

Y 21 Maria R. Gayosso

Y 26 Nikos T. Melitas

Y 28 Rex A. Hansen

Y 30 Seumas P. Rogan

Y 33 Dipa Chundur

Y 34 Ralph Saunders

Y 37 Rosemary Anderson

Y 38 Jessica Fanzo

Y 39 John Carruthers

Y 42 Michael Gaskin

Y 43 Aaron McNeely

Y 44 Greg Gomez

Y 45 Mike Stambulis

Y 49 Patricia Lizardi

Y 51 Carlos Velez

Y 52 Colleen Brown

Q Adminto 1 37 A15

T Administered To (First Name):

V q1

Q Contact 1 52 I2

T Basic Household Contact Information

V q2a

Y 01 Original Contact

Y 02 Update

Y 03 10% QA Follow Up

Q Up_info 1 54 I3

T Update or QA check information collected via

V q2b

Y 001 Personal Field Interview

Y 002 Telephone

Y 003 Other (specify) _____

Y 088 N/A

P Contact (F2.0) ''

L X (Contact=01 and Up_info=088)

L X (any(Contact,02,03) and any(Up_info,001,002,003))

Q Up_other 1 57 I2

T Other Code

V q2bo

Y -8 N/A

P Contact (F2.0) ''

L X ((Contact=01 or any(Up_info,001,002,088)) and Up_other=-8)

L X Up_info=003 and not(Up_other=-8)

Q Changes 1 59 I3

T Changes since last visit series (or update) are for:

V q2c

Y 001 Household (HH) level only

Y 002 Individual (IRN) level only

Y 003 Both HH and IRN

Y 004 No change to HH or IRN status

Y 088 N/A

P Contact (F2.0) ''

L X (Contact=01 and Changes=088)

L X (any(Contact,02,03) and any(Changes,001,002,003,004))

Q Gpschng 1 62 I2

T Household Location Information, If update

Y 01 Change

Y 02 No Change

P Changes (F3.0) ''

L X (Changes=088 and Gpschng=01)

L X (any(Changes,002,004) and Gpschng=02)

L X (any(Changes,001,003) and any(Gpschng,01,02))

Q Latdeg 1 64 I2

T GPS, LAT degrees

V q3a1

R (31,99)

Y -8 N/A

Y -9 Missing

P Gpschng (F2.0) '', Contact (F2.0) ''

L X (Gpschng=02 and Latdeg=-8)

L X ((Contact=01 and Gpschng=01) and (Latdeg=-9 or range(Latdeg,31,99)))

L X ((any(Contact,02,03) and Gpschng=01) and any(Latdeg,-8,-9) or

+ F range(Latdeg,31,99))

Q Latmin 1 66 I2

T GPS, LAT minutes

V q3a2

R (00,99)

Y -8 N/A

Y -9 Missing

P Gpschng (F2.0) '', Contact (F2.0) ''

L X (Gpschng=02 and Latmin=-8)

L X ((Contact=01 and Gpschng=01) and (Latmin=-9 or range(Latmin,00,99)))
 L X ((any(Contact,02,03) and Gpschng=01) and (range(Latmin,00,99) or
 + F any (Latmin,-8,-9)))

Q Latsec 1 68 I2
 T GPS, LAT seconds
 V q3a3
 R (00,99)
 Y -8 N/A
 Y -9 Missing
 P Gpschng (F2.0) '', Contact (F2.0) ''
 L X (Gpschng=02 and Latsec=-8)
 L X ((Contact=01 and Gpschng=01) and (Latsec=-9 or range(Latsec,00,99)))
 L X ((any(Contact,02,03) and Gpschng=01) and (range(Latsec,00,99) or
 + F any (Latmin,-8,-9)))

Q Longdeg 1 70 I3
 T GPS, LONG degrees
 V q3a4
 R (109,888)
 Y -88 N/A
 Y -99 Missing
 P Gpschng (F2.0) '', Contact (F2.0) ''
 L X (Gpschng=02 and Longdeg=-88)
 L X ((Contact=01 and Gpschng=01) and (Longdeg=-99 or range(Longdeg,109,888)))
 L X ((any(Contact,02,03) and Gpschng=01) and any(Longdeg,-88,-99) or
 + F range(Longdeg,109,888))

Q Longmin 1 73 I2
 T GPS, LONG minutes
 V q3a5
 R (00,99)
 Y -8 N/A
 Y -9 Missing
 P Gpschng (F2.0) '', Contact (F2.0) ''
 L X (Gpschng=02 and Longmin=-8)
 L X ((Contact=01 and Gpschng=01) and (Longmin=-9 or range(Longmin,00,99)))
 L X ((any(Contact,02,03) and Gpschng=01) and (range(Longmin,00,99) or
 + F any (Longmin,-8,-9)))

Q Longsec 1 75 I2
 T GPS, LONG seconds
 V q3a6
 R (00,99)
 Y -8 N/A
 Y -9 Missing
 P Gpschng (F2.0) '', Contact (F2.0) ''
 L X (Gpschng=02 and Longsec=-8)
 L X ((Contact=01 and Gpschng=01) and (Longsec=-9 or range(Longsec,00,99)))
 L X ((any(Contact,02,03) and Gpschng=01) and (range(Longsec,00,99) or
 + F any (Longmin,-8,-9)))

Q Elevat 1 77 I4
T GPS, Elevation, feet
V q3a7
R (0000,9000)
Y -888 N/A
Y -999 Missing
P Gpschng (F2.0) '', Contact (F2.0) ''
L X (Gpschng=02 and Elevat=-888)
L X ((Contact=01 and Gpschng=01) and (Elevat=-999 or range(Elevat,0000,9999)))
L X ((any(Contact,02,03) and Gpschng=01) and (range(Elevat,0000,9999) or
+ F any (Elevat,-888,-999)))

Q Utmeast 1 81 I9
T UTM East
V q3a8
R (0,100000000)
Y -88888888 N/A
Y -99999999 Missing
P Gpschng (F2.0) '', Contact (F2.0) ''
L X (Gpschng=02 and Utmeast=-88888888)
L X ((Contact=01 and Gpschng=01) and (Utmeast=-99999999 or
+ F range(Utmeast,0,100000000)))
L X ((any(Contact,02,03) and Gpschng=01) and (range(Utmeast,0,100000000) or
+ F any (Utmeast,-88888888,-99999999)))

Q Utmnorth 1 90 I7
T UTM North
V q3a9
R (0,10000000)
Y -888888 N/A
Y -999999 Missing
P Gpschng (F2.0) '', Contact (F2.0) ''
L X (Gpschng=02 and Utmnorth=-888888)
L X ((Contact=01 and Gpschng=01) and (Utmnorth=-999999 or
+ F range(Utmnorth,0,100000000)))
L X ((any(Contact,02,03) and Gpschng=01) and (range(Utmnorth,0,100000000) or
+ F any (Utmnorth,-88888888,-999999)))

Q Cenchng 1 97 I2
T Census, If update
Y 01 Change
Y 02 No Change
P Changes (F3.0) ''
L X (Changes=088 and Cenchng=01)
L X (any(Changes,002,004) and Cenchng=02)
L X (any(Changes,001,003) and any(Cenchng,01,02))

Q Centract 1 99 I6
T Census Tract
V q3b1

R (000000,522721)
Y -88888 N/A
Y -99999 Missing
P Cenchng (F2.0) '', Contact (F2.0) ''
L X (Cenchng=02 and Centract=-88888)
L X ((Contact=01 and Cenchng=01) and range(Centract,000000,522721) or
+ F (Centract=-99999))
L X ((any(Contact,02,03) and Cenchng=01) and (range(Centract,000000,522721) or
+ F any(Centract,-88888,-99999)))

* Since this is only a variable of length one, there is no way to code it
* as missing or not applicable. Therefore beware of values 8 and 9 as
* these values could be real values or the codes for not applicable
* or missing, respectively. The validity of these numbers should be checked
* by comparing them to "Tract" and "Block".

Q Cenbg 1 105 I1

T Census BG

V q3b2

R (1,8)

Y 8 N/A

Y 9 Missing

P Cenchng (F2.0) '', Contact (F2.0) ''

L X (Cenchng=02 and Cenbg=8)

L X ((Contact=01 and Cenchng=01) and range(Cenbg,1,9))

L X ((any(Contact,02,03) and Cenchng=01) and (range(Cenbg,1,9) or

+ F Cenbg=8))

Q Cenblk 1 106 A4

T Census BLK

V q3b3

P Cenchng (F2.0) '', Contact (F2.0) ''

L X (Cenchng=02 and Cenblk="-888")

L X ((Contact=01 and Cenchng=01) and not(any(Cenblk,"-888")))

L X (any(Changes,002,004) and Cenblk="-888")

L X (any(Changes,001,003) and Cenchng=01)

Q Livechng 1 110 I2

T Living address, If update

Y 01 Change

Y 02 No Change

P Changes (F3.0) ''

L X (Changes=088 and Livechng=01)

L X (any(Changes,002,004) and Livechng=02)

L X (any(Changes,001,003) and any(Livechng,01,02))

* In NHEXAS we are sampling the house. If the people move we do NOT follow
* them. Instead we generate a new HHID and continue to sample the same
* house. Thus, it is possible to have two HHID's with the same address.

Q Street 1 112 A25

T Living address, street

V q3c1

P Livechng (F2.0) ''
L X (Livechng=02) and any(Street, "-88888888888888888888")
L X (Contact=01 and Livechng=01 and not(contcode=36)) and
+ F not(any(Street, "-88888888888888888888"))
L X (any(Changes,001,003) and Livechng=01)
* If HHID is not a housing unit(contcode=36), ther may or may not be an adress.
L X contcode=36

Q Apt 1 137 A5
T Living address, Apt #
V q3c2
P Livechng (F2.0) ''
L X (Livechng=02 or contcode=36) and any(Apt, "-8888")
L X (Contact=01 and Livechng=01 and not(contcode=36)) and
+ F any(Apt, "-8888") or not(any(Apt, "-8888"))
L X (any(Changes,001,003) and Livechng=01)

Q City 1 142 A15
T Living address, City
V q3c3
P Livechng (F2.0) ''
L X (Livechng=02) and any(City, "YYYYYYYYYYYYYYYY")
L X (Contact=01 and Livechng=01 and not(contcode=36)) and
+ F not(any(City, "YYYYYYYYYYYYYYYY"))
L X (any(Changes,001,003) and Livechng=01)
* If HHID is not a housing unit(contcode=36), ther may or may not be an adress.
L X contcode=36

Q County 1 157 I3
T Living address, County
V q3c4
Y 001 Apache
Y 002 Cochise
Y 003 Coconino
Y 004 Gila
Y 005 Graham
Y 006 Greenlee
Y 007 La Paz
Y 008 Maricopa
Y 009 Mohave
Y 010 Navajo
Y 011 Pima
Y 012 Pinal
Y 013 Santa Cruz
Y 014 Yavapai
Y 015 Yuma
Y 088 N/A
Y 099 Missing
P Livechng (F2.0) '', Contact (F2.0) ''
L X (Livechng=02) and (County=88)
L X (Contact=01 and Livechng=01 and not(contcode=36)) and

+ F (range(County,001,015))
L X (any(Contact,02,03) and Livechng=01) and (range(County,001,015) or
+ F County=088)
* If HHID is not a housing unit(contcode=36), ther may or may not be an adress.
L X contcode=36

Q Zip 1 160 A10
T Living address, Zip + 4
V q3c5
P Livechng (F2.0) ''
L X (Livechng=02 and any(Zip,"-8888-8888"))
L X (Contact=01 and Livechng=01 and not(contcode=36)) and
+ F not(any(Zip,"-8888-8888"))
L X (any(Changes,001,003) and Livechng=01)
* If HHID is not a housing unit(contcode=36), ther may or may not be an adress.
L X contcode=36

Q State 1 170 A2
T Living address, State
V q3c6
Y 'AZ' Arizona

Q Mailchng 1 172 I2
T Mailing address, If update
Y 01 Change
Y 02 No Change
Y -8 N/A
P Changes (F3.0) ''
L X (Changes=088 and Mailchng=01)
L X (any(Changes,002,004) and Mailchng=02)
L X (any(Changes,001,003) and any(Mailchng,01,02))

Q NoMailAd 1 174 I4
T Mailing address, No mailing address
V q3d
Y 0001 No mailing address
Y 0088 N/A
P Mailchng (F2.0)', M_strt (A25) ''
L X (Mailchng=02 and NoMailAd=0088)
L X (Mailchng=01 and any(NoMailAd,0001,0088))

Q M strt 1 178 A25
T Mailing address, Street
V q3d1
P Mailchng (F2.0) ', NoMailAd (F4.0) ''
L X ((NoMailAd=0001 or Mailchng=02) and any(M strt,"-888888888888888888888888"))
L X (Contact=01 and NoMailAd=0088 and not(contcode=36)) and
+ F not(any(M strt,"-888888888888888888888888"))
L X (any(Contact,02,03) and NoMailAd=0088 and not(contcode=36) and NoMailAd=01)

Q M_apt 1 203 A5

T Mailing address, Apt #

V q3d2

Y '-8888' N/A

P Mailchng (F2.0) '', NoMailAd (F4.0) ''

L X ((NoMailAd=0001 or Mailchng=02) and M_apt="-8888")

L X (Contact=01 and NoMailAd=0088 and not(contcode=36)) and

+ F any(M_apt,"-8888") or not(any(M_apt,"-8888"))

L X (any(Contact,02,03) and NoMailAd=0088 and not(contcode=36)) and

+ F not(any(M_apt,"-8888") or any(M_apt,"-8888"))

Q M_city 1 208 A15

T Mailing address, City

V q3d3

P Mailchng (F2.0) '', NoMailAd (F4.0) ''

L X ((NoMailAd=0001 or Mailchng=02) and any(M_city,"YYYYYYYYYYYYYYYYYY"))

L X (Contact=01 and NoMailAd=0088 and not(contcode=36)) and

+ F not(any(M_city,"YYYYYYYYYYYYYYYYYY"))

L X (any(Contact,02,03) and NoMailAd=0088 and not(contcode=36)) and

+ F Mailchng=01)

Q M_county 1 223 I3

T Mailing address, County

V q3d4

Y 001 Apache

Y 002 Cochise

Y 003 Coconino

Y 004 Gila

Y 005 Graham

Y 006 Greenlee

Y 007 La Paz

Y 008 Maricopa

Y 009 Mohave

Y 010 Navajo

Y 011 Pima

Y 012 Pinal

Y 013 Santa Cruz

Y 014 Yavapai

Y 015 Yuma

Y 088 N/A

P Mailchng (F2.0) '', NoMailAd (F4.0) ''

L X ((NoMailAd=0001 or Mailchng=02 or M_state<>'AZ') and M_county=088)

L X (Contact=01 and NoMailAd=0088 and not(contcode=36)) and

+ F range(M_county,001,015)

L X (any(Contact,02,03) and NoMailAd=0088 and not(contcode=36) and Mailchng=01)

Q M_zip 1 226 A10

T Mailing address, Zip + 4

V q3d5

P Mailchng (F2.0) '', NoMailAd (F4.0)

L X ((NoMailAd=0001 or Mailchng=02) and any(M_zip,"-8888-8888"))

L X (Contact=01 and NoMailAd=0088 and not(contcode=36)) and

+ F not(any(M_zip,"-8888-8888"))
L X (any(Contact,02,03) and NoMailAd=0088 and not(contcode=36) and Mailchng=01)

Q M_state 1 236 A2
T Mailing address, State
V q3d6
Y 'AZ' Arizona
Y 'NY' New York

Q Contchng 1 238 I2
T Contact History, If update
Y 01 Change
Y 02 No Change
P Contact (F2.0) '', Changes (F3.0) ''
L X (Contact=01 and Contchng=01)
L X (any(Changes,002,004) and Contchng=02)
L X (any(Changes,001,003) and any(Contchng,01,02))

* The following date field has been broken up into mm/dd/yy
* Q Contdate 1 240 A8
* T Contact History, Date, Final Code
* Y '88/88/88' N/A

Q Contdt_m 1 240 I2
T Contact History, Date, Month
V q4a
R (01,12)
Y -8 N/A
P Contact (F2.0) '', Contchng (F2.0) ''
L X (Contchng=02 and Contdt_m=-8)
L X ((Contact=01 and Contchng=01) and range(Contdt_m,01,12))
L X ((any(Contact,02,03) and Contchng=01) and (range(Contdt_m,01,12) or
+ F Contdt_m=-8))

Q Contdt_d 1 243 I2
T Contact History, Date, Day
V q4b
R (01,31)
Y -8 N/A
P Contact (F2.0) '', Contchng (F2.0) ''
L X (Contchng=02 and Contdt_d=-8)
L X ((Contact=01 and Contchng=01) and range(Contdt_d,01,31))
L X ((any(Contact,02,03) and Contchng=01) and (range(Contdt_d,01,31) or
+ F Contdt_d=-8))

Q Contdt_y 1 246 I2
T Contact History, Date, Year
V q4c
R (95,99)
Y -8 N/A
P Contact (F2.0) '', Contchng (F2.0) ''

L X (Contchng=02 and Contdt_y=-8)
L X ((Contact=01 and Contchng=01) and range(Contdt_y,95,99))
L X ((any(Contact,02,03) and Contchng=01) and (range(Contdt_y,95,99) or
+ F Contdt_y=-8))

Q contcode 1 248 I2
T Contact History, Pending Code, Final Code
V q4d
Y 01 No one at household
Y 02 Eligible screening respondent unavailable
Y 03 Neighbor indicates occupancy
Y 04 Contact is physically/mentally incompetant - return later
Y 05 Language Barrier - return with translator
Y 06 Appointment broken by respondent
Y 07 Partial interview - return later
Y 08 Other
Y 31 Vacant housing unit
Y 32 No contact after 10 attempts
Y 33 Eligible screening respondent permanently unavailable
Y 34 Not a primary residence
Y 35 Physically/mentally incompetent - all contacts
Y 36 Not a housing unit
Y 37 Group quarters
Y 38 Language Barrier - Interpreter Unavailable
Y 39 Other
Y 40 Enrolled
Y -8 N/A
Y 55 Refused
P Contact (F2.0) '', Contchng (F2.0) ''
L X (Contchng=02 and Contdt_y=-8)
L X ((Contact=01 and Contchng=01) and (range(contcode,01,08) or
+ F range(contcode,31,40) or contcode=55))
L X ((any(Contact,02,03) and Contchng=01) and (range(contcode,01,08) or
+ F range(contcode,31,40) or any(contcode,-8,55)))

Q Conttech 1 250 I2
T Contact History, Tech ID, Final Code
V q4e
Y 11 Ruben Dorame
Y 12 Antonio Luna
Y 13 Bruce Bechtal
Y 14 Bruce Seivertson
Y 17 First Semester Jessica Fanzo
Y 21 Maria R. Gayosso
Y 26 Nikos T. Melitas
Y 28 Rex A. Hansen
Y 30 Seumas P. Rogan
Y 33 Dipa Chundur
Y 34 Ralph Saunders
Y 37 Rosemary Anderson
Y 38 Jessica Fanzo

Y 39 John Carruthers
Y 42 Michael Gaskin
Y 43 Aaron McNeely
Y 44 Greg Gomez
Y 45 Mike Stambulis
Y 49 Patricia Lizardi
Y 51 Carlos Velez
Y 52 Coleen Brown
Y -8 N/A
P Contact (F2.0) '' , Contchng (F2.0) ''
L X (Contchng=02 and Conttech=-8)
L X ((Contact=01 and Contchng=01) and
+ F any(Conttech,11,12,13,14,17,21,26,28,30,33,34,37,38,39,42,43,44,45,49,51,52))
L X ((any(Contact,02,03) and Contchng=01) and
+ F (any(Conttech,11,12,13,14,17,21,26,28,30,33,34,37,38,39,42,43,44,45,49,51,52) or Conttech=-8))

Q Desccomp 1 252 I3
T Participation Level: Descriptive complete
V q4f1
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''
L X (Contchng=02 and Desccomp=000)
L X (Contchng=01 and any(Desccomp,000,001))

Q Basecomp 1 255 I3
T Participation Level: Baseline complete for P.R.
V q4f2
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''
L X (Contchng=02 and Basecomp=000)
L X (Contchng=01 and any(Basecomp,000,001))

Q Agree1 1 258 I3
T Participation Level: Agrees to Stage 1
V q4f3
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''
L X (Contchng=02 and Agree1=000)
L X (Contchng=01 and any(Agree1,000,001))

Q Agree2 1 261 I3
T Participation Level: Agrees to Stage 2
V q4f4
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''
L X (Contchng=02 and Agree2=000)

L X (Contchng=01 and any(Agree2,000,001))

Q Agree3 1 264 I3
T Participation Level: Agrees to Stage 3

V q4f5
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''

L X (Contchng=02 and Agree3=000)
L X (Contchng=01 and any(Agree3,000,001))

Q Agree4 1 267 I3
T Participation Level: Agrees to Stage 4

V q4f6
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''

L X (Contchng=02 and Agree4=000)
L X (Contchng=01 and any(Agree4,000,001))

Q Refuse2 1 270 I3
T Participation Level: Refuses Stage 2

V q4f7
Y 001 Checked
Y 000 Not Checked

P Contchng (F2.0) '', Agree2 (F3.0)
L X (Contchng=02 and Refuse2=000)
L X ((Contchng=01 and Agree2=001) and Refuse2=000)

L X ((Contchng=01 and Agree2=000) and any(Refuse2,000,001))

Q Refuse3 1 273 I3
T Participation Level: Refuses Stage 3

V q4f8
Y 001 Checked
Y 000 Not Checked

P Contchng (F2.0) '', Agree3 (F3.0)
L X (Contchng=02 and Refuse3=000)
L X ((Contchng=01 and Agree3=001) and Refuse3=000)

L X ((Contchng=01 and Agree3=000) and any(Refuse3,000,001))

Q Unkpart 1 276 I3
T Participation Level: Unknown level of partic.

V q4f9
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''
L X (Contchng=02 and Unkpart=000)
L X (Contchng=01 and any(Unkpart,000,001))

Q Na_part 1 279 I3
T Participation Level: Unknown level of partic.

V q4f10
Y 001 Checked
Y 000 Not Checked
P Contchng (F2.0) ''
L X (Contchng=02 and Na_part=001)
L X (Contchng=01 and any(Na_part,000,001))

Q Type_res 1 282 I3
T Is this property your primary residence or is it a vacation home or second home where you live less than half the year?
V q5c
Y 001 Primary Residence
Y 002 Secondary Residence
Y 088 N/A
P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,002,004) or not(any(contcode,34,37,40,-8))) and Type_res=088)
L X (any(Changes,001,003) and any(Type_res,001,002,088))
L X (Changes=088 and (any(contcode,34,37,40,-8))) and any(Type_res,001,002)

Q Numpeopl 1 285 I3
T Do more than 10 people live at this address?
V q5d
Y 001 Yes
Y 002 No
Y 088 N/A
P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,002,004) or not(any(contcode,34,37,40,-8))) and Numpeopl=088)
L X (any(Changes,001,003) and any(Numpeopl,001,002,088))
L X (Changes=088 and (any(contcode,34,37,40,-8))) and any(Numpeopl,001,002)

* This Question is no longer asked

Q Grpquart 1 288 I3
T Is this house/apartment a group quarters?
V q5e
Y 088 N/A

Q Fname_a 1 291 A15
T Roster, Rost.I.D. a, First Name
V q6ab
P Change_a (F3.0) '', contcode (F2.0) ''
L X ((Change_a=002 or not(any(contcode,34,40,-8))) and
+ F any(Fname_a,"YYYYYYYYYYYYYYYYYY"))
L X (any(Change_a,001,088))

Q Sex_a 1 306 I3
T Roster, Rost. ID a, Sex
V q6ac
Y 001 M
Y 002 F
Y 055 Refused
Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_a (A15) '', Change_a (F3.0) ''
L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
+ F Sex_a=088)

L X ((any(Changes,002,003) and any(Change_a,001,088)) and
+ F any(Sex_a,001,002,055,088))

* On the following logic check Change_a=001 is not a correct value but was
* left in to help speed up the cleaning process. There is a latter logic
* check that will find this error. This type of logic check is repeated
* through out the rest of this table. The idea being that it is better
* to check for the incorrect value only once instead of everytime
* you use Change_a is used in a logic check.

L X ((Changes=088 and any(Change_a,001,088)) and (any(Sex_a,001,002,055) or
+ F (Sex_a=088 and any(Fname_a,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_a 1 309 I4

T Roster, Rost. ID a, Year of birth

V q6ad

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_a (A15) '', Change_a (F3.0) ''

L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
+ F Yob_a=-888)

L X ((any(Changes,002,003) and any(Change_a,001,088)) and
+ F (any(Yob_a,-888,-555,-999) or range(Yob_a,1875,1996)))

L X ((Changes=088 and any(Change_a,001,088)) and ((any(Yob_a,-555,-999) or
+ F range(Yob_a,1875,1996)) or (Yob_a=-888 and any(Fname_a,"YYYYYYYYYYYYYYYYYY"))))

* A Coding decision was made that if participant was hispanic and
* selected 6 (other) that we would recode it white (1) and make sure
* that the hispanic question on next page was selected yes

Q Ethnic_a 1 313 I3

T Roster, Rost. ID a, Race

V q6ae

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_a (A15) '', Change_a (F3.0) ''

L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
+ F Ethnic_a=088)

L X ((any(Changes,002,003) and any(Change_a,001,088)) and
+ F (any(Ethnic_a,088,055,099) or range(Ethnic_a,001,006)))

L X ((Changes=088 and any(Change_a,001,088)) and ((Ethnic_a=055 or

+ C range(Ethnic_a,001,006)) or (Ethnic_a=088 and
+ F any(Fname_a,"YYYYYYYYYYYYYYYYYY"'))))

Q Ethoth_a 1 316 I2
T Roster, Rost. ID a, Other Race
Y 07 African American and White
Y 08 White and Native American
Y 09 Hispanic and Native American
Y 10 African American and Native American
Y 11 Asian/Pacific Islander
Y 12 Eskimo/Aleut
Y 13 Native Australian/Native New Zealander
Y 14 African American and Asian/Pacific Islander
Y 15 African American and Eskimo/Aleut
Y 16 White and Asian/Pacific Islander
Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut
Y 20 Native American and Asian/Pacific Islander
Y 21 Native American and Eskimo/Aleut
Y 22 American ancestry unspecified
Y 23 African American or White and Hispanic
Y 24 Cuban
Y -5 Refused
Y -8 N/A
Y -9 Missing
P contcode (F2.0) '', Ethnic_a (F3.0) '', Change_a (F3.0) ''
L X ((Ethnic_a=06 and any(Change_a,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_a=-9 or range(Ethoth_a,07,24)))
L X ((any(Ethnic_a,001,002,003,004,005,088) or Change_a=002) and Ethoth_a=-8)
L X ((Ethnic_a=055 and any(Change_a,001,088)) and Ethoth_a=-5)

Q Hisp_a 1 318 I3
T Roster, Rost. ID a, Hispanic
V q6af
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P contcode (F2.0) '', Ethnic_a (F3.0) '', Change_a (F3.0) ''
L X ((any(Ethnic_a,001,002,003,004,005,006,088) and any(Change_a,001,088)) and
+ F any(Hisp_a,001,002,088,099))
L X ((Change_a=002 or not(any(contcode,34,40,-8))) and Hisp_a=088)
L X ((Ethnic_a=055 and any(Change_a,001,088)) and Hisp_a=055)

Q Scomp_a 1 321 I3
T Roster, Rost. ID a, School Completed
V q6ag
Y 001 No schooling completed or kindergarten only
Y 002 Primary or middle school

Y 003 Some high school
 Y 004 High school graduate
 Y 005 Some college or technical school
 Y 006 College graduate
 Y 007 Some post-college
 Y 055 Refused
 Y 088 N/A
 Y 099 Missing
 P Changes (F3.0) '', contcode (F2.0) '', Fname_a (A15) '', Change_a (F3.0) ''
 L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
 + F Scomp_a=088)
 L X ((any(Changes,002,003) and any(Change_a,001,088)) and
 + F (any(Scomp_a,088,055,099) or range(Scomp_a,001,007)))
 L X ((Changes=088 and any(Change_a,001,088)) and ((any(Scomp_a,055,099) or
 + F range(Scomp_a,001,007)) or (Scomp_a=088 and any(Fname_a,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_a 1 324 I3
 T Roster, Rost. ID a, Smoke
 V q6ah
 Y 001 Y
 Y 002 N
 Y 055 Refused
 Y 088 N/A
 Y 099 Missing
 P Changes (F3.0) '', contcode (F2.0) '', Fname_a (A15) '', Change_a (F3.0) ''
 L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
 + F Smoke_a=088)
 L X ((any(Changes,002,003) and any(Change_a,001,088)) and
 + F (any(Smoke_a,088,055,099) or any(Smoke_a,001,002)))
 L X ((Changes=088 and any(Change_a,001,088)) and ((Smoke_a=055 or
 + F any(Smoke_a,001,002,099)) or (Smoke_a=088 and
 any(Fname_a,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_a 1 327 I3
 T Roster, Rost. ID a, Smoke Inside
 V q6ai
 Y 001 Y
 Y 002 N
 Y 055 Refused
 Y 088 N/A
 Y 099 Missing
 P Changes (F3.0) '', contcode (F2.0) '', Smoke_a (F3.0) '', Change_a (F3.0) ''
 L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
 + F Smkin_a=088)
 L X ((any(Changes,002,003,088) and any(Change_a,001,088) and Smoke_a=001) and
 + F any(Smkin_a,001,002,055,099))
 L X ((any(Changes,002,003,088) and any(Change_a,001,088) and Smoke_a=002) and
 + F Smkin_a=088)
 L X ((any(Changes,002,003,088) and any(Change_a,001,088) and Smoke_a=055) and
 + F Smkin_a=055)
 L X ((any(Changes,002,003,088) and any(Change_a,001,088) and Smoke_a=088) and

+ F Smkin_a=088)

L X ((any(Changes,002,003,088) and any(Change_a,001,088) and Smoke_a=099) and
+ F Smkin_a=099)

* This Question is no longer being asked.

Q Hrwrk_a 1 330 F4.1
T Roster, Rost. ID a, Hours at work
V q6aj
Y -8.8 N/A

Q Wrkout_a 1 334 I3
T Roster, Rost. ID a, Work outside of home
Y 001 Y
V q6ak
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_a (F4.1) '', Change_a (F3.0) ''
L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_a=088)
L X ((any(Changes,002,003,088) and any(Change_a,001,088)) and
+ C any(Wrkout_a,001,002,055,099)) or (any(Fname_a,"YYYYYYYYYYYYYYYY") and
+ F Wrkout_a=088)

* This Question is no longer being asked.

Q Hr_sch_a 1 337 F4.1
T Roster, Rost. ID a, Hours at School
V q6al
Y -8.8 N/A

Q Schout_a 1 341 I3
T Roster, Rost. ID a, School outside of home
V q6am
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_a (F4.1) '', Change_a (F3.0) ''
L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
+ F Schout_a=088)
L X ((any(Changes,002,003,088) and any(Change_a,001,088)) and
+ C any(Schout_a,001,002,055,099)) or (any(Fname_a,"YYYYYYYYYYYYYYYY") and
+ F Schout_a=088)

* This Question is no longer being asked.

Q Hrply_a 1 344 F4.1
T Roster, Rost. ID a, Hours at other activities
V q6an
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_a 1 348 I3
T Roster, Rost. ID a, Work pesticides
V q6ao
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_a 1 351 I3
T Roster, Rost. ID a, Work solvents
V q6ap
Y 088 N/A

Q IRN_a 1 354 I2
T Roster, Rost. ID a, IRN Assignment

V q6aq
R (01,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_a (A15) '', Change_a (F3.0) ''
L X ((any(Changes,001,004) or Change_a=002 or not(any(contcode,34,40,-8))) and
+ F IRN_a=-8)
L X ((any(Changes,002,003) and any(Change_a,001,088)) and (any(IRN_a,-5,-8) or
+ F range(IRN_a,01,10)))
L X ((Changes=088 and Change_a=088) and ((IRN_a=-5 or
+ F range(IRN_a,01,10)) or (IRN_a=-8 and any(Fname_a,"YYYYYYYYYYYYYYYY"))))

Q Change_a 1 356 I3
T Roster, Rost. ID a, Status change

V q6ar
Y 001 Y
Y 002 N
Y 088 88

P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_a=088)
L X (any(Changes,002,003) and any(Change_a,001,002,088))

Q Fname_b 1 359 A15
T Roster, Rost. ID b, First Name

V q6bb
P Change_b (F3.0) '', contcode (F2.0) ''
L X ((Change_b=002 or not(any(contcode,34,40,-8))) and
+ F any(Fname_b,"YYYYYYYYYYYYYYYY"))
L X (any(Change_b,001,088))

Q Sex_b 1 374 I3
T Roster, Rost. ID b, Sex

V q6bc
Y 001 M
Y 002 F

Y 055 55

Y 088 88

P Changes (F3.0) '', contcode (F2.0) '', Fname_b (A15) '', Change_b (F3.0) ''

L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and
+ F Sex_b=088)

L X ((any(Changes,002,003) and any(Change_b,001,088)) and

+ F any(Sex_b,001,002,055,088))

L X ((Changes=088 and any(Change_b,001,088)) and (any(Sex_b,001,002,055) or

+ F (Sex_b=088 and any(Fname_b,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_b 1 377 I4

T Roster, Rost. ID b, Year of birth

V q6bd

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_b (A15) '', Change_b (F3.0) ''

L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and
+ F Yob_b=-888)

L X ((any(Changes,002,003) and any(Change_b,001,088)) and

+ F (any(Yob_b,-888,-555,-999) or range(Yob_b,1875,1996)))

L X ((Changes=088 and any(Change_b,001,088)) and ((any(Yob_b,-555,-999) or

+ F range(Yob_b,1875,1996)) or (Yob_b=-888 and any(Fname_b,"YYYYYYYYYYYYYYYYYY"))))

Q Ethnic_b 1 381 I3

T Roster, Rost. ID b, Race

V q6be

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_b (A15) '', Change_b (F3.0) ''

L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and
+ F Ethnic_b=088)

L X ((any(Changes,002,003) and any(Change_b,001,088)) and

+ F (any(Ethnic_b,088,055,099) or range(Ethnic_b,001,006)))

L X ((Changes=088 and any(Change_b,001,088)) and ((Ethnic_b=055 or

+ C range(Ethnic_b,001,006)) or (Ethnic_b=088 and

+ F any(Fname_b,"YYYYYYYYYYYYYYYYYY"))))

Q Ethoth_b 1 384 I2

Y 06 African American or White and Hispanic

Y 07 African American and White

Y 08 White and Native American

Y 09 Hispanic and Native American

Y 10 African American and Native American
 Y 11 Asian/Pacific Islander
 Y 12 Eskimo/Aleut
 Y 13 Native Australian/Native New Zealander
 Y 14 African American and Asian/Pacific Islander
 Y 15 African American and Eskimo/Aleut
 Y 16 White and Asian/Pacific Islander
 Y 17 White and Eskimo/Aleut
 Y 18 Hispanic and Asian/Pacific Islander
 Y 19 Hispanic and Eskimo/Aleut
 Y 20 Native American and Asian/Pacific Islander
 Y 21 Native American and Eskimo/Aleut
 Y 22 American ancestry unspecified
 Y -5 Refused
 Y -8 N/A
 Y -9 Missing
 P contcode (F2.0) '', Ethnic_b (F3.0) '', Change_b (F3.0) ''
 L X ((Ethnic_b=06 and any(Change_b,001,088) or not(any(contcode,34,40,-8))) and
 + F (Ethoth_b=-9 or range(Ethoth_b,06,22)))
 L X ((any(Ethnic_b,001,002,003,004,005,088) or Change_b=002) and Ethoth_b=-8)
 L X ((Ethnic_b=055 and any(Change_b,001,088)) and Ethoth_b=-5)

Q Hisp_b 1 386 I3
 T Roster, Rost. ID b, Hispanic
 V q6bf
 Y 001 Y
 Y 002 N
 Y 055 Refused
 Y 088 N/A
 Y 099 Missing
 P contcode (F2.0) '', Ethnic_b (F3.0) '', Change_b (F3.0) ''
 L X ((any(Ethnic_b,001,002,003,004,005,006,088) and any(Change_b,001,088)) and
 + F any(Hisp_b,001,002,088,099))
 L X ((Change_b=002 or not(any(contcode,34,40,-8))) and Hisp_b=088)
 L X ((Ethnic_b=055 and any(Change_b,001,088)) and Hisp_b=055)

Q Scomp_b 1 389 I3
 T Roster, Rost. ID b, School Completed
 V q6bg
 Y 001 No schooling completed or kindergarten only
 Y 002 Primary or middle school
 Y 003 Some high school
 Y 004 High school graduate
 Y 005 Some college or technical school
 Y 006 College graduate
 Y 007 Some post-college
 Y 055 Refused
 Y 088 N/A
 Y 099 Missing
 P Changes (F3.0) '', contcode (F2.0) '', Fname_b (A15) '', Change_b (F3.0) ''
 L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and

+ F Scomp_b=088)
L X ((any(Changes,002,003) and any(Change_b,001,088)) and
+ F (any(Scomp_b,088,055,099) or range(Scomp_b,001,007)))
L X ((Changes=088 and any(Change_b,001,088)) and ((any(Scomp_b,055,099) or
+ F range(Scomp_b,001,007)) or (Scomp_b=088 and
any(Fname_b,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_b 1 392 I3
T Roster, Rost. ID b, Smoke
V q6bh
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_b (A15) '', Change_b (F3.0) ''
L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and
+ F Smoke_b=088)
L X ((any(Changes,002,003) and any(Change_b,001,088)) and
+ F (any(Smoke_b,088,055,099) or any(Smoke_b,001,002)))
L X ((Changes=088 and any(Change_b,001,088)) and ((Smoke_b=055 or
+ F any(Smoke_b,001,002,099)) or (Smoke_b=088 and
any(Fname_b,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_b 1 395 I3
T Roster, Rost. ID b, Smoke Inside
V q6bi
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Smoke_b (F3.0) '', Change_b (F3.0) ''
L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and
+ F Smkin_b=088)
L X ((any(Changes,002,003,088) and any(Change_b,001,088) and Smoke_b=001) and
+ F any(Smkin_b,001,002,055,099))
L X ((any(Changes,002,003,088) and any(Change_b,001,088) and Smoke_b=002) and
+ F Smkin_b=088)
L X ((any(Changes,002,003,088) and any(Change_b,001,088) and Smoke_b=055) and
+ F Smkin_b=055)
L X ((any(Changes,002,003,088) and any(Change_b,001,088) and Smoke_b=088) and
+ F Smkin_b=088)
L X ((any(Changes,002,003,088) and any(Change_b,001,088) and Smoke_b=099) and
+ F Smkin_b=099)

* This Question is no longer being asked.

Q Hrwrk_b 1 398 F4.1
T Roster, Rost. ID b, Hours at work
V q6bj
Y -8.8 N/A

Q Wrkout_b 1 402 I3

T Roster, Rost. ID b, Work outside of home

V q6bk

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_b (F4.1) '', Change_b (F3.0) ''

L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and

+ F Wrkout_b=088)

L X ((any(Changes,002,003,088) and any(Change_b,001,088)) and

+ C any(Wrkout_b,001,002,055,099)) or (any(Fname_b,"YYYYYYYYYYYYYYYYYY") and

+ F Wrkout_b=088)

* This Question is no longer being asked.

Q Hr_sch_b 1 405 F4.1

T Roster, Rost. ID b, Hours at School

V q6bl

Y -8.8 N/A

Q Schout_b 1 409 I3

T Roster, Rost. ID b, School outside of home

V q6bm

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_b (F4.1) '', Change_b (F3.0) ''

L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and

+ F Schout_b=088)

L X ((any(Changes,002,003,088) and any(Change_b,001,088)) and

+ C any(Schout_b,001,002,055,099)) or (any(Fname_b,"YYYYYYYYYYYYYYYYYY") and

+ F Schout_b=088)

* This Question is no longer being asked.

Q Hrply_b 1 412 F4.1

T Roster, Rost. ID b, Hours at other activities

V q6bn

Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_b 1 416 I3

T Roster, Rost. ID b, Work pesticides

V q6bo

Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_b 1 419 I3

T Roster, Rost. ID b, Work solvents

V q6bp

Y 088 N/A

Q IRN_b 1 422 I2

T Roster, Rost. ID b, IRN Assignment

V q6bq

R (01,10)

Y -5 Refused

Y -8 N/A

Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_b (A15) '', Change_b (F3.0) ''

L X ((any(Changes,001,004) or Change_b=002 or not(any(contcode,34,40,-8))) and
+ F IRN_b=-8)

L X ((any(Changes,002,003) and any(Change_b,001,088)) and (any(IRN_b,-5,-8) or
+ F range(IRN_b,01,10)))

L X ((Changes=088 and Change_b=088) and ((IRN_b=-5 or

+ F range(IRN_b,01,10)) or (IRN_b=-8 and any(Fname_b,"YYYYYYYYYYYYYYYYYY"))))

Q Change_b 1 424 I3

T Roster, Rost. ID b, Status change

V q6br

Y 001 Y

Y 002 N

Y 088 88

P Changes (F3.0) '', contcode (F2.0) ''

L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_b=088)

L X (any(Changes,002,003) and any(Change_b,001,002,088))

Q Fname_c 1 427 A15

T Roster, Rost. ID c, First Name

V q6cb

P Change_c (F3.0) '', contcode (F2.0) ''

L X ((Change_c=002 or not(any(contcode,34,40,-8))) and

+ F any(Fname_c,"YYYYYYYYYYYYYYYY"))

L X (any(Change_c,001,088))

Q Sex_c 1 442 I3

T Roster, Rost. ID b, Sex

V q6cc

Y 001 M

Y 002 F

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_c (A15) '', Change_c (F3.0) ''

L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and

+ F Sex_c=088)

L X ((any(Changes,002,003) and any(Change_c,001,088)) and

+ F any(Sex_c,001,002,055,088))

L X ((Changes=088 and any(Change_c,001,088)) and (any(Sex_c,001,002,055) or

+ F (Sex_c=088 and any(Fname_c,"YYYYYYYYYYYYYYYY")))

Q Yob_c 1 445 I4

T Roster, Rost. ID c, Year of birth

V q6cd

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_c (A15) '', Change_c (F3.0) ''

L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and

+ F Yob_c=-888)

L X ((any(Changes,002,003) and any(Change_c,001,088)) and

+ F (any(Yob_c,-888,-555,-999) or range(Yob_c,1875,1996)))

L X ((Changes=088 and any(Change_c,001,088)) and ((any(Yob_c,-555,-999) or

+ F range(Yob_c,1875,1996)) or (Yob_c=-888 and any(Fname_c,"YYYYYYYYYYYYYYYY"))))

Q Ethnic_c 1 449 I3

T Roster, Rost. ID c, Race

V q6ce

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_c (A15) '', Change_c (F3.0) ''

L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and

+ F Ethnic_c=088)

L X ((any(Changes,002,003) and any(Change_c,001,088)) and

+ F (any(Ethnic_c,088,055,099) or range(Ethnic_c,001,006)))

L X ((Changes=088 and any(Change_c,001,088)) and ((Ethnic_c=055 or

+ C range(Ethnic_c,001,006)) or (Ethnic_c=088 and

+ F any(Fname_c,"YYYYYYYYYYYYYYYY"))))

Q Ethoth_c 1 452 I2

T Roster, Rost. ID c, Other Race

Y 06 African American or White and Hispanic

Y 07 African American and White

Y 08 White and Native American

Y 09 Hispanic and Native American

Y 10 African American and Native American

Y 11 Asian/Pacific Islander

Y 12 Eskimo/Aleut

Y 13 Native Australian/Native New Zealander

Y 14 African American and Asian/Pacific Islander

Y 15 African American and Eskimo/Aleut

Y 16 White and Asian/Pacific Islander

Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut
Y 20 Native American and Asian/Pacific Islander
Y 21 Native American and Eskimo/Aleut
Y 22 American ancestry unspecified
Y -5 Refused
Y -8 N/A
Y -9 Missing
P contcode (F2.0) '', Ethnic_c (F3.0) '', Change_c (F3.0) ''
L X ((Ethnic_c=06 and any(Change_c,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_c=-9 or range(Ethoth_c,06,22)))
L X ((any(Ethnic_c,001,002,003,004,005,088) or Change_c=002) and Ethoth_c=-8)
L X ((Ethnic_c=055 and any(Change_c,001,088)) and Ethoth_c=-5)

Q Hisp_c 1 454 I3
T Roster, Rost. ID c, Hispanic
V q6cf
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P contcode (F2.0) '', Changes (F3.0) '', Ethnic_c (F3.0) '', Change_c (F3.0) ''
L X ((any(Ethnic_c,001,002,003,004,005,006,088) and any(Change_c,001,088)) and
+ F any(Hisp_c,001,002,088,099))
L X ((Change_c=002 or not(any(contcode,34,40,-8))) and Hisp_c=088)
L X ((Ethnic_c=055 and any(Change_c,001,088)) and Hisp_c=055)

Q Scomp_c 1 457 I3
T Roster, Rost. ID c, School Completed
V q6cg
Y 001 No schooling completed or kindergarten only
Y 002 Primary or middle school
Y 003 Some high school
Y 004 High school graduate
Y 005 Some college or technical school
Y 006 College graduate
Y 007 Some post-college
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_c (A15) '', Change_c (F3.0) ''
L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and
+ F Scomp_c=088)
L X ((any(Changes,002,003) and any(Change_c,001,088)) and
+ F (any(Scomp_c,088,055,099) or range(Scomp_c,001,007)))
L X ((Changes=088 and any(Change_c,001,088)) and ((any(Scomp_c,055,099) or
+ F range(Scomp_c,001,007)) or (Scomp_c=088 and any(Fname_c,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_c 1 460 I3

T Roster, Rost. ID c, Smoke

V q6ch

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_c (A15) '', Change_c (F3.0) ''

L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and

+ F Smoke_c=088)

L X ((any(Changes,002,003) and any(Change_c,001,088)) and

+ F (any(Smoke_c,088,055,099) or any(Smoke_c,001,002)))

L X ((Changes=088 and any(Change_c,001,088)) and ((Smoke_c=055 or

+ F any(Smoke_c,001,002,099)) or (Smoke_c=088 and

any(Fname_c,"YYYYYYYYYYYYYYYYYY"'))))

Q Smkin_c 1 463 I3

T Roster, Rost. ID c, Smoke Inside

V q6ci

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Smoke_c (F3.0) '', Change_c (F3.0) ''

L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and

+ F Smkin_c=088)

L X ((any(Changes,002,003,088) and any(Change_c,001,088) and Smoke_c=001) and

+ F any(Smkin_c,001,002,055,099))

L X ((any(Changes,002,003,088) and any(Change_c,001,088) and Smoke_c=002) and

+ F Smkin_c=088)

L X ((any(Changes,002,003,088) and any(Change_c,001,088) and Smoke_c=055) and

+ F Smkin_c=055)

L X ((any(Changes,002,003,088) and any(Change_c,001,088) and Smoke_c=088) and

+ F Smkin_c=088)

L X ((any(Changes,002,003,088) and any(Change_c,001,088) and Smoke_c=099) and

+ F Smkin_c=099)

* This Question is no longer being asked.

Q Hrwrk_c 1 466 F4.1

T Roster, Rost. ID c, Hours at work

V q6cj

Y -8.8 N/A

Q Wrkout_c 1 470 I3

T Roster, Rost. ID c, Work outside of home

V q6ck

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_c (F4.1) '', Change_c (F3.0) ''
L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_c=088)
L X ((any(Changes,002,003,088) and any(Change_c,001,088)) and
+ C any(Wrkout_c,001,002,055,099)) or (any(Fname_c,"YYYYYYYYYYYYYYYY") and
+ F Wrkout_c=088)

* This Question is no longer being asked.

Q Hr_sch_c 1 473 F4.1
T Roster, Rost. ID c, Hours at School
V q6cl
Y -8.8 N/A

Q Schout_c 1 477 I3

T Roster, Rost. ID c, School outside of home

V q6cm
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_c (F4.1) '', Change_c (F3.0) ''
L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and
+ F Schout_c=088)
L X ((any(Changes,002,003,088) and any(Change_c,001,088)) and
+ C any(Schout_c,001,002,055,099)) or (any(Fname_c,"YYYYYYYYYYYYYYYY") and
+ F Schout_c=088)

* This Question is no longer being asked.

Q Hrply_c 1 480 F4.1
T Roster, Rost. ID c, Hours at other activities
V q6cn
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_c 1 484 I3
T Roster, Rost. ID c, Work pesticides
V q6co
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_c 1 487 I3
T Roster, Rost. ID c, Work solvents
V q6cp
Y 088 N/A

Q IRN_c 1 490 I2

T Roster, Rost. ID c, IRN Assignment

V q6cq
R (01,10)

Y -5 Refused

Y -8 N/A

Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_c (A15) '', Change_c (F3.0) ''

L X ((any(Changes,001,004) or Change_c=002 or not(any(contcode,34,40,-8))) and

+ F IRN_c=-8)

L X ((any(Changes,002,003) and any(Change_c,001,088)) and (any(IRN_c,-5,-8) or

+ F range(IRN_c,01,10)))

L X ((Changes=088 and Change_c=088) and ((IRN_c=-5 or

+ F range(IRN_c,01,10)) or (IRN_c=-8 and any(Fname_c,"YYYYYYYYYYYYYYYYYY"))))

Q Change_c 1 492 I3

T Roster, Rost. ID c, Status change

V q6cr

Y 001 Y

Y 002 N

Y 088 88

P Changes (F3.0) '', contcode (F2.0) ''

L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_c=088)

L X (any(Changes,002,003) and any(Change_c,001,002,088))

Q Fname_d 1 495 A15

T Roster, Rost. ID d, First Name

V q6db

P Change_d (F3.0) '', contcode (F2.0) ''

L X ((Change_d=002 or not(any(contcode,34,40,-8))) and

+ F any(Fname_d,"YYYYYYYYYYYYYYYYYY"))

L X (any(Change_d,001,088))

Q Sex_d 1 510 I3

T Roster, Rost. ID d, Sex

V q6dc

Y 001 M

Y 002 F

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_d (A15) '', Change_d (F3.0) ''

L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and

+ F Sex_d=088)

L X ((any(Changes,002,003) and any(Change_d,001,088)) and

+ F any(Sex_d,001,002,055,088))

L X ((Changes=088 and any(Change_d,001,088)) and (any(Sex_d,001,002,055) or

+ F (Sex_d=088 and any(Fname_d,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_d 1 513 I4

T Roster, Rost. ID d, Year of birth

V q6dd

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_d (A15) '', Change_d (F3.0) ''
 L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
 + F Yob_d=-888)
 L X ((any(Changes,002,003) and any(Change_d,001,088)) and
 + F (any(Yob_d,-888,-555,-999) or range(Yob_d,1875,1996)))
 L X ((Changes=088 and any(Change_d,001,088)) and ((any(Yob_d,-555,-999) or
 + F range(Yob_d,1875,1996)) or (Yob_d=-888 and any(Fname_d,"YYYYYYYYYYYYYYYYYY"))))

Q Ethnic_d 1 517 I3

T Roster, Rost. ID d, Race

V q6de

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_d (A15) '', Change_d (F3.0) ''
 L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
 + F Ethnic_d=088)
 L X ((any(Changes,002,003) and any(Change_d,001,088)) and
 + F (any(Ethnic_d,088,055,099) or range(Ethnic_d,001,006)))
 L X ((Changes=088 and any(Change_d,001,088)) and ((Ethnic_d=055 or
 + C range(Ethnic_d,001,006)) or (Ethnic_d=088 and
 + F any(Fname_d,"YYYYYYYYYYYYYYYYYY"))))

Q Ethoth_d 1 520 I2

T Roster, Rost. ID d, Other Race

Y 06 African American or White and Hispanic

Y 07 African American and White

Y 08 White and Native American

Y 09 Hispanic and Native American

Y 10 African American and Native American

Y 11 Asian/Pacific Islander

Y 12 Eskimo/Aleut

Y 13 Native Australian/Native New Zealander

Y 14 African American and Asian/Pacific Islander

Y 15 African American and Eskimo/Aleut

Y 16 White and Asian/Pacific Islander

Y 17 White and Eskimo/Aleut

Y 18 Hispanic and Asian/Pacific Islander

Y 19 Hispanic and Eskimo/Aleut

Y 20 Native American and Asian/Pacific Islander

Y 21 Native American and Eskimo/Aleut

Y 22 American ancestry unspecified

Y -5 Refused

Y -8 N/A

Y -9 Missing

P contcode (F2.0) '', Ethnic_d (F3.0) '', Change_d (F3.0) ''

L X ((Ethnic_d=06 and any(Change_d,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_d=-9 or range(Ethoth_d,06,22)))

L X ((any(Ethnic_d,001,002,003,004,005,088) or Change_d=002) and Ethoth_d=-8)

L X ((Ethnic_d=055 and any(Change_d,001,088)) and Ethoth_d=-5)

Q Hisp_d 1 522 I3

T Roster, Rost. ID d, Hispanic

V q6df

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P contcode (F2.0) '', Ethnic_d (F3.0) '', Change_d (F3.0) ''

L X ((any(Ethnic_d,001,002,003,004,005,006,088) and any(Change_d,001,088)) and
+ F any(Hisp_d,001,002,088,099))

L X ((Change_d=002 or not(any(contcode,34,40,-8))) and Hisp_d=088)

L X ((Ethnic_d=055 and any(Change_d,001,088)) and Hisp_d=055)

Q Scomp_d 1 525 I3

T Roster, Rost. ID d, School Completed

V q6dg

Y 001 No schooling completed or kindergarten only

Y 002 Primary or middle school

Y 003 Some high school

Y 004 High school graduate

Y 005 Some college or technical school

Y 006 College graduate

Y 007 Some post-college

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_d (A15) '', Change_d (F3.0) ''

L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
+ F Scomp_d=088)

L X ((any(Changes,002,003) and any(Change_d,001,088)) and

+ F (any(Scomp_d,088,055,099) or range(Scomp_d,001,007)))

L X ((Changes=088 and any(Change_d,001,088)) and ((any(Scomp_d,055,099) or

+ F range(Scomp_d,001,007)) or (Scomp_d=088 and

any(Fname_d,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_d 1 528 I3

T Roster, Rost. ID d, Smoke

V q6dh

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_d (A15) '', Change_d (F3.0) ''
L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
+ F Smoke_d=088)
L X ((any(Changes,002,003) and any(Change_d,001,088)) and
+ F (any(Smoke_d,088,055,099) or any(Smoke_d,001,002)))
L X ((Changes=088 and any(Change_d,001,088)) and ((Smoke_d=055 or
+ F any(Smoke_d,001,002,099)) or (Smoke_d=088 and
any(Fname_d,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_d 1 531 I3
T Roster, Rost. ID d, Smoke Inside

V q6di

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Smoke_d (F3.0) '', Change_d (F3.0) ''
L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
+ F Smkin_d=088)
L X ((any(Changes,002,003,088) and any(Change_d,001,088) and Smoke_d=001) and
+ F any(Smkin_d,001,002,055,099))
L X ((any(Changes,002,003,088) and any(Change_d,001,088) and Smoke_d=002) and
+ F Smkin_d=088)
L X ((any(Changes,002,003,088) and any(Change_d,001,088) and Smoke_d=055) and
+ F Smkin_d=055)
L X ((any(Changes,002,003,088) and any(Change_d,001,088) and Smoke_d=088) and
+ F Smkin_d=088)
L X ((any(Changes,002,003,088) and any(Change_d,001,088) and Smoke_d=099) and
+ F Smkin_d=099)

* This Question is no longer being asked.

Q Hrwrk_d 1 534 F4.1
T Roster, Rost. ID d, Hours at work
V q6dj
Y -8.8 N/A

Q Wrkout_d 1 538 I3
T Roster, Rost. ID d, Work outside of home

V q6dk

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_d (F4.1) '', Change_d (F3.0) ''
L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_d=088)
L X ((any(Changes,002,003,088) and any(Change_d,001,088)) and
+ C any(Wrkout_d,001,002,055,099)) or (any(Fname_d,"YYYYYYYYYYYYYYYYYY") and
+ F Wrkout_d=088)

* This Question is no longer being asked.

Q Hr_sch_d 1 541 F4.1
T Roster, Rost. ID d, Hours at School
V q6dl
Y -8.8 N/A

Q Schout_d 1 545 I3
T Roster, Rost. ID d, School outside of home

V q6dm
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_d (F4.1) '', Change_d (F3.0) ''
L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
+ F Schout_d=088)
L X ((any(Changes,002,003,088) and any(Change_d,001,088)) and
+ C any(Schout_d,001,002,055,099)) or (any(Fname_d,"YYYYYYYYYYYYYYYY") and
+ F Schout_d=088)

* This Question is no longer being asked.

Q Hrply_d 1 548 F4.1
T Roster, Rost. ID d, Hours at other activities
V q6dn
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_d 1 552 I3
T Roster, Rost. ID d, Work pesticides
V q6do
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_d 1 555 I3
T Roster, Rost. ID d, Work solvents
V q6dp
Y 088 N/A

Q IRN_d 1 558 I2
T Roster, Rost. ID d, IRN Assignment

V q6dq
R (1,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_d (A15) '', Change_d (F3.0) ''
L X ((any(Changes,001,004) or Change_d=002 or not(any(contcode,34,40,-8))) and
+ F IRN_d=-8)
L X ((any(Changes,002,003) and any(Change_d,001,088)) and (any(IRN_d,-5,-8) or

+ F range(IRN_d,01,10)))
L X ((Changes=088 and Change_d=088) and ((IRN_d=-5 or
+ F range(IRN_d,01,10)) or (IRN_d=-8 and any(Fname_d,"YYYYYYYYYYYYYYYYYY"))))

Q Change_d 1 560 I3
T Roster, Rost. ID d, Status change
V q6dr
Y 001 Y
Y 002 N
Y 088 88
P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_d=088)
L X (any(Changes,002,003) and any(Change_d,001,002,088))

Q Fname_e 1 563 A15
T Roster, Rost. ID e, First Name
V q6eb
P Change_e (F3.0) ''
L X ((Change_e=002 or not(any(contcode,34,40,-8))) and
+ F any(Fname_e,"YYYYYYYYYYYYYYYYYY"))
L X (any(Change_e,001,088))

Q Sex_e 1 578 I3
T Roster, Rost. ID e, Sex
V q6ec
Y 001 M
Y 002 F
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_e (A15) '', Change_e (F3.0) ''
L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and
+ F Sex_e=088)
L X ((any(Changes,002,003) and any(Change_e,001,088)) and
+ F any(Sex_e,001,002,055,088))
L X ((Changes=088 and any(Change_e,001,088)) and (any(Sex_e,001,002,055) or
+ F (Sex_e=088 and any(Fname_e,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_e 1 581 I4
T Roster, Rost. ID e, Year of birth
V q6ed
R (1875,1996)
Y -555 Refused
Y -888 N/A
Y -999 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_e (A15) '', Change_e (F3.0) ''
L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and
+ F Yob_e=-888)
L X ((any(Changes,002,003) and any(Change_e,001,088)) and
+ F (any(Yob_e,-888,-555,-999) or range(Yob_e,1875,1996)))
L X ((Changes=088 and any(Change_e,001,088)) and ((any(Yob_e,-555,-999) or

+ F range(Yob_e,1875,1996)) or (Yob_e=-888 and any(Fname_e,"YYYYYYYYYYYYYYYYYY"'))))

Q Ethnic_e 1 585 I3

T Roster, Rost. ID e, Race

V q6ee

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_e (A15) '', Change_e (F3.0) ''

L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and

+ F Ethnic_e=088)

L X ((any(Changes,002,003) and any(Change_e,001,088)) and

+ F (any(Ethnic_e,088,055,099) or range(Ethnic_e,001,006)))

L X ((Changes=088 and any(Change_e,001,088)) and ((Ethnic_e=055 or

+ C range(Ethnic_e,001,006)) or (Ethnic_e=088 and

+ F any(Fname_e,"YYYYYYYYYYYYYYYYYY"'))))

Q Ethoth_e 1 588 I2

T Roster, Rost. ID e, Other Race

Y 06 African American or White and Hispanic

Y 07 African American and White

Y 08 White and Native American

Y 09 Hispanic and Native American

Y 10 African American and Native American

Y 11 Asian/Pacific Islander

Y 12 Eskimo/Aleut

Y 13 Native Australian/Native New Zealander

Y 14 African American and Asian/Pacific Islander

Y 15 African American and Eskimo/Aleut

Y 16 White and Asian/Pacific Islander

Y 17 White and Eskimo/Aleut

Y 18 Hispanic and Asian/Pacific Islander

Y 19 Hispanic and Eskimo/Aleut

Y 20 Native American and Asian/Pacific Islander

Y 21 Native American and Eskimo/Aleut

Y 22 American ancestry unspecified

Y -5 Refused

Y -8 N/A

Y -9 Missing

P contcode (F2.0) '', Ethnic_e (F3.0) '', Change_e (F3.0) ''

L X ((Ethnic_e=06 and any(Change_e,001,088) or not(any(contcode,34,40,-8))) and

+ F (Ethoth_e=-9 or range(Ethoth_e,06,22)))

L X ((any(Ethnic_e,001,002,003,004,005,088) or Change_e=002) and Ethoth_e=-8)

L X ((Ethnic_e=055 and any(Change_e,001,088)) and Ethoth_e=-5)

Q Hisp_e 1 590 I3
T Roster, Rost. ID e, Hispanic

V q6ef

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P contcode (F2.0) '', Ethnic_e (F3.0) '', Change_e (F3.0) ''

L X ((any(Ethnic_e,001,002,003,004,005,006,088) and any(Change_e,001,088)) and

+ F any(Hisp_e,001,002,088,099))

L X ((Change_e=002 or not(any(contcode,34,40,-8))) and Hisp_e=088)

L X ((Ethnic_e=055 and any(Change_e,001,088)) and Hisp_e=055)

Q Scomp_e 1 593 I3

T Roster, Rost. ID e, School Completed

V q6eg

Y 001 No schooling completed or kindergarten only

Y 002 Primary or middle school

Y 003 Some high school

Y 004 High school graduate

Y 005 Some college or technical school

Y 006 College graduate

Y 007 Some post-college

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_e (A15) '', Change_e (F3.0) ''

L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and

+ F Scomp_e=088)

L X ((any(Changes,002,003) and any(Change_e,001,088)) and

+ F (any(Scomp_e,088,055,099) or range(Scomp_e,001,007)))

L X ((Changes=088 and any(Change_e,001,088)) and ((any(Scomp_e,055,099) or

+ F range(Scomp_e,001,007)) or (Scomp_e=088 and any(Fname_e,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_e 1 596 I3

T Roster, Rost. ID e, Smoke

V q6eh

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_e (A15) '', Change_e (F3.0) ''

L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and

+ F Smoke_e=088)

L X ((any(Changes,002,003) and any(Change_e,001,088)) and

+ F (any(Smoke_e,088,055,099) or any(Smoke_e,001,002)))

L X ((Changes=088 and any(Change_e,001,088)) and ((Smoke_e=055 or

+ F any(Smoke_e,001,002,099)) or (Smoke_e=088 and

any(Fname_e,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_e 1 599 I3
T Roster, Rost. ID e, Smoke Inside
V q6ei
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Smoke_e (F3.0) '', Change_e (F3.0) ''
L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and
+ F Smkin_e=088)
L X ((any(Changes,002,003,088) and any(Change_e,001,088) and Smoke_e=001) and
+ F any(Smkin_e,001,002,055,099))
L X ((any(Changes,002,003,088) and any(Change_e,001,088) and Smoke_e=002) and
+ F Smkin_e=088)
L X ((any(Changes,002,003,088) and any(Change_e,001,088) and Smoke_e=055) and
+ F Smkin_e=055)
L X ((any(Changes,002,003,088) and any(Change_e,001,088) and Smoke_e=088) and
+ F Smkin_e=088)
L X ((any(Changes,002,003,088) and any(Change_e,001,088) and Smoke_e=099) and
+ F Smkin_e=099)

* This Question is no longer being asked.

Q Hrwrk_e 1 602 F4.1
T Roster, Rost. ID e, Hours at work
V q6ej
Y -8.8 N/A

Q Wrkout_e 1 606 I3
T Roster, Rost. ID e, Work outside of home
V q6ek
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_e (F4.1) '', Change_e (F3.0) ''
L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_e=088)
L X ((any(Changes,002,003,088) and any(Change_e,001,088)) and
+ C any(Wrkout_e,001,002,055,099)) or (any(Fname_e,"YYYYYYYYYYYYYYYY") and
+ F Wrkout_e=088)

* This Question is no longer being asked.

Q Hr_sch_e 1 609 F4.1
T Roster, Rost. ID e, Hours at School
V q6el
Y -8.8 N/A

Q Schout_e 1 613 I3

T Roster, Rost. ID d, School outside of home
V q6em
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_e (F4.1) '', Change_e (F3.0) ''
L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and
+ F Schout_e=088)
L X ((any(Changes,002,003,088) and any(Change_e,001,088)) and
+ C any(Schout_e,001,002,055,099)) or (any(Fname_e,"YYYYYYYYYYYYYYYYYY") and
+ F Schout_e=088)

* This Question is no longer being asked.

Q Hrply_e 1 616 F4.1
T Roster, Rost. ID e, Hours at other activities
V q6en
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_e 1 620 I3
T Roster, Rost. ID e, Work pesticides
V q6eo
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_e 1 623 I3
T Roster, Rost. ID e, Work solvents
V q6ep
Y 088 N/A

Q IRN_e 1 626 I2
T Roster, Rost. ID e, IRN Assignment

V q6eq
R (01,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_e (A15) '', Change_e (F3.0) ''
L X ((any(Changes,001,004) or Change_e=002 or not(any(contcode,34,40,-8))) and
+ F IRN_e=-8)
L X ((any(Changes,002,003) and any(Change_e,001,088)) and (any(IRN_e,-5,-8) or
+ F range(IRN_e,01,10)))
L X ((Changes=088 and Change_e=088) and ((IRN_e=-5 or
+ F range(IRN_e,01,10)) or (IRN_e=-8 and any(Fname_e,"YYYYYYYYYYYYYYYYYY"))))

Y 002 N

Y 088 88

P Changes (F3.0) '', contcode (F2.0) ''

L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_e=088)

L X (any(Changes,002,003) and any(Change_e,001,002,088))

Q Fname_f 1 631 A15

T Roster, Rost. ID f, First Name

V q6fb

P Change_f (F3.0) '', contcode (F2.0) ''

L X ((Change_f=002 or not(any(contcode,34,40,-8))) and

+ F any(Fname_f,"YYYYYYYYYYYYYYYYYY"))

L X (any(Change_f,001,088))

Q Sex_f 1 646 I3

T Roster, Rost. ID f, Sex

V q6fc

Y 001 M

Y 002 F

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_f (A15) '', Change_f (F3.0) ''

L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and

+ F Sex_f=088)

L X ((any(Changes,002,003) and any(Change_f,001,088)) and

+ F any(Sex_f,001,002,055,088))

L X ((Changes=088 and any(Change_f,001,088)) and (any(Sex_f,001,002,055) or

+ F (Sex_f=088 and any(Fname_f,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_f 1 649 I4

T Roster, Rost. ID f, Year of birth

V q6fd

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_f (A15) '', Change_f (F3.0) ''

L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and

+ F Yob_f=-888)

L X ((any(Changes,002,003) and any(Change_f,001,088)) and

+ F (any(Yob_f,-888,-555,-999) or range(Yob_f,1875,1996)))

L X ((Changes=088 and any(Change_f,001,088)) and ((any(Yob_f,-555,-999) or

+ F range(Yob_f,1875,1996)) or (Yob_f=-888 and any(Fname_f,"YYYYYYYYYYYYYYYYYY"))))

Q Ethnic_f 1 653 I3

T Roster, Rost. ID f, Race

V q6fe

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut
Y 005 Asian or Pacific Islander
Y 006 Some other race
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_f (A15) '', Change_f (F3.0) ''
L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
+ F Ethnic_f=088)
L X ((any(Changes,002,003) and any(Change_f,001,088)) and
+ F (any(Ethnic_f,088,055,099) or range(Ethnic_f,001,006)))
L X ((Changes=088 and any(Change_f,001,088)) and ((Ethnic_f=055 or
+ C range(Ethnic_f,001,006)) or (Ethnic_f=088 and
+ F any(Fname_f,"YYYYYYYYYYYYYYYYYY"))))

Q Ethoth_f 1 656 I2
T Roster, Rost. ID f, Other Race
Y 06 African American or White and Hispanic
Y 07 African American and White
Y 08 White and Native American
Y 09 Hispanic and Native American
Y 10 African American and Native American
Y 11 Asian/Pacific Islander
Y 12 Eskimo/Aleut
Y 13 Native Australian/Native New Zealander
Y 14 African American and Asian/Pacific Islander
Y 15 African American and Eskimo/Aleut
Y 16 White and Asian/Pacific Islander
Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut
Y 20 Native American and Asian/Pacific Islander
Y 21 Native American and Eskimo/Aleut
Y 22 American ancestry unspecified
Y -5 Refused
Y -8 N/A
Y -9 Missing
P contcode (F2.0) '', Ethnic_f (F3.0) '', Change_f (F3.0) ''
L X ((Ethnic_f=06 and any(Change_f,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_f=-9 or range(Ethoth_f,06,22)))
L X ((any(Ethnic_f,001,002,003,004,005,088) or Change_f=002) and Ethoth_f=-8)
L X ((Ethnic_f=055 and any(Change_f,001,088)) and Ethoth_f=-5)

Q Hisp_f 1 658 I3
T Roster, Rost. ID f, Hispanic
V q6ff
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P contcode (F2.0) '', Ethnic_f (F3.0) '', Change_f (F3.0) ''
L X ((any(Ethnic_f,001,002,003,004,005,006,088) and any(Change_f,001,088)) and
+ F any(Hisp_f,001,002,088,099))
L X ((Change_f=002 or not(any(contcode,34,40,-8))) and Hisp_f=088)
L X ((Ethnic_f=055 and any(Change_f,001,088)) and Hisp_f=055)

Q Scomp_f 1 661 I3
T Roster, Rost. ID f, School Completed
V q6fg
Y 001 No schooling completed or kindergarten only
Y 002 Primary or middle school
Y 003 Some high school
Y 004 High school graduate
Y 005 Some college or technical school
Y 006 College graduate
Y 007 Some post-college
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_f (A15) '', Change_f (F3.0) ''
L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
+ F Scomp_f=088)
L X ((any(Changes,002,003) and any(Change_f,001,088)) and
+ F (any(Scomp_f,088,055,099) or range(Scomp_f,001,007)))
L X ((Changes=088 and any(Change_f,001,088)) and ((any(Scomp_f,055,099) or
+ F range(Scomp_f,001,007)) or (Scomp_f=088 and any(Fname_f,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_f 1 664 I3
T Roster, Rost. ID f, Smoke
V q6fh
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_f (A15) '', Change_f (F3.0) ''
L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
+ F Smoke_f=088)
L X ((any(Changes,002,003) and any(Change_f,001,088)) and
+ F (any(Smoke_f,088,055,099) or any(Smoke_f,001,002)))
L X ((Changes=088 and any(Change_f,001,088)) and ((Smoke_f=055 or
+ F any(Smoke_f,001,002,099)) or (Smoke_f=088 and
any(Fname_f,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_f 1 667 I3
T Roster, Rost. ID f, Smoke Inside
V q6fi
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Smoke_f (F3.0) '', Change_f (F3.0) ''
 L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
 + F Smkin_f=088)
 L X ((any(Changes,002,003,088) and any(Change_f,001,088) and Smoke_f=001) and
 + F any(Smkin_f,001,002,055,099))
 L X ((any(Changes,002,003,088) and any(Change_f,001,088) and Smoke_f=002) and
 + F Smkin_f=088)
 L X ((any(Changes,002,003,088) and any(Change_f,001,088) and Smoke_f=055) and
 + F Smkin_f=055)
 L X ((any(Changes,002,003,088) and any(Change_f,001,088) and Smoke_f=088) and
 + F Smkin_f=088)
 L X ((any(Changes,002,003,088) and any(Change_f,001,088) and Smoke_f=099) and
 + F Smkin_f=099)

* This Question is no longer being asked.

Q Hrwrk_f 1 670 F4.1
 T Roster, Rost. ID f, Hours at work
 V q6fj
 Y -8.8 N/A

Q Wrkout_f 1 674 I3

T Roster, Rost. ID f, Work outside of home

V q6fk

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_f (F4.1) '', Change_f (F3.0) ''
 L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
 + F Wrkout_f=088)
 L X ((any(Changes,002,003,088) and any(Change_f,001,088)) and
 + C any(Wrkout_f,001,002,055,099)) or (any(Fname_f,"YYYYYYYYYYYYYYYY") and
 + F Wrkout_f=088)

* This Question is no longer being asked.

Q Hr_sch_f 1 677 F4.1
 T Roster, Rost. ID f, Hours at School
 V q6fl
 Y -8.8 N/A

Q Schout_f 1 681 I3

T Roster, Rost. ID f, School outside of home

V q6fm

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_f (F4.1) '', Change_f (F3.0) ''

L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
+ F Schout_f=088)
L X ((any(Changes,002,003,088) and any(Change_f,001,088)) and
+ C any(Schout_f,001,002,055,099)) or (any(Fname_f,"YYYYYYYYYYYYYYYYYY") and
+ F Schout_f=088)

* This Question is no longer being asked.

Q Hrply_f 1 684 F4.1
T Roster, Rost. ID f, Hours at other activities
V q6fn
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_f 1 688 I3
T Roster, Rost. ID f, Work pesticides
V q6fo
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_f 1 691 I3
T Roster, Rost. ID f, Work solvents
V q6fp
Y 088 N/A

Q IRN_f 1 694 I2

T Roster, Rost. ID f, IRN Assignment

V q6fq
R (01,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_f (A15) '', Change_f (F3.0) ''
L X ((any(Changes,001,004) or Change_f=002 or not(any(contcode,34,40,-8))) and
+ F IRN_f=-8)
L X ((any(Changes,002,003) and any(Change_f,001,088)) and (any(IRN_f,-5,-8) or
+ F range(IRN_f,01,10)))
L X ((Changes=088 and Change_f=088) and ((IRN_f=-5 or
+ F range(IRN_f,01,10)) or (IRN_f=-8 and any(Fname_f,"YYYYYYYYYYYYYYYYYY"))))

Q Change_f 1 696 I3
T Roster, Rost. ID f, Status change

V q6fr
Y 001 Y
Y 002 N
Y 088 88

P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_f=088)
L X (any(Changes,002,003) and any(Change_f,001,002,088))

Q Fname_g 1 699 A15
T Roster, Rost. ID g, First Name

V q6gb

P Change_g (F3.0) '', contcode (F2.0) ''

L X (Change_g=002 and any(Fname_g,"YYYYYYYYYYYYYYYYYY"))

L X (any(Change_g,001,088))

Q Sex_g 1 714 I3

T Roster, Rost. ID g, Sex

V q6gc

Y 001 M

Y 002 F

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_g (A15) '', Change_g (F3.0) ''

L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and

+ F Sex_g=088)

L X ((any(Changes,002,003) and any(Change_g,001,088)) and

+ F any(Sex_g,001,002,055,088))

L X ((Changes=088 and any(Change_g,001,088)) and (any(Sex_g,001,002,055) or

+ F (Sex_g=088 and any(Fname_g,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_g 1 717 I4

T Roster, Rost. ID g, Year of birth

V q6gd

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_g (A15) '', Change_g (F3.0) ''

L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and

+ F Yob_g=-888)

L X ((any(Changes,002,003) and any(Change_g,001,088)) and

+ F (any(Yob_g,-888,-555,-999) or range(Yob_g,1875,1996)))

L X ((Changes=088 and any(Change_g,001,088)) and ((any(Yob_g,-555,-999) or

+ F range(Yob_g,1875,1996)) or (Yob_g=-888 and any(Fname_g,"YYYYYYYYYYYYYYYYYY"))))

Q Ethnic_g 1 721 I3

T Roster, Rost. ID g, Race

V q6ge

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_g (A15) '', Change_g (F3.0) ''

L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and

+ F Ethnic_g=088)

L X ((any(Changes,002,003) and any(Change_g,001,088)) and
+ F (any(Ethnic_g,088,055,099) or range(Ethnic_g,001,006)))
L X ((Changes=088 and any(Change_g,001,088)) and ((Ethnic_g=055 or
+ C range(Ethnic_g,001,006)) or (Ethnic_g=088 and
+ F any(Fname_g,"YYYYYYYYYYYYYYYYYY"))))

Q Ethoth_g 1 724 I2
T Roster, Rost. ID g, Other Race
Y 06 African American or White and Hispanic
Y 07 African American and White
Y 08 White and Native American
Y 09 Hispanic and Native American
Y 10 African American and Native American
Y 11 Asian/Pacific Islander
Y 12 Eskimo/Aleut
Y 13 Native Australian/Native New Zealander
Y 14 African American and Asian/Pacific Islander
Y 15 African American and Eskimo/Aleut
Y 16 White and Asian/Pacific Islander
Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut
Y 20 Native American and Asian/Pacific Islander
Y 21 Native American and Eskimo/Aleut
Y 22 American ancestry unspecified
Y -5 Refused
Y -8 N/A
Y -9 Missing
P contcode (F2.0) '', Ethnic_g (F3.0) '', Change_g (F3.0) ''
L X ((Ethnic_g=06 and any(Change_g,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_g=-9 or range(Ethoth_g,06,22)))
L X ((any(Ethnic_g,001,002,003,004,005,088) or Change_g=002) and Ethoth_g=-8)
L X ((Ethnic_g=055 and any(Change_g,001,088)) and Ethoth_g=-5)

Q Hisp_g 1 726 I3
T Roster, Rost. ID g, Hispanic
V q6gf
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P contcode (F2.0) '', Ethnic_g (F3.0) '', Change_g (F3.0) ''
L X ((any(Ethnic_g,001,002,003,004,005,006,088) and any(Change_g,001,088)) and
+ F any(Hisp_g,001,002,088,099))
L X ((Change_g=002 or not(any(contcode,34,40,-8))) and Hisp_g=088)
L X ((Ethnic_g=055 and any(Change_g,001,088)) and Hisp_g=055)

Q Scomp_g 1 729 I3
T Roster, Rost. ID g, School Completed
V q6gg

Y 001 No schooling completed or kindergarten only
Y 002 Primary or middle school
Y 003 Some high school
Y 004 High school graduate
Y 005 Some college or technical school
Y 006 College graduate
Y 007 Some post-college
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_g (A15) '', Change_g (F3.0) ''
L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and
+ F Scomp_g=088)
L X ((any(Changes,002,003) and any(Change_g,001,088)) and
+ F (any(Scomp_g,088,055,099) or range(Scomp_g,001,007)))
L X ((Changes=088 and any(Change_g,001,088)) and ((any(Scomp_g,055,099) or
+ F range(Scomp_g,001,007)) or (Scomp_g=088 and
any(Fname_g,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_g 1 732 I3
T Roster, Rost. ID g, Smoke
V q6gh
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_g (A15) '', Change_g (F3.0) ''
L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and
+ F Smoke_g=088)
L X ((any(Changes,002,003) and any(Change_g,001,088)) and
+ F (any(Smoke_g,088,055,099) or any(Smoke_g,001,002)))
L X ((Changes=088 and any(Change_g,001,088)) and ((Smoke_g=055 or
+ F any(Smoke_g,001,002,099)) or (Smoke_g=088 and
any(Fname_g,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_g 1 735 I3
T Roster, Rost. ID g, Smoke Inside
V q6gi
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Smoke_g (F3.0) '', Change_g (F3.0) ''
L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and
+ F Smkin_g=088)
L X ((any(Changes,002,003,088) and any(Change_g,001,088) and Smoke_g=001) and
+ F any(Smkin_g,001,002,055,099))
L X ((any(Changes,002,003,088) and any(Change_g,001,088) and Smoke_g=002) and
+ F Smkin_g=088)

L X ((any(Changes,002,003,088) and any(Change_g,001,088) and Smoke_g=055) and
+ F Smkin_g=055)
L X ((any(Changes,002,003,088) and any(Change_g,001,088) and Smoke_g=088) and
+ F Smkin_g=088)
L X ((any(Changes,002,003,088) and any(Change_g,001,088) and Smoke_g=099) and
+ F Smkin_g=099)

* This Question is no longer being asked.

Q Hrwrk_g 1 738 F4.1
T Roster, Rost. ID g, Hours at work
V q6gj
Y -8.8 N/A

Q Wrkout_g 1 742 I3
T Roster, Rost. ID g, Work outside of home
V q6gk
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_g (F4.1) '', Change_g (F3.0) ''
L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_g=088)
L X ((any(Changes,002,003,088) and any(Change_g,001,088)) and
+ C any(Wrkout_g,001,002,055,099)) or (any(Fname_g,"YYYYYYYYYYYYYYYY") and
+ F Wrkout_g=088)

* This Question is no longer being asked.

Q Hr_sch_g 1 745 F4.1
T Roster, Rost. ID g, Hours at School
V q6gl
Y -8.8 N/A

Q Schout_g 1 749 I3
T Roster, Rost. ID g, School outside of home
V q6gm
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_g (F4.1) '', Change_g (F3.0) ''
L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and
+ F Schout_g=088)
L X ((any(Changes,002,003,088) and any(Change_g,001,088)) and
+ C any(Schout_g,001,002,055,099)) or (any(Fname_g,"YYYYYYYYYYYYYYYY") and
+ F Schout_g=088)

* This Question is no longer being asked.

Q Hrply_g 1 752 F4.1

T Roster, Rost. ID g, Hours at other activities
V q6gn
Y -8.8 N/A

* This Question is no longer being asked.
Q Wpest_g 1 756 I3
T Roster, Rost. ID g, Work pesticides
V q6go
Y 088 N/A

* This Question is no longer being asked.
Q Wsolv_g 1 759 I3
T Roster, Rost. ID g, Work solvents
V q6gp
Y 088 N/A

Q IRN_g 1 762 I2
T Roster, Rost. ID g, IRN Assignment
V q6gq
R (01,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_g (A15) '', Change_g (F3.0) ''
L X ((any(Changes,001,004) or Change_g=002 or not(any(contcode,34,40,-8))) and
+ F IRN_g=-8)
L X ((any(Changes,002,003) and any(Change_g,001,088)) and (any(IRN_g,-5,-8) or
+ F range(IRN_g,01,10)))
L X ((Changes=088 and Change_g=088) and ((IRN_g=-5 or
+ F range(IRN_g,01,10)) or (IRN_g=-8 and any(Fname_g,"YYYYYYYYYYYYYYYYYY"))))

Q Change_g 1 764 I3
T Roster, Rost. ID g, Status change
V q6gr
Y 001 Y
Y 002 N
Y 088 88
P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_g=088)
L X (any(Changes,002,003) and any(Change_g,001,002,088))

Q Fname_h 1 767 A15
T Roster, Rost. ID h, First Name
V q6hb
P Change_h (F3.0) '', contcode (F2.0) ''
L X ((Change_h=002 or not(any(contcode,34,40,-8))) and
+ F any(Fname_h,"YYYYYYYYYYYYYYYYYY"))
L X (any(Change_h,001,088))

Q Sex_h 1 782 I3
T Roster, Rost. ID h, Sex

V q6hc

Y 001 M

Y 002 F

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_h (A15) '', Change_h (F3.0) ''

L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and

+ F Sex_h=088)

L X ((any(Changes,002,003) and any(Change_h,001,088)) and

+ F any(Sex_h,001,002,055,088))

L X ((Changes=088 and any(Change_h,001,088)) and (any(Sex_h,001,002,055) or

+ F (Sex_h=088 and any(Fname_h,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_h 1 785 I4

T Roster, Rost. ID h, Year of birth

V q6hd

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_h (A15) '', Change_h (F3.0) ''

L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and

+ F Yob_h=-888)

L X ((any(Changes,002,003) and any(Change_h,001,088)) and

+ F (any(Yob_h,-888,-555,-999) or range(Yob_h,1875,1996)))

L X ((Changes=088 and any(Change_h,001,088)) and ((any(Yob_h,-555,-999) or

+ F range(Yob_h,1875,1996)) or (Yob_h=-888 and any(Fname_h,"YYYYYYYYYYYYYYYYYY"))))

Q Ethnic_h 1 789 I3

T Roster, Rost. ID h, Race

V q6he

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_h (A15) '', Change_h (F3.0) ''

L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and

+ F Ethnic_h=088)

L X ((any(Changes,002,003) and any(Change_h,001,088)) and

+ F (any(Ethnic_h,088,055,099) or range(Ethnic_h,001,006)))

L X ((Changes=088 and any(Change_h,001,088)) and ((Ethnic_h=055 or

+ C range(Ethnic_h,001,006)) or (Ethnic_h=088 and

+ F any(Fname_h,"YYYYYYYYYYYYYYYYYY"))))

Q Ethoth_h 1 792 I2

T Roster, Rost. ID h, Other Race
Y 06 African American or White and Hispanic
Y 07 African American and White
Y 08 White and Native American
Y 09 Hispanic and Native American
Y 10 African American and Native American
Y 11 Asian/Pacific Islander
Y 12 Eskimo/Aleut
Y 13 Native Australian/Native New Zealander
Y 14 African American and Asian/Pacific Islander
Y 15 African American and Eskimo/Aleut
Y 16 White and Asian/Pacific Islander
Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut
Y 20 Native American and Asian/Pacific Islander
Y 21 Native American and Eskimo/Aleut
Y 22 American ancestry unspecified
Y -5 Refused
Y -8 N/A
Y -9 Missing
P contcode (F2.0) '', Ethnic_h (F3.0) '', Change_h (F3.0) ''
L X ((Ethnic_h=06 and any(Change_h,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_h=-9 or range(Ethoth_h,06,22)))
L X ((any(Ethnic_h,001,002,003,004,005,088) or Change_h=002) and Ethoth_h=-8)
L X ((Ethnic_h=055 and any(Change_h,001,088)) and Ethoth_h=-5)

Q Hisp_h 1 794 I3
T Roster, Rost. ID h, Hispanic
V q6hf
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P contcode (F2.0) '', Ethnic_h (F3.0) '', Change_h (F3.0) ''
L X ((any(Ethnic_h,001,002,003,004,005,006,088) and any(Change_h,001,088)) and
+ F any(Hisp_h,001,002,088,099))
L X ((Change_h=002 or not(any(contcode,34,40,-8))) and Hisp_h=088)
L X ((Ethnic_h=055 and any(Change_h,001,088)) and Hisp_h=055)

Q Scomp_h 1 797 I3
T Roster, Rost. ID h, School Completed
V q6hg
Y 001 No schooling completed or kindergarten only
Y 002 Primary or middle school
Y 003 Some high school
Y 004 High school graduate
Y 005 Some college or technical school
Y 006 College graduate
Y 007 Some post-college

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_h (A15) '', Change_h (F3.0) ''

L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and
+ F Scomp_h=088)

L X ((any(Changes,002,003) and any(Change_h,001,088)) and

+ F (any(Scomp_h,088,055,099) or range(Scomp_h,001,007)))

L X ((Changes=088 and any(Change_h,001,088)) and ((any(Scomp_h,055,099) or

+ F range(Scomp_h,001,007)) or (Scomp_h=088 and

any(Fname_h,"YYYYYYYYYYYYYYYYYY"'))))

Q Smoke_h 1 800 I3

T Roster, Rost. ID h, Smoke

V q6hh

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_h (A15) '', Change_h (F3.0) ''

L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and
+ F Smoke_h=088)

L X ((any(Changes,002,003) and any(Change_h,001,088)) and

+ F (any(Smoke_h,088,055,099) or any(Smoke_h,001,002)))

L X ((Changes=088 and any(Change_h,001,088)) and ((Smoke_h=055 or

+ F any(Smoke_h,001,002,099)) or (Smoke_h=088 and

any(Fname_h,"YYYYYYYYYYYYYYYYYY"'))))

Q Smkin_h 1 803 I3

T Roster, Rost. ID h, Smoke Inside

V q6hi

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Smoke_h (F3.0) '', Change_h (F3.0) ''

L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and
+ F Smkin_h=088)

L X ((any(Changes,002,003,088) and any(Change_h,001,088) and Smoke_h=001) and
+ F any(Smkin_h,001,002,055,099))

L X ((any(Changes,002,003,088) and any(Change_h,001,088) and Smoke_h=002) and
+ F Smkin_h=088)

L X ((any(Changes,002,003,088) and any(Change_h,001,088) and Smoke_h=055) and
+ F Smkin_h=055)

L X ((any(Changes,002,003,088) and any(Change_h,001,088) and Smoke_h=088) and
+ F Smkin_h=088)

L X ((any(Changes,002,003,088) and any(Change_h,001,088) and Smoke_h=099) and
+ F Smkin_h=099)

* This Question is no longer being asked.

Q Hrwrk_h 1 806 F4.1
T Roster, Rost. ID h, Hours at work
V q6hj
Y -8.8 N/A

Q Wrkout_h 1 810 I3
T Roster, Rost. ID h, Work outside of home

V q6hk
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_h (F4.1) '', Change_h (F3.0) ''
L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_h=088)
L X ((any(Changes,002,003,088) and any(Change_h,001,088)) and
+ C any(Wrkout_h,001,002,055,099)) or (any(Fname_h,"YYYYYYYYYYYYYYYY") and
+ F Wrkout_h=088)

* This Question is no longer being asked.

Q Hr_sch_h 1 813 F4.1
T Roster, Rost. ID h, Hours at School
V q6hl
Y -8.8 N/A

Q Schout_h 1 817 I3
T Roster, Rost. ID h, School outside of home

V q6hm
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_h (F4.1) '', Change_h (F3.0) ''
L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and
+ F Schout_h=088)
L X ((any(Changes,002,003,088) and any(Change_h,001,088)) and
+ C any(Schout_h,001,002,055,099)) or (any(Fname_h,"YYYYYYYYYYYYYYYY") and
+ F Schout_h=088)

* This Question is no longer being asked.

Q Hrply_h 1 820 F4.1
T Roster, Rost. ID h, Hours at other activities
V q6hn
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_h 1 824 I3
T Roster, Rost. ID h, Work pesticides

V q6ho
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_h 1 827 I3
T Roster, Rost. ID h, Work solvents
V q6hp
Y 088 N/A

Q IRN_h 1 830 I2
T Roster, Rost. ID h, IRN Assignment

V q6hq
R (01,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing

P Changes (F3.0) '', Fname_h (A15) '', Change_h (F3.0) ''
L X ((any(Changes,001,004) or Change_h=002 or not(any(contcode,34,40,-8))) and
+ F IRN_h=-8)
L X ((any(Changes,002,003) and any(Change_h,001,088)) and (any(IRN_h,-5,-8) or
+ F range(IRN_h,01,10)))
L X ((Changes=088 and Change_h=088) and ((IRN_h=-5 or
+ F range(IRN_h,01,10)) or (IRN_h=-8 and any(Fname_h,"YYYYYYYYYYYYYYYYYY"))))

Q Change_h 1 832 I3
T Roster, Rost. ID h, Status change

V q6hr
Y 001 Y
Y 002 N
Y 088 N/A

P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_h=088)
L X (any(Changes,002,003) and any(Change_h,001,002,088))

Q Fname_i 1 835 A15
T Roster, Rost. ID i, First Name
V q6ib
P Change_i (F3.0) ''
L X ((Change_i=002 or not(any(contcode,34,40,-8))) and
+ F any(Fname_i,"YYYYYYYYYYYYYYYYYY"))
L X (any(Change_i,001,088))

Q Sex_i 1 850 I3
T Roster, Rost. ID i, Sex
V q6ic
Y 001 M
Y 002 F
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_i (A15) '', Change_i (F3.0) ''

L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F Sex_i=088)

L X ((any(Changes,002,003) and any(Change_i,001,088)) and
+ F any(Sex_i,001,002,055,088))

L X ((Changes=088 and any(Change_i,001,088)) and (any(Sex_i,001,002,055) or
+ F (Sex_i=088 and any(Fname_i,"YYYYYYYYYYYYYYYY"))))

Q Yob_i 1 853 I4

T Roster, Rost. ID i, Year of birth

V q6id

R (1875,1996)

Y -555 Refused

Y -888 N/A

Y -999 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_i (A15) '', Change_i (F3.0) ''

L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F Yob_i=-888)

L X ((any(Changes,002,003) and any(Change_i,001,088)) and
+ F (any(Yob_i,-888,-555,-999) or range(Yob_i,1875,1996)))

L X ((Changes=088 and any(Change_i,001,088)) and ((any(Yob_i,-555,-999) or
+ F range(Yob_i,1875,1996)) or (Yob_i=-888 and any(Fname_i,"YYYYYYYYYYYYYYYY"))))

Q Ethnic_i 1 857 I3

T Roster, Rost. ID i, Race

V q6ie

Y 001 White

Y 002 Black or African American

Y 003 American Indian

Y 004 Eskimo or Aleut

Y 005 Asian or Pacific Islander

Y 006 Some other race

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_i (A15) '', Change_i (F3.0) ''

L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F Ethnic_i=088)

L X ((any(Changes,002,003) and any(Change_i,001,088)) and
+ F (any(Ethnic_i,088,055,099) or range(Ethnic_i,001,006)))

L X ((Changes=088 and any(Change_i,001,088)) and ((Ethnic_i=055 or
+ C range(Ethnic_i,001,006)) or (Ethnic_i=088 and
+ F any(Fname_i,"YYYYYYYYYYYYYYYY"))))

Q Ethoth_i 1 860 I2

T Roster, Rost. ID i, Other Race

Y 06 African American or White and Hispanic

Y 07 African American and White

Y 08 White and Native American

Y 09 Hispanic and Native American

Y 10 African American and Native American

Y 11 Asian/Pacific Islander

Y 12 Eskimo/Aleut
Y 13 Native Australian/Native New Zealander
Y 14 African American and Asian/Pacific Islander
Y 15 African American and Eskimo/Aleut
Y 16 White and Asian/Pacific Islander
Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut
Y 20 Native American and Asian/Pacific Islander
Y 21 Native American and Eskimo/Aleut
Y 22 American ancestry unspecified
Y -5 Refused
Y -8 N/A
Y -9 Missing
P contcode (F2.0) '', Ethnic_i (F3.0) '', Change_i (F3.0) ''
L X ((Ethnic_i=06 and any(Change_i,001,088) or not(any(contcode,34,40,-8))) and
+ F (Ethoth_i=-9 or range(Ethoth_i,06,22)))
L X ((any(Ethnic_i,001,002,003,004,005,088) or Change_i=002) and Ethoth_i=-8)
L X ((Ethnic_i=055 and any(Change_i,001,088)) and Ethoth_i=-5)

Q Hisp_i 1 862 I3
T Roster, Rost. ID i, Hispanic
V q6if
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P contcode (F2.0) '', Ethnic_i (F3.0) '', Change_i (F3.0) ''
L X ((any(Ethnic_i,001,002,003,004,005,006,088) and any(Change_i,001,088)) and
+ F any(Hisp_i,001,002,088,099))
L X ((Change_i=002 or not(any(contcode,34,40,-8))) and Hisp_i=088)
L X ((Ethnic_i=055 and any(Change_i,001,088)) and Hisp_i=055)

Q Scomp_i 1 865 I3
T Roster, Rost. ID i, School Completed
V q6ig
Y 001 No schooling completed or kindergarten only
Y 002 Primary or middle school
Y 003 Some high school
Y 004 High school graduate
Y 005 Some college or technical school
Y 006 College graduate
Y 007 Some post-college
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_i (A15) '', Change_i (F3.0) ''
L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F Scomp_i=088)
L X ((any(Changes,002,003) and any(Change_i,001,088)) and

+ F (any(Scomp_i,088,055,099) or range(Scomp_i,001,007)))
L X ((Changes=088 and any(Change_i,001,088)) and ((any(Scomp_i,055,099) or
+ F range(Scomp_i,001,007)) or (Scomp_i=088 and any(Fname_i,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_i 1 868 I3

T Roster, Rost. ID i, Smoke

V q6ih

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_i (A15) '', Change_i (F3.0) ''

L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and

+ F Smoke_i=088)

L X ((any(Changes,002,003) and any(Change_i,001,088)) and

+ F (any(Smoke_i,088,055,099) or any(Smoke_i,001,002)))

L X ((Changes=088 and any(Change_i,001,088)) and ((Smoke_i=055 or

+ F any(Smoke_i,001,002,099)) or (Smoke_i=088 and

any(Fname_i,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_i 1 871 I3

T Roster, Rost. ID i, Smoke Inside

V q6ii

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Smoke_i (F3.0) '', Change_i (F3.0) ''

L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and

+ F Smkin_i=088)

L X ((any(Changes,002,003,088) and any(Change_i,001,088) and Smoke_i=001) and

+ F any(Smkin_i,001,002,055,099))

L X ((any(Changes,002,003,088) and any(Change_i,001,088) and Smoke_i=002) and

+ F Smkin_i=088)

L X ((any(Changes,002,003,088) and any(Change_i,001,088) and Smoke_i=055) and

+ F Smkin_i=055)

L X ((any(Changes,002,003,088) and any(Change_i,001,088) and Smoke_i=088) and

+ F Smkin_i=088)

L X ((any(Changes,002,003,088) and any(Change_i,001,088) and Smoke_i=099) and

+ F Smkin_i=099))

* This Question is no longer being asked.

Q Hrwrk_i 1 874 F4.1

T Roster, Rost. ID i, Hours at work

V q6ij

Y -8.8 N/A

Q Wrkout_i 1 878 I3

T Roster, Rost. ID i, Work outside of home

V q6ik
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_i (F4.1) '', Change_i (F3.0) ''
L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F Wrkout_i=088)
L X ((any(Changes,002,003,088) and any(Change_i,001,088)) and
+ C any(Wrkout_i,001,002,055,099)) or (any(Fname_i,"YYYYYYYYYYYYYYYYYY") and
+ F Wrkout_i=088)

* This Question is no longer being asked.

Q Hr_sch_i 1 881 F4.1
T Roster, Rost. ID i, Hours at School
V q6il
Y -8.8 N/A

Q Schout_i 1 885 I3
T Roster, Rost. ID i, School outside of home
V q6im
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Hr_sch_i (F4.1) '', Change_i (F3.0) ''
L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F Schout_i=088)
L X ((any(Changes,002,003,088) and any(Change_i,001,088)) and
+ C any(Schout_i,001,002,055,099)) or (any(Fname_i,"YYYYYYYYYYYYYYYYYY") and
+ F Schout_i=088)

* This Question is no longer being asked.

Q Hrply_i 1 888 F4.1
T Roster, Rost. ID i, Hours at other activities
V q6in
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_i 1 892 I3
T Roster, Rost. ID i, Work pesticides
V q6io
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_i 1 895 I3
T Roster, Rost. ID i, Work solvents
V q6io
Y 088 N/A

Q IRN_i 1 898 I2

T Roster, Rost. ID i, IRN Assignment

V q6iq

R (01,10)

Y -5 Refused

Y -8 N/A

Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_i (A15) '', Change_i (F3.0) ''

L X ((any(Changes,001,004) or Change_i=002 or not(any(contcode,34,40,-8))) and
+ F IRN_i=-8)

L X ((any(Changes,002,003) and any(Change_i,001,088)) and (any(IRN_i,-5,-8) or
+ F range(IRN_i,01,10)))

L X ((Changes=088 and Change_i=088) and ((IRN_i=-5 or
+ F range(IRN_i,01,10)) or (IRN_i=-8 and any(Fname_i,"YYYYYYYYYYYYYYYYYY"))))

Q Change_i 1 900 I3

T Roster, Rost. ID i, Status change

V q6ir

Y 001 Y

Y 002 N

Y 088 N/A

P Changes (F3.0) '', contcode (F2.0) ''

L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_i=088)

L X (any(Changes,002,003) and any(Change_i,001,002,088))

Q Fname_j 1 903 A15

T Roster, Rost. ID j, First Name

V q6jb

P Change_j (F3.0) ''

L X ((Change_j=002 or not(any(contcode,34,40,-8))) and
+ F any(Fname_j,"YYYYYYYYYYYYYYYYYY"))

L X (any(Change_j,001,088))

Q Sex_j 1 918 I3

T Roster, Rost. ID j, Sex

V q6jc

Y 001 M

Y 002 F

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_j (A15) '', Change_j (F3.0) ''

L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and
+ F Sex_j=088)

L X ((any(Changes,002,003) and any(Change_j,001,088)) and
+ F any(Sex_j,001,002,055,088))

L X ((Changes=088 and any(Change_j,001,088)) and (any(Sex_j,001,002,055) or
+ F (Sex_j=088 and any(Fname_j,"YYYYYYYYYYYYYYYYYY"))))

Q Yob_j 1 921 I4

T Roster, Rost. ID j, Year of birth
V q6jd
R (1875,1996)
Y -555 Refused
Y -888 N/A
Y -999 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_j (A15) '', Change_j (F3.0) ''
L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and
+ F Yob_j=-888)
L X ((any(Changes,002,003) and any(Change_j,001,088)) and
+ F (any(Yob_j,-888,-555,-999) or range(Yob_j,1875,1996)))
L X ((Changes=088 and any(Change_j,001,088)) and ((any(Yob_j,-555,-999) or
+ F range(Yob_j,1875,1996)) or (Yob_j=-888 and any(Fname_j,"YYYYYYYYYYYYYYYYYY"))))

Q Ethnic_j 1 925 I3
T Roster, Rost. ID j, Race
V q6ke
Y 001 White
Y 002 Black or African American
Y 003 American Indian
Y 004 Eskimo or Aleut
Y 005 Asian or Pacific Islander
Y 006 Some other race
Y 055 Refused
Y 088 N/A
Y 099 Missing
P Changes (F3.0) '', contcode (F2.0) '', Fname_j (A15) '', Change_j (F3.0) ''
L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and
+ F Ethnic_j=088)
L X ((any(Changes,002,003) and any(Change_j,001,088)) and
+ F (any(Ethnic_j,088,055,099) or range(Ethnic_j,001,006)))
L X ((Changes=088 and any(Change_j,001,088)) and ((Ethnic_j=055 or
+ C range(Ethnic_j,001,006)) or (Ethnic_j=088 and
+ F any(Fname_j,"YYYYYYYYYYYYYYYYYY"))))

Q Ethoth_j 1 928 I2
T Roster, Rost. ID j, Other Race
Y 06 African American or White and Hispanic
Y 07 African American and White
Y 08 White and Native American
Y 09 Hispanic and Native American
Y 10 African American and Native American
Y 11 Asian/Pacific Islander
Y 12 Eskimo/Aleut
Y 13 Native Australian/Native New Zealander
Y 14 African American and Asian/Pacific Islander
Y 15 African American and Eskimo/Aleut
Y 16 White and Asian/Pacific Islander
Y 17 White and Eskimo/Aleut
Y 18 Hispanic and Asian/Pacific Islander
Y 19 Hispanic and Eskimo/Aleut

Y 20 Native American and Asian/Pacific Islander

Y 21 Native American and Eskimo/Aleut

Y 22 American ancestry unspecified

Y -5 Refused

Y -8 N/A

Y -9 Missing

P contcode (F2.0) '', Ethnic_j (F3.0) '', Change_j (F3.0) ''

L X ((Ethnic_j=06 and any(Change_j,001,088) or not(any(contcode,34,40,-8))) and

+ F (Ethoth_j=-9 or range(Ethoth_j,06,22)))

L X ((any(Ethnic_j,001,002,003,004,005,088) or Change_j=002) and Ethoth_j=-8)

L X ((Ethnic_j=055 and any(Change_j,001,088)) and Ethoth_j=-5)

Q Hisp_j 1 930 I3

T Roster, Rost. ID j, Hispanic

V q6jf

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P contcode (F2.0) '', Ethnic_j (F3.0) '', Change_j (F3.0) ''

L X ((any(Ethnic_j,001,002,003,004,005,006,088) and any(Change_j,001,088)) and

+ F any(Hisp_j,001,002,088,099))

L X ((Change_j=002 or not(any(contcode,34,40,-8))) and Hisp_j=088)

L X ((Ethnic_j=055 and any(Change_j,001,088)) and Hisp_j=055)

Q Scomp_j 1 933 I3

T Roster, Rost. ID j, School Completed

V q6jg

Y 001 No schooling completed or kindergarten only

Y 002 Primary or middle school

Y 003 Some high school

Y 004 High school graduate

Y 005 Some college or technical school

Y 006 College graduate

Y 007 Some post-college

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_j (A15) '', Change_j (F3.0) ''

L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and

+ F Scomp_j=088)

L X ((any(Changes,002,003) and any(Change_j,001,088)) and

+ F (any(Scomp_j,088,055,099) or range(Scomp_j,001,007)))

L X ((Changes=088 and any(Change_j,001,088)) and ((any(Scomp_j,055,099) or

+ F range(Scomp_j,001,007)) or (Scomp_j=088 and any(Fname_j,"YYYYYYYYYYYYYYYYYY"))))

Q Smoke_j 1 936 I3

T Roster, Rost. ID j, Smoke

V q6jh

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_j (A15) '', Change_j (F3.0) ''

L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and

+ F Smoke_j=088)

L X ((any(Changes,002,003) and any(Change_j,001,088)) and

+ F (any(Smoke_j,088,055,099) or any(Smoke_j,001,002)))

L X ((Changes=088 and any(Change_j,001,088)) and ((Smoke_j=055 or

+ F any(Smoke_j,001,002,099)) or (Smoke_j=088 and

any(Fname_j,"YYYYYYYYYYYYYYYYYY"))))

Q Smkin_j 1 939 I3

T Roster, Rost. ID j, Smoke Inside

V q6ji

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Smoke_j (F3.0) '', Change_j (F3.0) ''

L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and

+ F Smkin_j=088)

L X ((any(Changes,002,003,088) and any(Change_j,001,088) and Smoke_j=001) and

+ F any(Smkin_j,001,002,055,099))

L X ((any(Changes,002,003,088) and any(Change_j,001,088) and Smoke_j=002) and

+ F Smkin_j=088)

L X ((any(Changes,002,003,088) and any(Change_j,001,088) and Smoke_j=055) and

+ F Smkin_j=055)

L X ((any(Changes,002,003,088) and any(Change_j,001,088) and Smoke_j=088) and

+ F Smkin_j=088)

L X ((any(Changes,002,003,088) and any(Change_j,001,088) and Smoke_j=099) and

+ F Smkin_j=099)

* This Question is no longer being asked.

Q Hrwrk_j 1 942 F4.1

T Roster, Rost. ID j, Hours at work

V q6jj

Y -8.8 N/A

Q Wrkout_j 1 946 I3

T Roster, Rost. ID j, Work outside of home

V q6jk

Y 001 Y

Y 002 N

Y 055 Refused

Y 088 N/A

Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '', Hrwrk_j (F4.1) '', Change_j (F3.0) ''

L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and

+ F Wrkout_j=088)
L X ((any(Changes,002,003,088) and any(Change_j,001,088)) and
+ C any(Wrkout_j,001,002,055,099)) or (any(Fname_j,"YYYYYYYYYYYYYYYY") and
+ F Wrkout_j=088)

* This Question is no longer being asked.

Q Hr_sch_j 1 949 F4.1
T Roster, Rost. ID j, Hours at School
V q6jl
Y -8.8 N/A

Q Schout_j 1 953 I3
T Roster, Rost. ID j, School outside of home

V q6jm
Y 001 Y
Y 002 N
Y 055 Refused
Y 088 N/A
Y 099 Missing

P Changes (F3.0) '', contcode (F2.0) '' ,Hr_sch_j (F4.1) '' ,Change_j (F3.0) ''
L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and
+ F Schout_j=088)
L X ((any(Changes,002,003,088) and any(Change_j,001,088)) and
+ C any(Schout_j,001,002,055,099)) or (any(Fname_j,"YYYYYYYYYYYYYYYY") and
+ F Schout_j=088)

* This Question is no longer being asked.

Q Hrply_j 1 956 F4.1
T Roster, Rost. ID j, Hours at other activities
V q6jn
Y -8.8 N/A

* This Question is no longer being asked.

Q Wpest_j 1 960 I3
T Roster, Rost. ID j, Work pesticides
V q6jo
Y 088 N/A

* This Question is no longer being asked.

Q Wsolv_j 1 963 I3
T Roster, Rost. ID j, Work solvents
V q6jp
Y 088 N/A

Q IRN_j 1 966 I2

T Roster, Rost. ID j, IRN Assignment

V q6jq
R (01,10)
Y -5 Refused
Y -8 N/A
Y -9 Missing

P Changes (F3.0) '', contcode (F2.0) '', Fname_j (A15) '', Change_j (F3.0) ''
L X ((any(Changes,001,004) or Change_j=002 or not(any(contcode,34,40,-8))) and
+ F IRN_j=-8)
L X ((any(Changes,002,003) and any(Change_j,001,088)) and (any(IRN_j,-5,-8) or
+ F range(IRN_j,01,10)))
L X ((Changes=088 and Change_j=088) and ((IRN_j=-5 or
+ F range(IRN_j,01,10)) or (IRN_j=-8 and any(Fname_j,"YYYYYYYYYYYYYYYY"))))

Q Change_j 1 968 I3
T Roster, Rost. ID j, Status change

V q6jr
Y 001 Y
Y 002 N
Y 088 N/A

P Changes (F3.0) '', contcode (F2.0) ''
L X ((any(Changes,001,004,088) or not(any(contcode,34,40,-8))) and Change_j=088)
L X (any(Changes,002,003) and any(Change_j,001,002,088))