Data User’s Agreement

Federal law (The Public Health Service Act (Section 308 (d))) provides that these data may be used only for the purpose of health statistical reporting and analysis. Any effort to determine the identity of any person or establishment is prohibited by this law.

NCHS does all it can to assure that the identity of data subjects cannot be disclosed. All direct identifiers, as well as any characteristics that might lead to identification, are omitted from the data files. In addition, some records have had one or more responses slightly modified through statistical perturbation. These modifications are intended to prevent definitive identification of individual respondents. They do not affect univariate point estimates and have a minimal effect on estimates of variance and tests of statistical significance.

By using National Survey of Family Growth data, you signify your agreement to comply with the following legal requirements:

- To use these data for statistical reporting and analysis only;
- To make no use of the identity of any person or establishment discovered inadvertently and advise the Director, NCHS, of any such discovery (301-458-4500); and
- To not link these data with individually identifiable data from any other data set.
TABLE OF CONTENTS

PART 1: GENERAL INFORMATION FOR USERS OF THE 2015-2017 NSFG PUBLIC-USE DATA .................................................................5

Background and Overview of the 2015-2017 NSFG ..........................................................6

Where to Find NSFG Public-Use Data and Documentation and Other NSFG Data Files ........8

Organization of the 2015-2017 NSFG Public-Use Data Files ...........................................9
  File Characteristics ................................................................................................................9
  Data Layout for Each File .......................................................................................................10

Sample Weights and Variance Estimation ............................................................................11

Overview of Data Quality in the NSFG ................................................................................13

Data Preparation for Public Use ...........................................................................................14
  Logical Inconsistencies and Out-of-Range Values ..............................................................14
  Coding for “Don’t Know,” “Refused,” and “Not Ascertained” Values ...............................15
  Century Month Coding for Dates ......................................................................................15
  Other-Specify Coding ........................................................................................................19
  Recodes and Imputation ......................................................................................................19
  Protections to Minimize Risk of Disclosure of Individual-Level Data ..............................21

Description of Codebooks ..................................................................................................24
  Overview ...............................................................................................................................24
  Elements of the Codebooks .................................................................................................25
    Variable Name ....................................................................................................................26
    Variable Type ....................................................................................................................26
    Column Locations ...........................................................................................................26
    Question Text ...................................................................................................................27
    Universe Statements (“Applicable specifications”) ............................................................27
    Response Categories and Unweighted Frequencies ........................................................28
    Link to Recode Specifications .........................................................................................29
    Notes .................................................................................................................................29

Description of Questionnaires ...........................................................................................29
  CAPI-Lite Format ...............................................................................................................29
  CAPI Reference Questionnaire (CRQ) Format .................................................................29

User Support .........................................................................................................................32

Acknowledgments ................................................................................................................32

Suggested Citation for NSFG Public-Use Data and Documentation ....................................33
PART 2:  TOPIC-SPECIFIC NOTES FOR ANALYSIS

Abortion Under-Reporting among Females .................................................................34

Birth Reporting among Females ..................................................................................34

Religion Data ..................................................................................................................35

Respondent’s Race ..........................................................................................................36

Race and Hispanic Origin of Spouse or Partner .........................................................36

Female Respondent File Notes ......................................................................................38

Female Pregnancy (Interval) File Notes .......................................................................43

Male File Notes ..............................................................................................................45

APPENDICES (provided in separate PDF files posted on NSFG webpage)

Appendix 1: File Indexes for 2015-2017 NSFG Public-Use Files
  1a. Female Respondent File Index
  1b. Female Pregnancy (Interval) File Index
  1c. Male File Index

Appendix 2: SAS and STATA Syntax Guidelines for Combining Data across File Releases

Appendix 3: Recode Specifications for 2015-2017 NSFG
  3a. Female Respondent File Recode Specifications
  3b. Female Pregnancy (Interval) File Recode Specifications
  3c. Male File Recode Specifications

Appendix 4: Recode “Crosswalk” Grids
  4a. Male-Female Recode Crosswalk for 2015-2017

Appendix 5: Summary of NSFG Questionnaire Changes since 2013-2015

Appendix 6: Frequently Asked Questions about the NSFG

Appendix 7: List of Restricted-Use Variables Available through the RDC
  7a. List of Restricted-Use Analytic Variables for the Female Respondent File
  7b. List of Restricted-Use Analytic Variables for the Female Pregnancy File
  7c. Further Details on Variables Modified for the Public-Use Files
USER’S GUIDE PART 1:
GENERAL INFORMATION FOR USERS OF THE
2015-2017 NSFG PUBLIC-USE DATA

The User’s Guide for the 2015-2017 NSFG is divided into two parts.

Part 1 provides general information for users of the public-use data, including:
- An overview of the 2015-2017 NSFG and brief background on previous NSFG surveys
- How to access NSFG data and documentation files
- How the NSFG data files are organized
- Information on sampling weights and variance estimation
- How the NSFG interview data were prepared for public use
- Descriptions of the codebooks and questionnaires

Part 2 ("topic-specific notes for analysis") gives information on data quality for selected survey topics and specific guidance for using particular variables in the data files.

The User’s Guide also contains seven appendices providing essential technical documentation and reference information:

1. File indexes (i.e., listings of each variable in the order in which they appear on the public-use file, along with a brief description)
2. SAS & Stata syntax guidelines for combining data across NSFG file releases
3. Recode specifications for specially constructed and imputed variables
4. Recode crosswalks by sex and across recent NSFG survey years
6. Frequently Asked Questions (FAQ)
7. Listing of restricted-use, analytic variables suppressed or modified for public use and available only available through the NCHS RDC.

As noted above, Appendix 6 of this User’s Guide provides a list of frequently asked questions (FAQ) about the NSFG, geared toward current or prospective users of the data file. Here are the primary highlights from the FAQ:

- **Use sample weight (e.g., WGT2015_2017) and design variables (SECU & SEST) to make valid estimates.** Failure to use the weights and design variables correctly will lead to inaccurate statistical estimates and inferences.

- **Use recoded variables when available.** They have been edited carefully, and missing data have been imputed. Some of the most commonly used recodes are listed on page 20.
• In addition to this 2015-2017 NSFG User’s Guide with its seven appendices, the NSFG website also provides the following materials:
  o the codebooks (online codebook called “Webdoc”)
  o the questionnaires in two levels of detail
  o downloadable ASCII data files
  o program statements to read in the ASCII data files using SAS, Stata, and SPSS
  o variance estimation examples using 2015-2017 data that can be adapted for your own research purposes
  o case weights for analyzing combined 4-year and 6-year data files (2013-2017 and 2011-2017)

• If you cannot find an answer to your question in the NSFG User’s Guide, codebooks, questionnaires, or webpage, please contact NSFG staff at nsfg@cdc.gov.

• The 2015-2017 NSFG sample design, fieldwork plan, and other procedures of the survey are similar to what was used in 2006-2010, 2011-2013, and 2013-2015. Until further information is published specific to the survey design and operations of the 2015-2017 NSFG, refer to the section below on “Sample Weights and Variance Estimation,” the methodology reports available on the webpage for 2013-2015 and 2011-2013, as well as the Series 1 and Series 2 technical reports from the 2006-2010 data release available on the NSFG website.

BACKGROUND AND OVERVIEW OF THE 2015-2017 NSFG

The National Survey of Family Growth (NSFG) is designed and administered by the National Center for Health Statistics (NCHS), an agency within the U.S. Department of Health and Human Services’ Centers for Disease Control and Prevention (DHHS/CDC). NCHS conducts the NSFG in collaboration with several other agencies of the DHHS. (See Acknowledgments for further detail on these cosponsoring agencies, as well as key personnel at NCHS and at the contractor organization for this file release, the University of Michigan’s Institute for Social Research.)

The NSFG became part of the federal statistical system, within NCHS, in 1973. The primary purpose of the survey, particularly since the inclusion of a sample of men as well as women aged 15-44 (15-49 starting in September 2015), has been to produce reliable national estimates of:

• factors affecting pregnancy, including sexual activity, contraceptive use, and infertility;
• the medical care associated with contraception, infertility, and childbirth;
• factors affecting marriage, divorce, cohabitation, and family building;
• adoption and caring for non-biological children;
• father involvement with their children;
• use of sexual and reproductive health services; and
- attitudes about sex, childbearing, and marriage.

The survey results are used by the U.S. DHHS and other research and policy organizations to help understand use of health services and health education programs, and to do statistical studies on the topics listed above, among others.

The following table presents basic information on each NSFG public-use file release since 1973.

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Year</th>
<th>Scope</th>
<th>Number of Interviews</th>
<th>Over-Samples</th>
<th>OMB Approved Length</th>
<th>Respondent Incentive</th>
<th>Response Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1973</td>
<td>Ever-Married Women 15-44</td>
<td>9,797</td>
<td>Black Women</td>
<td>60 Minutes</td>
<td>No</td>
<td>90.2%</td>
</tr>
<tr>
<td>2</td>
<td>1976</td>
<td>Ever-Married Women 15-44</td>
<td>8,611</td>
<td>Black Women</td>
<td>60 Minutes</td>
<td>No</td>
<td>82.7%</td>
</tr>
<tr>
<td>3</td>
<td>1982</td>
<td>All Women 15-44</td>
<td>7,969</td>
<td>Black Women Teens</td>
<td>60 Minutes</td>
<td>No</td>
<td>79.4%</td>
</tr>
<tr>
<td>4</td>
<td>1988</td>
<td>Women 15-44</td>
<td>8,450</td>
<td>Black Women</td>
<td>70 Minutes</td>
<td>No</td>
<td>82.5%</td>
</tr>
<tr>
<td>5</td>
<td>1995</td>
<td>Women 15-44</td>
<td>10,847</td>
<td>Black Women Hispanic Women</td>
<td>100 Minutes</td>
<td>$20</td>
<td>78.7%</td>
</tr>
<tr>
<td>6</td>
<td>2002</td>
<td>Women 15-44 Men 15-44 (First time)</td>
<td>12,571</td>
<td>Blacks, Hispanics, 15-24 year olds</td>
<td>W= 85 min M= 60 min</td>
<td>$40</td>
<td>79%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>W = 7,643 M = 4,928</td>
<td>Blacks, Hispanics, Teens</td>
<td>W=80 min M=60 min</td>
<td>$40</td>
<td>77%</td>
</tr>
<tr>
<td>n/a</td>
<td>2006-2010</td>
<td>Women 15-44 Men 15-44</td>
<td>22,682</td>
<td>Blacks, Hispanics, Teens</td>
<td>W=80 min M=60 min</td>
<td>$40</td>
<td>72.8%</td>
</tr>
<tr>
<td>n/a</td>
<td>2011-2013</td>
<td>Women 15-44 Men 15-44</td>
<td>10,416</td>
<td>Blacks, Hispanics Teens</td>
<td>W=80 min M=60 min</td>
<td>$40</td>
<td>69.3%</td>
</tr>
<tr>
<td>n/a</td>
<td>2013-2015</td>
<td>Women 15-44 Men 15-44</td>
<td>10,205</td>
<td>Blacks, Hispanics Teens</td>
<td>W=80 min M=60 min</td>
<td>$40</td>
<td>65.3%</td>
</tr>
<tr>
<td>n/a</td>
<td>2015-2017</td>
<td>Women 15-49 Men 15-49</td>
<td>10,094</td>
<td>Blacks, Hispanics Teens</td>
<td>W=80 min M=60 min</td>
<td>$40</td>
<td>62.8%</td>
</tr>
</tbody>
</table>

NSFG data are based on a multi-stage probability-based, nationally representative sample of the household population aged 15-49. Fieldwork for the 2015-2017 NSFG was conducted from September 2015 through September 2017, based on survey protocol and informed consent procedures approved by the NCHS Research Ethics Review Board (protocol #2015-12). After one sample respondent per household was selected based on screening interviews in NSFG sample households, in-person interviews were conducted with 5,554 women and 4,540 men 15-49 years of age for a total sample size of 10,094. The interviews were conducted by female interviewers trained specifically for the NSFG survey using laptop computers--a procedure called computer-assisted personal interviewing (CAPI). Informed consent-related materials for the 2015-2017 NSFG are available on the NSFG website. Signed parental permission and minor assent were obtained for all minor respondents aged 15-17. Adult respondents could provide consent without signature. For 2015-2017, the interviews for female respondents averaged 73.0 minutes in length, and the interviews for male respondents averaged 49.9 minutes, both within the limits of 80 minutes for females and 60 minutes for males approved by the Office of Management and Budget (NSFG OMB No. 0920-0314).
Response Rates: The overall response rate for 2015-2017 NSFG for ages 15-49 was 65.3%; 66.7% for women and 63.6% for men. The response rate for male teenagers ages 15-19 was 65.6% and 67.8% for female teenagers. Response rates for ages 15-44 for 2015-2017 were 65.4% overall; 67.0% for women and 63.5% for men. The calculation of response rates for the NSFG under the continuous design, beginning with the 2006-2010 data, has been similar for each release. Specific information for the 2006-2010 release can be found in http://www.cdc.gov/nchs/data/series/sr_02/sr02_158.pdf; specific information for the 2013-2015 release can be found in the documents linked in the next paragraph. Response rates for 2015-2017 were calculated in the same way as described in those documents.

Additional details on how the survey was designed and conducted are forthcoming at the time of this writing. However the principles of continuous interviewing and many ongoing design features since it began in 2006 can be found on the NSFG website including the methodology reports for the 2013-2015 fieldwork period here:

- Summary of 2013-2015 Design and Data collection
- Sample design documentation for 2013-2015
- Sample error estimation for 2013-2015
- Weighting design documentation for 2013-2015

WHERE TO FIND NSFG PUBLIC-USE DATA AND DOCUMENTATION and OTHER NSFG DATA FILES

The public-use data and documentation for the 2015-2017 NSFG are available on the NSFG website (www.cdc.gov/nchs/nsfg.htm). Documentation includes this User’s Guide, the questionnaires, and a link to the interactive, online codebook documentation (“Webdoc”) which shows separate entries for each variable on the files.

The public-use data are contained in three data files:

- Female respondent file (one record or observation per interviewed female)
- Female pregnancy (interval) file (one record per pregnancy of interviewed females)
- Male respondent file (one record per interviewed male)

New for the 2015-2017 NSFG:

## ORGANIZATION OF THE 2015-2017 NSFG PUBLIC-USE DATA FILES

The public-use data for the 2015-2017 NSFG are provided as three separate ASCII files.

<table>
<thead>
<tr>
<th>FILE CHARACTERISTICS</th>
<th>Number of Records (observations)</th>
<th>Record Length (number of columns)</th>
<th>Number of Variables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female respondent file</td>
<td>5,554</td>
<td>4,522</td>
<td>3,024</td>
</tr>
<tr>
<td>Female pregnancy (interval) file</td>
<td>9,553</td>
<td>375</td>
<td>248</td>
</tr>
<tr>
<td>Male respondent file</td>
<td>4,540</td>
<td>4,170</td>
<td>2,945</td>
</tr>
</tbody>
</table>

The **Female Respondent file** contains one record for each of the 5,554 women interviewed in the survey.

The **Female Pregnancy (Interval) file** contains one record for each of the 9,553 pregnancies reported by female respondents. Pregnancy records are based on both completed pregnancies (those that have reached an outcome such as live birth, stillbirth, ectopic, miscarriage, or induced abortion) and current pregnancies (ongoing at time of interview). Each pregnancy record contains information about the characteristics of that pregnancy and method use and wantedness before that pregnancy. That is, in the Female Respondent file the unit of analysis is the woman, and in the Pregnancy file the unit of analysis is the pregnancy or pregnancy interval.

The **Male Respondent** file, often just referred to as the male file, contains one record for each of the 4,540 men interviewed; the male respondent is the unit of analysis.

Program statements are provided on the NSFG webpage to read the ASCII data into SAS, SPSS, and Stata, and include variable and value labels. Formats are provided within the program statements, but are for user convenience or ease of display only. They do not always reflect the actual values in the dataset and sometimes condense responses into categories. Data users should make their own decisions about whether to use the formats provided in the program statements. In addition, SAS and Stata syntax guidelines are provided in Appendix 2 for combining data file releases.
Data Layout for Each File

The following is a listing of the major sections in the three public-use files from the 2015-2017 NSFG. Appendix 1 (File Indexes) provides more detail, including short descriptions and variable types for every variable included on the public-use files.

FEMALE RESPONDENT FILE – information for each female respondent interviewed

- Respondent ID (CASEID) and selected screener variables
- Questionnaire Data (including computed variables) for Sections A-J
  A. Background and demographic information
  B. Pregnancy and adoption-related information
  C. Marital and relationship history; first sexual intercourse; recent partners; sex education
  D. Sterilizing operations and impaired fecundity
  E. Contraceptive history and pregnancy wantedness
  F. Family planning and medical services
  G. Birth desires and intentions
  H. Infertility services and reproductive health
  I. More background, more demographic information, access to health care & attitude questions
  J. Audio CASI: general health measures; pregnancy reporting; cigarette, alcohol & other drug use; STD/HIV-risk behaviors; non-voluntary intercourse; sexual orientation & attraction; income and economic insecurity
- Recodes (constructed, imputed variables) & imputation flags (including key recodes describing pregnancies)
- Weights & related variables (including sample design variables)
- Date of interview and related variables

FEMALE PREGNANCY (INTERVAL) FILE – information for each pregnancy reported by female respondents (including current)

- Respondent ID (CASEID)
- Pregnancy Order (PREGORDR)
- Questionnaire Data (including computed variables) for Sections B & E
  o B: pregnancy outcomes and years, prenatal care, sources of payment for delivery, breast-feeding
  o E: contraceptive use in the pregnancy interval and wantedness of the pregnancy
- Recodes (constructed, imputed variables) & imputation flag (including key recodes and other variables from respondent file)
- Weights & related variables (including sample design variables)
- Date of interview and related variables
MALE RESPONDENT FILE – Information for each male respondent

- Respondent ID (CASEID) and selected screener variables
- Questionnaire Data (including computed variables) for Sections A-K
  A. Background and demographic information
  B. Sex education, vasectomy & infertility, sexual intercourse, enumeration and relationship with up to 3 recent (or last) sexual partners
  C. Current wife or cohabiting partner: year of marriage; children; contraception with her
  D. Recent (or last) sexual partner(s) (up to three): key dates, children; contraception with her; 1st partner
  E. Former wives and first premarital cohabiting partner: year of key dates, children; contraception with each
  F. Other biological and adopted children; other pregnancies
  G. Fathering: Activities with the youngest child he lives with and the youngest child he lives apart from
  H. Desires and intentions for future children
  I. Health conditions, access to health care, and receipt of health services
  J. More background, more demographic information, & attitude questions
  K. Audio CASI: pregnancy reporting; cigarette, alcohol & other drug use; STD/HIV-risk behaviors; non-voluntary intercourse; sexual orientation & attraction; income and economic insecurity
- Recodes (constructed, imputed variables) & imputation flags
- Weights & related variables (including sample design variables)
- Date of interview and related variables

SAMPLE WEIGHTS AND VARIANCE ESTIMATION

Since the NSFG is a multi-stage probability-based, nationally representative sample of the household population aged 15-49, and not a simple random sample of the population, data users should understand how to account for the complex sample design when doing their analyses in order to obtain statistically valid results. This section provides a summary of the procedures used for sample weighting and variance estimation. Given that the sample design for the 2015-2017 NSFG is largely the same as that for the 2006-2010, 2011-2013, and 2013-2015 files, much of the information published for those file releases is applicable for 2015-2017. At the time of this writing, updates of this information are being prepared for the 2015-2017 NSFG, but the 2013-2015 documentation referenced earlier, on page 9, provides relevant information.

Sampling Weights

In the 2015-2017 NSFG, each person in the NSFG sample represents a different number of people in the U.S. household population and this number is indicated in the respondent’s sampling weight. There are several factors that lead to variation in the size of the weights. For example, Hispanics, blacks, and teens were selected at higher rates than others in the 15-49 age group. Women also had a slightly higher probability of selection than men. Sampling weights
adjust for these unequal probabilities of selection for different population subgroups. The sampling weights were further adjusted to account for differential response rates and coverage rates, so that accurate national estimates can be made from the sample. The weights were adjusted to U.S. Census Bureau projections of the number of persons in age-sex-race-ethnicity subgroups. Data users should use the weights in all analyses to obtain accurate estimates. Using the weights will permit replication of the nationally representative estimates that appear in published NCHS reports.

Each of the 2015-2017 data files have a weight variable called “WGT2015_2017” with values for each of the 5,554 female and 4,540 male respondents who completed NSFG interviews in 2015-2017. When correctly applied for the full set of cases, this “WGT2015_2017” variable yields estimates representative of the 71.6 million men and 72.2 million women in the household population aged 15-49 of the United States in each dataset at the approximate midpoint of 2015-2017 interviewing (July 2016). The weighted population sizes will of course be smaller if the user conducts analyses for other population subgroups.

As described in Appendix 2, there are also two additional weight variables released in a separate file at the time 2015-2017 data release. “WGT2011_2017” should be used when analyzing the combined 2011-2013, 2013-2015, and 2015-2017 files to produce estimates for that six-year period. This sample weight is adjusted to the U.S. Census Bureau population projections at the approximate midpoint of the 2011-2017 time period, July 2014. “WGT2013_2017” should be used when analyzing the combined 2013-2015, and 2015-2017 files to produce estimates for that four-year period. This sample weight is adjusted to the U.S. Census Bureau population projections at the approximate midpoint of the 2013-2017 time period, July 2015. Users who want to compare estimates for the individual two-year files in those pooled groups would need to use the separate two-year weights for each file. See Appendix 2 for more information about when to use the two-, four-, or six-year weights and the response rates for the pooled files.

To yield the population number in thousands, as often appears in NCHS reports, you divide the sample weight by 1,000. For example, you would use this data manipulation step to create a new weight variable:

\[ \text{WGT1000} = \frac{\text{WGT2015}_2017}{1000} \]

In addition to using the sampling weight variable WGT2015_2017, researchers must use the design variables for the sampling stratum (SEST) and cluster (SECU) to obtain correct standard errors for their estimates. These values of SEST and SECU would be used regardless of whether the user is analyzing the two-year files (with the two-year file weight), the combined four-year file (with the four-year case weight), or the combined six-year file (with the six-year case weight).

Variance Estimation

Sampling variance is a measure of the precision of a statistic (such as a percentage, proportion or a mean) due to having taken a sample of instead of interviewing the full population. In the 2015-2017 NSFG, the sampling variance measures variation caused by
interviewing the NSFG sample of 10,094 respondents instead of all 144 million women and men aged 15-49 in the US household population.

Many statistical software packages by default, compute “population” variances, which may severely underestimate or overestimate the sampling variances because they assume that the sample was drawn using simple random sampling. Statistical software that can analyze data drawn from complex survey samples is required to accurately estimate sampling errors in a complex sample such as the NSFG. For example, SAS procedures such as “FREQ” produce population variances assuming simple random sampling, but SAS has procedures for complex survey estimates in its ‘SURVEY’ procedures such as “SURVEYFREQ.” Similarly, SUDAAN, Stata and SPSS have procedures designed to analyze data derived from a complex sample survey.

When estimating variances for population subgroups (such as those who have ever had sexual intercourse or those 30-49 years of age), it is important to read in the entire data set first. An indicator variable for your subpopulation (e.g., in SAS for 30-49 year olds, “if ager >= 30 then agenew=1”) should be created to identify only those observations that will be used in the analysis. Then, you define your subgroup of interest within your survey procedure, such as using the SUBPOPN command in SUDAAN, the SUBPOP command in Stata, or by using the DOMAIN statement in SAS or including the variable in your SURVEYFREQ table command. If the data are subset without first reading in the entire data set, then empty clusters may be lost, making the survey design structure incomplete. This may result in the statistical software to terminate or lead to other errors. Three variance estimation examples, some of which show examples of making a subpopulation indicator variable, using SAS and Stata for the 2015-2017 file are posted on the NSFG webpage.

OVERVIEW OF DATA QUALITY IN THE NSFG

As measured by amounts of missing data and inconsistent data, data quality in the 2015-2017 NSFG is high, as it was in previous data years. This high quality was obtained through:

-- Questionnaire design work, including careful specification, testing, and incorporation of lessons learned from the past NSFG data collection periods;
-- Consistency checks built into the interview that allowed potential data problems to be resolved in the field rather than after data collection;
-- Evaluation of monthly data files to find and correct instrument problems before significant numbers of cases were affected; and
-- Extensive interviewer training to ensure adherence to consistent and ethical fieldwork procedures.

Part 2 of the User’s Guide provides information on those few variables where data issues exist.

Data files as large and complex as these cannot be guaranteed to be free of errors. If you believe you have found an error or need further assistance, please email the NSFG staff at NCHS at nsfg@cdc.gov.
DATA PREPARATION FOR PUBLIC USE

This section describes steps taken to prepare the NSFG interview data for public use. Some of these actions were taken simply to make the data more useful. Other actions were taken to protect the confidentiality of individual respondents, in keeping with the legal and ethical obligations of NCHS when conducting the NSFG or any of its other surveys.

Logical Inconsistencies and Out-of-Range Values

During fieldwork, logical consistency across data items was maintained through “edit checks” built into the programs that ran the male and female questionnaires. These edit checks alerted the interviewer to inconsistent or out-of-range entries and required that she attempt to correct the entry, usually by working with the respondent. Out-of-range values are greatly reduced in the 2015-2017 NSFG (as in past files) because valid ranges are specified and programmed into the instrument to the extent possible, and values outside that range are rejected or signaled by the computer.

Some edit checks in the instrument are “hard edits” in that they disallow combinations of values that are impossible (for example, respondents cannot report a date for any event in their lives that is later than the interview date or before their date of birth). Other edit checks are “soft edits” in that they alert the interviewer to situations that are rare but not impossible (for example, a respondent reports that she had her first menstrual period at a particularly young age).

In soft edit checks, the respondent is given the opportunity to revise his or her responses in case they were given in error. If the respondent says that the information is accurate, the interviewer is allowed to override or suppress the inconsistency warning box and enter a brief comment to explain the situation. In rare cases, the interviewer herself may have misunderstood the edit check and mistakenly suppressed it. In all such cases, the seemingly inconsistent data may remain on the data file. It is not possible to foresee and specify all the edit checks that might be needed in these very complex interviews, and as a result, some inconsistencies in the data could not be eliminated.

In addition to edit checks, other aspects of the questionnaire designed to maximize consistency during data collection were: 1) “summary screens” before or after key sections, reminding the respondent of events and dates reported earlier, and 2) life history calendars provided to female respondents as a visual aid for recording and remembering the chronology of events.

In the 2015-2017 NSFG, the process of checking for consistency was focused primarily on the recoded variables and variables used to construct them. These were considered to be the most critical and most frequently used variables in the files. Considerable efforts were made to detect and resolve or document inconsistencies and unacceptable codes throughout the files. However, as noted earlier, given the size and complexity of these data files, they may not be free of inconsistent or missing responses.
Coding for “Don’t Know,” “Refused,” and “Not Ascertained” Values

Missing data refers to responses of “don’t know” or “refused” that were entered by the interviewer to indicate that the respondent could not or would not provide an answer to a question. “Not ascertained” refers to rare instances in which a question was erroneously skipped during the interview. The code for “not ascertained” was generally assigned in these cases after fieldwork was completed. Only completed cases are in the files; a case was defined as being complete if the respondent answered the last applicable question before ACASI (in Section I for females and in Section J for males). The small number of respondents who did not complete the ACASI section, partially or completely, will have “not ascertained” values assigned to all variables after their break-off point.

Depending on the column length of the original data items:

- “don’t know” values are coded 9, 99, 999, 9999, or 99999
- “refusal” values are coded 8, 98, 998, 9998, or 99998
- “not ascertained” values are coded 7, 97, 997, 9997, or 99997

(The codebooks only show these codes for the variable if any cases had those particular values.)

Missing data as described above is distinct from a variable that was inapplicable -- the respondent was legitimately skipped past the question (for example, respondents who had never been pregnant were not asked questions about how their pregnancies ended). For more information on determining who was asked each question, refer to the description of universe statements in the User’s Guide section entitled “Description of Codebooks” further below or the codebook entry for particular variables. A question that was legitimately skipped or a variable legitimately not defined for a respondent will be coded as blank, and in the codebook, is indicated by a “dot” and labeled “inapplicable” or “sysmis.”

 Recoded variables may have legitimate inapplicable values, but they have no missing data in the form of “don’t know,” “refused,” or “not ascertained” values because these responses were imputed to a valid value. Cases that had recode values imputed because of missing information on the source variables are identified with an imputation “flag”-- a separate variable that indicates whether or not the corresponding recode was imputed (see User’s Guide section on “Recodes and Imputation” further below, as well as Appendix 3 (Recode Specifications)).

Century Month Coding for Dates

During the interview, dates of events were collected as month and year. For every date asked in the interview, the month and year information was converted to "century months" by subtracting 1900 from the year, then multiplying the remainder by 12, and adding the number of the month, where January = 1, February = 2, and so on.

For instance:
The century month code for October 1987 is \((87 \times 12) + 10 = 1054\).

The century month code for January 2000 is \((100 \times 12) + 1 = 1201\).

The century month code for July 2006 is \((106 \times 12) + 7 = 1279\).

The century month form is convenient for computing intervals between dates, and subtraction yields intervals in months.

With the exception of one recoded date variable (DATEUSE1 on the female respondent file) that has a leading 9 to indicate when the value was estimated, all century month date variables in the file are 4 columns long. The following codes were used for the 3 types of missing data on century month date variables:

- 9997 = Not ascertained
- 9998 = Refused
- 9999 = Don’t know

When seasons are reported on any month variable in the NSFG interview, a particular month is consistently assigned to enable the construction of a century month value and facilitate subsequent routing through the questionnaire. Listed below are the months assigned when a season is reported:

- Winter = 1 (January)
- Spring = 4 (April)
- Summer = 7 (July)
- Fall = 10 (October)

If a respondent says “don’t know” or refuses (DK/RF) to report a month, the value “6” (June) is assigned for the month. If a respondent does not report a year, the century month variable is set to 9999 for “Don’t Know” or 9998 for “Refused.” Data users may wish to refer to the raw month and year variables included on the public-use files, particularly the month variable, if they encounter an implausible or less likely set of century month dates.

The century month codes from 361 (January 1930) through 1416 (December 2017) are shown in the table below with the years from 1930 through 2017 on the vertical axis and the months on the horizontal axis. The code for a given month and year can be found by reading across the line for the appropriate year to the column headed by the appropriate month.

All interviews for the 2015-2017 NSFG were conducted between September 2015 (century month 1389) and September 2017 (century month 1413).

In response to disclosure risk concerns associated with a number of dates collected in the NSFG interview, the public-use files for 2015-2017 no longer include all century month dates collected in the interview or their raw month variables. The year variables for suppressed century month dates are available for public use, but the month and century month variables are
The section “Protections to Minimize Risk of Disclosure for Individual-Level Data” has more information on these new date variable suppressions for 2015-2017.

<table>
<thead>
<tr>
<th>CENTURY MONTH CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAN</td>
</tr>
<tr>
<td>1930</td>
</tr>
<tr>
<td>1931</td>
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<tr>
<td>1932</td>
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<tr>
<td>1968</td>
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<tr>
<td>1969</td>
</tr>
</tbody>
</table>
Other-Specify Coding

In the 2015-2017 NSFG, as in past surveys, a small number of questions contained items to which respondents could specify a response other than those provided, and this response was typed in verbatim by the interviewer. In most cases, these questions appear in the questionnaires with a “_SP” at the end of their variable name or a “SP_” at the beginning, and the question text and response type distinguish these as open-ended questions. These verbatim response variables are NOT included on the public-use files because of confidentiality concerns, but the essential information for data users has been coded in a manner that does not pose risk of disclosure. In all cases, responses that were clearly codable using a pre-specified category (one of the categories offered in the questionnaire and shown to respondents on a show card) were edited (or “back-coded”) into that pre-existing category. In a few instances, the responses were categorized, and a new variable was created that contained only these additional responses.

In summary, the actual verbatim responses for other-specify variables are not included in the public-use data files, but they have all been reflected in some way in the associated, closed-ended numeric variables that are included on the public-use file. Questions where new categories or new variables were created based on other-specify responses have a short description in a “Note” entry on their codebook page (see also Description of Codebooks further below). Please consult the questionnaires for further details on these questions with “other (specify)” options. Part 2 of the User’s Guide also includes specific information related to some of these items.

Recodes and Imputation
(also see Appendix 1 (File Indexes), Appendix 3 (Recode Specifications), and Appendix 4 (Recode Crosswalks))

In order to facilitate consistent, comparable estimates of key NSFG measures for all data users, NCHS produces a number of “recoded variables,” or “recodes” for each public-use file. Published NCHS reports use these recodes whenever available because they permit internally consistent and replicable estimates. NCHS also uses the recodes to prioritize the cleaning of the data file: there are too many variables in the data file to edit or reconcile them all, so NCHS focuses its cleaning and editing primarily on the recodes and on the variables that are used to construct the recodes. (Recodes comprise about 10% of the variables in these files.)

Some recodes are simple, while others are complex. Some recodes may simply be transferred from single questionnaire items and imputed if missing (for example, RCURPREG, whether respondent is currently pregnant). Other recodes are based on multiple questionnaire items and may involve more intricate logic to define (for example, CONSTAT1, the respondent’s current contraceptive status).

Before using the original data items or constructing their own summary variables, analysts are encouraged to check to see if a relevant recode exists. Many of the raw or computed variables that have a recode corresponding to them will have a note on their Webdoc codebook pages stating the name of the appropriate recode.
For convenience, below is a list of some commonly used recodes corresponding to background characteristics and other key NSFG variables. Unless otherwise indicated, the recodes are available for males and females.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGER</td>
<td>R’s age at interview</td>
</tr>
<tr>
<td>FMARITAL</td>
<td>Formal (legal) marital status</td>
</tr>
<tr>
<td>RMARITAL</td>
<td>Informal marital status</td>
</tr>
<tr>
<td>EDUCAT</td>
<td>Education (number of years of schooling)</td>
</tr>
<tr>
<td>HIEDUC</td>
<td>Highest completed year of school or highest degree received</td>
</tr>
<tr>
<td>HISPANIC</td>
<td>Hispanic origin, regardless of race</td>
</tr>
<tr>
<td>RACE</td>
<td>Race of respondent, regardless of Hispanic origin</td>
</tr>
<tr>
<td>HISPRACE</td>
<td>Race and Hispanic origin – based on 1977 OMB guidelines</td>
</tr>
<tr>
<td>HISPRACE2</td>
<td>Race and Hispanic origin – based on 1997 OMB guidelines</td>
</tr>
<tr>
<td>INTCTFAM</td>
<td>Intact status of childhood family</td>
</tr>
<tr>
<td>PARAGE14</td>
<td>Parental living situation at age 14</td>
</tr>
<tr>
<td>EDUCMOM</td>
<td>Mother's (or mother-figure's) education</td>
</tr>
<tr>
<td>AGEMOMB1</td>
<td>Age of mother (or mother-figure) at first birth</td>
</tr>
<tr>
<td>METRO</td>
<td>Place of residence (metropolitan-nonmetropolitan)</td>
</tr>
<tr>
<td>RELIGION</td>
<td>Current religious affiliation</td>
</tr>
<tr>
<td>LABORFOR</td>
<td>Labor force status</td>
</tr>
<tr>
<td>POVERTY</td>
<td>Poverty level income</td>
</tr>
<tr>
<td>TOTINCR</td>
<td>Total income of R’s family</td>
</tr>
<tr>
<td>PUBASSIS</td>
<td>Whether R received public assistance in the calendar year before the interview</td>
</tr>
<tr>
<td>HADSEX</td>
<td>Whether R has ever had sexual intercourse with opposite sex</td>
</tr>
<tr>
<td>VRY1STAG</td>
<td>Age at first intercourse</td>
</tr>
<tr>
<td>VRY1STSX</td>
<td>Date (century month) of first intercourse</td>
</tr>
<tr>
<td>CONSTAT1</td>
<td>Current contraceptive status (females only)</td>
</tr>
</tbody>
</table>

Besides the above list, other sources to check are the File Indexes in Appendix 1 or the Recode Specifications in Appendix 3 to see if a relevant recode exists. If you want to see whether there are comparable recodes between males and females or across NSFG data years, Appendix 4 contains 3 crosswalks for this purpose:

- Appendix 4a: recodes for males and females in 2015-2017 NSFG (arranged by topics)

The frequency of missing values for the recoded variables in 2015-2017 is quite low, just as it was in past files. Cases that have missing data on a recode (i.e., their values could not be constructed from the source variables referenced in the recode specifications) have been imputed.
Most missing recode values were assigned using regression imputation software in which multiple regression is used to predict a value for the case using other variables in the data set as predictors. Regression imputation follows the same logical constraints that are built into the original recode specifications. To the extent possible, imputed values are checked to ensure that the imputed values are within acceptable ranges, and are consistent with other recodes and other data reported by the respondent.

A smaller number of cases for some recodes were imputed using logical imputation, which involves NCHS staff examining variables related to the variable in question, and assigning a value that is consistent with those other variables.

**Imputation flag** variables were created for every recode, allowing users to determine whether the value for each case is based on reported data, or imputed data. They also indicate which kind of imputation was used. Each imputation flag has the following potential values:

- 0=Questionnaire data (not imputed)
- 1=Multiple regression imputation
- 2=Logical imputation

A value of 0 on the imputation flag means that imputation was not necessary; the reported questionnaire data were sufficient to determine an appropriate value on the recode. All values other than 0 indicate that the case was imputed for this recode. The process used for the 2015-2017 release is similar to that used in the prior release; the report hyperlinked below (for the 2013-2015 data) can be consulted for details:

- **Summary of 2013-2015 Design and Data collection**

As noted above, all recodes have been checked thoroughly against related data items and edited if necessary for consistency. Except when it was obviously incorrect, and involved critical or commonly used variable(s), actual reported information was never replaced by an imputed value. **NCHS recommends that analysts use all cases in the file, including those with recode values imputed.** Using weights and imputed cases will enable the analyst to replicate results that appear in NCHS reports. The impact of imputation on analyses can be examined by using the imputation flags to compare results with and without the imputed cases.

**Finding recodes in the data file and codebook:** As shown in Appendix 1 (File Indexes), the recodes and their imputation flags are clustered together near the end of each of the three data files. Recodes can be distinguished in the codebook documentation by the “Variable type” displayed on the codebook page between the variable name and the variable description. The word “recode” also appears at the end of the variable’s “question text” or short description.

**Protections to Minimize Risk of Disclosure for Individual-Level Data**

When NCHS collected data from respondents for the NSFG, those respondents were promised in the informed consent process that the information they provided would be kept confidential. NCHS is legally and ethically bound to keep that promise, both during fieldwork
and in the production of data files for public use, while still attempting to preserve the analytic value for those who support the collection and use of these data.

As with all NCHS data files provided for public use, the proposed NSFG public-use files for 2015-2017 were submitted to the NCHS Disclosure Review Board (DRB). Based on this intensive review, a significant number of additional variable suppressions and modifications, beyond those actions taken for previous NSFG public-use file releases, were deemed necessary to prevent disclosure of the identities of the respondents.

In brief, the disclosure risk protections taken for the 2015-2017 NSFG public-use files include the following, and unless otherwise indicated, replicate actions taken in earlier public-use file releases.

- All *directly* identifying information, including all names and addresses, has been eliminated from the public-use files. This information will **not** be available within the NCHS Research Data Center (RDC).

- The only geographic variable included on the public-use files is a 3-category METRO recode (principal city of Metropolitan Statistical Area (MSA), other MSA, not MSA).

- REGION of residence at time of interview, is available in the RDC for 2015-2017.

- New for 2015-2017, century month date values for key life events have been suppressed from the public-use files to prevent potential linkage or use with external data sources to identify survey respondents. These key life events include marriages, divorces, pregnancies, cohabitations, educational degrees, military service, and selected health services.

- Other variables on the files that could potentially be used to *indirectly* identify individuals have been suppressed or modified in some way, with particular attention to keeping categories that are substantively useful, and collapsing categories that were so small that they were of limited analytical use. In some cases, new variables have been created for public use based on suppressed or uncollapsed variables. For example:
  - The variable for Hispanic subgroup (HISPGRP) has been collapsed for public use, and the original variable with full detail is available only through the NCHS RDC.
  - The full household roster is only available through the NCHS RDC, and summary variables based on the household roster have been created for the public-use files.
  - New for 2015-2017, the public-use file includes only years of pregnancy conceptions and outcomes, with the century month dates available only through the NCHS RDC; four types of inter-pregnancy interval variables, in categorical form, have been created for public use.

Whenever variables have been suppressed, modified, or newly created for reasons of disclosure risk reduction, a note has been included in the online codebook, Webdoc (described in the next section). These notes are worded as follows, depending on the nature of the action taken:

For variables that have had values collapsed or categorized in some way, this note is included:
“This variable has been modified for public use, and the original variable is accessible by application to the NCHS Research Data Center. See Appendix 7 of the User's Guide for further information.”

For century month date variables, one of the following notes is included, based on whether the CM date variable is a recode or another computed variable:

“The month and century-month variables for this event have been suppressed for public use, but are accessible by application to the NCHS Research Data Center. See Appendix 7 of the User’s Guide for further information.”

“The year of this event is available for public use, and the original century-month variable is accessible by application to the NCHS Research Data Center. See Appendix 7 of the User's Guide for further information.”

For variables that have been created based on variables suppressed for public use, the following note is included:

“This variable has been created for public use, and the original source variable is accessible by application to the NCHS Research Data Center. See Appendix 7 of the User's Guide for further information.”

In addition to these codebook notes, the file indexes provided in Appendix 1 include an asterisk when a disclosure risk reduction action was taken for that particular variable.

As a final step to prevent identification of individual respondents, the values of some variables have been altered for a random subset of respondents through statistical perturbation. That is, some values in the data set are no longer the actual values reported by the respondents, resulting in greater uncertainty for anyone attempting to identify a particular individual they may know participated in the survey. However, these alterations, or statistical perturbations, were carefully designed to give analysts comparable statistical information as those obtained from the unaltered responses. In other words, it is unlikely that either national estimates or causal models are affected by any of the alterations, except for a slight increase in the variance of a few statistics.

Some of the variables suppressed from the public-use NSFG files, or variables that could not be included in their original form, are available to the research community through the NCHS RDC. The full list of these variables is provided in Appendices 7a and 7b, and further details on the specific modifications made to these variables are provided in Appendix 7c. As with all data files available through the NCHS RDC, these restricted-use data are made available to researchers under special arrangements that assure confidentiality and protection of the data. Researchers who wish to learn more about or apply for access to any of these NSFG files available through the RDC should first look at information provided on the RDC website (www.cdc.gov/rdc), and then contact either the NSFG staff at nsfg@cdc.gov or the RDC at rdca@cdc.gov.
DESCRIPTION OF CODEBOOKS

Overview

Codebooks for the NSFG provide essential information for each variable included in the public-use files. The elements of the codebook, such as variable type and universe statements, are described further below.

Webdoc is a web-based tool that permits online, interactive access to the NSFG codebooks and allows easy access to all variables, quick navigation between different sections of the instrument (through hyperlinks and through menu-like lists of data files, sections and series), and searching for specific words or phrases or for specific variables. For recoded variables, direct links are provided to the recode specifications. These recode specifications are the same as those provided in Appendices 3a-3c on the NSFG webpage.

To generate an excerpt for specific sections or subsections of the codebook use the hyperlink at the bottom of the screen that says “Create codebook for <Section/Subsection>.” The resulting file can be saved in PDF, printed, or simply viewed on the screen. For example, at the bottom of the Webdoc page listing the variables in sub-section, “Sterilization Operations (DA)” if you click on Create codebook for (DA) Sterilization Operations, a screen with just the variables in the DA series from Female Section D is created.
Below is an example page from Webdoc displaying the detailed codebook information for the raw variable (and question) AD-7b MARSTAT. The specific elements of the codebook are described further below.

**Elements of the Codebook Entry for Each Variable**

Each variable in the public-use files is represented in the codebook documentation with a page or entry containing all of these elements, which are described in turn below:

- Variable name
- Variable type
- Column locations
- Question text
- Universe statement
- Response categories and unweighted frequencies
- Link to recode specifications, where applicable
- Notes, where applicable
Variable Name:

For raw and computed variables, the variable name corresponds in most cases exactly to the question or computed variable name that appears in the CAPI Reference Questionnaire (CRQ). (For example, in the Webdoc screen capture above, the variable name and question name are the same – MARSTAT.) Recode and intermediate variable names correspond to those found in the recode specifications (Appendix 3). Throughout the codebook documentation and in the recode specifications, raw and recode variables are in uppercase and computed variables are in lowercase. In some cases where questions or variables are applicable for “loops” or “arrays” (such as pregnancies, marriages, months of the year, mentions for “enter all that apply” questions, etc.), then the variable names seen in the CRQ will have numeric suffixes attached. For example, BD-8 PAYBIRTH in the CRQ for Female Section B is the question asking how the delivery costs were paid for this child’s birth, and respondents could select all options that applied. In the 2015-2017 pregnancy file, women reported no more than 3 forms of payment for their deliveries although space was allowed for 5 mentions, so the file includes 3 variables for those 3 mentions in PAYBIRTH1-3, and this information is noted in the variable labels and question text also.

Variable Type:

On the codebook page for each variable, underneath the variable name, is “Variable Type.” There are four basic variable types included in the NSFG files -- “raw,” “computed,” “recode,” or “intermediate”:

- A **raw** variable refers to a question that was asked during the interview (the majority of variables in the data files are raw). (For example, in the Webdoc screen capture above, AD-7b MARSTAT is labeled as a raw variable.)
- A **computed** variable is a variable that is either computed as part of the Blaise-programmed survey instrument or constructed in post-processing after data collection, from one or more raw variables. Computed variables do not have missing values imputed.
- A **recode** variable is a constructed variable created after the data are collected, from one or more raw variables, and has missing values imputed.
- An **intermediate** variable is one defined in the specifications for certain recodes. These are sometimes included in the public-use data files because they can be useful for analysts. It differs from a “computed” variable because it is neither constructed during the interview, nor is it defined solely as a post-processing variable. Intermediate variables are defined in the process of constructing a recode. They are very few in number.

Column Locations:

Next to each variable name, the codebook page gives the column locations in parentheses. (For example, in the Webdoc screen capture above, the column location for MARSTAT is 28 on the female respondent file.)
Question Text:

Question text is either the actual question wording for a raw, asked question in the interview or the description of a computed, recode, or intermediate variable. The wording of the survey question is shown in the codebook for “raw” variables and is preceded by the question number. Any question wording variants are presented, sometimes in collapsed form. For computed variables (computed as part of the programmed survey instrument or in post-processing), the “question text” is the same as the variable’s short description seen in the File Indexes (Appendix 1), except that the “Flow Check” number has been included from the CAPI Reference Questionnaire (CRQ) where the computed variable was defined. For example, “(Computed in Flow Check E-13b)” indicates that the variable is defined in Section E, Flow Check E-13b. CRQs can be consulted to see these flow checks and the specifications for defining each computed variable. For recodes and intermediate variables (variables not represented in the questionnaires), the question text corresponds to the variable’s short description from the Recode Specifications (see Appendix 3).

When variables are part of an array or loop, the question text on the codebook page indicates what is being referenced, just as the variable descriptions do in the File Indexes (Appendix 1). For example, the question text for male CG-5 CWPCHSEX2 makes clear that the variable applies to the second biological child the respondent had with his current wife or cohabiting partner.

Universe Statements (“Applicable Specifications”):

In the codebook documentation, the “applicable specifications” or “universe statement” for a variable indicates which respondents were asked the question or had the variable defined for them. If a question was not applicable to a particular respondent, the questionnaire program skipped to the next applicable question. If a question was not skipped by any respondent or the variable was assigned a non-blank value for every case, the universe statement says, “Applicable for all respondents” or for the pregnancy file, “Applicable for all pregnancies.” (For example, see Webdoc screen capture for AD-7b MARSTAT above.)

Cases with inapplicable values on any variable are coded as blank or “system missing.” Some computer programs such as SAS and Stata read a blank as a non-numeric character (a dot) or system missing” value, but others may read it as a zero. Analysts using statistical packages other than SAS or Stata should take care to distinguish between missing values and zeroes in programs used with these data because zeroes are often valid values on NSFG variables.

For many variables in the NSFG files, an abridged version of the complete universe statement is provided with the core routing information. These variables have nested routing statements, and for these variables, the most proximate routing statement will be described in the universe statement. Since the universe statement contains the variable(s) that determined the routing into that question, users can trace back through the routing logic, that is, go to each preceding variable to see its routing statement and continue until the universe statement reads, “Applicable for all respondents.”

For example: the question EA-12 ECTTIMESX in the female questionnaire reads, “How
many different times have you used emergency contraception?” It was asked of those who had ever used emergency contraception. Thus, EA-11 MORNPILL (“whether R ever used emergency contraception”) is included in the universe statement for EA-12 ECTIMESX, and hyperlinked. Clicking on this variable takes you to the codebook page for EA-11 MORNPILL. MORNPILL was only asked of those who had ever had sex, so its universe statement contains the computed variable for ever had sex: “rhadsex.” Clicking on this takes you to the page for this computed variable, which is “applicable for all respondents.”

All public-use file variables referenced in the universe statements are hyperlinked in Webdoc (see description above) so that users can go directly to their codebook pages. The variable names will not be hyperlinked in any PDF file generated from Webdoc, but users should still find it straightforward to find the relevant codebook entries for variables referenced in the universe statement. To make this easier to locate these variables, recall that question numbers precede the names of all raw variables. Also, the names of computed variables appear in lower case, and the names of raw variables and recodes appear in upper case. If a universe statement references variables that are not included on the public-use file those variables are not hyperlinked.

In addition to consulting the universe statement or “applicable specification” in the codebook documentation, you may also wish to consult:

- The CAPI Reference Questionnaire (CRQ; see section below entitled “Description of Questionnaires”), which contains more detailed specifications for the questionnaire. The universe statements for the computed variables are drawn from the Flow Checks in which the variables are defined. For the raw/asked variables as well as the computed variables, the questionnaires allow you to examine the sequencing and context of your variables of interest.

- The recode specifications (Appendix 3), which are the source for the universe statements included in the codebook, and also for the full details on how the recode was constructed and imputed.

**Response Categories and Unweighted Frequencies:**

For categorical variables and several continuous variables in the NSFG, the codebook documentation lists all values, as long as there are any cases with those values in the data files, with descriptive value labels and unweighted frequencies (or counts of cases). For example, if no one responded “don’t know” to a particular item, the “don’t know” value will not be displayed in the codebook. To the extent possible, the exact wording of the questionnaire response choices is shown (for example, see Webdoc screen capture for AD-7b MARSTAT above). Frequencies of variables that are not applicable for all respondents include the number of “inapplicable” cases. Most century month (date) and continuous variables have been collapsed for display purposes into more manageable groups, such as grouping individual century months into ranges of years. The original values of these variables are intact in the file unless otherwise indicated. Response categories are not displayed unless at least 1 case reported such a response, and this also applies to “refused” (8, 98, etc.), “don’t know” (9, 99, etc.), and “not ascertained” (7, 97, etc.) responses.
Link to recode specifications:

For every recode variable, there is a direct link in Webdoc to the specification for that recode in Appendix 3. These hyperlinks will not be active in any generated PDF files for the codebooks.

Notes:

For selected variables, the codebook page will show a note with further information. The primary reasons for these notes are to indicate when there is a relevant recode that you should use (see note pointing to the RMARITAL recode in the Webdoc screen capture for AD-7b MARSTAT above), to describe special circumstances related to the response categories (for example, see female HE-4 PLCHIV), or to indicate any disclosure risk reduction actions taken for this variable (described earlier in “Protections to Minimize Risk of Disclosure for Individual-Level Data”). Some notes also contain a reference to this User’s Guide, Part 2, if there is further information the user may find helpful when using the variable.

DESCRIPTION OF QUESTIONNAIRES

The NSFG webpage provides the male and female questionnaires in two formats, with different levels of detail:

-- CAPI-Lite format
-- CAPI Reference Questionnaire (CRQ) format

Both formats represent the basic content and routing of the full NSFG interviews, including the computer-assisted personal interviews (CAPI) administered by interviewers and the audio computer-assisted self-interviews (ACASI) that respondents completed on their own. However, each format of the questionnaire offers users a different level of detail on how the interview was conducted.

CAPI-Lite Format

The male and female interviews are shown in their entirety, but with abridged representations of the question wording variants and shorter descriptions of skip patterns through the interview. With this format, the emphasis is on getting a clear picture of how the questions were asked, in what order, and of which respondents, without showing every detail that was needed to program the questionnaire.

CAPI Reference Questionnaire (CRQ) Format

The CRQ shows all the detailed specifications that were used to program the NSFG questionnaires in Blaise Survey Software (see http://www.blaise.com/). While the entire female and male CAPI-Lites are contained in two PDF documents, the considerably longer CRQs are provided on the NSFG webpage as separate PDF files corresponding to each section of the questionnaire.
• All question wording variants are shown, along with the conditions defining when each variant should be used.

• “Flow Checks” specify the precise routing through the interview based on earlier questionnaire items so that the appropriate next questions for a particular respondent appear onscreen. In addition, in some instances flow checks include the creation of new variables from one or more of the “raw” or “asked” variables. These are called "computed variables” and are described in other sections of the User's Guide (see Description of Codebook, “Variable Type”). The flow check specifies in detail how these computed variables were defined. A summary list of computed variables defined in each questionnaire section can be found at the beginning of each section’s CRQ, and those that are “passed forward” to be used for routing later in the interview are listed at the end of each section’s CRQ.

• “Edit Checks,” programmed into the instrument, attempt to catch and resolve data inconsistencies during the interview, rather than requiring resolution after data collection has ended. These consistency checks are generally located in the CRQ after the questions they are intended to reconcile. They are generally scripted for ease of use, and enable the interviewer to return to specific questionnaire items and correct them, if necessary. See also the User’s Guide section on Data Preparation for Public Use, “Logical Inconsistencies and Out-of-Range Values.”

• Use of additional survey aids, such as Show Cards, Help Screens, and the Life History Calendar (female interview only), are noted on individual questionnaire items. For example, if a question-specific help screen was available for an item, the CRQ indicates “[HELP AVAILABLE].” If the item’s response choices were to be shown on a Show Card in the interviewer’s show card booklet, the CRQ indicates the number of the show card along with the response categories. Also shown are the onscreen instructions for interviewers that accompanied many of the questions. An example of the Life History Calendar is shown on the next page. The version shown is for interviews conducted in 2017. Since the female interview includes a greater number of questions about dates and the relative timing of events than the male interview, the Life History Calendar was only used in the female interview. The Life History Calendar has been shown to improve recall of dates by anchoring responses to key life events for the respondent.
# National Survey of Family Growth: Life History Calendar

<table>
<thead>
<tr>
<th>Before 2014</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ja</td>
<td>Fe</td>
<td>Ma</td>
<td>Ap</td>
</tr>
<tr>
<td><strong>Your Age</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Births &amp; Other Pregnancies</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Marriages, Cohabs, Partners</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Intercourse</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Birth Control Methods</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Your Date of Birth: ___________  Date of First Intercourse: ___________

### Birth or Pregnancy Ending Dates:

1st: ___________  2nd: ___________  3rd: ___________  4th: ___________  5th: ___________
USER SUPPORT

Most commonly asked questions about the NSFG are addressed in the “Frequently Asked Questions” included in this User’s Guide in Appendix 6 and throughout the main text of this User’s Guide. If, however, you have reviewed this Guide and its appendices thoroughly and you still have a question, please contact the NSFG team:

By email: NSFG@cdc.gov
By phone: (301) 458-4222

ACKNOWLEDGMENTS

As noted in the survey background section above, the NSFG has been designed, administered, and disseminated by the National Center for Health Statistics since 1973, in collaboration with several other agencies of the U.S. Department of Health and Human Services (DHHS). (NCHS became part of CDC in 1987.) The 2015-2017 NSFG was jointly planned and funded by the following agencies within the DHHS:

- CDC’s National Center for Health Statistics (NCHS)
- Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
- Office of Population Affairs (HHS/OPA)
- Office on Women’s Health (HHS/OWH)
- Children’s Bureau of the Administration for Children and Families (ACF/CB)
- Office of Planning, Research, and Evaluation within ACF (ACF/OPRE)
- CDC’s Division of HIV/AIDS Prevention (DHAP)
- CDC’s Division of STD Prevention (DSTDP)
- CDC’s Division of Adolescent and School Health (DASH)
- CDC’s Division of Cancer Prevention and Control (DCPC)
- CDC’s Division of Nutrition, Physical Activity and Obesity (DNPAO)
- CDC’s National Center for Birth Defects and Development Disabilities (NCBDDDD)
- CDC’s Division of Reproductive Health (DRH)

The NSFG team at NCHS holds primary responsibility for all aspects of the survey design, public-use file and documentation preparation, and data dissemination as well as published reports and key statistics on the NSFG webpage. The NCHS NSFG team works closely with the contractor on the sample design and data collection for the survey. Fieldwork for the 2015-2017 NSFG was conducted under contract with the University of Michigan’s Institute for Social Research (ISR) (Contract # 200-2010-33976) covering the survey data collection for 2011-2019.

An adequate acknowledgment of all those who made contributions at NCHS and at ISR to the design, conduct, and production of the 2015-2017 NSFG public-use files would require several pages. This brief acknowledgment will only name those who made major contributions.
The NCHS NSFG team is comprised of Anjani Chandra (NSFG Team Lead and Principal Investigator), Joyce Abma (Contracting Officer Representative for contract with ISR), Gladys Martinez, Kimberly Daniels, Isaedmarie Febo-Vazquez, Colleen Nugent, and Chinagozi Ugwu. Jill Daugherty was part of the team until 2016 and Casey Copen until 2018. Further consultation on other statistical matters at NCHS was provided by Van Parsons, Yulei He, and Hee Choon Shin of the Division of Research and Methodology. During the survey period of the 2015-2017 NSFG, NCHS was under the direction of Charles J. Rothwell. The NSFG team at NCHS is housed within the Reproductive Statistics Branch (RSB) in the Division of Vital Statistics (DVS) at NCHS. Delton Atkinson was Division Director for DVS until September 2018, followed by Steven Schwartz. Amy Branum was Branch Chief for RSB until December 2016 followed by Paul Sutton as acting Branch Chief. Hanyu Ni is the Associate Director for Science for DVS.

Key NSFG contract personnel at University of Michigan’s ISR, with their NSFG project roles in parentheses, include Mick Couper (Project Director), William G. Axinn (Deputy Project Director), Heidi Guyer (Field Director/Operations Manager), James Wagner (Senior Mathematical Statistician), Peter Granda followed by Trent Alexander (Director of Data Processing), and William Connett (Director of Information Security). Other significant contributors at ISR include Michael Shove, Stephanie Windisch, Karl Dinkelmann, Maureen O’Brien, Brady West, Patricia Berglund, Heather Schroeder, and Nancy Oeffner.

NCHS is grateful for the support and contributions of all those noted above, as well as the more than 100,000 NSFG survey respondents since 1973 who have given their time and energy to provide quality information for the survey.

**Suggested Citation for NSFG Public-Use Data and Documentation**

As part of the federal statistical system, NCHS supports the dissemination of the NSFG public-use data and documentation files at no charge to the public, and users in all research settings are encouraged to work with these data. NCHS appreciates citation when submitting research grant proposals or publishing their analyses because it will alert their audiences to the source of the data.

USER’S GUIDE PART 2: TOPIC-SPECIFIC NOTES FOR ANALYSIS

In addition to these topic-specific notes, users can find information about NSFG questionnaire changes made between 2013-2015 and 2015-2017 in Appendix 5.

ABORTION UNDER-REPORTING AMONG FEMALES

Abortions have always been under-reported in the NSFG and virtually all other demographic surveys. This has been determined by comparing NSFG weighted estimates of abortions with external data from abortion providers. The User’s Guides of prior NSFG file releases show the percentages of underreporting based on these comparisons for past file releases (see for example, the User’s Guide for 2011-2013 NSFG). For the 2015-2017 NSFG, comparing pregnancies ending in abortion reported in 2010-2014 with the number of abortions in the Guttmacher Abortion Provider Census, shows that approximately 35% of abortions were reported. As in previous surveys, the NSFG staff advises NSFG data users that, generally speaking, NSFG data on abortion should not be used for substantive research focused on the determinants or consequences of abortion. The NSFG abortion data can be used for:

(1) methodological studies of factors affecting abortion reporting.
(2) studies of contraceptive efficacy, but only after the data are adjusted for the under-reporting of abortion.

BIRTH REPORTING AMONG FEMALES

This table shows a comparison of NSFG-based estimates of births occurring in 2010-2014, relative to births registered through the vital records system in the United States for those same years. These figures are based on births reported by all female respondents in the 2015-2017 NSFG. The NSFG-based estimates are constructed from all births reported over a period of five years to increase the statistical reliability of the estimates. (The number of births or pregnancies reported in any single calendar year by NSFG respondents would yield sampling errors too high to produce reliable estimates. Users are advised to combine multiple years when analyzing these data.) To make the NSFG estimates comparable to vital records, births are excluded if reported by non-U.S.-born NSFG respondents that occurred before they came to the U.S. to stay. Births reported in vital records are also limited to those occurring to women age 49 or younger, in order to be comparable to the NSFG age range.
### Number of births estimated for 2010-2014, based on the 2015-2017 NSFG and vital records

<table>
<thead>
<tr>
<th></th>
<th>Number of births from NSFG</th>
<th>95% confidence interval</th>
<th>Vital records 1/</th>
<th>Ratio of NSFG/ Vital records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total, 2010-2014 2/</td>
<td>19691</td>
<td>16748-22634</td>
<td>19823</td>
<td>0.99</td>
</tr>
<tr>
<td><strong>Year of birth</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>4509</td>
<td>3661-5358</td>
<td>3987</td>
<td>1.13</td>
</tr>
<tr>
<td>2013</td>
<td>3867</td>
<td>2900-4434</td>
<td>3932</td>
<td>0.93</td>
</tr>
<tr>
<td>2012</td>
<td>3953</td>
<td>3200-4705</td>
<td>3952</td>
<td>1.00</td>
</tr>
<tr>
<td>2011</td>
<td>3847</td>
<td>2981-4713</td>
<td>3953</td>
<td>0.97</td>
</tr>
<tr>
<td>2010</td>
<td>3715</td>
<td>2893-4536</td>
<td>3999</td>
<td>0.93</td>
</tr>
<tr>
<td><strong>Hispanic origin and race</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic or Latina</td>
<td>4291</td>
<td>3236-5345</td>
<td>4586</td>
<td>0.94</td>
</tr>
<tr>
<td>Not Hispanic or Latino</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>11160</td>
<td>8718-13603</td>
<td>10720</td>
<td>1.04</td>
</tr>
<tr>
<td>Black or African American</td>
<td></td>
<td></td>
<td>2928</td>
<td>0.95</td>
</tr>
<tr>
<td><strong>Marital status at birth</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Married</td>
<td>11888</td>
<td>9556-14220</td>
<td>11772</td>
<td>1.01</td>
</tr>
<tr>
<td>Unmarried</td>
<td>7003</td>
<td>6682-9924</td>
<td>6051</td>
<td>0.97</td>
</tr>
<tr>
<td><strong>Age at birth</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-19</td>
<td>1677</td>
<td>1281-2073</td>
<td>1525</td>
<td>1.10</td>
</tr>
<tr>
<td>20-24</td>
<td>4916</td>
<td>3974-5858</td>
<td>4573</td>
<td>1.07</td>
</tr>
<tr>
<td>25-49</td>
<td>13006</td>
<td>10787-16404</td>
<td>13707</td>
<td>0.96</td>
</tr>
<tr>
<td>25-29</td>
<td>5705</td>
<td>4459-6950</td>
<td>5651</td>
<td>1.01</td>
</tr>
<tr>
<td>30-39</td>
<td>6813</td>
<td>5337-8289</td>
<td>7474</td>
<td>0.91</td>
</tr>
<tr>
<td>40-49</td>
<td>578</td>
<td>332-823</td>
<td>582</td>
<td>0.99</td>
</tr>
<tr>
<td><strong>Birth order</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>8488</td>
<td>7151-9825</td>
<td>7849</td>
<td>1.08</td>
</tr>
<tr>
<td>2nd</td>
<td>6269</td>
<td>5315-7222</td>
<td>6245</td>
<td>1.00</td>
</tr>
<tr>
<td>3rd or higher</td>
<td>4934</td>
<td>3775-6093</td>
<td>5613</td>
<td>0.88</td>
</tr>
</tbody>
</table>

1/ Vital Records data from CDC Wonder Database available here: https://wonder.cdc.gov/ Limited to births occurring to women ages 49 and under.
2/ Includes births to persons of other race and origin groups, those of unknown or not stated birth order, and to women under 15 years of age, not shown separately.

NOTES: The Hispanic origin and race variable shown here is based on the 1977 OMB guidelines, in order to be able to compare to the available data in CDC WONDER for these years. For persons born outside the U.S. (50 states and D.C.), this table is limited to births occurring after they came to the United States to stay.

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**RELIGION DATA**

See the 2011-2013 User’s Guide notes on religion data in the NSFG, as no changes were made to these variables for 2015-2017 NSFG.
RESPONDENT'S RACE

Use of screener data for HISPANIC, HISPRACE, and HISPRACE2

The recode variables HISPANIC, HISPRACE, and HISPRACE2 were used in the adjustment of the sample weights to population totals by Hispanic origin and race (along with age and sex). For the 2015-2017 files, these weight adjustments were done prior to the regression imputation of recode variables so missing values needed to be assigned in another way. Information about Hispanic origin and race was logically imputed from screener information for these recodes.

Respondent’s race variables available on the public-use files

NSFG respondents were allowed to report as many racial categories as may apply to them. For those who reported more than one race, AC-4 RACEBEST asked them to identify the race that best describes them. For those who answered “don’t know” or “refused” on the race questions, AC-5 OBSERVE indicates how the interviewer classified the respondent’s race by observation. For the public-use file, all of these race variables, along with variables for Hispanic origin, were used to create:

- HISPANIC & RACE - 2 recodes that describe race or Hispanic origin
- HISPRACE & HISPRACE2 - 2 recodes that describe Hispanic origin and race

HISPRACE is the race and Hispanic origin recode that complies with the 1977 Office of Management and Budget (OMB) guidelines, in which multiple-race respondents are combined with single-race respondents. HISPRACE2 is the race and Hispanic origin recode that complies with the 1997 OMB guidelines, in which multiple-race respondents are separately classified.

See specifications in Appendix 3a (female) or 3c (male) for more detail on these 4 recodes. The original race variables are available in the RDC.

RACE AND HISPANIC ORIGIN OF SPOUSE OR PARTNER

While the OMB’s 1997 guidelines require all federal surveys to allow respondents to report multiple races whenever race is collected, the sample sizes of the NSFG do not permit inclusion of this level of detail on our public-use data files. For spouses and partners of the opposite-sex that are reported by male and female respondents in the interviewer-administered portion of the interview, the 2015-2017 public-use files include new, collapsed versions of the variables for Hispanic origin and race that are analogous to RACE and HISPRACE2, two recodes that describe respondents themselves. (Note: See “MALE FILE NOTES” for information on MALPRTHRACE, a variable describing race and Hispanic origin for the male respondent’s current or most recent male partner, as asked in ACASI.)

For females: these two variables were created for:
(a) each reported husband (if any, up to 4),
(b) the first cohabiting partner (if applicable),

Page 36 of 50
NSFG_2015_2017_UserGuide_MainText
(c) the current cohabiting partner (if applicable),
(d) the first(male) sexual partner ever (if not also a husband or cohabiting partner), and
(e) up to 3 current (male) sexual partners in the last 12 months (if applicable).

For males: The same pair of public-use variables was created from the more detailed information in the questionnaires. Since the marriage history information is collected differently, the variables for males were for:
(a) the current wife or cohabiting partner,
(b) the first wife (if she isn’t the current wife),
(c) the first cohabiting partner (if she isn’t the current one), and
(d) up to 3 current (female) sexual partners in the last 12 months (if he isn’t married or cohabiting).

All of the original, full-detail race and Hispanic origin variables that were used to define the variables for each of the listed spouses and partners in the table below are available through the RDC. These include (in order corresponding to the table above):
- Female variables: CB-8 HISPHX, CB-9 RACEHX, CB-10 BSTRACHX, CC-8 CPHISP, CC-9 CPRACE, CC-10 CPBESTR, CD-9 HISPCCX, CD-10 RACEXC, CD-11 BSTRACCCX, CG-7c FPHISP, CG-7d FPRACE, CG-7e FPRACEB, CI-14 P1YHISP, CI-15 P1YRACEB, CI-16 P1YRACEX
- Male variables: CB-3 CWPHISP, CB-4 CWPRACE, CB-5 CWPRACEB, EC-3 FWPHISP, EC-4 FWPRACE, EC-5 FWPRACEB, DD-15 PXHISP, DD-16 PXRACE, DD-17 PXBEST

<table>
<thead>
<tr>
<th>Type of partner</th>
<th>Section</th>
<th>RACE-equivalent variables</th>
<th>HISPRACE2-equivalent variables</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Women</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Husbands (up to 6)</td>
<td>Fem C</td>
<td>HSBRACE1-6</td>
<td>HSBNRACE1-6</td>
</tr>
<tr>
<td>Current cohabiting partner</td>
<td>Fem C</td>
<td>CURCOHRACE</td>
<td>CURCOHNRACE</td>
</tr>
<tr>
<td>First cohabiting partner</td>
<td>Fem C</td>
<td>COH1RACE</td>
<td>COH1NRACE</td>
</tr>
<tr>
<td>First sexual partner</td>
<td>Fem C</td>
<td>FSEXRACE</td>
<td>FSEXNRACE</td>
</tr>
<tr>
<td>Current sexual partners in last 12 mos (up to 3)</td>
<td>Fem C</td>
<td>P1YRACE1-3</td>
<td>P1YNRACE1-3</td>
</tr>
<tr>
<td><strong>Men</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current wife or cohabiting partner</td>
<td>Male C</td>
<td>CWPRACE</td>
<td>CWPNRACE</td>
</tr>
<tr>
<td>Current sexual partners in last 12 mos (up to 3)</td>
<td>Male D</td>
<td>P1YRACE1-3</td>
<td>P1YNRACE1-3</td>
</tr>
<tr>
<td>First wife</td>
<td>Male E</td>
<td>WIF1RACE</td>
<td>WIF1NRACE</td>
</tr>
<tr>
<td>First cohabiting partner</td>
<td>Male E</td>
<td>COH1RACE</td>
<td>COH1NRACE</td>
</tr>
</tbody>
</table>
Pregnancy-related variables computed in post-processing

Due to the suppression of century month dates of pregnancies 2015-2017, the following 7 pregnancy-related categorical variables were created for inclusion on the female respondent public-use file. If any other variations of these variables are needed or if your research requires more precise information on inter-pregnancy intervals than these categorical variables provide, you must seek access to the century month dates of pregnancies in the NCHS RDC (see “Protections to Minimize Risk of Disclosure of Individual-Level Data” in Part 1 of this User’s Guide, as well as Appendix 7, for further details). For further information on the construction of these variables contact nsfg@cdc.gov.

PREG_INT1-4 (Inter-pregnancy interval variables):

- **PREG_INT1**: Inter-pregnancy interval (in months) between 1st live birth and 2nd pregnancy conception, regardless of outcome
- **PREG_INT2**: Inter-pregnancy interval (in months) between 2nd live birth and 3rd pregnancy conception, regardless of outcome
- **PREG_INT3**: Inter-pregnancy interval (in months) between most recent pregnancy conception and prior live birth
- **PREG_INT4**: Inter-pregnancy interval (in months) between most recent pregnancy conception and prior pregnancy end date, regardless of outcome

**BIRTH1**: This new yes/no variable indicates whether the respondent had a birth in the last 12 months.

**LSEXPREG**: This new yes/no variable indicates whether the respondent was pregnant in the month of last sexual intercourse in the last 12 months (LSEXDATE GE conception date) was added to the file.

**LASTPREG**: This new categorical variable indicates how recent the respondent’s last pregnancy was: less than 1 year ago, 1 to 5 years ago, or 5 years or longer ago.

**Section C: Computed variables P1YRELP, P1YRELP2, P1YREPL3**

The purpose of these Blaise-computed variables is to capture the type of relationship with up to 3 sexual partners in the past 12 months previously mentioned in the interview: a current or former spouse, a current or former cohabiting partner, or a first sexual partner. Response category “20” for “None of the above” did not include all respondents who had a sexual partner in the past 12 months, but only those respondents who had ever married or cohabited with a partner but the sexual partner in the past 12 months was not previously mentioned. For cases who were missing on P1YRELP, P1YRELP2 or P1YREPL3 because they had more than 1 sexual partner in their lifetime, they had never married or cohabited, but had at least 1 sexual partner in the past 12 months who was not a previously mentioned partner: users can reassign
these cases from missing to code 20 to create variables applicable for all female respondents who had sexual intercourse in the past 12 months. The number of cases matching the criteria for being reassigned are: P1YRELP – 470; P1YRELP2 – 173; P1YRELP3 – 58.

Section D: Computed variable ANYMSTER

The purpose of the Flow Check D-7 is to compute whether R’s current husband or cohabiting partner has had a sterilizing operation regardless of later reversal. This flow check specifies that cases with WHATOPSM=2 should be set to ANYMSTER=1 (yes). In the 2015-2017 file there were 10 cases with WHATOPSM eq 2 but ANYMSTER was set to no. It was decided to make no edits to these ten cases. Data users should be aware that there will be some discrepancies in subsequent variables or questions.

Section E: Other-specify responses to EA-14 OTHRMETH (EA-15 SP_OTHRMETH)

EA_15 SP_OTHRMETH captures open-ended responses from respondents who chose “other method” ever used on EA-14 OTHRMETH. If the response was not among the methods already asked about in the EA series, it can be found in a new variable or variables (since EA-14 is ‘Enter all that apply’) created for this purpose: “NEWMETH.” If the response was a method that was already asked about it was coded onto the earlier question for that specific method in the EA series. Responses that appeared too infrequently to code separately are coded: “4” on NEWMETH: “Other method, not shown separately.”

Section E: Open-ended questions for reasons for discontinuing specific contraceptives

The following variables in the EA series are a result of coding responses to open-ended questions (3 questions for each of 4 methods).

STOPPILL1-STOPPILL6
STOPCOND1-STOPCOND2
STOPIUD1-STOPIUD5

The open-ended follow-up questions were triggered based on certain responses to the following variables: EA-18 REASPILL, EA-19 REASCOND, EA-21a REASIUD. In cases where the verbatim response matched an already-existing category on one of these closed-ended questions, they were coded as that category on that variable. Verbatim responses that did not appear in sufficient numbers were collapsed into “Other side effects” and “Other – (Too few cases, not classifiable elsewhere).”

Section E: EA-21 TYPEIUD

The question was asked in 2011-2013 as well but only one response was allowed. Beginning with the 2013-2015 data, it was changed to “code all that apply” so multiple responses were allowed. Users who wish to combine 2011-2013 with later data files for this variable should note that responses are captured in both TYPEIUD_1 and TYPEIUD_2 in the 2013-2015 and 2015-
2017 data.

Section E: ED Series, monthly contraceptive method history variables, METHX1-METHX192

Similar to past cycles, the ED series captures contraceptive method(s) the respondent used each month, for the time period from January, three years prior to the interview date, through interview date. For example, for interviews done in September 2015, the series collects method use information from January 2012 through September 2015. Variables for up to 4 methods for each month are saved on the data file. Therefore, variables containing these contraceptive methods range from “METHX1 through METHX192” (4 variables/methods per month, for up to 4 years, or 48 months.). With continuous interviewing, the number of calendar years spanned by the method calendar continues to increase. The output from this series was designed to remain the same number of month/year “cells,” despite this accumulation of actual calendar years. Each respondent’s particular window of 3+ years depends on the date they were interviewed. The following table displays the correspondence between calendar month and year and the ED contraceptive variable names and how this depends on date of interview, or cmintvw.

For convenience, two sets of frequently-used computed variables based on the method calendar are included in the female respondent data file.

currmeth1 - currmeth4: the method(s) the respondent used in the month of interview.
lstmonmeth1 - lstmonmeth4: the method(s) the respondent used in the month before interview.
If interview year is **2015** (cmintvw=1389 (**September**) through 1392), the variable names correspond to months/years as below:

<table>
<thead>
<tr>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>METHX1-4</td>
<td>METHX5-8</td>
<td>METHX9-12</td>
<td>METHX13-16</td>
<td>METHX17-20</td>
<td>METHX21-24</td>
<td>METHX25-28</td>
<td>METHX29-32</td>
<td>METHX33-36</td>
<td>METHX37-40</td>
<td>METHX41-44</td>
</tr>
<tr>
<td>2013</td>
<td>METHX49-52</td>
<td>METHX53-56</td>
<td>METHX57-60</td>
<td>METHX61-64</td>
<td>METHX65-68</td>
<td>METHX69-72</td>
<td>METHX73-76</td>
<td>METHX77-80</td>
<td>METHX81-84</td>
<td>METHX85-88</td>
<td>METHX89-92</td>
</tr>
</tbody>
</table>

If interview year is **2016** (cmintvw=1393 through 1404), the variable names correspond to months/years as below:

<table>
<thead>
<tr>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>METHX1-4</td>
<td>METHX5-8</td>
<td>METHX9-12</td>
<td>METHX13-16</td>
<td>METHX17-20</td>
<td>METHX21-24</td>
<td>METHX25-28</td>
<td>METHX29-32</td>
<td>METHX33-36</td>
<td>METHX37-40</td>
<td>METHX41-44</td>
</tr>
<tr>
<td>2014</td>
<td>METHX49-52</td>
<td>METHX53-56</td>
<td>METHX57-60</td>
<td>METHX61-64</td>
<td>METHX65-68</td>
<td>METHX69-72</td>
<td>METHX73-76</td>
<td>METHX77-80</td>
<td>METHX81-84</td>
<td>METHX85-88</td>
<td>METHX89-92</td>
</tr>
</tbody>
</table>

If interview year is **2017** (cmintvw=1405 through 1413 (**September**)), the variable names correspond to months/years as below:

<table>
<thead>
<tr>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>METHX1-4</td>
<td>METHX5-8</td>
<td>METHX9-12</td>
<td>METHX13-16</td>
<td>METHX17-20</td>
<td>METHX21-24</td>
<td>METHX25-28</td>
<td>METHX29-32</td>
<td>METHX33-36</td>
<td>METHX37-40</td>
<td>METHX41-44</td>
</tr>
<tr>
<td>2015</td>
<td>METHX49-52</td>
<td>METHX53-56</td>
<td>METHX57-60</td>
<td>METHX61-64</td>
<td>METHX65-68</td>
<td>METHX69-72</td>
<td>METHX73-76</td>
<td>METHX77-80</td>
<td>METHX81-84</td>
<td>METHX85-88</td>
<td>METHX89-92</td>
</tr>
</tbody>
</table>
Section F: Mapping of family planning variables

In female Section F, women are asked about a set of 14 different possible services they could have received in the past 12 months. For each service received, the following information is gathered specific to that service: type of provider, whether that provider is the regular source of care, source of payment, etc. This table shows how the different variables are mapped by the type of service received.

<table>
<thead>
<tr>
<th>Service received in last 12 months</th>
<th>Question number</th>
<th>Service variable name</th>
<th>Recodes</th>
<th>Provider</th>
<th>Regular source of care</th>
<th>Source of payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method Birth Control/Prescription</td>
<td>FA-1b</td>
<td>BTHCON12</td>
<td>FPTITBC</td>
<td>BC12PLCX2</td>
<td>REGCAR12_F_02</td>
<td>BC12PAYX7-12</td>
</tr>
<tr>
<td>Checkup for Birth Control</td>
<td>FA-1c</td>
<td>MDTST12</td>
<td>FPTITCHK</td>
<td>BC12PLCX3</td>
<td>REGCAR12_F_03</td>
<td>BC12PAYX13-18</td>
</tr>
<tr>
<td>Counseling About Birth Control</td>
<td>FA-1d</td>
<td>BCCNS12</td>
<td>FPTITCBC</td>
<td>BC12PLCX4</td>
<td>REGCAR12_F_04</td>
<td>BC12PAYX19-24</td>
</tr>
<tr>
<td>Sterilizing operation</td>
<td>FA-1e</td>
<td>STEROP12</td>
<td>FPTITSTE</td>
<td>BC12PLCX5</td>
<td>REGCAR2_F_05</td>
<td>BC12PAYX25-30</td>
</tr>
<tr>
<td>Counseling re Getting Sterilized</td>
<td>FA-1f</td>
<td>STCNS12</td>
<td>FPTITCST</td>
<td>BC12PLCX6</td>
<td>REGCAR12_F_06</td>
<td>BC12PAYX31-36</td>
</tr>
<tr>
<td>Emergency Contraception/Prescription</td>
<td>FA-1g</td>
<td>EMCON12</td>
<td>FPTITEC</td>
<td>BC12PLCX7</td>
<td>REGCAR12_F_07</td>
<td>BC12PAYX37-42</td>
</tr>
<tr>
<td>Counseling re Emergency Contraception</td>
<td>FA-1h</td>
<td>ECCNS12</td>
<td>FPTITCEC</td>
<td>BC12PLCX8</td>
<td>REGCAR12_F_08</td>
<td>BC12PAYX43-48</td>
</tr>
<tr>
<td>Pregnancy Test</td>
<td>FA-3a</td>
<td>PRGTST12</td>
<td>FPTITPRE</td>
<td>BC12PLCX9</td>
<td>REGCAR12_F_09</td>
<td>BC12PAYX49-54</td>
</tr>
<tr>
<td>Abortion</td>
<td>FA-3b</td>
<td>ABORT12</td>
<td>FPTITABO</td>
<td>BC12PLCX10</td>
<td>REGCAR12_F_10</td>
<td>BC12PAYX55-60</td>
</tr>
<tr>
<td>Pap Smear</td>
<td>FA-3c</td>
<td>PAP12</td>
<td>FPTITPAP</td>
<td>BC12PLCX11</td>
<td>REGCAR22_F_11</td>
<td>BC12PAYX61-66</td>
</tr>
<tr>
<td>Pelvic Exam</td>
<td>FA-3d</td>
<td>PELVIC12</td>
<td>FPTITPEL</td>
<td>BC12PLCX12</td>
<td>REGCAR2_F_12</td>
<td>BC12PAYX67-72</td>
</tr>
<tr>
<td>Prenatal Care</td>
<td>FA-3e</td>
<td>PRENAT12</td>
<td>FPTITPRN</td>
<td>BC12PLCX13</td>
<td>REGCAR2_F_13</td>
<td>BC12PAYX73-78</td>
</tr>
<tr>
<td>Post-Pregnancy Care</td>
<td>FA-3f</td>
<td>PARTUM12</td>
<td>FPTITPPR</td>
<td>BC12PLCX14</td>
<td>REGCAR2_F_14</td>
<td>BC12PAYX79-84</td>
</tr>
<tr>
<td>Counsel/test/treatment for STD</td>
<td>FA-3g</td>
<td>STDSVC12</td>
<td>FPTITSTD</td>
<td>BC12PLCX15</td>
<td>REGCAR2_F_15</td>
<td>BC12PAYX85-90</td>
</tr>
<tr>
<td>All services in one visit:</td>
<td>FA-4</td>
<td>NUMBCVIS=1 all in one visit</td>
<td>BC12PLCX</td>
<td>REGCAR12_F_01</td>
<td>BC12PAYX-BC12PAYX6</td>
<td></td>
</tr>
</tbody>
</table>

NSFG_2015_2017_UserGuide_MainText
Section J: JD-CONDVAG

Before this routing error in female ACASI was fixed early in year 5, there were 8 female teen respondents (aged 15-17) who had ever married, cohabited or had ever been pregnant who were skipped past CONDVAG and WHYCONDL. These cases were set to “not ascertained” for 2015-2017.

Section J: JI-3d/e FMINCDK4/FMINCDK5

Due to a routing error, 343 cases who reported “Don’t know” or “Refused” on FMINCDK1 also reported information on FMINCDK4-5. These cases were set to missing on FMINCDK4-5 for 2015-2017.

FEMALE PREGNANCY (INTERVAL) FILE NOTES

Section B (Pregnancy History) verification of key pregnancy data

In the 2015-2017 NSFG, as in past NSFG surveys, all female respondents were asked questions about each of the pregnancies they have had, whether current or completed (i.e., they have ended in live birth, induced abortion, or spontaneous pregnancy loss). They were asked to report these pregnancies in chronological order, starting with the first pregnancy, as this order is critical for later questions in the survey. However in every survey period, some women did not report them in this order. In 2015-2017, a similar approach was taken as in 2006-2010, 2011-2013, and 2013-2015 for sorting and correcting the pregnancy-specific information that women reported before moving beyond Section B, and it was used to improve both the accuracy and completeness of the pregnancy data.

- After each completed pregnancy loop, women were asked to confirm key data about the pregnancy in the BH-6 CNFMPREG question – specifically, the pregnancy outcome, end date, and gestational length. The question wording for CNFMPREG was tailored to the type of outcome. For example, if the pregnancy ended in a single live birth, women were asked:
  “This pregnancy ended in the birth of 1 baby named [first name or initials of baby]. This pregnancy lasted [X] months and [Y] weeks and ended in [baby’s month/year of birth]. Is this correct?”
  If the woman said “yes,” then the interviewer moved on the next pregnancy. If she said “no,” she was given a chance to correct any information on outcome, end date, and gestational length.

- After all pregnancies were looped through the pregnancy-specific questions, women were asked to verify the chronological order of all of their pregnancies (BI-2 CHKORDER). Any current pregnancy was assumed to be the most recent pregnancy. All of the information for a woman’s pregnancies was presented in a summary screen (see CAPI Reference Questionnaire for details), and she was shown a summary statement about each pregnancy, similar to BH-6 CNFMPREG above. At this point, the respondent was given the following choices:
  - Yes, pregnancies in order/everything is correct
  - No, pregnancies out of order

She could also volunteer at this point that something else was incorrect; for example, she may decide...
to add or delete a pregnancy. If she reported that her pregnancies are out of order, she was asked BI-8 FIXORDER to place them all in the correct order. If any other key information about her pregnancies was incorrect, she was guided through specific questions to correct the information on outcome, end date, and gestational length.

In any case, whether the respondent corrects any information or simply confirms that all is correct, new variables are created to hold the “corrected and chronologically sorted” pregnancy history data, or “CCSD” as the variable labels will indicate. These CCSD variables are passed forward to all later sections of the interview and are used in subsequent routing and consistency checks. The pregnancy order variable (PREGORDR) and recode for birth order (BIRTHORD) on the public-use file are both based on CCSD data.

The original variables as initially reported by the respondent and the CCSD computed variables, which generally end in “_s,” are included on the public-use file. For the vast majority of pregnancies reported by NSFG respondents, the CCSD variables are identical to the originally reported variables because no correction was needed.

The table below provides a crosswalk of the original variables, the CCSD variables, and the corresponding recodes on the pregnancy or respondent file. All of the CCSD variables listed are defined in Flow Check B-42d (see CAPI Reference Questionnaire, Female Section B for details). The Flow Checks (FC) where the other computed variables are defined is listed in the table. As indicated throughout this User’s Guide, it is best to use the official recodes when available, as they have had missing values imputed in a well-documented and consistent manner and will allow you to match your figures to published statistics. See Appendix 3a (female respondent) or 3b (pregnancy) recode specifications for further details. Also, the original century month dates for pregnancy conception and ending are available only through the NCHS RDC.

<table>
<thead>
<tr>
<th>File</th>
<th>Short Description</th>
<th>Originally Reported Variable</th>
<th>Corrected and Chronologically Sorted Data (CCSD)</th>
<th>Recode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resp</td>
<td>Number of pregnancies</td>
<td>BB-1 NUMPREGS</td>
<td>npregs_s</td>
<td>PREGNUM</td>
</tr>
<tr>
<td>Resp</td>
<td>Number of liveborn babies</td>
<td>numbabes (FC B-1)</td>
<td>nbabes_s</td>
<td>PARITY</td>
</tr>
<tr>
<td>Preg</td>
<td>Outcome of pregnancy</td>
<td>prgoutcome (FC B-42a)</td>
<td>outcom_s</td>
<td>OUTCOME</td>
</tr>
<tr>
<td>Preg</td>
<td>End date (year) of pregnancy</td>
<td>cmprgend (FC B-42a)</td>
<td>cmpendp_s</td>
<td>DATEND</td>
</tr>
<tr>
<td>Preg</td>
<td>Start date (year) of pregnancy</td>
<td>cmprgbeg (FC B-42a)</td>
<td>cmpbeg_s</td>
<td>DATECON</td>
</tr>
<tr>
<td>Preg</td>
<td>Number of babies born alive from this pregnancy</td>
<td>bornaliv (FC B-10)</td>
<td>nbrnLv_s</td>
<td>n/a</td>
</tr>
<tr>
<td>Preg</td>
<td>Gestational length in weeks</td>
<td>wksgest (FC B-13)</td>
<td>n/a</td>
<td>PRGLNGLTH</td>
</tr>
</tbody>
</table>
MALE FILE NOTES

Biological children men have fathered (as reported in CG, DH, ED, and FA Series and chronologically ordered in FC series):

In the male questionnaire, respondents were asked about their biological children within the context of questions about their relationship with the mothers of these children. Based on consultation with experts in surveys of men, this approach was considered to yield the most accurate reporting of men’s sexual, fertility, and contraception experiences. However, with this approach, raw questionnaire information on a biological child is located on the data files in the section where a man reported the child:

– In Section C if the child’s mother is his current wife or cohabiting partner
– In Section D if the child’s mother was his last sexual partner ever, or one of his 3 most recent partners in the last 12 months
– In Section E if the child’s mother was a former wife or his 1st cohabiting partner (and not a recent sexual partner)
– In Section F if the child’s mother was any other sexual partner not discussed in Sections C-E

In each of the “woman-specific” loops in Sections C-E and in Section F, space was allowed for up to 10 biological children to be reported – for example, up to 10 children could be reported with the current wife or cohabiting partner in Section C, up to 10 with each former wife reported in Section E. See exact numbers below for the reporting of biological children fathered across Section C-F among male respondents in the 2015-2017 NSFG:

- **Section C** – no respondent reported more than 7 children with his current wife or cohabiting partner

- **Section D** –
  - No more than 4 children reported with “P1” most recent partner
  - No more than 4 children reported with “P2” 2nd-most-recent partner in past year
  - No more than 5 children reported with “P3” 3rd-most-recent partner in past year

- **Section E** – no respondent reported more than 4 former wives in the 2015-2017 NSFG and:
  - No more than 5 children reported with “W1” 1st former wife
  - No more than 4 children reported with “W2” 2nd former wife
  - No more than 3 children reported with “W3” 3rd former wife
  - No children reported with “W4” 4th former wife
  - No more than 4 children reported with “1st Cohab Partner”

- **Section F** – no respondent reported more than 10 biological children in this section

To assist users who wish to analyze information on men’s biological children based on chronological order of birth, the male data file also includes selected variables derived from the section-specific biological child variables in Sections C-F. These chronologically ordered variables are located on the male file at the end of Section F questionnaire items. Each of the characteristics listed below, with the exception of BIOLIVNGnn, are arranged as arrays of 10 variables each in the 2015-2017 NSFG, as no male respondent reported more than 10 biological children.

The chronologically-based BIO child variables included on male file are:
- BIODOBn: Year of nth child’s birth
- BIOSEXn: Sex of nth child
- BIOAGEn: Age of nth child
- BIOAGEGPn: Age group of nth child
- BIOHHn: Whether nth child lives in same household with R
- BIOMOMn: R’s relationship to biological mother of this nth child (this array is defined based on what section of the questionnaire the child was reported in)
- BIOMARn: Whether R was married to nth child’s mother at time of child’s birth
- BICOHBN: Whether R was living with nth child’s mother at time of child’s birth (includes cohabiting or married)
- BIOLRNPGn: When R learned of the pregnancy (before or after child was born)
- BOLIVNGnn: Where child is living now (4 mentions for nth child, e.g., biolvng11 indicates the 1st mention for R’s 1st biological child; biolvng24 indicates the 4th mention for R’s 2nd biological child)
- BIOCHSIGn: If nth child born outside marriage: Whether R signed application for birth certificate or other paternity document
- BIOCHCRTn: If nth child born outside marriage: Whether R went to court to establish paternity
- BIOCHGENn: If nth child born outside marriage: Whether R established paternity by blood or genetic test
- BOLVEVRn: Whether R ever lived with nth child (if not living with child now)
- BIOHWFARn: How far away nth child lives (in miles) from respondent
- BIOWANTn: For nth child: Wantedness of the pregnancy by R right before it began
- BIOHSOONn: For nth child: Timing of the pregnancy right before it began
- BIOHOWSNn: For nth child: How much too soon did pregnancy occur.
- BIOHPYPGn: For nth child: R’s happiness about the pregnancy when he learned about it

The table on the next page illustrates how these chronologically arranged variables are derived from questionnaire items in Sections C-F. Please consult the codebook to see further details on universe statements and response categories for these variables or the male questionnaire CRQs for the precise wording and routing for each item in Sections C-F.

**In summary:**
These chronologically ordered variables are essentially identical in content to the source variables in Sections C-F. They are provided for the user’s convenience and hold no different values than the originally collected data in Sections C-F; they only arrange the information in a different (chronological) manner. Users whose primary goal is to examine data on men’s biological children in order of their birth may prefer to use these chronologically arranged variables. If, however, their primary goal is to examine men’s fertility in the context of their relationships with their children’s mothers and they wish to incorporate other variables describing those relationships, it may be easier or more appropriate to use the source variables in Sections C-F.
<table>
<thead>
<tr>
<th>Chronologically arranged BIO Variable</th>
<th>Brief Description</th>
<th>Section C source</th>
<th>Section D source</th>
<th>Section E source</th>
<th>Section F source</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIODOB[x]</td>
<td>Year of birth</td>
<td>CG-6 CWPCHDDOB_M/Y yields cmchdob[x]</td>
<td>DH-6 PXCXBORN_M/Y yields cmchdob[x]</td>
<td>ED-6 FWPCHDOB_M/Y yields cmchdob[x]</td>
<td>FA-9m/y OBCDOB_M/Y yields cmchdob[x]</td>
</tr>
<tr>
<td>BIOSEX[x]</td>
<td>Sex of child</td>
<td>CG-5 CWPCHSEX</td>
<td>DH-5 PXCSEX</td>
<td>ED-5 FWPCHSEX</td>
<td>FA-8 OBCSEXXX</td>
</tr>
<tr>
<td>BIOAGE[x]</td>
<td>Age of child in years</td>
<td>base on cmchdob[x]</td>
<td>base on cmchdob[x]</td>
<td>base on cmchdob[x]</td>
<td>base on cmchdob[x]</td>
</tr>
<tr>
<td>BIOAGEGP[x]</td>
<td>Age group of child</td>
<td>CG-12 CWPCHAJE</td>
<td>DH-12 PXCXAGE</td>
<td>ED-12 FWPCHAGE</td>
<td>FA-15 OBCAGE</td>
</tr>
<tr>
<td>BIOHH[x]</td>
<td>Is child in R's household</td>
<td>base on CG-11 CWPCHLIV</td>
<td>base on DH-11 PXCXLIV</td>
<td>based on ED-11 FWPCHLIV</td>
<td>based on FA-14 OBCLIV</td>
</tr>
<tr>
<td>BIOSEX[x]</td>
<td>Relationship of child's mother to R (coded based on which section child was reported in)</td>
<td>set to 1 if current wife; set to 2 if current cohab</td>
<td>set to 3 if recent or last partner &amp; also a former wife/cohab partner; set to 4 if any other recent or last partner</td>
<td>set to 5 if former wife; set to 6 if 1st cohab (but not a former wife)</td>
<td>set to 7 if child was reported in this section or not otherwise coded</td>
</tr>
<tr>
<td>BIOMAR[x]</td>
<td>Was R married to mother at time of child's birth</td>
<td>CG-8 CWPCCHMAR</td>
<td>DH-8 PXCXMAR</td>
<td>ED-8 FWCHMAR</td>
<td>Inapp (all nonmar)</td>
</tr>
<tr>
<td>BIOCOHB[x]</td>
<td>Was R living with mother at time of child's birth (married or cohabiting)</td>
<td>CG-8 CWPCCHMAR &amp; CG-9 CWPCHRES</td>
<td>DH-8 PXCXMAR &amp; DH-9 PXCRES</td>
<td>ED-8 FWCHMAR &amp; ED-9 FWCHRES</td>
<td>FA-12 OBCMLIV</td>
</tr>
<tr>
<td>BIOLRNPG[x]</td>
<td>When R learned of the pregnancy</td>
<td>CG-10 CWPCHLRN</td>
<td>DH-10 PXCXLIV</td>
<td>ED-10 FWPCHLIV</td>
<td>FA-13 OBCKNOWX</td>
</tr>
<tr>
<td>BIOLIVING[x]</td>
<td>Where child living now (up to 4 mentions for each child)</td>
<td>CG-11 CWPCHLIV</td>
<td>DH-11 PXCXLIV</td>
<td>ED-11 FWPCHLIV</td>
<td>FA-14 OBCLIV</td>
</tr>
<tr>
<td>BIOCHSIG[x]</td>
<td>Whether established paternity by signing birth certificate application</td>
<td>CG-13a CWPCHSIG</td>
<td>DH-13a PXCXSIG</td>
<td>ED-13a FWPCHSIG</td>
<td>FA-16a OBCCHSIG</td>
</tr>
<tr>
<td>BIOCHCRT[x]</td>
<td>Whether established paternity by going to court</td>
<td>CG-13b CWPCCHCRT</td>
<td>DH-13b PXCXCRTR</td>
<td>ED-13b FWPCHCRT</td>
<td>FA-16b OBCCHCRT</td>
</tr>
<tr>
<td>BIOCHGEN[x]</td>
<td>Whether established paternity by blood or genetic test</td>
<td>CG-14 CWPCCHGEN</td>
<td>DH-14 PXCXLIV</td>
<td>ED-14 FWPCHGEN</td>
<td>FA-17 OBCCHGEN</td>
</tr>
<tr>
<td>BIOLOVR[x]</td>
<td>Has R ever lived with child (if not living with child now)</td>
<td>CG-15 CWPCHEVR</td>
<td>DH-15 PXCXLIV</td>
<td>ED-15 FWPCHHEVR</td>
<td>FA-18 OBCEVER</td>
</tr>
<tr>
<td>BIOHWAR[x]</td>
<td>How far away does child live (miles)</td>
<td>CG-16 CWPCCHFAR</td>
<td>DH-16 PXCXFAR</td>
<td>ED-16 FWPCHFAR</td>
<td>FA-19 OBCFAR</td>
</tr>
<tr>
<td>BIOHOWSN[x]</td>
<td>Wantedness of this pregnancy</td>
<td>CG-17 CWPCHWNT</td>
<td>DH-17 PXWANT</td>
<td>ED-17 FWPRWANT</td>
<td>FA-20 OBCRWANX</td>
</tr>
<tr>
<td>BIOHISON[x]</td>
<td>Timing of this pregnancy</td>
<td>CG-18 CWPCCHSON</td>
<td>DH-18 PXSOON</td>
<td>ED-18 FWPSOON</td>
<td>FA-21 OBCSOONX</td>
</tr>
<tr>
<td>BIOHOPSN[x]</td>
<td>How much too soon did pregnancy occur</td>
<td>CG-18a CWPSOON                                                CG-18b CWPSOONMY</td>
<td>DH-18a PXSOON</td>
<td>ED-18a FWPSOON</td>
<td>FA-21a OBCSOONX</td>
</tr>
<tr>
<td>BIOHPYP[x]</td>
<td>R's happiness about this pregnancy</td>
<td>CG-19 CWPCCHHPY</td>
<td>DH-19 PXHPYPY</td>
<td>ED-19 FWHPYPY</td>
<td>FA-22 OBCHPYX</td>
</tr>
</tbody>
</table>
Non-biological children (Series CI, CJ, DJ, DK, EE, EF, FB):

Male respondents were also asked about any non-biological children they may have cared for within the context of their relationships with wives or cohabiting partners (CI, CJ, DJ, DK, EE, EF series), as well as any they may have raised on their own or in other relationships (FB series). Questionnaire information on these non-biological children reported in the male interview is located on the public-use data files in the section and series where the child was reported. The section further above on men’s biological children described the women to whom each section refers, and in each of these sections, there are 2 series to ask about different groups of non-biological children. The first non-biological child series in sections C-E (CI, DJ, EE) asks about children he raised who were the children of that particular wife or cohabiting partner – that is, a biological or other child she already had at the start of her relationship with the respondent. The second non-biological child series in Sections C-E (CI, DK, EF) asks about other children they cared for together. Finally, in the FB series, adult respondents were asked any other non-biological children they ever raised, either alone or in the context of relationships not covered in Sections C-E.

In each of these 7 non-biological child series in Sections C-F, male respondents could report up to 10 non-biological children, however in most series, fewer than 10 were reported. See below for the maximum numbers of non-biological children reported across these series in Section C-F among male respondents in the 2015-2017 NSFG:

- **Section C** –
  - Series CI: No more than 5 non-biological children who were children of his current wife or cohabiting partner
  - Series CJ: No more than 10 other non-biological children raised with his current wife

- **Section D** –
  - Series DJ:
    - No more than 4 non-biological children reported who were children of his “P1” most recent former partner
    - No more than 5 non-biological children reported who were children of his “P2” 2nd-to-last partner in past year
    - No more than 5 non-biological children reported who were children of his “P3” 3rd-to-last partner in past year
  - Series DK: No respondent reported more than 8 non-biological children in the 2015-2017 NSFG and:
    - No more than 3 non-biological children raised with “P1” most recent partner
    - No more than 8 non-biological children raised with “P2” 2nd-to-last partner in past year
    - No non-biological children raised with “P3” 3rd-to-last partner in past year

- **Section E** –
  - Series EE: No respondent reported more than 6 non-biological children in the 2015-2017 NSFG and:
    - No more than 5 non-biological children reported who were children of his “W1” 1st former wife
    - No more than 5 non-biological children reported who were children of his “W2” 2nd former wife
    - No more than 2 non-biological children reported who were children of his “W3” 3rd former wife
    - No more than 1 non-biological children reported who were children of his “W4” 4th former wife
    - No more than 6 non-biological children reported who were children of his “1st Cohab Partner”
  - Series EF: No respondent reported more than 8 non-biological children in the 2015-2017 NSFG and:
    - No more than 4 non-biological children raised with “W1” 1st former wife
    - No more than 2 non-biological children raised with “W2” 2nd former wife
    - No more than 2 non-biological children raised with “W3” 3rd former wife
    - No non-biological children raised with “W4” 4th former wife
    - No more than 4 non-biological children raised with “1st Cohab Partner

- **Section F**
  - Series FB: No more than 8 non-biological children
### Non-Biological children

<table>
<thead>
<tr>
<th>Brief Description of Variable</th>
<th>Section CI</th>
<th>Section DJ</th>
<th>Section EE</th>
<th>Section F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Her children who were not Respondent’s biological children</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any such non-biological child(ren)?</td>
<td>CI-1 CWPOTKID</td>
<td>DJ-1 PXOTKID [x]</td>
<td>EE-1 FWPOTKID [x]</td>
<td></td>
</tr>
<tr>
<td>How many such non-biological child(ren)?</td>
<td>CI-2 CWPONUM</td>
<td>DJ-2 PXONUM [x]</td>
<td>EE-2 FWPONUM [x]</td>
<td></td>
</tr>
<tr>
<td>Did non-biological child(ren) ever live with R?</td>
<td>CI-3 CWPOKWTH</td>
<td>DJ-3 PXOKWTH [x]</td>
<td>EE-3 FWPOKWTH [x]</td>
<td></td>
</tr>
<tr>
<td>Number of non-biological child(ren) lived with R</td>
<td>CI-4 CWPOKWTHN</td>
<td>DJ-4 PXOKWTHN [x]</td>
<td>EE-4 FWPOKWTHN [x]</td>
<td></td>
</tr>
<tr>
<td>Sex of non-biological child(ren)</td>
<td>CI-6 CWPOKSEX [x]</td>
<td>DJ-6 PXOKSEX [x]</td>
<td>EE-6 FWPOKSEX [x]</td>
<td></td>
</tr>
<tr>
<td>Did R legally adopt or become legal guardian?</td>
<td>CI-7 CWPOKAD [x]</td>
<td>DJ-7 PXOKAD [x]</td>
<td>EE-7 FWPOKAD [x]</td>
<td></td>
</tr>
<tr>
<td>Is R in the process of trying to legally adopt this child? (If child’s legal guardian)</td>
<td>CI-8 CWPOKTRY [x]</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Is R in the process of trying to legally adopt this child? (If neither adopted/became child’s legal guardian)</td>
<td>CI-9 CWPOKTHR [x]</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Where does child live now?</td>
<td>CI-10 CWPOKLIV [x]</td>
<td>DJ-8 PXOKLIV [x]</td>
<td>EE-8 FWPOLKLIV [x]</td>
<td></td>
</tr>
<tr>
<td>How many miles away does this child live?</td>
<td>CI-11 CWPOKFAR [x]</td>
<td>DJ-9 PXOKFAR [x]</td>
<td>EE-9 FWPOKFAR [x]</td>
<td></td>
</tr>
<tr>
<td>How old is child now?</td>
<td>CI-12 CWPOKAGE [x]</td>
<td>DJ-10 PXOKAGE [x]</td>
<td>EE-10 FWPOKAGE [x]</td>
<td></td>
</tr>
<tr>
<td>Number of non-biological child(ren) R adopted</td>
<td>C_OKAIDS</td>
<td>D_OKAIDS [x]</td>
<td>E_OKAIDS [x]</td>
<td></td>
</tr>
<tr>
<td><strong>Other non-biological children Respondent raised (with this woman)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any such non-biological child(ren)?</td>
<td>CJ-1 CWPNBVR</td>
<td>DK-1 PXNBVR [x]</td>
<td>EF-1 FWPNBVR [x]</td>
<td>FB-1 OTACHIL [x]</td>
</tr>
<tr>
<td>How many such non-biological child(ren)?</td>
<td>CJ-2 CWPBNBNUM</td>
<td>DK-2 PXBNBNUM [x]</td>
<td>EF-2 FWPBNBNUM [x]</td>
<td>FB-2 OTACHILN[x]</td>
</tr>
<tr>
<td>Other non-biological child was blood/marriage relation</td>
<td>CJ-4 CWPNBREL [x]</td>
<td>DK-4 PXNBREL [x]</td>
<td>EF-4 FWPNBREL [x]</td>
<td>FB-4 OTNBREL [x]</td>
</tr>
<tr>
<td>Was child a foster or related child placed in the home?</td>
<td>CJ-5 CWPNBFOC [x]</td>
<td>DK-5 PXNBFOC [x]</td>
<td>EF-5 FWPNBFOC [x]</td>
<td>FB-5 OTNBFOC [x]</td>
</tr>
<tr>
<td>Sex of non-biological child</td>
<td>CJ-6 CWPBNSEX [x]</td>
<td>DK-6 PXBNSEX [x]</td>
<td>EF-6 FWPBNSEX [x]</td>
<td>FB-6 OTBNSEX [x]</td>
</tr>
<tr>
<td>Did R legally adopt or become legal guardian?</td>
<td>CJ-7 CWPNBAD [x]</td>
<td>DK-7 PXNBAD [x]</td>
<td>EF-7 FWPNBAD [x]</td>
<td>FB-7 OTNBAD [x]</td>
</tr>
<tr>
<td>Is R in the process of trying to legally adopt this child? (If child’s legal guardian)</td>
<td>CJ-8 CWPNBTRY [x]</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Is R in the process of trying to legally adopt this child? (If neither adopted/became child’s legal guardian)</td>
<td>CJ-9 CWPNBTHR [x]</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>How old is child now?</td>
<td>CJ-12 CWPNBAGE [x]</td>
<td>DK-10 PXNBAGE [x]</td>
<td>EF-10 FWPNBAGE [x]</td>
<td>FB-10 OTNBAGE [x]</td>
</tr>
<tr>
<td># of non-biological child(ren) R adopted</td>
<td>C_NBAKIDS</td>
<td>D_NBAKIDS [x]</td>
<td>E_NBAKIDS [x]</td>
<td>F_AKIDS</td>
</tr>
</tbody>
</table>
Section K: MALPRTHRACE, Hispanic origin and race of current/most recent same-sex partner

In ACASI, male respondents who ever had a same-sex sexual partner were asked about the race and Hispanic origin of their current or most recent male partner. Similar to the approach taken with opposite-sex spouses and partners, the full race detail is not included on the public-use file. The public-use file includes a single variable MALPRTHRACE to describe the Hispanic origin and race of this current or most recent male partner, analogous to HISPRACE2 that describe respondents themselves. The original, raw variables KH-6 MALPRTHISP and KH-7 MALPRTRACE1-5 on which MALPRTHRACE is based are available through the NCHS RDC.

Section R: LSEXPRAC, Race of male respondent’s most recent female partner

Since 2013-2015, the LSEXPRAC variable has been computed in post processing and is no longer a recode with missing values imputed. Users who wish to see the specifications for this variable should check the 2011-2013 User’s Guide Appendix 3c.