Birth Edit Specifications For the 2003 Proposed Revision of the U.S. Standard Certificate of Birth

Table of Contents U.S. Standard Certificate of Live Birth

	GENERAL GUIDELINES
	OVERVIEW
	FINAL REVIEW SCREEN
	SUMMARY LETTER ON GUIDELINES FOR ELECTRONIC SYSTEMS
Item 2	TIME OF BIRTH
Item 3	SEX
Item 4	DATE OF BIRTH (infant)
Items 5-7, 17, 26	FACILITY NAME; CITY, TOWN OR LOCATION OF BIRTH; COUNTY OF BIRTH; FACILITY ID; PLACE WHERE BIRTH OCCURRED
Item 8b	DATE OF BIRTH (mother)
Item 8d	BIRTHPLACE (state, territory, or foreign country)
Item 9a-g	RESIDENCE OF MOTHER: STATE; COUNTY; CITY, TOWN OR LOCATION; STREET AND NUMBER; APT. NO.; ZIP CODE; INSIDE CITY LIMITS?
Item 10b	DATE OF BIRTH (father)
Item 15	MOTHER MARRIED?
Item 20	MOTHER'S EDUCATION
Item 21	MOTHER OF HISPANIC ORIGIN?
Item 22	MOTHER'S RACE
Item 23	FATHER'S EDUCATION
Item 24	FATHER OF HISPANIC ORIGIN?
Item 25	FATHER'S RACE
Item 27	ATTENDANT'S NAME, TITLE, AND NPI
Item 28	MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY?
Item 29a-b	DATES OF FIRST AND LAST PRENATAL CARE VISIT
Item 30	TOTAL NUMBER OF PRENATAL CARE VISITS FOR THIS PREGNANCY
Item 31	MOTHER'S HEIGHT
Item 32	MOTHER'S PREPREGNANCY WEIGHT
Item 33	MOTHER'S WEIGHT AT DELIVERY
Item 34	DID MOTHER GET WIC FOOD FOR HERSELF DURING THIS PREGNANCY?
Items 35a-c, 36a-b	NUMBER OF PREVIOUS LIVE BIRTHS- NOW LIVING, NOW DEAD; DATE OF LAST LIVE BIRTH; NUMBER OF OTHER PREGNANCY OUTCOMES; DATE OF
	LAST OTHER PREGNANCY OUTCOME
Item 37	CIGARETTE SMOKING BEFORE AND DURING PREGNANCY
Item 38	PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY
Item 39	DATE LAST NORMAL MENSES BEGAN
Item 41	RISK FACTORS IN THIS PREGNANCY
Item 42	INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY
Item 43	OBSTETRIC PROCEDURES
Item 44	ONSET OF LABOR
Item 45	CHARACTERISTICS OF LABOR AND DELIVERY
Item 46	METHOD OF DELIVERY

Item 47	MATERNAL MORBIDITY
Item 49	BIRTHWEIGHT
Item 50	OBSTETRIC ESTIMATION OF GESTATION
Item 51	APGAR SCORE
Items 52, 53	PLURALITY; IF NOT SINGLE BIRTH- BORN FIRST, SECOND, THIRD, ETC.
	(specify)
Item 54	ABNORMAL CONDITIONS OF THE NEWBORN
Item 55	CONGENITAL ANOMALIES OF THE NEWBORN
Item 56	Was infant transferred within 24 hours of delivery? If yes,
	NAME OF FACILITY INFANT TRANSFERRED TO
Item 57	IS INFANT LIVING AT THE TIME OF REPORT?
Item 58	IS INFANT BEING BREASTFED?
File Processing Items	
File Processing Items	Certificate Number
File Processing Items	
File Processing Items	Certificate Number
	Certificate Number Void Flag Auxiliary State File number
Appendix A	Certificate Number Void Flag Auxiliary State File number Country Codes
Appendix A Appendix B	Certificate Number Void Flag Auxiliary State File number Country Codes State, Territory, and Canadian Province Codes
Appendix A Appendix B Appendix C	Certificate Number Void Flag Auxiliary State File number Country Codes State, Territory, and Canadian Province Codes City and County Codes
Appendix A Appendix B Appendix C Appendix D	Certificate Number Void Flag Auxiliary State File number Country Codes State, Territory, and Canadian Province Codes City and County Codes Hispanic Origin Look-up Table
Appendix A Appendix B Appendix C	Certificate Number Void Flag Auxiliary State File number Country Codes State, Territory, and Canadian Province Codes City and County Codes

SPECIFICATIONS FOR COLLECTING AND EDITING THE UNITED STATES STANDARD CERTIFICATES OF BIRTH AND DEATH -- 2003 REVISION

INTRODUCTION

Since the inception of a national vital statistics system, the states and the federal government have worked together cooperatively to promote standards and consistency among state vital statistics systems. The U. S. Standard Certificates of Birth and Death, and Report of Fetal Death are the principal means of promoting uniformity in the data collected by the states. These documents are reviewed and revised approximately every 10 years through a process that includes broad input from data providers and users. In 1997, the National Center for Health Statistics (NCHS) appointed a panel of vital statistics data providers and users to evaluate the (1989) certificates. That panel completed its work in April 1999, and submitted recommended revisions to NCHS.

NEED FOR SPECIFICATIONS

As one of its findings, the panel recommended that NCHS develop and promulgate standards for vital statistics data collection and processing. One of the reasons for this was that the Working Group to Improve Data Quality found a decline in vital statistics birth data quality associated in part with electronic registration of vital events (1).

Over the past 15 years, automation has had a significant effect on the nations' vital statistics system. Currently, over 95 percent of births are registered electronically and the move toward electronic death registration is accelerating. Unfortunately, these electronic systems were developed in a piecemeal fashion in an environment of constantly changing technology options. As a result, data quality issues not seen prior to the Electronic Birth Registration (EBR) systems began to surface. Many of these quality issues along with issues that appeared to be a problem for both paper and electronic systems are documented in the "Report of the Working Group to Improve the Quality of Birth Data."(1)

With the development of electronic systems for new standard certificates there is an opportunity to prevent some of the problems identified by the "Working Group" and improve data quality. One way to improve data quality as well as to ensure uniformity in the national databases is to include, as part of the implementation package, detailed specifications for electronic as well as paper systems. All vital statistics registration areas as well as software vendors will have the same set of specifications for data submission to NCHS. As a result, differences in data due to software created by different vendors should be minimized.

Our goal is to offer comprehensive instructions/recommendations covering all aspects of the electronic system. The data specifications for electronic birth, death, and fetal death registration systems include:

- Mechanisms for incorporating recommended worksheets into the system
- Item specific edit criteria
- Computational algorithms
- Item code specifications
- Response categories, including drop down menus and "pick lists"
- Requirements for context specific help
- Electronic transmission standards

The overall goal of these specifications is to have the electronic systems identify, and wherever possible, rectify data problems as close to data entry as possible. To that end, we recommend that the systems edit and query at the time the data is entered and that a second level of editing be performed for some items, once the record is filed with the state office. Editing performed close to the time that data are collected should greatly minimize queries from state offices to data providers. In addition, the editing and resolving of problems before data are transmitted to NCHS should reduce queries from NCHS to the states and maximize resolution of data problems before data are transmitted to NCHS when it is often too late for them to be fixed.

At present, most Electronic Birth Registration (EBR) systems are designed for freestanding software in birthing facilities. The software captures the data, carries out limited editing, and transmits data to the state for further processing. State processing is then done either with software developed by the same vendor who developed the facility software, or by software developed by state staff. Although the current specifications are designed to be used with the different types of electronic systems (stand alone facility/provider software, state central processor, or central/ "web based," systems) a system housed and operated centrally at the state office may facilitate system maintenance, version control, security, and uniform processing of data.

We also strongly recommend that each state operated EBR/EDR input system replicate the data input system used by facilities/providers in the field. This helps to ensure that records not filed electronically will be keyed, edited, and processed as similarly as possible to electronically filed records.

States may also wish to integrate the EBR and the Fetal Death Reporting system to minimize facility workload and promote more complete reporting. The new electronic systems may also be integrated with other public health data systems, such as newborn screening, immunization registries, medical examiner reporting systems, or other appropriate disease-specific reporting systems. However, the states should review how

data are collected in these systems and the potential impact of this data on vital statistics information before allowing integration of systems.

These specifications follow as closely as possible the data standards (HISSB standards) promulgated by the Centers for Disease Control and Prevention (CDC).

The specifications include recommendations on the steps that should occur during data collection and processing, but do not specifically (with a few exceptions) mandate how the steps are to be operationalized.

The specifications are meant to be software neutral. Any language that might be construed as mandating a particular software approach is not intentional.

NCHS will review state software for the handling of data elements to ensure that data are collected and recorded as intended. The software will also be tested to ensure that the edits and computational algorithms work as intended, and that instructions and help menus, pick lists, and drop down menus are uniform.

The EBR specifications were developed assuming the NCHS Standard Worksheets (see attachments) as the source documents used to populate the EBR. The EBR should always follow the flow of these worksheets. These paper worksheets are also readily adaptable to electronic formats (i.e., electronic worksheets).

GENERAL PRINCIPLES

- 1. Electronic birth data are to be collected in a manner and format as similar to the recommended worksheets as possible. Death data should closely follow the death certificate.
- 2. The specifications for electronic systems include instructions that are to appear on the screen to complete each item and instructions to be included for help menus.
- 3. The specifications for electronic systems include, in many cases, the specific edit screens to be followed at data input and at later stages in the processing.
- 4. Once a record has been saved once and then reopened, the EDR/EBR should include a window for the record that lists items still pending (incomplete). The keyer should be able to go to any item in the pending list and enter data when information becomes available.
- 5. Default values are not permissible except for those clearly identified in the specifications.
- 6. Individual check boxes or item responses may not be dropped, but additional categories may be included. Any additions should be added to the end of the standard list. For exceptions to this recommendation please contact the Director of the Division of Vital Statistics, NCHS.
- 7. Additional items may also be added to the certificate, but may affect responses to the standard items. Please contact the Director of DVS, NCHS before finalizing new items.

- 8. The certificates/worksheets generally do not include the response option "unknown." Electronic systems, however, allow a final response of "unknown" for a number of items.
- 9. Electronic non-check box numeric items such as dates, and "unknown" will require the entry of a character or series of characters as shown in the specifications. The use of "hot keys" for unknown numeric values is recommended.
- 10. For items where it is only correct to chose one response (e.g. Prepregnancy or Gestational Diabetes, or The Principal Source of Payment for Delivery) systems should be designed so as to accept only one response. Two possible ways to accomplish this are via edit messages or blocking out other response categories after one has been selected.
- 11. The software must be able to integrate with several external pieces of software, e.g., the state GIS system, occupation and industry coding software, and Supermicar.
- 12. Although quality control tabulations are not included in the specifications (e.g., the percent of unknown responses by provider), we strongly recommend that these types of tabulations be included as an essential component of the new EBR/EDR systems.
- 13. Software and table updates should be implemented uniformly across the state.

TRANSMISSION FILE PRINCIPLES

- 1. State file numbers should be sequential starting with the number one each year.
- 2. Each shipment of data shall include the state number, date of shipment, number of records in the shipment, the software version used to collect and process the data and all table versions used for table lookups. Each record shall include a variable that indicates it is a new record, a record update or a void. Other variables may be added by NCHS as it further develops the transmission standards.
- 3. Data will be sent to NCHS as soon as possible after receipt and initial processing by the state. The state shall not wait for the results of queries before transmitting a record
- 4. All record updates and changes to variables in the NCHS data set due to query, registrar initiation or interested party initiation should be forwarded to NCHS as soon as the updated record is accepted by the state.
- (1) Report of the Working Group to Improve the Quality of Birth Data. U.S. Department of Health and Human Services, PHS, CDC, NCHS. 1998.

TERMS AND DEFINITIONS

Soft Edit: An edit that identifies and queries entries which are outside of the expected range, but which accepts out of range entries.

Hard Edit: An edit that identifies and queries entries which are outside of the

expected range which must be corrected before the record can be filed.

EBR Electronic Birth Registration System.

EDR Electronic Death Registration System.

EBR/EDR Edits (both hard and soft) run before the record is transmitted to the state.

Edit Wherever feasible, edits are to be run at data entry.

State Edit Edits performed by the state after the record has been transmitted to the

State

Instructions to be included as part of the standard help function. Help Menu

Instructions

On Screen Instructions to complete or revise an item which should always appear on

Instructions the EBC/EDC screen.

Final Review A screen designed to improve data collection by allowing the keyer

Screen additional time to gather information, and to remind the keyer to complete

missing information before the record can be filed. Also queries rare

responses. (See discussion below.)

Bypass A variable that indicates the results of a query for an entry failing an edit.

Variable The results of the query are in the transmitted data. (See discussion

below.)

A variable that provides additional information to an "unknown" Missing

Value response, e.g., "sought but unknown," "unobtainable," and "refused."

Variable (See discussion below.)

Processing Variables states will use to collect and process vital statistics data.

Variables

Transmission Variables to be transmitted to NCHS as part of the VSCP contract.

Variables

FINAL REVIEW SCREEN: (EBC only)

(Also see section on Final Review Screen)

The final review screen is designed to encourage better reporting of items for which necessary information is not immediately available (primarily prenatal care items). The keyer is given the option to temporarily skip an item, that is, indicate that data to complete the item are not available at the time the record is initiated. The item is then placed in pending status and, if not called up and completed beforehand, will appear on the final review screen to be completed before the record can be transmitted to the state. At the final review screen, the keyer may enter the item information or enter a response of "unknown."

Once a record has been closed and reopened, the keyer will also have the option to return and complete pending items. A list of items still pending will appear on the screen at all times after the record is re-opened allowing the keyer to complete the item as information becomes available. For example, assume that the keyer has all information on a given birth except the mother's prenatal care data. When the keyer comes to item 6(a) "Date of first prenatal care visit," one of the first items on the facility worksheet, the keyer may then indicate that the PNC record is "not yet available," the item will be skipped and the keyer can continue to complete other items on the record. Once the record is re-opened, the item "Date of the first prenatal visit" will appear on the pending list to be completed at the keyers discretion. If not completed beforehand, the item will appear on the final review screen.

The "pending list" should be available to the keyer at all times after the first re-opening of the record, but the final review screen will appear only once, prior to the record being sent to the state. The final review screen is also used to query rare item responses such as a response of "no prenatal care."

BYPASS VARIABLE:

Bypass variables are used where edits are performed. This variable indicates the keyer has been queried about an unexpected response, and has had the opportunity to change the response. The use of bypass variables should help reduce queries from the state to data providers, and from NCHS to the states.

MISSING VALUE VARIABLE:

The "Missing Value Variable" (MVR) captures responses such as "refused," "sought but unknown," and "unobtainable," which are intended to expand upon an "unknown" response. While not necessary for most variables in the Vital Statistics System, MVRs can be useful for items when data are collected directly from an informant. These responses can then be reviewed by the state to identify data collection issues. The death specifications include several items for which several MVR responses are recommended.

THE FINAL REVIEW SCREEN

Systems should be designed to allow the keyer to temporarily skip items for which information/records are not immediately available. This is particularly, but not exclusively, applicable to information collected from prenatal care records.

The "Final Review Screen" is to appear prior to the final transmission of the record for those items still "pending." Such items include any that were marked "pending" as above, or those left blank but required to be completed for the record to be filed with the state. It also includes items that have failed a hard edit, and selected items with relatively rare responses (e.g., "no prenatal care").

The following are instructions for the final review screen using "Date of first prenatal care visit" and "Date of last prenatal care visit" (items 29(a)&(b)) as examples:

When items "Date of first prenatal care visit" and "Date of last prenatal care visit" are marked "pending" the following screen should appear:

The following item has been marked "pending." This item must be completed before the record is filed.

Month of the first visit

Day of the first visit

Complete ALL PARTS of the dates that are available. Leave blank any parts of the dates that are not known.

	Year of the first visit	
	Month of the last visit Day of the last visit Year of the last visit	
	Check this button if all don't check this button is there	
screen. (Verifico	No prenatal care" on the initia ation is not necessary for data ether or not the mother received	,
		☐ Yes, the mother received prenatal care☐ No, the mother did not receive prenatal care
If "no prenatal d	care" is verified, there is no fu	rther query for item 29, and item 30 is skipped.
If the verification	n response indicates that pren	atal care was provided, the following will appear:

Complete ALL PARTS of the dates that are available. Leave blank any parts of the dates that are not known.

Month of the first visit Day of the first visit Year of the first visit		 	
Day	nth of the last visit y of the last visit ar of the last visit		
	Check this button if all dates are unknown Check this button is there was no prenatal care		

Entry operator must tab through all entry fields.

If a date is entered, the edits for date are run as indicated in the item specification.

If a date is entered or the "unknown" button is checked, item 30 should be completed.

If no parts of a date are entered after tabbing through the last field, all date fields are assigned the "unknown" codes.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service
Centers for Disease Control and Prevention

National Center for Health Statistics 6525 Belcrest Road, Room 1140 Hyattsville, Maryland 20782

September 10, 2001 (Revised October 29, 2001)

Dear Colleague:

Recent meetings with the States and software vendors have demonstrated the need for us to clarify NCHS's position on the data-capturing components of the electronic birth and death systems being designed for the upcoming revision. This letter briefly summarizes the NCHS guidelines for these systems; more detailed information can be found in the overview of "The Specifications for Collecting and Editing The United States Standard Certificates of Birth and Death -2003 Revision" and in the specifications for the individual items. The overview and the death specifications will be available at our web site soon. We expect to post the finalized birth specifications within the next month.

In order to improve the quality of both State and national vital statistics and to promote standardization and comparability among the States, we believe it is essential that all areas incorporate certain features into their electronic systems. Data from systems which do not include these elements may not be considered comparable to that from systems which do, and ultimately may not be included in the national file or in national tabulations. We strongly encourage all States which are considering data collection or editing methods which deviate from the specifications to consult with us prior to implementation.

We hope to work closely with the software vendors to enhance understanding on both sides of data needs and system capabilities and are open to suggestions for ways to improve on these elements. We invite all vendors to meet with us within the next few months for more in-depth demonstrations and discussion.

Features integral to the electronic systems:

• Automatic edits at time of data entry - automatic messages which appear immediately after data is entered for a given item. The message alerts the user of data problems (i.e., data out of range or inconsistent with other information) and allows the user to immediately modify the data. The user should <u>not</u> have discretion as to whether the edits are run. There are two types of edits - soft edits which identify and query entries but accept the entry upon the users approval, and hard edits which identify and query entries which must be corrected before the record can be filed.

- **Ability to edit related items together** the user should be able to readily modify data entered for all related items when an edit has identified a problem. For example, if birthweight is found to be within the allowable range, but is inconsistent with the (derived) length of gestation, the user should be able to readily correct both items since either could be inaccurate
- Capture of soft-edit query the system should track when a soft edit has been performed. This will allow States to tract frequent edit failures and take corrective action. For selected variables, when a soft edit fails a second time, a by-pass variable will be set to alert States and NCHS that the out of range value has been verified as correct.
- On screen messages the individual item specifications include a number of reminders/instructions. A well-designed system should be able to incorporate these messages without unduly burdening the user. Not all messages should require action on the part of the user. For example, some messages can just be flashed on the screen quickly enough to read.
- On-line help definitions and more detailed instructions included in the specifications for both the EBC and the EDC, and "The Guide to Completing the Facility Worksheet" for the EBC should be available on-line to the user. NCHS expects to make an electronic version of the guide available soon.
- **Item order or flow** systems should flow in the same order as the worksheets which were designed to encourage information to be gathered from the best sources. (Not applicable to death.)
- **Final review/query screen** Systems should be designed to allow the user to temporarily skip certain items to allow the user additional time to gather information, especially from the medical records. The final query screen reminds the user to complete all missing information and gives them the opportunity to do so before the record can be filed or released to the State data file. It also queries rare responses, such as a response of "no prenatal care." Once a record is released to the State data file and is accepted by the State, providers should no longer have the ability to modify the record. (Not applicable to death.)
- **List of pending items** systems should allow the user to easily access a list of incomplete items and go to the incomplete items once a record has been worked on and saved once. Prior to sending or finalizing a record, it should be mandatory that the user be presented with a list of all incomplete items.

- For items where it is only correct to chose one response (e.g. Prepregnancy or Gestational Diabetes, or The Principal Source of Payment for Delivery) systems should be designed so as to accept only one response. Two possible ways to accomplish this are via edit messages or blocking out other response categories after one has been selected.
- **Version control** systems should include methods to track changes in software versions and notify NCHS of version change. Version changes considered necessary to track are ones which include changes to items, edits or more substantive changes to tables and format. Each record transmitted to NCHS should have a version number. This notice should greatly improve our ability to identify and fix data problems.

• Cause of death

- Consistent look for cause of death- On medical examiner, coroner, and physician entry screens, it is imperative that the physician viewing the screen be able to see, at minimum, the same prompts and formatting as those physicians using the paper version of the death certificate. (Not applicable to birth).
- Additional lines for cause- Additional lines may be added as needed in the cause-of-death statement. (Not applicable to birth).
- Prohibition of pick lists- Physicians completing cause of death must enter medical conditions using their own terminology (e.g., pick lists or other mechanisms limiting the choice for cause are not allowed). (Not applicable to birth).
- **Electronic death registration system guidelines** The National Association for Public Health Statistics and Information Systems' (NAPHSIS) Electronic Death Registration project has created guidelines and associated standards (see guidelines and standards at http://www.naphsis.org) for use in developing and implementing an electronic death registration system. The NAPHSIS document deals with broad issues while the NCHS specifications document deals with individual fields.

This list is intended to address the major issues we have encountered thus far. As we all gain more experience with the new systems new issues may arise that will also need to be addressed. We look forward to an ongoing dialogue with all parties to work towards the development of the best systems possible.

For questions or comments on the birth specifications please contact:

Joyce Martin (301) 458-4362 JAMartin@CDC.GOV Stephanie Ventura (301) 458-4547 SVentura@CDC.GOV

Page 4 - Colleague

For information on the death specifications:

Donna Hoyert (301) 458-4279 DHoyert@CDC.GOV Ken Kochanek (301) 458-4319 KKochanek@CDC.GOV

Sincerely yours,

Mary Anne Freedman Director Division of Vital Statistics Item Title: TIME OF BIRTH (24hr)

Item Number: 2 Certificate, 19 Facility worksheet

Description: Hour and minute infant was born.

Source of Information:

Preferred Source: Labor and delivery, Newborn admission history and

physical

Other Source: Attendant (non-facility births only)

INSTRUCTIONS

FOR A PAPER RECORD:

Print or type the hour and minute of birth using a 24-hour clock. If the time of birth is not known, enter "unknown" in the space.

TIME OF BI	RTH
	_ (24hr)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

To report the "Time of Birth" use a 24-hour clock and four digit entry field.

Hour and minute of birth_____

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
TB	Hour and minute of birth	0000-2359, 9999	unknown
		OR	
		0001-2400,	
		9999 (See Edits)	unknown

EDITS:

Some facilities may use a 0001-2400 range in lieu of the 0000-2359 range. The <u>only</u> difference between these systems is in how the beginning of the new day, midnight (or 12:00 am using the 12-hour clock) to 59 seconds after midnight (12:00:59 am) is represented. For medical facilities the commonly used sequence is:

2359 (11:59 pm)

0000 (12:00 am)

0001 (12:01 am).

However, for the military (but not necessarily military medical institutions) the sequence is:

2359(11:59 pm)

2400 (12:00 am)

0001 (12:01 am).

The new day begins at 0000 or 2400 (midnight) (0001 = 1 minute after midnight, etc.). These latter systems should convert 2400 to 0000 for transmission to NCHS purposes.

ELECTRONIC RECORD

Before the record is transmitted to the State

Values must be in the range 0000-2359, 9999, or 0001-2400, 9999. If the value is outside the range, an error message should appear showing the invalid value and asking that a new value be entered.

STATE FILE CONSIDERATIONS

The hour should be recorded using a 24-hour clock. However, States may wish to convert the recorded time on the electronic record to the standard 12-hour clock when printing paper copies of the certificate for families.

- For 0000 to 0059 add 1200 hours and "a.m."
- For 0100 to 1159 add "a.m."
- For 1200 to 1259 add "p.m."
- For 1300 to 2359 subtract 1200 hours and add "p.m."

If states elect to use a database system that has an option of storing dates as "date type variables," the system must meet the criteria listed under transmission.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
TB	4	Numeric	0000-2359, 9999

EDI TRANSMISSION:

HL 7 transmission standards will be followed. This is a time and date stamped standard in the following format:

[HH[mm]]

Software that stores dates as "date type" must be year 2000 compliant and capable of producing the date in the YYYY..... format and capable of producing messages in the HL7 EDI format.

Item Title:	SEX
Item Number:	3 Certificate, 32 Facility worksheet
Description:	The sex of the infant
Source of Informat	ion:
Preferred So	ource: Delivery record, Infant's medical record
	INSTRUCTIONS
FOR A PAPER REC	CORD:
Print or type whether determined.	the infant is male, female or if the sex of the infant is not yet
SEX	
FOR AN ELECTRO	ONIC RECORD:
EBR Developer (Inst	tructions are in Italics)
When the item is to be response:	e completed, the following menu should be used to select one
	Sex
	MaleFemaleNot yet determined
A response of "Not y final review screen.	vet determined on the initial entry screen should be verified at the

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
ISEX	The sex of the infant	M F N	Male Female Not yet determined

EDITS:

ELECTRONIC RECORD

Item must be completed. If the record is filed with an N code, send the record to NCHS but query the hospital until a determination of the infant's sex is made. Send the updated record to NCHS with the update file

PAPER RECORD

Records filed with this field blank or with "not yet determined" are queried. If there is no response to the query, retain the "Not yet determined" code. Send the record to NCHS on the data file but continue to query until a determination of the infant's sex is made. The revised record should then be sent to NCHS with the updated file.

STATE FILE CONSIDERATIONS

An N code for "not yet determined" should not be allowed for any record in the file at the time the file is closed. NCHS will query states to obtain the sex of the infant for all records still retaining the N code at the time the file is closed.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUES</u>	
ISEX	1	Alpha character string	M, F, N	

EDI TRANSMISSION:

No standards set yet.

Item Title:	DATE OF BIRTH (INFANT)
Item Number:	4 Certificate, 18 Facility worksheet
Description:	The infant's date of birth
Source of Inform	nation:
Preferred	Source: Labor and delivery, newborn admission history and physical
	INSTRUCTIONS
FOR A PAPER R	ECORD:
Print or type the m are acceptable.	onth, day, and four digit year of birth. Standard numeric abbreviations
DATE OF BIRTH	(Mo/Day/Yr)
FOR AN ELECT	RONIC RECORD:
EBR Developer (1	Instructions are in Italics)
The Date of Birth fields.	is a three-field entry with the month, day, and year entered in separate
Month of in	nfant's birth
Day of infa	nt's birth
Year of infa	ant's birth
The following instabirth is not known	ruction should appear in the help function when the infant's date of (foundlings).

5/3/2002

If the date of birth of the infant is not known because the infant is a foundling, enter the date the infant was found as the date of birth.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
IDOB_YR	Year of Birth	4 digit year	Must be equal
_			to current data year
IDOB_MO	Month of Birth	01 02 03 04 05 06 07 08	January February March April May June July August September
		10 11 12	October November December
IDOB_DY	Day of Birth	01-31 01-29 01-31 01-30 01-31 01-30 01-31 01-30 01-31 01-30 01-31	January February March April May June July August September October November December

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If month is February and day = 29, year of birth should be a leap year. If not, an error message should appear and ask that the date be corrected.

The infant's date of birth must be earlier than or the same as the date the record is filed.

PAPER RECORD

For paper records, the same edits are applied at the State level. Edits failed after re-entry through the edit screens will result in a listing of items to be queried and the item will be given a pending query status.

STATE FILE CONSIDERATIONS

While the paper document does not have separate fields for each element of the date, it is recommended that the date be entered and stored as three separate fields.

If states elect to use a database system that has an option of storing dates as "date type variables," then the system must meet the criteria listed under transmission standards.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
IDOB_YR	4	Numeric or "date type"	Must be equal to current data year
IDOB_MO	2	Numeric or "date type"	01-12
IDOB_DY	2	Numeric or "date type"	01-31 (based on month)

EDI TRANSMISSION:

HL 7 Transmission standards will be followed. This is a time date stamped standard in the following format:

YYYY[MM[DD]]

Year must be fully represented with four digits.

Software that stores dates as "date type" must be year 2000 compliant and capable of producing the date in the YYYY..... format and capable of producing messages in the HL7 EDI format.

Item Titles: FACILITY NAME

CITY, TOWN OR LOCATION OF BIRTH

COUNTY OF BIRTH FACILITY ID (NPI)

PLACE WHERE BIRTH OCCURRED

Item Numbers: 5 Certificate, 1 Facility worksheet

6 Certificate, 3 Facility worksheet 7 Certificate, 4 Facility worksheet 17 Certificate, 2 Facility worksheet 26 Certificate, 5 Facility worksheet

Descriptions: The name of the facility where the delivery took place

The city, town or location of birth

The county of birth

The facility's National Provider Identification (NPI) or if

no NPI, the state hospital code

The type of place where the birth occurred

Source of Information:

Preferred Source: Admission history and physical, delivery record,

basic admission data, progress notes

Other Source: Attendant (non-facility births only)

INSTRUCTIONS

FOR A PAPER RECORD:

Item 5.

Type or print the name of the facility where the birth occurred. If this birth did not occur in a hospital or freestanding birthing center, please type or print the street and number of the place where the birth occurred. If the birth occurred en route, that is in a moving conveyance, type or print the city, town, village, or location where the child was first removed from the conveyance. If the birth occured in international air space or waters enter "plane" or "boat."

FACILITY NAME (If not institution, give street and number)
Item 6.
Type or print the name of the city, town, township, village or other location where the birth occurred. If the birth occurred in international waters or air space, enter the location where the infant was first removed from the boat or plane.
CITY, TOWN, OR LOCATION OF BIRTH
Item 7.
Type or print the name of the county where the birth occurred. If the birth occurred in international waters or air space, enter the name of the county where the infant was first removed from the boat or plane.
COUNTY OF BIRTH
Item 17.
Print the facility's National Provider Identification Number (NPI) or, if no NPI, the state hospital code.
FACILITY ID. (NPI)
Item 26.
Please check the box that best describes the type of place where the birth occurred. If the type of place is not known, type or print "unknown" in the space
PLACE WHERE BIRTH OCCURRED (Check one)
 Hospital Freestanding birthing center Home Birth: Planned to deliver at home? Yes No Clinic/Doctor's office Other (Specify)

FOR AN ELECTRONIC RECORD:

EBR Developer: (Instructions are in Italics)

The initial question should ask if the birth occurred in this facility, if the answer is "yes," all the items (5,6,7,26) and the state facility code should be automatically completed from a table look up allowing the keyer to skip these items and move to the next item.

EBR software should have a table for each facility that contains information about the facility, as well as a roster of attendants and certifiers. A mechanism for updating the information such as a change in name, status, and the roster is needed. In addition, a mechanism for adding and deleting NPI numbers is necessary.

If the answer is "no," the following	will appear:
Name of the facility:	
If an entry is made above, skip to the	e city, town, or location entry and the county entry.
facility name blank and give the stree If the birth occurred en route, that is village, or location where the child w	l or freestanding birthing center, please leave the et and number of the place where the birth occurred. in a moving conveyance, type or print the city, town, as first removed from the conveyance. If the birth oat (lake) or boat (international waters) etc.
Street and Number	
City, town, or location	
County	
Please check the box below that best	describes the type of place where the birth occurred.
	Hospital Freestanding birthing center Home Birth: Planned to deliver at home? Pyes No Unknown

□ Clinic/Doctor's office

Other (Specify)	e.g. taxi, train,
plane	
Unknown place of birth	

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
FNAME FNPI SFN	Name of facility Facility NPI number	Alpha/numeric Alpha/numeric Alpha/numeric	
FLOC	State facility number City town or location of birth	Alpha/numeric	
CNAME	County name where birth occurred	Alpha character string	
CNTYO	County code	Numeric (Appendix (C)
BPLACE	Birthplace	1	Hospital
		2	Freestanding Birthing Center
		3	Home (intended)
		4	Home (not intended)
		5	Home (unknown if intended)
		6	Clinic/Doctor's Office
		7	Other
		9	Unknown
EDIT	S:		

ELECTRONIC RECORD

Before the record is transmitted to the State

Valid FIPS codes are assigned to county of birth. If county cannot be located in the facility information table, a message should appear indicating the county is not a valid county. The message should ask that the spelling be checked and the item re-entered. Or a drop down list of counties to choose from could be offered. It is recommended to reenter the county rather than having a drop down menu.

Place of Birth Item:

If item is not completed and clerk proceeds to the next item, the item is flagged to be put on the list of items needed for completion before the certificate can be filed or printed (final review screen).

Must be a valid code as indicated above. If "home" is checked and none of the subcategories are checked, or "unknown" is checked, the item is assigned the "home unknown" code and the following message should appear.

The record indicates that this birth occurred at home.

Please query either the attendant or the mother to determine if the mother intended to have a home birth.

Item will be flagged for completion at a later time or at the final review screen.

Both home (intended) and home (not intended) boxes cannot be checked.

PAPER RECORD

Query if item is not completed. If no response to query, assign the "unknown" code.

If home delivery is checked but neither the planned at home "yes" or "no" box is checked, query. If no response to query, assign the "home (unknown if intended)" code.

STATE FILE CONSIDERATIONS

It is recommended that states have a 55 character field to maintain the literal entries to certificate item 5. In addition, they will need fields for city, town, or location; county, and the type of place codes. Only the county codes and type of place codes will be transmitted to NCHS. County codes will be assigned immediately by table look up when an EBR is completed. City, town and location codes can be handled similarly. For paper records it is suggested that the literals be keyed and table look-ups be used for coding.

For certificate item 26, states may elect to code the "Other (specify)" responses. A 15 character field to capture the literals and probably a 2 digit field for codes if electing to code will be needed

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
CNTYO	3	Numeric	Appendix C
BPLACE	1	Numeric	1-7, 9
FNPI	12	Alpha/numeric	
SFN	4	Alpha/numeric	

EDI TRANSMISSION:

No standards set yet.

Item Title:	DATE OF BIRTH (MOTHER)
Item Number:	8b Certificate, 6 Mother's worksheet
Description:	The mother's date of birth
Source of Inform	nation:
Preferred	Source: Mother
	INSTRUCTIONS
FOR A PAPER R	ECORD:
Print or type the m	onth (spelled out), day, and four-digit year of birth.
	te of Birth is unknown, then print "unknown." If part of Date of Birth the known parts and leave the remaining parts blank.
DATE OF BIRTH	(Mo/Day/Yr)
FOR AN ELECT	RONIC RECORD:
EBR Developer (A	Instructions are in Italics)
The Date of Birth separate fields.	item is a three-field entry with the month, day, and year entered in
	o be completed, the following message should appear at the top of the on the screen until the last field of the date is completed:
• •	t of the Mother's date of birth is known, enter all parts that are leave the unknown parts blank.
If the date	of birth of the mother is not known at this time, leave blank.
Month of n	nother's birth
Day of mor	ther's birth

Year of	'mother'	s birth		

If the date of birth is not known at this time, the item will be pended and will appear on the final review screen.

Any fields left blank will be filled with 9's. (Alternatively, "hot keys" for unknown numeric values may be used in place of leaving values blank.)

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
MDOB_YR	Year of Birth	4 digit year	Must be less than child's year of birth
		9999	Unknown
MDOB_MO	Month of Birth	01 02 03 04 05 06 07 08 09 10 11 12	January February March April May June July August September October November December Unknown
MDOB_DY	Day of Birth	01-31 01-29 01-31 01-30 01-31 01-30 01-31 01-30 01-31 01-30 01-31	January February March April May June July August September October November December Unknown
MAGE_CALC Calculated age		00-98	

	99	Unknown
MAGE_BYPASS	0 1	Off On (data queried)

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

All blank fields will be converted to all 9's.

If month is February and day = 29, year of birth should be a leap year. If not, an error message should appear and ask that the date be corrected.

Age is calculated using mother's date of birth (completed dates only) and the child's date of birth.

Calculated age must be >8 and <65.

If age is outside this range a message appears that reads:

Mother's age is out of acceptable limits, please check the mother's date of birth and re-enter the date of birth.

The entry screen for the mother's date of birth appears.

Age is recalculated and if still outside the acceptable limits the MAGE_BYPASS variable is set to ON-1

PAPER RECORD

Records filed with no age of mother are queried. For those records with stated "age of mother" the same edits described above are applied. Failed edits are to be queried.

STATE FILE CONSIDERATIONS

While the paper document does not have separate fields for each element of the date, it is recommended that the date be entered and stored as three separate fields.

If states elect to use a database system that has an option of storing dates as "date type variables," then the system must meet the criteria listed under transmission standards.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	<u>LENGTH</u>	TYPE	VALUES
MDOB_YR	4	Numeric or "date type"	4 digit year, <child's 9999<="" birth,="" of="" td="" yr=""></child's>
MDOB_MO	2	Numeric or "date type"	01-12, 99
MDOB_DY	2	Numeric or "date type"	01-31 (based on month), 99
MAGE_BYPA	SS 1	Numeric	0,1

EDI TRANSMISSION:

HL 7 Transmission standards will be followed. This is a time date stamped standard in the following format:

YYYY[MM[DD]]

Year must be fully represented with four digits. Software that stores dates as "date type" must be year 2000 compliant and capable of producing the date in the YYYY..... format and capable of producing messages in the HL7 EDI format.

Item Title:	BIRTHPLACE (STATE, TERRITORY, OR FOREIGN COUNTRY)
Item Number:	8d Certificate, 7 Mother's worksheet
Description:	The geographic location of the mother's place of birth.
Source of Informa	ition:
Preferred S	ource: Mother or other informant
	INSTRUCTIONS
FOR A PAPER RE	CCORD:
the mother was bo American Samoa, a or type "Unknown" are not individually	orn outside of the U.S., print or type the name of the country in which orn. U.S. territories are: Puerto Rico, U.S. Virgin Islands, Guam, and Northern Marianas. If the mother's birthplace is not known, print in the space. (NOTE: Canadian Provinces and Canadian Territories identified for mother's place of birth) 8. State, U.S. Territory, or Foreign Country)
FOR AN ELECTR	ONIC RECORD:
EBR Developer (In	structions are in Italics)
	ereen with separate entry spaces each for state, territory, and country of items to be captured with instructions is suggested below.
	Birthplace of Mother (Please enter for only one field)
Moth	er's U.S. State of Birth
	OR
Moth	er's U.S. Territory of Birth

OR

Mother's Country of Birth_____ (if born outside of the U.S.)

□ Mother's birthplace unknown

If unknown is recorded on the worksheet or if the informant does not know, check the "Mother's birthplace unknown" box.

As soon as an acceptable entry is made in any one of the fields, the screen moves on to the next item on the worksheet to avoid entries in more than one birthplace field.

PROCESSING VARIABLES:

<u>NAME</u>	<u>DESCRIPTION</u>	<u>VALUES</u>
BPLACE_ST	Mother's state of birth (literal)	Literal entry, blank
BPLACE_TER	Mother's territory of birth (literal)	Literal entry, blank
BPLACE_CNT	Mother's country of birth (literal)	Literal entry, blank
BPLACEC_ST_TER	Code for Mother's state or territory of birth	Appendix B
BPLACEC_CNT	Code for Mother's country of birth	Appendix A

TRANSLATIONS:

Literal entries for U.S. States and U.S. Territories must be converted to FIPS 5-2, two character codes (Appendix B).

Literal entries for U.S. States and U.S. Territories must be combined to a single field (BPLACEC_ST_TER) when coded.

Literal entries for countries must be coded two character FIPS10-4 codes for countries (Appendix A).

If the "unknown" box is checked, the value ZZ is assigned to all fields.

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

Entries in all fields transmitted to NCHS must be valid FIPS codes or ZZ (Appendix A and B).

If there is an entry in the U.S. State/Territory field other than ZZ, country and unknown fields must be blank.

If there is an entry in the country field other than ZZ, the U.S State/Territory and unknown fields must be blank.

If there is an entry in either field other than ZZ, the unknown field must be blank.

STATE FILE CONSIDERATIONS

Suggested field names are:

State of birth BPLACE_ST_TER
Country of birth BPLACE_CNT

A field length of 30 characters for each field is suggested.

States may also opt to retain coded fields as well as the literal entries. If coded fields are maintained as well, there are HISSB standards that should be used. Literals for countries should be assigned codes using two character FIPS 10-4 codes (Appendix A).

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	<u>LENGTH</u>	TYPE	<u>VALUES</u>
BPLACEC_ST_TER	2	Alphabetic	Appendix B
BPLACEC_CNT	2	Alphabetic	Appendix A

EDI TRANSMISSION:

No standards set yet.

Item Title: **RESIDENCE OF MOTHER:**

STATE COUNTY

CITY, TOWN OR LOCATION

STREET AND NUMBER

APT. NO. ZIP CODE

INSIDE CITY LIMITS?

Item Number: 9a – 9g Certificate; 3, 4 Mother's worksheet

Description: The geographic location of the mother's residence

Source of Information:

Preferred Source: Mother or other informant

INSTRUCTIONS:

FOR A PAPER RECORD:

Items 9a-9g.

These items refer to the mother's residence address, not her postal address. Do not include post office boxes or rural route numbers.

Item 9a.

This item is where the U.S. States and territories, and the provinces of Canada are recorded.

If the mother is a U.S. resident, print the U.S. State or territory where the mother lives. If the mother is a U.S. resident do not record "U.S."

If the mother is a Canadian resident, print the name of the province or territory followed by " / Canada."

If the mother <u>is not</u> a resident of the U.S., its territories, or Canada, print the name of the mother's country of residence.

RESIDENCE OF MOTHER-STATE

Item 9b & 9c.

Print the county, city or town or location where the mother lives. If the mother is not a U.S. resident, leave these items blank.

COUNTY CITY, TOWN, OR LOCATION

Items 9d-9f.

Print the mother's street name and number, apartment or room number, and zip code. If the mother is not a U.S. resident, leave these items blank.

For the street name, be sure to include any prefixes, directions and apartment numbers.

Examples: South Main Street

Walker Street NW

STREET AND NUMBER APT. NO. ZIP CODE

Item 9g.

Check whether the mother's residence is inside of city or town limits. If it is not known if the residence is inside the city limits, print "unknown." If the mother is not a U.S. resident, leave this item blank.

INSIDE CITY LIMITS?

☐ Yes ☐ No

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The collection of the mother's residence data should be set up to maximize the efficient use of GIS coding technology in order to improve the geographic allocation of these events. Two options for recording the street address are provided. In the second option, the street address will have to be parsed to separate out the pre- and post-directionals. Space in the State data files for the extended zip codes, latitude and longitude coordinates and centroids will have to be allowed.

PREFERRED METHOD:

If the "street" name has a direction as a prefix, enter the prefix in the space labeled "pre-directional". If the "street" name has a direction after the name, enter the suffix in the space labeled "post-directional."

Examples: South Main Street. Enter the name as Main and the predirection as South.

Walker Street NW. Enter the name as Walker and NW in the post-directional space.

If there are no pre- or post-directions, leave these spaces blank.

OPTIONAL ACCEPTABLE METHOD I:

If the "street" name has a direction as a prefix, enter the prefix in front of the street name. If the "street" name has a direction after the name, enter the direction after the name.

Examples: South Main Street. Enter the name as South Main. Walker Street NW. Enter the name as Walker NW.

While all the residence fields are being completed, the following general instructions should be on the screen.

- Residence of the mother is the place the mother actually resides.
- Do not report temporary residences such on a visit, business trip, or vacation.
- Place of residence during a tour of military duty or attendance at college should be entered as the place of residence.
- For mothers who live in a group home, mental institution, penitentiary, or hospital for the chronically ill, report the location of the facility as the place of residence.

Data entry should be set up in the order identified below. When each item is to be completed specific instructions will appear. These are listed below.

1. Building number				
2. Pre-directional				
3. Name of the "street"				
4. Street designator e.g., street, avenue, etc.				
5. Post-directional				
6. Apartment or room number				
7. Name of the city, town, or other place of residence				
8. Is mother's place of residence inside the city or town limits?				
·				
□ Yes				
□ No				
Unknown				
9. Zip code of the above address (either 5 or 9 digits)				
10. County of the mother's residence				
11. U.S. State, U.S. Territory, or Canadian Province of the residence				

12. Wollier 5 country of residence	12.	Mother'	s country	of residence
------------------------------------	-----	---------	-----------	--------------

When item 1 "Building number" is to be completed, the following instructions should appear:

Enter the building number assigned to the mother's residence. Do not record a R.R. number or P.O. box. If the number is unknown, enter "unknown."

When item 2 "Pre-directional" is to be completed, the following instructions should appear.

If the "street" name has a direction as a prefix, enter the prefix in the space labeled "pre-directional."

Example: South Main Street. Enter the pre-direction as South.

If there is no pre-direction, leave this space blank.

When item 3 "Street name" is to be completed, the following instructions should appear.

Enter the "street" name of the mother's residence. Do not enter a R.R. number.

When item 4 "Street designator" is to be completed, the following instruction should appear.

Enter the street designator.

Examples of the street designators are words like Street, Avenue, Road, Circle, Court etc.

When item 5 "Post directional" is to be completed, the following instructions should appear.

If the "street" name has a direction after the name, enter the suffix in the space labeled "post-directional."

Example: Walker Street NW. Enter NW in the post-directional space.

If there is no post-direction, leave this space blank.

When item 6 "Apartment number" is to be completed, the following instruction should appear.

If there is no apartment or room number associated with this residence, leave the item blank.

When item 7 "Name of city or town" is to be completed, no instructions are needed.

When item 8 "Inside city limits" is to be completed, the following instruction should appear.

If uncertain if the residence is inside the city or town limits, check the "unknown" box.

When item 9 "Zip code" is to be completed, the following instruction should appear.

If only the 5 digit Zip code is known, report that.

If the mother is not a resident of the U.S. or its territories, leave this item blank.

When item 10 "County of residence" is to be completed, the following instruction should appear.

If the mother resides in any country other than the U.S. or its Territories, leave this item blank.

When item 11 "U. S. State, U.S. territory, Canadian province, or Canadian Territory" is to be completed, the following instructions should appear.

Enter the U.S. State or U.S. territory.

If the mother resides in a Canadian province or Canadian territory, enter the name of the province or territory.

When item 12 "Country of residence" is to be completed, the following instructions should appear.

If a valid U.S. State or U.S. territory was entered in the previous item, "United States" will automatically be entered.

If a valid Canadian province or Canadian territory was entered in the previous item, "Canada" will automatically be entered.

If the mother is not a resident of the U.S., its territories, or Canada, enter the name of the mother's country of residence.

If the mother's country of residence is unknown, enter "unknown."

OR (Alternate Format II)
1 Building number
2. Name of the "street"
3. Street designator e.g., street, avenue, etc.
4. Apartment or room number
5. Name of the city, town, or other place of residence
6. Is mother's place of residence inside the city or town limits?
YesNoUnknown
 7. Zip code of the above address (either 5 or 9 digits)

Instructions for the optional method:

When item 1 "Building" is to be completed, the following instructions should appear.

Enter the street number assigned to the mother's residence. Do not record a R.R. number or P.O. box. If the number is unknown, enter "unknown."

When item 2 "Name of street" is to be completed, the following instructions should appear.

Enter the "street" name of the mother's residence. Do not enter a R.R. number.

If the "street" name has a direction as a prefix, enter the prefix in front of the street name. If the "street" name has a direction after the name, enter the direction after the name.

Examples: South Main Street. Enter the name as South Main. Walker Street NW. Enter the name as Walker NW.

When item 3 "Street designator" is to be completed, the following instruction should appear.

Enter the street designator.

Examples of the street designator are words like Street, Avenue, Road, Circle, Court, etc.

When item 4 "Apartment number" is to be completed, the following instruction should appear.

If there is no apartment or room number associated with this residence, leave the item blank.

When item 5 "City or town" is to be completed, no instructions are needed.

When item 6 "Inside city limits" is to be completed, the following instruction should appear.

If uncertain if the residence is inside the city or town limits, check the "unknown" box.

When item 7 "Zip code" is to be completed, the following instruction should appear.

If only the 5 digit Zip code is known, report that.

If the mother is not a resident of the U.S. or its territories, leave this item blank.

When item 8 "County of residence" is to be completed, the following instruction should appear.

If the mother resides in any country other than the U.S. or its territories, leave this item blank.

When item 9 "State, U.S. territory, or Canadian province" is to be completed, the following instructions should appear.

Enter the U.S. State or U.S. territory.

If the mother resides in a Canadian province or Canadian territory, enter the name of the province or territory.

When item 10 "Country of residence" is to be completed, the following instructions should appear.

If a valid U.S. State or U.S. territory was entered in the previous item, "United States" will automatically be entered.

If a valid Canadian province or Canadian territory was entered in the previous item, "Canada" will automatically be entered.

If the mother is not a resident of the U.S., its territories, or Canada, enter the name of the mother's country of residence.

If the mother's country of residence is unknown, enter "unknown."

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
	0		
STNUM	Street number		
PREDIR	Pre-directional		
STNAME	Street name		
STDESIG	Street designator		
POSTDIR	Post-directional		
UNUM	Unit or apartment number		
CITY	City or Town name		
CITYC	City or Town code		See Appendix C
ZIP	Zip Code		
COUNTY	County		
COUNTYC	County code See Appendix C		
STATE	State/Province		
STATEC	State/Province code See Appendix		See Appendix B
COUNTRY	Country		
COUNTRYC	Country code		See Appendix A
LIMITS	Inside city limits	Y	Yes
	-	N	No
		U	Unknown

TRANSLATIONS Response Mapping (examples)

Response	Maps to values
Country Name	Appendix A to be superseded by NCHS Part 8 FIPS10-4 two character codes
State/Province Name	Appendix B to be superseded by NCHS Part 8

FIPS 5-2 two character codes or Canadian two character postal codes

City/Town Name Appendix C to be superseded by

NCHS Part 8

FIPS 55-3 five digit place codes

County Name Appendix C to be superseded by

NCHS Part 8

FIPS 6-4 three digit County codes

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

- 1. If country is unknown, then city, county and State may also be unknown. Do not run any table look-ups for city, county or State.
- 2. If country is known and is not the U.S. or Canada, then city, county, and State/Province may be blank.
- 3. If country is Canada, city and county may be blank, but run table look-ups for State/Province.

The Province is checked against Canadian Postal Codes (Appendix B). If not in table and if it is an electronic record, a message should appear asking that the name be checked. Enter revised data; if edit fails again, code Province to "unknown." Keep literal. For a paper record, automatically reject and follow-up with the hospital. If rejected a second time, code Province to "unknown."

4. If country is the U.S., run table look-ups for State/Province, County, and city.

State is checked in FIPS 5-2. If not in table and if it is an electronic record, a message should appear asking that the name be checked. Enter revised data; if edit fails again, code State to "unknown." Keep literal. For a paper record, automatically reject and follow-up with the hospital. If rejected a second time, code State to "unknown."

The city name is checked in FIPS 55-3 name table. If not in table and if it is an electronic record, a message should appear asking that the name be checked. Enter revised data; if edit fails again, code city to "unknown." Keep the literals. For a paper record, automatically reject and follow-up with the hospital. If rejected a second time, code city to "unknown."

Code County using FIPS 6-4. If not in table, then reject record for review and/or follow-up. If electronic record, reject at hospital. Error message should indicate that the county is not listed, please check and re-enter. Record cannot be printed or filed without a county entered.

STATE FILE CONSIDERATIONS

If all components of residence are unknown, use place of occurrence as place of residence for statistical purposes. States may wish to keep the record unknown for legal files. It is recommended that States keep this information in as detailed a format as possible. See the recommended electronic format below. For data collected on paper records, keying instructions need to reflect the detail of the electronic record. If States elect to use GIS on these data then space in the State data file will be needed for the derived variables of latitude, longitude, centroid and extended nine-digit zip code.

ELECTRONIC RECORD

For the purpose of recording and printing certified copies from the electronic file and for geo-coding the record, it is recommended that the address field be separated into fields as described below. These fields generally correspond to the CDC, HISSB recommendations. However, the field lengths do not correspond to the recommendations because the literal entries need to be captured. If a State desires, the literal entries can be transposed to abbreviations for purposes of compacting the file using standard abbreviations as recommended in the HISSB standards. States may wish to collect Zip code to the ninth digit when known rather than just five.

Suggested field names are:

DESCRIPTION	<u>NAME</u>	LENGTH
Street number	STNUM	10
Pre-directional	PREDIR	10
Street name	STNAME	28
Street designator	STDESIG	10
Post-directional	POSTDIR	10
Unit or apartment number	UNUM	7
City or Town name	CITY	28
Zip Code	ZIP	9
County	COUNTY	28
State/Province	STATE	28
Country	COUNTRY	28

States may also opt to retain coded fields as well as the literal entries. If coded fields are maintained as well, there are HISSB standards that should be used. Literals for countries should be assigned codes using FIPS 10-4 using the two character codes for

nations (Appendix A). County should be coded using three digit FIPS 6-4codes (Appendix C). City of residence should be transmitted to NCHS using FIPS 55-3 five digit codes (Appendix C). State/Province should be coded using two character codes and Canadian postal codes, see Appendix B).

Note that new FIPS 10-4 tables are issued regularly. As new FIPS 10-4 tables are issued, new codes should be added, but do not replace existing codes. The old codes are needed for consistency.

NCHS TRANSMISSION FILE

States that elect to use a GIS coding process prior to submission of data to NCHS shall replace the codes for city, town, or other place as well as county codes with those derived from the GIS process.

VARIABLES:

<u>NAME</u>		<u>LENGTH</u>	TYPE	<u>VALUE</u>
CITYC	City/Town	5	Numeric	Appendix C
COUNTYC	County	3	Numeric	Appendix C
STATEC	State/Province	2	Alpha	Appendix B
COUNTRYC	Country	2	Alpha	Appendix A
LIMITS		1	Alpha	Y,N,U

EDI TRANSMISSION:

No standards set yet.

Item Title:	DATE OF BIRTH (FATHER)
Item Number:	10b Certificate, 19 Mother's worksheet
Description:	The father's date of birth
Source of Inform	nation:
Preferred	Source: Mother or father
	INSTRUCTIONS
FOR A PAPER R	ECORD:
Print or type the m	onth, day, and four-digit year of birth.
	of Birth is unknown, print "unknown." If part of the Date of Birth is known parts and leave the remaining parts blank.
DATE OF BIRTH	(Mo/Day/Yr)
FOR AN ELECTI	RONIC RECORD:
EBR Developer (1	Instructions are in Italics)
The Date of Birth separate fields.	item is a three-field entry with the month, day, and year entered in
	be completed, the following message should appear at the top of the on the screen until the last field of the date is completed:
-	arts of the father's date of birth that are known. Leave the parts blank. If the entire date of birth of the father is not known, elds blank.
The date of birth is	s a three-field entry.
Month of fa	ather's birth
Day of fath	er's birth
Year of fatl	ner's birth

As an alternative to leaving unknown values blank, "hot keys" may be used.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
FDOB_YR	Year of Birth	4 digit year	Must be less the child's date of birth
		9999	Unknown
FDOB_MO	Month of Birth	01 02 03 04 05 06 07 08 09 10	January February March April May June July August September October November
		11 12 99	December Unknown
FDOB_DY	Day of Birth	01-31 01-29 01-31 01-30 01-31 01-30 01-31 01-30 01-31 01-30 01-31	January February March April May June July August September October November December Unknown
FAGE_CALC	C Calculated age	00-98 99	Unknown
FAGE_BYPA	ASS	0 1	Off On (data queried)

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

All blank fields will be converted to all 9's.

If month is February and day = 29, year of birth should be a leap year. If not, an error message should appear and ask that the date be corrected.

Age is calculated using father's date of birth (completed dates only) and the child's date of birth.

Calculated age must be >8 and <75.

If age is outside this range a message appears that reads:

Father's age is out of acceptable limits, please check the father's date of birth and re-enter the date of birth.

The entry screen for the father's date of birth appears.

Age is recalculated and if still outside the acceptable limits the FAGE_BYPASS variable is set to ON-1

PAPER RECORD

For paper records, the same edits are applied.

STATE FILE CONSIDERATIONS

While the paper document does not have separate fields for each element of the date, it is recommended that the date be entered and stored as three separate fields.

If states elect to use a database system that has an option of storing dates as "date type variables," then the system must meet the criteria listed under transmission standards.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	<u>LENGTH</u>	TYPE	<u>VALUES</u>
FDOB_YR	4	Numeric or "date type"	4 digit year <year 9999<="" birth,="" of="" td=""></year>
FDOB_MO	2	Numeric or "date type"	01-12, 99
FDOB_DY	2	Numeric or "date type"	01-31 (based on month), 99
FAGE_BYPA	ASS 1	Numeric	0,1

EDI TRANSMISSION:

HL 7 Transmission standards will be followed. This is a time date stamped standard in the following format:

YYYY[MM[DD]]

Year must be fully represented with four digits. Software that stores dates as "date type" must be year 2000 compliant and capable of producing the date in the YYYY..... format and capable of producing messages in the HL7 EDI format.

Item Title:	MOTHER MARRIED?
Item Numbe	er: 15 Certificate; 15, 17 Mother's worksheet
Description:	The marital status of the mother at birth, conception or any time in between.
Source of In	formation:
	rred Source: Mother Source: Informant
	INSTRUCTIONS
FOR A PAPI	ER RECORD:
	is currently married or married at the time of conception or any time eption and birth, check the "Yes" box.
	is not currently married or was not married at the time of conception or any conception and birth, check the "No" box.
	ox is checked, and an acknowledgement of paternity has been signed in the k the "Yes" box for the acknowledgement of paternity. Otherwise check the
MOTHER MA □ Yes	ARRIED? (At birth, conception, or any time between) □ No
IF NO, HAS ↑ HOSPITAL? □ Yes	PATERNITY ACKNOWLEDGEMENT BEEN SIGNED IN THE □ No
FOR AN ELI	ECTRONIC RECORD:
EBR develop	er: (Instructions are in italics)
There are a se	eries of questions required by this item:
A. Has the mo	other ever been married?
	□ Yes

	No
П	Unknown at this time

If the "Yes" box is checked, question B appears.

If the "No" box is checked, B is skipped and question C appears.

If the "Unknown at this time" box is checked, all variables are assigned the "unknown" code, questions B and C are skipped and the following message will appear:

Please contact the mother, if she is still in the facility, to obtain this information. The item will appear on the final review screen.

B. Was the mother married at the time she conceived this child, at the time of birth, or at any time between conception and giving birth?

□ Yes
□ No

If the "Yes" box is checked, the EBR should then request the information about the father (items 10a, 10b, 10c, 19, 23, 24, 25).

If the no box is checked question C appears,

- C. Have the mother and father signed a form (*Insert name of the State acknowledgement of paternity form*) in which the father accepted legal responsibility for the child?
 - □ Yes, a paternity acknowledgement has been completed
 - □ No, a paternity acknowledgement has not been completed.

If the "Yes" box is checked, the EBR must request the information about the father (items 10a, 10b, 10c, 19, 23, 34, 25).

If the "No" box is checked, all items about the father (items 10a, 10b, 10c, 19, 23, 24, 25) are skipped.

PROCESSING VARIABLES:

NAME	DESCRIPTION	VALUES	DEFINITION
MARE	Mother ever married	Y	Yes
		N	No
		U	Unknown
MARN	Mother married at	Y	Yes
	conception, at birth or	N	No
	any time in between	U	Unknown

ACKN	Acknowledgement of	Y	Yes
	paternity signed	N	No
		X	Not applicable
		U	Unknown

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

Each variable must have a response.

If the variable MARE has value "N", the value "N" is assigned to variable MARN.

If the variable MARN has value "Y," the variable ACKN is assigned "X," unless state law allows an acknowledgement in such cases.

If the variable MARN has value "Y" or the variable ACKN has value "Y" items 10a, 10b, 10c, 19, 23 24 and 25 should have entries.

If the variable MARN has value "N" and the variable ACKN has value "N", items 10a, 10b, 10c, 19, 23 24, and 25 must be blank.

PAPER RECORD

Records filed with the "Mother married" item blank should be queried. If no response to query, assign the "unknown" code to all variables.

If the "Yes" box for married now, at conception, or any time in between is checked, the acknowledgement of paternity box must be blank or checked "No." (Specific state law may change this specification; for example, court orders prior to the birth of the child to a married woman.)

State Edits of data file prior to NCHS transmission

See above edits for electronic records.

STATE FILE CONSIDERATIONS

States may need to adjust this item to meet State legal requirements. If states have an electronic paternity acknowledgement, the answers to these questions can be used to drive the creation of the acknowledgement and data from the birth record used to populate the acknowledgement. If an electronic acknowledgement is created and signed first, these data can be used to populate the birth record(s).

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
MARE	1	Alpha character string	Y, N, U
MARN	1	Alpha character string	Y, N, U
ACKN	1	Alpha character string	Y, N, X, U

EDI TRANSMISSION:

No standards set yet.

Item Title: MOTHER'S EDUCATION

Item Number: 20 Certificate; 8 Mother's worksheet

Description: The highest degree or level of schooling completed by

the mother at the time of this delivery

Source of Information:

Preferred Source: Mother or other informant

INSTRUCTIONS

FOR A PAPER RECORD:

Based on the mother's response to the worksheet or interview, check the appropriate box on the certificate. If the mother leaves the item blank on the worksheet and she is still in the facility, query. If the mother has left the facility write "Unknown" in the space.

MOTHER'S EDUCATION

(Check the box that best describes the highest degree or level of school completed at the time of delivery)

8 th grade or less
9 th -12 th grade; no diploma
High school graduate or GED completed
Some college credit, but not a degree
Associate degree (e.g. AA, AS)
Bachelor's degree (e.g. BA, AB, BS)
Master's degree (e.g. MA, MS, MEng, MEd, MSW, MBA)

Doctorate (e.g. PhD, EdD) or Professional degree (e.g. MD, DDS, DVM, LLB,

JD)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

Mother's education level is chosen from the list below and the instructions should appear when the item is to be completed.

Mother's Education

Based on the mother's response to the worksheet or interview, check the category that best describes the highest degree or level of school completed.

_	8 th grade or less
Ш	
	9 th -12 th grade; no diploma
	High school graduate or GED completed
	Some college credit, but not a degree
	Associate degree (e.g. AA, AS)
	Bachelor's degree (e.g. BA, AB, BS)
	Master's degree (e.g. MA, MS, MEng, MEd, MSW
	MBA)
	Doctorate (e.g. PhD, EdD) or Professional degree
	(e.g. MD, DDS, DVM, LLB, JD)
	Unknown

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINITION
MEDUC		1	8 th grade or less
		2	9 th through 12 th grade; no diploma
		3	High school graduate or GED completed
		4	Some college credit, but not a degree
		5	Associate degree (e.g., AA, AS)
		6	Bachelor's degree (e.g., BA, AB, BS)
		7	Master's degree (e.g., MA, MS, MEng, Med, MSW,
			MBA)

	8	Doctorate degree (e.g., PhD, EdD) or professional degree (e.g., MD, DDS, DVM, LLB, JD)
	9	Unknown
MEDUC_BYPASS	0	OFF (default value, edit passed)
	1	ON (edit failed, data queried and verified)
	2	ON (edit failed, data queried and not verified)

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If the "Unknown" box is checked the following message should appear:

If the mother is still in the facility, please obtain her education level. If the mother has left the facility, please check the box below.

□ Mother has left the facility

If the box is checked the item is not pended and will not appear on the final review screen.

At the time of input to an EBR or electronic work sheet, Mother's date of birth will have been entered and edited. Mother's age at the time the worksheet is completed will be calculated and stored as a variable for the purposes of this edit.

If age/education edit indicates a discrepancy, the education information needs to be reviewed.

Valid codes 1-9 (See processing variables for detail)

Values	Minimum Age	
1	None	
2	9	
3	16	
4	17	
5	18	
6	20	

SAMPLE ERROR MESSAGE AND QUERY SCREENS
The data entered in the electronic certificate indicates an unlikely level of education for the mother at her age.
Mother's education level is:
Please check one of the boxes below.
IncorrectCorrectNot able to verify
If the correct box is checked, the following message and query appears:
Mother's date of birth as entered is
Please check one of the boxes below.
IncorrectCorrectNot able to verify
If the "Correct" button for both education and age is checked, the bypass flag is set to ON-1.
If the "Not able to verify" button is checked, the bypass flag is set to ON-2.
If the "Incorrect" button is selected for education, the education selection screen appears. The message asks that an education level be selected. If the edit fails, the bypass flag is set to ON-1. If the edit passes, reset bypass flag to OFF-0.
If the "Incorrect" button is selected for mother's date of birth, the mother's date of birth screen appears. Please enter the correct date of birth
Month of mother's birth

None

Day of mother's birth	
Year of mother's birth	

If the edit fails, the bypass flag is set to ON-1. If the edits passes, reset the bypass flag to OFF-0

PAPER RECORD

The same edits are run on data entered through the State system. The initial edit will catch only keying errors. If the edit fails, a message appears indicating a discrepancy between age and education. The keyer is asked to re-enter the data. If the edit passes, the bypass flag is set to OFF-0. If the data still fail, the edit the bypass flag is set to ON-2.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUE</u>
MEDUC	1	Numeric	1, 2, 3, 4, 5, 6, 7, 8, 9
MEDUC_BYPASS	1	Numeric	0, 1, 2,

EDI TRANSMISSION:

No standards set yet.

Item Title: MOTHER OF HISPANIC ORIGIN?

Item Number: 21 Certificate, 9 Mother's worksheet

Description: The Hispanic origin of the mother.

Source of Information:

Preferred Source: Mother or other informant

INSTRUCTIONS

FOR A PAPER RECORD:

Based on the mother's response to the worksheet or the interview, select all the corresponding checkboxes on the certificate and fill in any literal (written) responses. If mother has chosen more than one response, check all that she selected; for example, if both Mexican and Cuban are checked, select both responses. If the mother indicates an ethnic origin not on the list, record it in the "Specify" space. Enter the mother's response in this space even if it is not a Hispanic origin. If the mother did not respond, type or print "Unknown."

MOTHER OF HISPANIC ORIGIN? (Check the box that best describes whether the mother is Spanish/Hispanic/Latina. Check the "No" box if mother is not Spanish/Hispanic/Latina)

No, not Spanish/Hispanic/Latina
Yes, Mexican, Mexican American, Chicana
Yes, Puerto Rican
Yes, Cuban
Yes, Other Spanish/Hispanic/Latina
(Specify)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

Hispanic origin will be selected from a menu list (below). The instructions should appear with the menu list.

Based on the mother's response, select all the corresponding boxes from the menu below and fill in any literal responses exactly as written on the worksheet regardless of whether or not any checkboxes are marked. If the mother has chosen more than one response, check all that she has selected;

for example, if both Mexican and Cuban are checked, select both responses. If the mother indicates an ethnic origin not on the list, record it in the "Specify" space. Enter the mother's response in this space even if it is not a Hispanic origin. If the mother did not respond, check "Unknown if Spanish/Hispanic/Latina."

MOTHER OF HISPANIC ORIGIN?

No, not Spanish/Hispanic/Latina
Yes, Mexican, Mexican American, Chicana
Yes, Puerto Rican
Yes, Cuban
Yes, Other Spanish/Hispanic/Latina (e.g. Spaniard
Salvadoran, Columbian)
(Specify)
Unknown if Spanish/Hispanic/Latina

If the "Yes, Other Spanish/Hispanic/Latina" button is selected, the following message will appear:

Please enter the specified "other Hispanic origin."	
Other:	

States may give examples of the largest "other Hispanic origin" groups for that State.

Because more than one ethnicity may be reported, there should be a separate field for each of the 4 categories plus a 20-character field in which to enter the "other (specify)" response.

When the "No, not Spanish/Hispanic/Latina" response is chosen, each of the Hispanic origin fields will be automatically coded with the "No, not Hispanic" code. When the keyer moves to another item and at least one Hispanic category is selected, all the Hispanic selections that were not chosen will be automatically coded with the "No, not Hispanic" code.

PROCESSING VARIABLES:

NAME	DESCRIPTION	VALUES	DEFINITION
METHNIC1	Mexican, Mexican American or Chicana	N H U	No, not Mexican Yes, Mexican Unknown
METHNIC2	Puerto Rican	N	No, not Puerto Rican

		H U	Yes, Puerto Rican Unknown
METHNIC3	Cuban	N	No, not Cuban
		H U	Yes, Cuban Unknown
		O	Olikilowii
METHNIC4	Other	N	No, not Other Hisp
		Н	Yes, Other Hisp
		U	Unknown
METHNIC5	Other literal entry	literal (blank)	

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

Electronic record must contain one or more valid responses indicated above. If not, a query message appears before the record can be printed or filed. A replica of the entry screen appears and indicates that one of the categories below must be selected. If states elect to use a missing value variable (*_MVR) for this item, it must have a valid missing value code when the ethnicity values are coded to "unknown."

If the "Unknown if Spanish/Hispanic/Latina origin" box is checked, assign the value "S" to the ***_MVR variable and "U" to all other variables

Any of the Hispanic variables may have an H code. If the mother is not Hispanic, all codes must be N's. If the response is "Unknown," all coded fields must contain a U and the literal field blank.

PAPER RECORD

Records filed with no entry are queried. If no response to query, code to "Unknown."

State edits of data file prior to NCHS transmission

Records with more than one category of Hispanic checked will be transmitted with all codes to NCHS.

All "other (specify)" literals will be reviewed to see if they are of Hispanic origin (see Appendix D). If the literal is in the Appendix and of Hispanic origin, the value of the variable, METHNIC4, will be set to "H," Hispanic origin. If not, it will be set to "N," not Hispanic origin.

Must be valid codes (see above).

STATE FILE CONSIDERATIONS

States opting to electronically code any of the "other (specify)" responses to the Hispanic origin question might want to consider using the HISSB standard coding structure for ethnicity. A field would have to be added to record these codes, and the codes then collapsed into the DVS/NCHS structure for transmission.

Because of the possibility of "Unknown," responses, a missing value variable is recommended to keep track of these responses for intervention, or for follow-up training. All these codes will result in an "Unknown" code for each of the ethnicity fields. The recommended variable name is METHNIC MVR.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUE</u>
METHNIC1	1	Alpha character string	N, H, U
METHNIC2	1	Alpha character string	N, H, U
METHNIC3	1	Alpha character string	N, H, U
METHNIC4	1	Alpha character string	N, H, U
METHNIC5	20	Alpha character string	literal, blank

EDI TRANSMISSION:

No standards set yet.

As a coding service, NCHS can provide the coded Hispanic Origin literals. See Appendix D for current codes.

Item Title: MOTHER'S RACE

Item Number: 22 certificate, 10 mother's worksheet

Description: The race(s) that best describes what the mother considers

herself to be.

Source of Information:

Preferred Source: The mother

INSTRUCTIONS

PAPER RECORD

Based on the mother's response to the worksheet or interview, select all the corresponding checkboxes on the certificate and fill in any literal (written) responses exactly as given regardless of whether or not any checkboxes are marked. If more than one response has been chosen, check all selected; for example, if both "Black" and "Chinese" are checked, select both responses. If there is no response, type or print "Unknown."

MOTHER'S RACE (Check one or more races to indicate what the mother considers herself to be)

	White
	Black or African American
	American Indian or Alaska Native
	(Name of the enrolled or principal tribe)
	Asian Indian
	Chinese
	Filipino
	Japanese
	Korean
	Vietnamese
	Other Asian (Specify)
	Native Hawaiian
	Guamanian or Chamorro
	Samoan
	Other Pacific Islander (Specify)
П	Other (Specify)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The item is completed by selecting one or more races from the menu and/or completing any literal responses. The instructions should appear when the item is to be completed.

Based on the mother's response, select all the corresponding boxes from the menu below and fill in any literal responses exactly as written on the worksheet regardless of whether or not any checkboxes are marked. If more than one race has been chosen, check all selected; for example, if both "Black" and "Chinese" are marked, select both responses. If there is no response, check "Unknown."

Menu

MOTHER'S RACE

White
Black or African American
American Indian or Alaska Native
Tribe(s)
A · T
Asian Indian
Chinese
Filipino
Japanese
Korean
Vietnamese
Other Asian
Specify
Native Hawaiian
Guamanian or Chamorro
Samoan
Other Pacific Islander
Specify
Out
Other
Specify
Unknown

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
MRACE1	White checkbox	Y N	Box for race checked Box for race not checked
MRACE2	Black or African American checkbox	Y N	Box for race checked Box for race not checked
MRACE3	American Indian or Alaska Native checkbox	Y N	Box for race checked Box for race not checked
MRACE4	Asian Indian checkbox	Y N	Box for race checked Box for race not checked
MRACE5	Chinese checkbox	Y N	Box for race checked Box for race not checked
MRACE6	Filipino checkbox	Y N	Box for race checked Box for race not checked
MRACE7	Japanese checkbox	Y N	Box for race checked Box for race not checked
FRACE8	Korean checkbox	Y N	Box for race checked Box for race not checked
MRACE9	Vietnamese checkbox	Y N	Box for race checked Box for race not checked
MRACE10	Other Asian checkbox	Y N	Box for race checked Box for race not checked
MRACE 11	Native Hawaiian checkbox	Y N	Box for race checked Box for race not checked
MRACE 12	Guamanian or Chamorro checkbox	Y N	Box for race checked Box for race not checked
MRACE 13	Samoan checkbox	Y N	Box for race checked Box for race not checked
MRACE14	Other Pacific Islander checkbox	Y N	Box for race checked Box for race not checked

MRACE15	Other checkbox	Y N		Box for race checked Box for race not checked
MRACE16	First American Indian or Alaska Native literal		Literal responses, blank	
MRACE17	Second American Indian o Alaska Native literal	r	Literal responses, blank	
MRACE18	First Other Asian literal		Literal responses, blank	
MRACE19	Second Other Asian literal		Literal responses, blank	
MRACE20	First Other Pacific Islander literal		Literal responses, blank	
MRACE21	Second Other Pacific Islander literal		Literal responses, blank	
MRACE22	First Other literal		Literal responses, blank	
MRACE23	Second Other literal		Literal responses, blank	

EDITS:

Before the record is transmitted to the State

ELECTRONIC RECORD

An entry must be made before another entry field can appear. If the keyer tries to move to another item, a message should appear asking that the Race of the Mother be completed. If the "unknown" box is checked, no other boxes checked and there are no literal entries, each race checkbox variable is assigned the "N" code, and all literals are filled with Ns.

Record cannot be filed or printed unless at least one box is checked.

If the "Unknown," box is checked, and one or more specific race items are checked, ignore the "Unknown."

When a specific race box is selected (checked), the value Y is assigned to that variable.

PAPER RECORD

Records filed with this field blank are queried. If no response to query, assign the "N" code.

If the response is "Unknown," all fields must contain N.

STATE FILE CONSIDERATIONS

After the record is transmitted to the State, the responses on the race item MUST be processed through the coding and editing algorithms to be developed and operated by NCHS, possibly as a web-based application. The coding algorithm will assign a three-digit code to each race processing-variable with an initial positive response, either directly for check-box races or through a table lookup using a table to be developed and maintained by NCHS. If the race is not found in the table, the code for "other" will be assigned. NCHS will also develop an imputation procedure for use when race is unknown

Initial responses on the standard certificate race format can be handled with 15 single-digit fields for check-boxes (MRACE1-MRACE15) and up to eight 30 character fields for literal entries, two for each of the four write-in lines (MRACE16-MRACE23). Three-digit codes assigned by the coding algorithm to the literal positive responses will be stored in MRACE16C-MRACE23C.

The set of three-digit codes assigned to the initial race responses will be run through an edit and reduction algorithm consistent with the basic year 2000 census edits, also to be developed and operated by NCHS. This algorithm will eliminate redundant responses and adjust inconsistent responses and determine the best set of codes for the responses. If a Hispanic response is entered in the "Other" field, an allocation of race will be made at the same time that the edit and reduction algorithm is run.

Output from the edit and reduction algorithm will include up to eight possible race codes that will be stored in variables MRACE1E thru MRACE8E. These eight race output variables are the ones to be used for tabulation purposes. All the processing variables as initially recorded including all the literal entries will be finally transmitted to NCHS along with the eight assigned codes for tabulation.

NCHS TRANSMISSION FILE

VARIABLES:

NAMES	LENGTH	TYPE	VALUES
MRACE1	1	Alpha character string	Y, N
MRACE2	1	Alpha character string	Y, N
MRACE3	1	Alpha character string	Y, N
MRACE4	1	Alpha character string	Y, N
MRACE5	1	Alpha character string	Y, N
MRACE6	1	Alpha character string	Y, N
MRACE7	1	Alpha character string	Y, N
MRACE8	1	Alpha character string	Y, N
MRACE9	1	Alpha character string	Y, N
MRACE10	1	Alpha character string	Y, N

MRACE11	1	Alpha character string	Y, N
MRACE12	1	Alpha character string	Y, N
MRACE13	1	Alpha character string	Y, N
MRACE14	1	Alpha character string	Y, N
MRACE15	1	Alpha character string	Y, N
MRACE16	30	Alpha character string	Literal, blank
MRACE17	30	Alpha character string	Literal, blank
MRACE18	30	Alpha character string	Literal, blank
MRACE19	30	Alpha character string	Literal, blank
MRACE20	30	Alpha character string	Literal, blank
MRACE21	30	Alpha character string	Literal, blank
MRACE22	30	Alpha character string	Literal, blank
MRACE23	30	Alpha character string	Literal, blank

TO BE PRODUCED BY THE NCHS EDITING ALGORITHM

MRACE1E	3	Alpha-numeric character string	Appendix E
MRACE2E	3	Alpha-numeric character string	Appendix E
MRACE3E	3	Alpha-numeric character string	Appendix E
MRACE4E	3	Alpha-numeric character string	Appendix E
MRACE5E	3	Alpha-numeric character string	Appendix E
MRACE6E	3	Alpha-numeric character string	Appendix E
MRACE7E	3	Alpha-numeric character string	Appendix E
MRACE8E	3	Alpha-numeric character string	Appendix E

TO BE PRODUCED BY THE NCHS CODING ALGORITHM

MRACE16C	3	Alpha-numeric character string	Appendix E
MRACE17C	3	Alpha-numeric character string	Appendix E
MRACE18C	3	Alpha-numeric character string	Appendix E
MRACE19C	3	Alpha-numeric character string	Appendix E
MRACE20C	3	Alpha-numeric character string	Appendix E
MRACE21C	3	Alpha-numeric character string	Appendix E
MRACE22C	3	Alpha-numeric character string	Appendix E
MRACE23C	3	Alpha-numeric character string	Appendix E

EDI TRANSMISSION: No standards set yet.

Item Title: FATHER'S EDUCATION

Item Number: 23 Certificate, 21 Mother's worksheet

Description: The highest degree or level of schooling completed by

the father at the time of this delivery

Source of Information:

Preferred Source: Mother or father

INSTRUCTIONS

FOR A PAPER RECORD:

Based on the mother's or father's response to the worksheet or interview, check the appropriate box in the listing on the certificate. If the item is blank and either parent is still in the facility, query. If the parents have left the facility write in "Unknown" in the space.

FATHER'S EDUCATION

(Check the box that best describes the highest degree or level of school completed at the time of delivery)

8 th grade or lesse
9 th -12 th grade; no diploma
High school graduate or GED completed
Some college credit, but not a degree
Associate degree (e.g. AA, AS)
Bachelor's degree (e.g. BA, AB, BS)
Master's degree (e.g. MA, MS, MEng, MEd, MSW, MBA)
Doctorate (e.g. PhD, EdD) or Professional degree (e.g. MD, DDS, DVM, LLB
JD)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

Father's education level is chosen from the list below and the instructions should appear when the item is to be completed.

Father's Education

Based on the response to the worksheet or interview, check the category that best describes the highest degree or level of school completed.

8 th grade or less
9 th -12 th grade; no diploma
High school graduate or GED completed
Some college credit, but not a degree
Associate degree (e.g. AA, AS)
Bachelor's degree (e.g. BA, AB, BS)
Master's degree (e.g. MA, MS, MEng, MEd, MSW
MBA)
Doctorate (e.g. PhD, EdD) or Professional degree
(e.g. MD, DDS, DVM, LLB, JD)
Unknown

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
FEDUC		1	8 th grade or less
		2	9 th through 12 th grade; no diploma
		3	High school graduate or GED completed
		4	Some college credit, but not a degree
		5	Associate degree (e.g., AA, AS)
		6	Bachelor's degree (e.g., BA, AB, BS)
		7	Master's degree (e.g., MA,
			MS, MEng, Med, MSW,
			MBA)

	8	Doctorate degree (e.g., PhD, EdD) or professional degree (e.g., MD, DDS, DVM, LLB, JD)
	9	Unknown
FEDUC_BYPASS	0	OFF (default value, edit passed)
	1	ON (edit failed, data queried and verified)
	2	ON (edit failed, data queried and not verified)

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If the "Unknown" box is checked the following message should appear:

If the parents are still in the facility, please obtain the father's education level. If they have left the facility, please check the box below.

□ Parents have left the facility

If the box is checked the item is not pended and will not appear on the final review screen.

At the time of input to an EBR or electronic work sheet, Father's date of birth will have been entered and edited. Father's age at the time the worksheet is completed will be calculated and stored as a variable for the purposes of this edit

If age/education edit indicates a discrepancy, the education information needs to be reviewed.

Valid codes 1-9 (See processing variables for detail)

Values	Minimum Age
1	None
2	9
3	16
4	17
5	18
6	20
7	21

8	23
9	None

SAMPLE ERROR MESSAGE AND QUERY SCREENS

The data entered in the electronic certificate indicates an unlikely level of education for the father for his age.

Father's education level is:			
	Please	check one of the boxes below.	
		Incorrect	
		Correct	
		Not able to verify	

If the "Correct" button is checked, the bypass flag is set to ON-1.

If the "Not able to verify" button is checked, the bypass flag is set to ON-2.

If the "Incorrect" button is selected, the education selection list appears. The message asks that an education level be selected. If the edit fails, the bypass flag is set to ON-1. If the edit passes, reset bypass flag to OFF-0.

PAPER RECORD

The same edits are run on data entered through the State system. The initial edit will catch only keying errors. If the edit fails, a message appears indicating a discrepancy between age and education. The keyer is asked to re-enter the data. If the edit passes, the bypass flag is set to OFF-0. If the data still fail, the edit the bypass flag is set to ON-2.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUE</u>
FEDUC	1	Numeric	1, 2, 3, 4, 5, 6, 7, 8, 9
FEDUC_BYPASS	1	Numeric	0, 1, 2

EDI TRANSMISSION:

No standards set yet.

Item Title: **FATHER OF HISPANIC ORIGIN?**

Item Number: 24 Certificate, 22 Mother's worksheet

Description: The Hispanic origin of the father.

Source of Information:

Preferred Source: Mother or father

INSTRUCTIONS

FOR A PAPER RECORD:

Based on the mother's or father's response to the worksheet or the interview, select all the corresponding checkboxes on the certificate and fill in any literal (written) responses. If more than one response has been chosen, check all selected; for example, if both Mexican and Cuban are checked, select both responses. If an ethnic origin not on the list is indicated, record it in the "Specify" space. Enter the response in this space even if it is not a Hispanic origin. If no response, type or print "Unknown."

FATHER OF HISPANIC ORIGIN? (Check the box that best describes whether the father is Spanish/Hispanic/Latino. Check the "No" box if father is not Spanish/Hispanic/Latino)

No, not Spanish/Hispanic/Latino
Yes, Mexican, Mexican American, Chicano
Yes, Puerto Rican
Yes, Cuban
Yes, Other Spanish/Hispanic/Latino
(Specify)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

Hispanic origin will be selected from a menu list (below). The instructions should appear with the menu list.

Based on the mother's or father's response, select all the corresponding boxes from the menu below and fill in any literal responses exactly as written on the worksheet regardless of whether or not any checkboxes are marked. If more than one response is chosen, check all selected; for example, if both Mexican and Cuban are checked, select both responses. If an ethnic origin

not on the list is indicated, record it in the "Specify" space. Enter the response in this space even if it is not a Hispanic origin. If no response, check "Unknown if Spanish/Hispanic/Latino."

FATHER OF HISPANIC ORIGIN?

No, not Spanish/Hispanic/Latino
Yes, Mexican, Mexican American, Chicano
Yes, Puerto Rican
Yes, Cuban
Yes, Other Spanish/Hispanic/Latino (e.g. Spaniard
Salvadoran, Columbian)
(Specify)
Unknown if Spanish/Hispanic/Latino

If the "Yes, Other Spanish/Hispanic/Latino" button is selected, the following message will appear:

Please enter the specified	"other Hispanic origin."	
Other:		

States may give examples of the largest "other Hispanic origin" groups for that State.

Because more than one ethnicity may be reported, there should be a separate field for each of the 4 categories plus a 20-character field in which to enter the "other (specify)" response.

When the "No, not Spanish/Hispanic/Latino" response is chosen, each of the Hispanic origin fields will be automatically coded with the "No, not Hispanic" code. When the keyer moves to another item and at least one Hispanic category is selected, all the Hispanic selections that were not chosen will be automatically coded with the "No, not Hispanic" code.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
FETHNIC1	Mexican, Mexican Ameri-	N	No, not Mexican
	can or Chicano	H	Yes, Mexican
		U	Unknown
FETHNIC2	Puerto Rican	N	No, not Puerto Rican
		H	Yes, Puerto Rican
		U	Unknown

FETHNIC3	Cuban	N	No, not Cuban
		Н	Yes, Cuban
		U	Unknown
FETHNIC4	Other	N	No, not Other Hisp
		Н	Yes, Other Hisp
		U	Unknown
FETHNIC5	Other literal entry	literal	
		(blank)	

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

Electronic record must contain one or more valid responses indicated above. If not, a query message appears before the record can be printed or filed. A replica of the entry screen appears and indicates that one of the categories below must be selected. If states elect to use a missing value variable (*_MVR) for this item, it must have a valid missing value code when the ethnicity values are coded to "unknown."

If the "Unknown if Spanish/Hispanic/Latino origin" box is checked, assign the value "S" to the ***_MVR variable and "U" to all other variables

Any of the Hispanic variables may have an H code. If the father is not Hispanic, all codes must be N's. If the response is "Unknown," all coded fields must contain a U and the literal field blank.

PAPER RECORD

Records filed with no entry are queried. If no response to query, code to "Unknown."

State edits of data file prior to NCHS transmission

Records with more than one category of Hispanic checked will be transmitted with all codes to NCHS.

All "other (specify)" literals should be reviewed to see if they are of Hispanic origin (See Appendix D). If the literal is in the Appendix and of Hispanic origin, the value of the variable, FETHNIC4, will be set to "H," Hispanic origin. If not, it will be set to "N," not Hispanic origin.

Must be valid codes (see above).

STATE FILE CONSIDERATIONS

States opting to electronically code any of the "other (specify)" responses to the Hispanic origin question might want to consider using the HISSB standard coding structure for ethnicity. A field would have to be added to record these codes, and the codes then collapsed into the DVS/NCHS structure for transmission.

Because of the possibility "Unknown," responses, a missing value variable is recommended to keep track of these responses for intervention, or for follow-up training. All these codes will result in an "Unknown" code for each of the ethnicity fields. The recommended variable name is FETHNIC_MVR.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	VALUE
FETHNIC1	1	Alpha character string	N, H, U
FETHNIC2	1	Alpha character string	N, H, U
FETHNIC3	1	Alpha character string	N, H, U
FETHNIC4	1	Alpha character string	N, H, U
FETHNIC5	20	Alpha character string	literal, blank

EDI TRANSMISSION:

No standards set yet.

As a coding service, NCHS can provide the coded Hispanic Origin literals. See Appendix D for current codes.

Item Title: FATHER'S RACE

Item Number: 25 certificate, 23 mother's worksheet

Description: The race(s) that best describes what the father considers

himself to be.

Source of Information:

Preferred Source: The father

INSTRUCTIONS

PAPER RECORD

Based on the response to the worksheet or interview, select all the corresponding checkboxes on the certificate and fill in any literal (written) responses exactly as given regardless of whether or not any checkboxes are marked. If more than one response has been chosen, check all selected; for example, if both "Black" and "Chinese" are checked, select both responses. If there is no response, type or print "Unknown."

FATHER'S RACE (Check one or more races to indicate what the father considers himself to be)

White
Black or African American
American Indian or Alaska Native
(Name of the enrolled or principal tribe)
Asian Indian
Chinese
Filipino
Japanese
Korean
Vietnamese
Other Asian (Specify)
Native Hawaiian
Guamanian or Chamorro
Samoan
Other Pacific Islander (Specify)
Other (Specify)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The item is completed by selecting one or more races from the menu and/or completing any literal responses. The instructions should appear when the item is to be completed.

Based on the response to the worksheet, select all the corresponding boxes from the menu below and fill in any literal responses exactly as written on the worksheet regardless of whether or not any checkboxes are marked. If more than one race has been chosen, check all selected; for example, if both "Black" and "Chinese" are marked, select both responses. If there is no response, check "Unknown."

Menu

FATHER'S RACE

White
Black or African American
American Indian or Alaska Native
Tribe(s)
Asian Indian
Chinese
Filipino
Japanese
Korean
Vietnamese
Other Asian
Specify
Native Hawaiian
Guamanian or Chamorro
Samoan
Other Pacific Islander
Specify
Other
Specify
,
Unknown

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
FRACE1	White checkbox	Y N	Box for race checked Box for race not checked
FRACE2	Black or African American checkbox	Y N	Box for race checked Box for race not checked
FRACE3	American Indian or Alaska Native checkbox	Y N	Box for race checked Box for race not checked
FRACE4	Asian Indian checkbox	Y N	Box for race checked Box for race not checked
FRACE5	Chinese checkbox	Y N	Box for race checked Box for race not checked
FRACE6	Filipino checkbox	Y N	Box for race checked Box for race not checked
FRACE7	Japanese checkbox	Y N	Box for race checked Box for race not checked
FRACE8	Korean checkbox	Y N	Box for race checked Box for race not checked
FRACE9	Vietnamese checkbox	Y N	Box for race checked Box for race not checked
FRACE10	Other Asian checkbox	Y N	Box for race checked Box for race not checked
FRACE 11	Native Hawaiian checkbox	Y N	Box for race checked Box for race not checked
FRACE 12	Guamanian or Chamorro checkbox	Y N	Box for race checked Box for race not checked
FRACE 13	Samoan checkbox	Y N	Box for race checked Box for race not checked
FRACE14	Other Pacific Islander checkbox	Y N	Box for race checked Box for race not checked

FRACE15	Other checkbox	Y N		Box for race checked Box for race not checked
FRACE16	First American Indian or Alaska Native literal		Literal responses, blank	
FRACE17	Second American Indian o Alaska Native literal	or	Literal responses, blank	
FRACE18	First Other Asian literal		Literal responses, blank	
FRACE19	Second Other Asian literal	l	Literal responses, blank	
FRACE20	First Other Pacific Islander literal		Literal responses, blank	
FRACE21	Second Other Pacific Islander literal		Literal responses, blank	
FRACE22	First Other literal		Literal responses, blank	
FRACE23	Second Other literal		Literal responses, blank	

EDITS:

Before the record is transmitted to the State

ELECTRONIC RECORD

An entry must be made before another entry field can appear. If the keyer tries to move to another item, a message should appear asking that the Race of the Father be completed. If the "unknown" box is checked, no other boxes checked and there are no literal entries, each race checkbox variable is assigned the "N" code, and all literals are filled with Ns.

Record cannot be filed or printed unless at least one box is checked.

If the "Unknown," box is checked, and one or more specific race items are checked, ignore the "Unknown."

When a specific race box is selected (checked), the value Y is assigned to that variable.

PAPER RECORD

Records filed with this field blank are queried. If no response to query, assign the "N" code.

If the response is "Unknown," all fields must contain N.

STATE FILE CONSIDERATIONS

After the record is transmitted to the State, the responses on the race item MUST be processed through the coding and editing algorithms to be developed and operated by NCHS, possibly as a web-based application. The coding algorithm will assign a three-digit code to each race processing-variable with an initial positive response, either directly for check-box races or through a table lookup using a table to be developed and maintained by NCHS. If the race is not found in the table, the code for "other" will be assigned. NCHS will also develop an imputation procedure for use when race is unknown

Initial responses on the standard certificate race format can be handled with 15 single-digit fields for check-boxes (FRACE1-FRACE15) and up to eight 30character fields for literal entries, two for each of the four write-in lines (FRACE16-FRACE23). Three-digit codes assigned by the coding algorithm to the literal positive responses will be stored in FRACE16C-FRACE23C.

The set of three-digit codes assigned to the initial race responses will be run through an edit and reduction algorithm consistent with the basic year 2000 census edits, also to be developed and operated by NCHS. This algorithm will eliminate redundant responses and adjust inconsistent responses and determine the best set of codes for the responses. If a Hispanic response is entered in the "Other" field, an allocation of race will be made at the same time that the edit and reduction algorithm is run.

Output from the edit and reduction algorithm will include up to eight possible race codes that will be stored in variables FRACE1E thru FRACE8E. These eight race output variables are the ones to be used for tabulation purposes. All the processing variables as initially recorded including all the literal entries will be finally transmitted to NCHS along with the eight assigned codes for tabulation.

NCHS TRANSMISSION FILE

VARIABLES:

NAMES	LENGTH	<u>TYPE</u>	VALUES
FRACE1	1	Alpha character string	Y, N
FRACE2	1	Alpha character string	Y, N
FRACE3	1	Alpha character string	Y, N
FRACE4	1	Alpha character string	Y, N
FRACE5	1	Alpha character string	Y, N
FRACE6	1	Alpha character string	Y, N
FRACE7	1	Alpha character string	Y, N
FRACE8	1	Alpha character string	Y, N
FRACE9	1	Alpha character string	Y, N

FRACE10	1	Alpha character string	Y, N
FRACE11	1	Alpha character string	Y, N
FRACE12	1	Alpha character string	Y, N
FRACE13	1	Alpha character string	Y, N
FRACE14	1	Alpha character string	Y, N
FRACE15	1	Alpha character string	Y, N
FRACE16	30	Alpha character string	Literal, blank
FRACE17	30	Alpha character string	Literal, blank
FRACE18	30	Alpha character string	Literal, blank
FRACE19	30	Alpha character string	Literal, blank
FRACE20	30	Alpha character string	Literal, blank
FRACE21	30	Alpha character string	Literal, blank
FRACE22	30	Alpha character string	Literal, blank
FRACE23	30	Alpha character string	Literal, blank

TO BE PRODUCED BY THE NCHS EDITING ALGORITHM

FRACE1E	3	Alpha-numeric character string	Appendix E
FRACE2E	3	Alpha-numeric character string	Appendix E
FRACE3E	3	Alpha-numeric character string	Appendix E
FRACE4E	3	Alpha-numeric character string	Appendix E
FRACE5E	3	Alpha-numeric character string	Appendix E
FRACE6E	3	Alpha-numeric character string	Appendix E
FRACE7E	3	Alpha-numeric character string	Appendix E
FRACE8E	3	Alpha-numeric character string	Appendix E

TO BE PRODUCED BY THE NCHS CODING ALGORITHM

FRACE16C	3	Alpha-numeric character string	Appendix E
FRACE17C	3	Alpha-numeric character string	Appendix E
FRACE18C	3	Alpha-numeric character string	Appendix E
FRACE19C	3	Alpha-numeric character string	Appendix E
FRACE20C	3	Alpha-numeric character string	Appendix E
FRACE21C	3	Alpha-numeric character string	Appendix E
FRACE22C	3	Alpha-numeric character string	Appendix E
FRACE23C	3	Alpha-numeric character string	Appendix E

EDI TRANSMISSION: No standards set yet.

Item Title: ATTENDANT'S NAME, TITLE, AND NPI

Item Number: 27 Certificate, 25 Facility worksheet

Description: The name of the attendant (the person responsible for delivering

the child), their title, and their National Provider Identification

(NPI) Number.

The attendant at birth is defined as the individual physically present at the delivery who is responsible for the delivery. For example, if an intern or nurse-midwife delivers an infant under the supervision of an obstetrician who is present in the delivery room, the obstetrician is to be reported as the attendant. However, if the obstetrician is not physically present, the intern or nurse-midwife is

to be reported as the attendant.

Source of Information:

Preferred Source: Delivery record

Other Source: Attendant

INSTRUCTIONS

FOR A PAPER RECORD:

This item is to be completed by the facility. If the birth did not occur in a facility, it is to be completed by the attendant or certifier.

Please print or type the name of the person who attended the birth and their National Provider Identification (NPI) number:

NAME:	NPI

If attendant does not have an NPI number, type or print "none." If the attendant should have an NPI number but it is unknown, type or print "unknown."

Please check one box below to specify the attendant's title. If the "other (specify)" box is checked, please print or type the title of the attendant. Examples include: nurse, father, police officer, EMS technician, etc.

_	MD
	DO
	CNM/CM
	Other midwife
	Other (specify)

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in italics)

The following definition should be available in the help function:

The attendant at birth is defined as the individual physically present at the delivery who is responsible for the delivery. For example, if an intern or nurse-midwife delivers an infant under the supervision of an obstetrician who is present in the delivery room, the obstetrician is to be reported as the attendant. However, if the obstetrician is not physically present, the intern or nurse-midwife is to be reported as the attendant.

This item is to be completed by the facility. Data are to be keyed from the facility worksheet or from information obtained from the attendant. If the birth did not occur in a facility, it is to be completed by the attendant or certifier.

Attendant's Name, Title and NPI

The attendant's name should be three fields (last name, first name, middle name or initial).

When the attendant's name is entered the software should automatically examine a roster of attendants to see if the name is on the roster for the facility. If it is on the roster, the attendant's title and NPI number are automatically completed. Note the software can be set up to bring up a name after only a few letters are entered.

NOTE: This process can also be constructed as a drop down list of possible attendants. But, this approach could easily lead to errors that cannot be caught or edited.

If the name is not on the roster, the following screens will appear:

Attendant's National Provider Identification Number

The instructions below should appear when the NPI is to be entered.

If attendant does not have an NPI number, enter "none." If the attendant should have an NPI number but it is unknown, enter "unknown."

Attendant's Title

Attendant's title is to be selected from the list below.

MD
DO
CNM/CM
Other midwife
Other(specify)
Unknown

If the "other" box is checked, following message appears:

Please specify the title of the "other" attendant. Examples include: nurse, father, police officer, EMS technician, etc.

After the above items are completed, an option of adding the attendant information to the facility roster of attendants is offered.

Roster of Attendants

Do you wish this information to be added to your facility's roster of attendants?

Yes
No

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
ATTENDN NPI	Attendant's name National provider ID number	Alpha character strin Alpha/numeric	ng
ATTEND	Type of attendant	1	MD DO
		2	DO
		3	CNM/CM
		4	Other midwife
		5	Other(specify)

9 Unknown

ATTENDS Other specified attendant Alpha character string

EDITS:

ELECTRONIC RECORD

Before the record is submitted to the State

Record must have a name of an attendant. Only one attendant is allowed. If more than one box is checked the following message appears:

More than one attendant was selected. Please choose one attendant from the menu below.

Original menu appears:

If "type of attendant" is blank, the record can not be filed or printed until item is complete.

All "other (specify)" - "unknown" responses will be automatically coded to the "not classifiable" code.

PAPER RECORD

Records filed with the type of attendant blank or unknown should be queried. If no response to query, enter "unknown" in the other specify location.

All "other (specify)" – "unknown" responses will be automatically be coded to the "not classifiable" code.

If more than one attendant is selected, choose the first listed attendant.

State Edits of data file prior to NCHS transmission

Must be a valid code (see below).

STATE FILE CONSIDERATIONS

State offices will have to design their software to handle the names of attendants and their NPI numbers. States may want to maintain only the NPI numbers and a reference list roster of names and other information about attendants. States may also want to code the "other (specify)" attendants.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
ATTEND	1	Numeric	1,2,3,4,5,9

EDI TRANSMISSION:

No standards set yet.

Item Title:	MOTHER TRANSFERRED FOR MATERNAL MEDICAL OR FETAL INDICATIONS FOR DELIVERY?
Item Number:	28 Certificate, 24 Facility work sheet
Description:	Information of the transfer status of the mother prior to delivery
Source of Informat	ion:
Preferred So	urce: Labor and delivery nursing admission triage form, Admission history and physical, Labor and delivery
	INSTRUCTIONS
FOR A PAPER REC	CORD:
	apleted by the facility. If the birth did not occur in a facility, it is to attendant or certifier and the response must be "no."
MOTHER TRANSFE INDICATIONS FOR	ERRED FOR MATERNAL MEDICAL OR FETAL DELIVERY?
	Yes No
IF YES, ENTER NAMEROM:	ME OF FACILITY MOTHER TRANSFERRED
If the name of the fac	ility is not known, enter "unknown."

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

If the response to certificate item 26 is any response but hospital, this item is automatically completed with the "no" response and will not appear on the EBR screen.

Was the mother transferred to this facility for maternal medical or fetal indications prior to delivery? Transfers include hospital to hospital, birthing facility to hospital etc.

Yes
No
Unknown

If the yes box is checked, the following appears:

Please enter the name of the facility the mother transferred from. If the name of the facility is not known, enter "unknown."

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
TRAN	Mother transferred	Y N U	Yes No Unknown
NFACL	Name of facility	Alpha/Numeric	

EDITS:

ELECTRONIC RECORD

Before the record is transferred to the State

The transfer status cannot be blank.

If transfer status is left blank, the item will reappear at the final review screen. Record cannot be printed or transferred to the state until item is complete.

If transfer status is "no", the name of facility field must be blank.

If the transfer status is "yes", the name of facility field must have an entry. "Unknown"

is an acceptable entry.

If the name of the facility field has any entry except "unknown" and the transfer status is "no", a query message should appear indicating the inconsistency and asking that it be corrected.

If transfer status is "yes", the response to item 26 must be "hospital." If any response but "hospital", a query message should appear. Either certificate item 26 must be changed to "hospital" or certificate item 28 changed to "no."

PAPER RECORD

Records filed with the transfer status blank shall be queried. If no response to query, enter response of "no."

If transfer status is "no", the name of facility field must be blank.

If the transfer status is "yes", the name of facility field must have an entry. "Unknown" is an acceptable entry.

If the name of the facility field has any entry except "unknown" and the transfer status is "no", query the inconsistency and resolve.

If transfer status is "yes", then the response to certificate item 26 must be "hospital." If not, query. Either certificate item 26 must be changed to "hospital" or certificate item 28 changed to "no."

State Edits of data file prior to NCHS transmission

Must be a valid code (see below)

STATE FILE CONSIDERATIONS

States will need to have a field for the literal entry of facility names. They may also want to collect the facility NPI number or assign their own facility code.

NCHS TRANSMISSION FILE

VARIABLES:

NAME:	LENGTH	TYPE	VALUES
TRAN	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet.

Item Title: DATES OF FIRST AND LAST PRENATAL

CARE VISIT

Item Number: 29a Certificate, 6a Facility worksheet

29b Certificate, 6b Facility worksheet

Description: Date that the mother had her first prenatal care visit.

Date that the mother had her last prenatal care visit.

Source of Information:

Preferred Source: Prenatal care record Other Source: Initial physical exam

INSTRUCTIONS

If the information is not in the mother's file, please contact the prenatal care provider and obtain a copy of the prenatal care record.

DATA COLLECTION:

The following paragraph appears on the paper worksheet provided by NCHS before the section of data to be obtained from the mother's prenatal care record. The paragraph should also appear on an electronic worksheet just before the section of information to be obtained from the mother's prenatal care record.

"Information for this and the following items should come from the mother's prenatal care record and from other medical reports in the mother's chart, as well as the infant's medical record. If the mother's prenatal care record is not in her hospital chart, please contact her prenatal care provider to obtain the record, or a copy of the prenatal care information. Preferred and acceptable sources for each item are listed in worksheets. Please do not provide information from sources other than the medical records."

FOR A PAPER RECORD:

Print or type the month, day, and year of the first prenatal care visit. Complete all parts of the date that are available; leave the rest blank.

If it is not known whether the mother had prenatal care, or if she had care but the date of the first visit is not known, write in "unknown."

DATE OF FIRST PRENATAL CARE VISIT

MM DD YYYYY

Print or type the month, day, and year of the last prenatal care visit recorded in the records.

Complete all parts of the date that are available; leave the rest blank.

If it is not known whether the mother had prenatal care, or if she had care but the date of the last visit is not known, write in "unknown."

DATE OF FIRST PRENATAL CARE VISIT $\frac{1}{MM} \frac{1}{DD} \frac{1}{YYYY}$

If the mother had no prenatal care, check the "no prenatal care" box and leave the date blank.

☐ No Prenatal Care

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

When the date of first and last prenatal care visit is to be entered, it is critical that the recommended message screens appear when appropriate.

The following message should appear first:

Check this button if the information needed to complete the date of first and/or last prenatal care visit is currently not available, but an effort is being made to obtain it.

□ Information not currently available

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example the instruction could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

When this button is checked, the item is skipped and placed in pending status for completion at a later time. See "Final Review Screen."

Each part of the three-part date fields must be entered independently so that all parts of the dates which are known are captured.

Complete ALL PARTS of the dates that are available.

Leave blank any parts of the dates that are not known.

Month of the first visit Day of the first visit Year of the first visit	
Month of the last visit Day of the last visit Year of the last visit	

If there are any date entries, the next question is not asked and is automatically completed with "yes."

Did the mother receive any prenatal care?

□ Yes

□ No

If the "no" button is checked, the date fields are automatically completed with the "no prenatal care" codes. However, the final review screen will include a query for the clerk, asking if this information is correct. The number of prenatal care visits is set to value "0" and the item is skipped.

If the "no" box is checked on a paper record and entry is through the state data entry system, the date fields are automatically completed with the "no prenatal care" codes. Item 30 "Number of prenatal care visits" is set to value "0" and the item skipped. The "no prenatal care" code is assigned to the derived variable "Month prenatal care began."

If the "yes" button checked, the date fields are automatically completed with the "unknown" codes. Also, a message should appear that reads:

Please obtain the mother's prenatal care record or other hospital record in order to enter the date of the mother's first prenatal care visit before the record is filed.

PROCESSING VARIABLES:

<u>NAME</u>	<u>DESCRIPTION</u>	<u>VALUES</u> <u>DEFINITION</u>
DOFP_MO	Month of first prenatal care visit	01-12, 88, 99
DOFP_DY	Day of first prenatal care visit 01-31	(depending on month), 88,99
DOFP_YR	Year of first prenatal care visit	Yr of child's birth or yr of child's

DOLP_MO DOLP_DY DOLP_YR	Month of last prenatal care visit Day of last prenatal care visit Year of last prenatal care visit	birth –1, 8888,9999 01-12, 88, 99 01-31 (depending on 88, 99 Yr of child's birth, or birth –1, 8888, 9999	,,
		88, 8888	No prenatal care
		99, 9999	Unknown
DNA29	Pending flag	0	OFF ON
PNC	Prenatal care	Y N	Yes No

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

New data entered at the time of an edit replaces any data currently in the data file.

If the "Data not available at this time" box is checked, the pending flag is set to ON-1, the date variables are assigned the "unknown" codes and the edits are skipped. The item will appear on the final review screen.

The date is checked for validity (a proper combination of month day and year). If any of the fields are not valid a message should appear and ask that the value be re-entered. Edits are re-run until valid values are entered.

If there is a complete date for both the first and last prenatal care visits, the date of the first prenatal care visit must be earlier or the same as the date of the last prenatal care visit. If it is not, a message should appear pointing out the discrepancy and asking that the dates be re-entered.

The dates of the first and last prenatal visits are compared to the date of delivery. The date of the first visit must be earlier than the date of delivery but no more than 10 months earlier. The date of the last visit can be no later than the date of delivery. The comparison is run only if a complete date is entered. If the date does not meet the edit criteria the following message appears:

The date of _____ is not a valid date for this woman's first prenatal care visit. Please check the date and re-enter:

A date entry, even if it is the same date as currently entered, must be made on this screen. The entry operator cannot tab past this screen. The comparison is rerun with the newly entered date. If the edit still fails the date is accepted.

PAPER RECORD

The same edits as above are run when data are key entered through the state system. This should be done at the time of key entry for the state entry system. After a new date is entered, the edit must be rerun. If the edit still fails, a message should appear that the item is to be queried. A date entered after query is edited but accepted and will be transmitted to NCHS.

STATE FILE CONSIDERATIONS

While the paper document does not have separate fields for each element of the date of first or last prenatal care visit, the dates must be entered and stored as three separate fields.

If states elect to use a data base system that has an option of storing dates as "date type variables," then the system must meet the criteria listed under transmission standards.

Dates that fail the edit criteria (that is, are more than one year earlier than the child's date of birth) shall be changed to "unknown" before transmission to NCHS.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUES</u>
DOFP_MO DOFP_DY	2 2	Numeric Numeric	01-12, 88, 99 01-31, 88, 99
DOFP_YR	4	Numeric	4 digit year, year of child's birth or year-1, 8888, 9999
DOLP MO	2	Numeric	01-12, 88, 99
DOLP_DY	2	Numeric	01-31, 88, 99
DOLP_YR	4	Numeric	4 digit year, year of Child birth or year–1, 8888, 9999

EDITRANSMISSION:

HL 7 transmission standards will be followed for the table.

Format-----YYYY[MM[DD]]

Year must be fully represented with four digits. Software that stores dates as "date type" must be year 2000 compliant and capable of producing the date in the YYYY format and capable of producing messages in the HL7 EDI Format.

DERIVED VARIABLES:

Outlined below is the calculation for the derived variable "The Month Prenatal Care Began." States should not keep or use the derived variable "Month Prenatal Care Began" as calculated below for any purpose other than editing. This variable is a crude calculation to be used only for editing.

At a later date, NCHS will provide the method used by NCHS to impute the missing "day" for records for which the day of the date of the first visit is unknown. Although the imputed day and the derived variable will not, at least initially, be transmitted to NCHS, use of these standardized edits, and imputation and calculation methods will help to ensure that the variable is reported as comparably as possible across reporting areas.

.

CALCULATION OF "THE MONTH PRENATAL CARE BEGAN"

The month of prenatal care is calculated using the "Date of Last Menstrual Period" (where available) and the "Date of First Prenatal Care Visit" item.

The following algorithm is used to calculate the item "The Month Prenatal Care Began."

1. Convert to century dates the Date Last Menstrual Period Began (CDLMP) and Date of the First Prenatal Visit (CDPV) as follows:

$$CDPV = (365*YYYY)+DY$$

Where YYYY is the four digit year of the first prenatal care visit

DY is the number of days in the year prior to the beginning of the month of the date of first prenatal care visit + the day of the first prenatal care visit. (If the day is not known it will be imputed according to a method to be provided).

Month	#Prior Days*	Month	#Prior Days*
January	0	July	181
February	31	August	212
March	59	September	243
April	90	October	273
May	120	November	304
June	151	December	334

^{*} In leap years add 1 to all numbers March-December

Example

Date of first prenatal care visit: April 10, 2003 Date of LMP is March 1, 2003

1.Obtain the number of days between date of last LMP and date of first prenatal care visit.

2. Convert days to months of pregnancy.

Assume each month has 30.4 days (365/12) and use the following table:

Days	Month
1-30	1 st
31-61	2 nd
62-91	3 rd
92-122	4 th
123-152	5 th
153-182	6 th
183-213	7 th
214-243	8 th
244-274	9 th
275-304	10 th
305+	99 (unknown)

In this example the "Month Prenatal Care Began would be the 2^{nd} month and assigned the value "2".

If the month and day of LMP date are missing, use obstetric estimate of gestation (OE) in weeks and use in place of CDLMP the variable CD(OE) calculated as follows:

Calculate century date of birth as above and then

In this situation if obstetric estimate is unknown, assign the "unknown" code 99. In all cases:

If the year of first prenatal care visit is unknown, assign the "unknown" code 99 for this derived variable .

If the mother had no prenatal care, assign the "no prenatal care" code 88 for this derived variable.

Item Title:	TOTAL NUMBER OF PRENATAL CARE VISITS FOR THIS PREGNANCY
Item Number:	30 Certificate, 7 Facility worksheet
Description:	Those visits which are listed in the mother's prenatal care and/or facility records
Source of Informati	ion:
Preferred So	urce: Prenatal care record
FOR A PAPER REC	INSTRUCTIONS CORD:
	prenatal care, type or print "0" in the space. Note: the "no prenatal be checked in item 29.
If the mother had pr "unknown" in the spa	renatal care but the number of visits is not known, type or print ce.
Type or print the total	number of prenatal care visits for this pregnancy in the space.
TOTAL NUMBER O	F PRENATAL VISITS FOR THIS PREGNANCY
	(If none, enter "0")
FOR AN ELECTRO	NIC RECORD:
EBR Developer (Inst	ructions are in Italics)
· · · · · · · · · · · · · · · · · · ·	of prenatal care visits is to be entered, it is critical that the ge screens also appear.
Please enter the total	l number of prenatal care visits listed in the mother's records.
Total number of prena	ntal care visits
The following messag	re should also appear:

Check this button if the information needed to complete the number of prenatal care visits is currently not available, but an effort is being made to obtain it.

□ Information not currently available

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example the instruction could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

When this button is checked, the item is skipped and placed in pending status for completion at a later time. The following message will appear.

Please check the mother's prenatal care record and/or facility records to obtain the number of prenatal care visits.

An entry for this item is required if the "no prenatal care" check box in item 29 is not marked. If the "no prenatal care" check box was marked in item 29, this screen is skipped and "0" automatically entered.

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	<u>DEFINITION</u>
NPREV	Number of prenatal care visits	0-98,99	Number within range
NPREV_BYPASS	Edit flag	0 1 2	OFF (edit passed) ON (edit failed, number verified) ON (edit failed, number not verified)
DNA30	Pending flag	0 1	OFF ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If the data not available at this time box is checked, the pending flag is set to ON-1, the number of visits is assigned the "unknown" code and the edits are skipped. The data item will appear on the final review screen.

If number of visits is "0," the box for no prenatal care in item 29 must be checked. If the box is not checked and there is a date in the "date of first prenatal care visit" field, a message should appear indicating the inconsistency and asking that it be resolved.

See example below:

Number of prenatal visits

Item 29 indicates that the mother did have pro	enatal care. Therefore, the number of
prenatal care visits must be greater than "0."	Please enter the correct total below:

1	 _
	Check this box if mother did not have any
	prenatal care

If this box is checked, a message should appear indicating that this response is inconsistent with the entry for item 29. A review screen for item 29 then appears.

If the number of prenatal visits is greater than 49 and not "99," a query message should appear indicating that the number of visits is greater than 49.

The record	shows tl	he number o	f prenata	l care visits is	

□ Please check this box if this number is correct.

If this box is checked, the edit bypass flag is set to ON-1

If the number is incorrect, please enter the correct number

The edit is rerun with the new number. If the edit fails, the bypass flag is set to ON-2

PAPER RECORD

If the field is blank and item 29 indicates that there was prenatal care, query. If item 29 indicates there was no prenatal care, assign the "0" code.

After data entry, run the same edits as above for the electronic record.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	VALUE
NPREV	2	Numeric	0-98.99

NPREV_BYPASS 1 Numeric 0,1,2

EDI TRANSMISSION: No standards set yet

Item Title:	MOTHER'S HEIGHT
Item Number:	31 Certificate, 12 Mother's worksheet
Description:	The mother's height
Source of Information:	
Preferred Source: Other Source: The	The mother mother's medical record
FOR A PAPER RECORD:	INSTRUCTIONS
If the mother's height is unk	nown, print or type "unknown" in the space.
	feet and inches. If the record indicates height in fractions neate and enter 5 feet, 6 inches.
MOTHER'S HEIGHT	(feet/inches)
FOR AN ELECTRONIC R	ECORD:
EBR Developer (Instruction	ns are in Italics)
_	n feet and inches. Enter whole inches only; truncate llowing instruction should appear when the item is to be
Mother's height	(feet) and(inches)
	Unknown
(for example, 5 feet o	feet and inches (for example, 5 feet, 6 inches). If no inches only) enter the number of feet and "0" for inches. If the ked, fill the feet field with 9 and the inches field with 99.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUE	DEFINITION
HFT	Mother's height feet	1-8	Feet
		9	Unknown
HIN	Mother's height inches	0-11	Inches
		99	Unknown
HGT BYPASS	Edit flag for height	0	OFF
_		1	ON (verified)
		2	ON (not verified)

\mathbf{r}	n	T	rc.	
н,	ı,			Ξ

ELECTRONIC RECORD

Before the record is transmitted to the State

Values of 1,2 and 8 will be soft edited. If the mother's height in feet is not between 3 and 7, the following message should appear:

You have entered a height offeet. re-enter height.	Check the box below if this is correct, or
□ Height is correct	
Height(feet) (inches)

Entries of 1 - 9 will be accepted as valid values if the keyer indicates that the height is correct.

If the correct box is checked, the bypass flag is set to ON-1.

If a new value is entered, the edit is rerun and, if it fails, the bypass flag is set to ON-2

The number of inches <u>must</u> be between 0 and 11 or 99,. Entries greater than 11 inches, except 99, will not be accepted (hard edit).

If systems allow initial entries >11 the following message should appear:

Please re-enter the number of inches.	Inches must be between 0 and 11.
_	(inches)

PAPER RECORD

Records filed with the item blank shall be queried.

If there is no response to the query, assign the "unknown" code.

If the item indicates "unknown," assign the "unknown" code.

If the response gives a range, enter the highest value.

If the response gives a fraction like 5 feet 6 ½ inches, enter only the whole number (6 inches).

State Edits of data file prior to NCHS transmission

Must be valid codes and values.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAMES</u>	LENGTH	TYPE	<u>VALUES</u>
HFT	1	Numeric	1-8,9
HIN	2	Numeric	0-11,99
HGT BYPASS	1	Numeric	0,1,2

EDI TRANSMISSION:

No standards set yet.

Item Title:	MOTHER'S PREPREGNANCY WEIGHT
Item Number:	32 Certificate, 13 Mother's worksheet
Description:	The mother's prepregnancy weight
Source of Informat	ion:
Preferred Source: Nother Source	Mother e: Mother's Prenatal care record
	INSTRUCTIONS
FOR A PAPER REC	CORD:
If the mother's preprespace.	egnancy weight is unknown, print or type "unknown" in the item's
Record weight in who	ple pounds only, do not include fractions.
MOTHER'S PREPRI	EGNANCY WEIGHT(pounds).
FOR AN ELECTRO	ONIC RECORD:
EBR Developer (Inst	tructions are in Italics)
do not include fractio	gnancy weight should be recorded in whole pounds only, truncate,; ons (e.g., 120 ½ pounds should be entered as 120 pounds). The estruction should appear:
Mother's prep	regnancy weightpounds.
If weight is u	nknown, enter 999.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
PWGT	Mother's prepregnancy weight	50-400 999	unknown
PWGT_BYPASS	Edit flag for prepregnancy weight	0 1 2	OFF ON (verified) ON (not verified)

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If mother's prepregnancy weight is not between 75 and 300 pounds or 999, a message should appear that asks that the prepregnancy weight be verified.

Please check the box or enter correct weight.

□ Weight is correct

Weight

If the correct box is checked, the bypass flag is set to ON-1. If a new value is entered, the edit is rerun and, if it fails, the bypass flag is set to ON-2. Values less than 50 and greater than 400 should be converted to unknown (999).

PAPER RECORD

Records filed with the item blank shall be queried.

If there is no response to the query, assign the "unknown" code.

If the item indicates "unknown," assign the "unknown" code.

If a response gives a range, enter the highest value given.

If a response gives a fraction, truncate and enter only the whole number (e.g., 120 ½ pounds should be reported as 120 pounds.)

State Edits of data file prior to NCHS transmission

Must be valid codes and values.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUE</u>
PWGT	3	Numeric	50-400, 999
PWGT_BYPASS	1	Numeric	0,1,2

EDI TRANSMISSION:

Item Title: MOTHER'S WEIGHT AT DELIVERY

Item Number: 33 Certificate, 26 Facility worksheet

Description: The mother's weight at the time of delivery

Source of Information:

Preferred Sources: Labor and Delivery records, Admission history and physical

INSTRUCTIONS

FOR A PAPER RECORD:

If the mother's delivery weight is unknown, print or type "unknown" in the item's space.

Record weight in whole pounds only, do not include fractions.

MOTHER'S WEIGHT AT DELIVERY (pounds)

FOR AN ELECTRONIC RECORD:

EBR Developer (*Instructions are in Italics*)

Weight should be recorded in whole pounds only, truncate, do not include fractions (e.g. $140 \frac{1}{2}$ pounds should be entered as 140 pounds). The following item and instruction should appear:

Mother's weight at deliverypounds

If weight is unknown, enter 999.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINITION
DWGT	Mother's weight at delivery	50-450	
		999	unknown
DWGT BYPASS	Edit flag for delivery weight	0	OFF
_		1	ON (verified)
		2	ON (not verified)

\mathbf{E}	n	ľ	Т	ď	
Ľ	v	1	1	O	•

ELECTRONIC RECORD

Before the record is transmitted to the State

If the mother's weight at delivery is not between 75 and 350 pounds (or 999), a message should appear asking that the delivery weight be verified.

Please check the box or enter correct weight.

	Weight is correct
Weight	 _

If the correct box is checked, the bypass flag is set to ON-1. If a new value is entered, the edit is rerun and, if it fails, the bypass flag is set to ON-2. Values less than 50 and greater than 450 should be converted to unknown (999).

PAPER RECORD

Records filed with the item blank shall be queried.

If there is no response to the query, assign the "unknown" code.

If the item indicates "unknown," assign the "unknown" code.

If the response gives a range, enter the highest value given.

If a response gives a fraction of a pound, enter only the whole number (e.g., 140 1/2 pounds should be reported as 140 pounds.)

State Edits of data file prior to NCHS transmission

Must be valid codes and values.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUE</u>
DWGT	3	Numeric	50-450,999
DWGT BYPASS	1	Numeric	0,1,2

EDI TRANSMISSION:

Item Title:	DID MOTHER GET WIC FOOD FOR HERSELF DURING THIS PREGNANCY?	
Item Number:	34 Certificate, 11 Mother's worksheet	
Description:	Use of the Women, Infant's and Children (WIC) nutritional program by the mother during the pregnancy	
Source of Informati	ion:	
Preferred So	ource: Mother	
	INSTRUCTIONS	
FOR A PAPER REC	CORD:	
This item is to be com "yes" or "no" box mu	inpleted based on information obtained from the mother. Either the last be checked.	
If the mother's work sheet indicates "unknown," print or type "unknown."		
DID MOTHER GET	WIC FOR HERSELF DURING THIS PREGNANCY?	
	□ Yes □ No	
FOR AN ELECTRO	ONIC RECORD:	
EBR Developer (Inst	tructions are in Italics)	
	ompleted by keying the response recorded on the mother's work list of choices should be provided. Yes No Unknown	

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
WIC	Mother's use of the	Y	Yes
	WIC program	N	No
		U	Unknown

EDITS:

ELECTRONIC RECORD

The field cannot be blank.

PAPER RECORD

Records filed with this item blank shall not be queried unless the record is being queried for another item.

If the item is blank and not queried, the "not classifiable" code shall be assigned.

If the item indicates "unknown," assign the "not classifiable" code.

State Edits of data file prior to NCHS transmission

Must be valid codes.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUES</u>
WIC	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

Item Titles: NUMBER OF PREVIOUS LIVE BIRTHS

NOW LIVING

NUMBER OF PREVIOUS LIVE BIRTHS

NOW DEAD

DATE OF LAST LIVE BIRTH

NUMBER OF OTHER PREGNANCY

OUTCOMES

DATE OF LAST OTHER PREGNANCY

OUTCOME

Item Numbers: 35 a-c, 36 a-b Certificate;

9, 10, 11, 12, 13 Facility worksheet

Description: The pregnancy history of the mother with respect to

previous children born alive.

The pregnancy history of the mother with respect to other pregnancy outcomes (includes pregnancy losses of <u>any</u> gestational age, e.g., spontaneous or induced losses or

ectopic pregnancies).

Source of Information:

Preferred Source: Prenatal care record

Other Source: Labor and delivery nursing admission triage form,

Admission history and physical

INSTRUCTIONS

FOR A PAPER RECORD:

When completing this item, do not include this birth; include all previous live born infants. For multiple deliveries, include all live born infants preceding this infant in the delivery. If first born in a multiple delivery, do not include this infant. If second born, include the first born, etc.

Please type or print the number of previous live born infants still living in item 35a, the number born alive now dead in item 35b, and the number of other pregnancy outcomes in item 36a. If there were none check the "none" boxes. If the number is unknown, type or print "unknown" in the space.

NUMBER OF PREVIOUS LIVE BIRTHS / OTHER PREGNANCY OUTCOMES (Do not include this child) 35a. Now Living 35b. Now Dead 36a. Other Outcomes

 Number_____
 Number_____
 Number_____

 □ None
 □ None
 □ None

If applicable, type or print the month and year of birth of the last live born infant in item 35c.

If the date of birth is not known, type or print "unknown" in the space.

35c. DATE OF LAST LIVE BIRTH

	/
MM	YYYY

If applicable, type or print the month and year of delivery of the last other pregnancy outcome in item 36b.

If the date of delivery is not known, type or print "unknown" in the space.

36b. DATE OF LAST OTHER PREGNANCY OUTCOME

/	
MM	YYYY

FOR AN ELECTRONIC RECORD:

EBR Developer: (Instructions are in Italics)

When the pregnancy history items are to be entered, it is critical that the recommended message screens appear when appropriate.

The following message should appear first:

Check this button if the information needed to complete the pregnancy history items is currently not available, but an effort is being made to obtain it.

□ Information not currently available

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example the instruction could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

When this button is checked, the item is skipped and placed in pending status for completion at a later time. The following message will appear.

Please check the mother's prenatal care record and/or hospital record to obtain the number of previous live births and other pregnancy outcomes.

This item is to be completed by the facility. If the birth did not occur in a facility, it is to be completed by the attendant or certifier.

Allow only 2 digit fields for entering responses to each of the three items: the number of previous live births now living, number of previous live births now dead, and number of other previous pregnancy outcomes. If the "unknown" box is checked for any of the variables the value 99 is assigned to the variable.

The following message should appear.

When completing this item, do not include this birth. Do include any previous live born infants. If this was a multiple delivery, include all live born infants who preceded the live born infant in this delivery. If first born, do not include this infant. If second born, include the first born. Also include all live born infants in previous deliveries.

Number of previous live births now livi	ng _	
	<u> </u>	None Unknown
Number of previous live births now dea	ıd	
	<u> </u>	None Unknown
Number of other pregnancy outcomes_		None
		Unknown

If there are any previous live born infants the following message should appear.

Month and year of the last live birth.	Month
	Year
	Unknown
v 1	v 1 v
Month and year of the last other pregna	ncy outcome.

□ Unknown

Month ____

Year ____ ___

If there were no other pregnancy outcomes, the message above will not appear, nor will the entry screen. The field will automatically be completed with the "not applicable" code.

The year must be at least the mother's year of birth plus 10 years. Values outside this range should be changed to unknown.

PROCESSING VARIABLES:

NAME	<u>DESCRIPTION</u>	<u>VALUES</u>	DEFINTION
PLBL PLBD	Previous live births now living Previous live births now dead	00-30,99 00-30,99	Number Number
POPO	Previous other pregnancy outcomes	00-30,99	Number
MLLB YLLB	Month last live birth Year last live birth	01-12,88,99 4 digit year,	Month number
		8888,9999	Year number (Mother's year of birth plus 10, through child's year of birth)
MOPO	Month last other pregnancy outcome	01-12,88,99	Month number
YOPO	Year other pregnancy outcome	4 digit yr, 8888,9999	Year number (Mother's

year of birth
plus 10,
through
child's year of
birth)

LBO	Live birth order	00-30,99	Number
TBO	Total birth order	00-40,99	Number
C AGEM	Mother's calculated age	10-64	Number
DNA	Pending flag	0	OFF
		1	ON
		88,888	Not applicable
		99,9999	Unknown

The not applicable codes are used in the date fields when there were either no previous live births or no previous other pregnancy outcomes.

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If the data are not available at the time box is checked, the pending flag is set to ON-1, all the other variables are assigned the "unknown" codes and the edits are skipped. The data item will appear on the final review screen.

Once an entry is made in each item, the next field appears. This prevents both a box being checked and a number being entered.

If any of the "none" boxes are checked, fill the appropriate number field(s) with 00.

If any of the "unknown" boxes are checked, fill the number field(s) with 99 ("unknown").

If a "none" box is not checked and the "unknown" box is not checked and there is no number in the number field, the original entry screen with the message, **Please complete this item** should appear.

If "00" is entered or assigned for any of these fields the date fields must contain the "not applicable" codes.

Once these edits are done the fields are further edited.

If value of the field(s) is not 99 but $>$ 12, the following message should appear:
The record indicates that the number of previous born children still living is
□ correct
If incorrect, enter the correct number
The record indicates that the number of previous live born children now dead is
□ correct
If incorrect, enter the correct number
The record indicates that the number of other pregnancy outcomes is
□ correct
If incorrect, enter the correct number
If the correct box is checked and the number is greater than 30, assign 99 to the appropriate variable.
Compute the live birth order as follows: $LBO = PLBL + PLBD + I$ If the value is 99 for either PLBL or PLBD assign 99 to the variable LBO.
Compute the total birth order as follows: TBO=LBO+POPO If the value is 99 for the POPO or LBO, assign 99 to variable TBO.
Check for consistency of live birth order and calculated age of mother as follows
C_AGEM-LBO must be 38.

If this value is	< 8, the following message appears
The mother is	years of age and the record indicates:
	Previous live births living Previous live births now dead
	□ correct
	If incorrect, enter the correct number(s)
	Previous live births living Previous live births now dead
	n is redone, and if the edit fails, assign the value 99 to the variables LBO is edit fails, the following check is not done.
Check for cons	sistency of total birth order and calculated age of mother as follows:
C_AGEM-TBC	O must be ³ 8.
If this value is	less than 8, the following message appears
The mother is	years of age and the record indicates:
	Previous live births living Previous live births now dead Previous other pregnancy outcomes
	□ correct
	If incorrect, enter the correct number(s)
	Previous live births living Previous live births now dead Previous other pregnancy outcomes
The calculation	n is redone, and if the edit fails, assign the value 99 to the variable TBO.
Any value for th	ne LBO > 30, except 99, is changed to 99.
Any value for th	ne TBO> 40, except 99, is changed to 99

Date fields must be checked for valid values. In addition, year must be less than or equal to year of current event. If the record indicates that any of the number fields contains a value other than 00, 99, and the date field "unknown" box is not checked and both parts of the date field are blank, a message should appear that reads:

Please enter the date or check the "unknown" box.

The appropriate entry screen should appear.

PAPER RECORD

If the fields are blank, query. If no response to query, assign 99 to the field.

Same edits are run as above. If edits fail, record is queried. If response to query contains new values that fail the edit, set values as indicated above for the EBR. If the response indicates the values are correct set the values to 99 for any values that are greater than 30. If there are numbers for any of the three events and no date entered and unknown is not written in the space, query. If no response to query, set date fields to "99" and "9999."

State Edits of data file prior to NCHS transmission

See above edits for electronic records.

Must have valid codes (see below).

STATE DATA FILE CONSIDERATIONS

States should keep the LBO and TBO calculated variables in their files for tabulation purposes. Numeric fields of 2 digits each should be reserved for these variables.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>		LENGTH	TYPE	VALUES
PLBL	Previous live births now living	2	Numeric	00-30,99
PLBD	Previous live births now dead	2	Numeric	00-30,99
POPO	Previous other pregnancy outcomes	2	Numeric	00-30,99
MLLB	Month last live birth	2	Numeric	01-12, 88, 99
YLLB	Year last live birth	4	Numeric (Mother's birth plus through cl of birth), 8	10 yrs hild's year
МОРО	Month last other pregnancy outcome	2	Numeric	01-12 88, 99
YOPO	Year other pregnancy outcome	4	Numeric (Mother's birth plus through cl of birth), 8	10 yrs hild's year

EDI TRANSMISSION:

Item Title:	CIGARETTE SMO DURING PREGNA	OKING BEFORE AN ANCY	D
Item Number:	37 Certificate, 14 Mot	ther's worksheet	
Description:		es or packs of cigarettes the hs before and at various into	
Source of Informat	ion:		
Preferred So	urce: Mother		
	INSTRUCT	IONS	
FOR A PAPER REC	CORD:		
mother. If the birth d		I on information obtained from is to be completed by the attended mother.	
	ge number of cigarettes or th	' or "refused" print or type "unl he average number of packs of	
		NG PREGNANCY of cigarettes or the number of	f packs of
Average number of ci	garettes or packs of cigarett	tes smoked per day.	
	# of cigarett	tes # of packs	
Three Months Before First Three Months of Second Three Months Last Three Months of	Pregnancy sof Pregnancy	OROROROROROROROROROR	

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The item should be completed by keying the response recorded on the mother's work sheet. The following message and screen format should be used:

Enter the average number of cigarettes or packs of cigarettes smoked per day for each time period. If none enter "0." If the mother did not complete all parts of the item and has left the facility, check the "unknown" box. If the mother has not left the facility contact her to obtain a response to this item. If the mother refused to respond, check the "unknown" box.

If a range is given enter only the highest number.

If both the number of cigarettes and the number of packs are entered, enter only the # of packs.

Convert fractions of packs to decimals for entry, e.g., \(\frac{1}{4}=0.25\); \(\frac{1}{2}=0.50\); \(\frac{3}{4}=0.75\)

	# of cigarettes		# of packs
Three months before pregnancy First three months of pregnancy Second three months of pregnancy Last three months of pregnancy		OR OR OR OR	

□ Unknown

Entries for both packs and number are not allowed. Use the pack response in preference to the number of cigarettes response.

Values for packs of 0-4 should be multiplied by 20 and the resulting value assigned to the corresponding "number of cigarettes variable." Once this is done, the pack variables need not be carried forward. They will not be transmitted to NCHS.

Values for packs greater than "5" should be converted to "5"

Values for packs equal to 5 assign the value "98" to the corresponding CIGPN, CIGFN, CIGSN, CIGLN variable.

If the" unknown" box is checked, assign "99" to the four variables: CIGPN, CIGFN, CIGSN, CIGLN.

PROCESSING VARIABLES:

NAME	<u>DESCRIPTION</u>	VALUE
CIGPN	Number aigerettes amaked prior to presmaney	0.00.00
	Number cigarettes smoked prior to pregnancy	0-98, 99
CIGPP	Number of packs smoked prior to pregnancy	0.00-5.00
CIGFN	Number of cigarettes smoked in 1 st three months	0-98, 99
CIGFP	Number of packs smoked in 1 st three months	0.00 - 5.00
CIGSN	Number of cigarettes smoked in 2 nd three months	0-98, 99
CIGSP	Number of packs smoked in 2 nd three months	0.00 - 5.00
CIGLN	Number of cigarettes smoked in last three months	0-98, 99
CIGLP	Number of packs smoked in last three months	0.00-5.00
	Unknown (all variables)	99

EDITS:

ELECTRONIC RECORD

The variables CIGPN, CIGFN, CIGSN, CIGLN can not be blank and must have valid entries of 00-98, 99.

PAPER RECORD

Records filed with this item blank shall be queried.

If the item is blank and not queried, the "unknown" code shall be assigned.

If the item indicates "unknown," assign the "unknown" code to each of the "number variables."

If the item indicates "refused," assign the "unknown" code to each of the "number variables."

Use pack responses in preference to number of cigarette responses when there are entries in both for the same variable.

If a fraction is entered on the document like $2\frac{1}{2}$ packs, use the conversion table below for entry. For the example, enter the decimal number "2.50."

$$\frac{1}{4}=0.25$$
; $\frac{1}{2}=0.50$; $\frac{3}{4}=0.75$

The number of packs is converted to the number of cigarettes by multiplying by 20 and assigning the resulting value to the corresponding number of cigarettes variable.

State Edits of data file prior to NCHS transmission:

Must be valid codes.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	<u>LENGTH</u>	TYPE	VALUE
CIGPN	2	Numeric	0-98, 99
CIGFN	2	Numeric	0-98, 99
CIGSN	2	Numeric	0-98, 99
CIGLN	2	Numeric	0-98, 99

EDI TRANSMISSION:

Item Title:	PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY				
Item Number:	38 Certificate, 22 Facility worksheet				
Description:	The principal payer for this delivery				
Source of Informat	tion:				
Preferred So	ource: Hospital face sheet, Admitting office face sheet				
	INSTRUCTIONS				
FOR A PAPER RE	CORD:				
This item is to be combe completed by the a	inpleted by the facility. If the birth did not occur in a facility, it is to attendant or certifier.				
delivery. If the "Oth	box that best describes the principal source of payment for this er (Specify)" box is selected, please specify the payer. e of payment is not known, print or type "unknown" in the space.				
PRINCIPAL SOURC	CE OF PAYMENT FOR THIS DELIVERY				
 □ Private Insurance □ Medicaid □ Self-pay □ Other (Specify)					
FOR AN ELECTRO					
EBR Developer (Ins	EBR Developer (Instructions are in italics)				
	inpleted by the facility. If the birth did not occur in a facility, it is to attendant or certifier.				

The principal source of payment for this delivery is to be selected from the following:

- Medicaid
- □ Private Insurance (Blue Cross/ Blue Shield, Aetna, etc.)
- □ Self-pay
- □ Indian Health Service
- □ CHAMPUS/TRICARE
- □ Other government (federal, state, local)
- □ Other
- □ Unknown

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
PAY	Principal source of payment for	1	Medicaid
	delivery	2	Private Insurance
	•	3	Self-pay
		4	Indian Health Service
		5	CHAMPUS/
			TRICARE
		6	Other government
			(federal, state, local)
		8	Other
		9	Unknown

EDITS:

ELECTRONIC RECORD

Only one source of payment may be selected. This item may not be blank; the record cannot be filed or printed until the item is completed.

PAPER RECORD

Records filed with the source of payment blank should be queried. If no response to query, enter "unknown" in the "other specify" location.

If the "Other specify" indicates any of those listed, code as shown above. All other entries code to "Other."

States can develop a coding scheme for responses other than those listed, but all responses except "unknown" should be converted to the "Other" code for transmission to NCHS.

State Edits of data file prior to NCHS transmission

See above edits for electronic records.

STATE FILE CONSIDERATIONS

State offices can design their software to maintain the other specified response codes and expand the list to meet their needs.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
PAY	1	Numeric	1,2,3,4,5,6,8,9

EDI TRANSMISSION:

Item Title: DATE LAST NORMAL MENSES BEGAN

Item Number: 39 Certificate, 8 Facility worksheet

Description: Date that the mother's last normal menses began. This

item is used to compute the gestational age of the infant.

Source of Information:

Preferred Source: Mother's prenatal care record Other Source: Admission history and physical

INSTRUCTIONS

FOR A PAPER RECORD:

Print or type all parts of the date that the mother's last normal menses began.

If no parts of the date are known, write in "unknown."

DATE LAST NORMAL MENSES BEGAN

 $\frac{1}{1}$ $\frac{1}$

FOR AN ELECTRONIC RECORD:

EBR Developer: (Instructions are in Italics)

The date last normal menses began must be a three-field entry with month day and year being entered in separate fields.

The following message should appear first:

Check this button if the information is not yet available from one of the source documents. (This should be indicated on the facility work sheet)

□ Information not currently available

If this button is checked, the item is skipped and placed in a pending status for completion at a later time. See final review screen.

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example the message could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

Each part of the three-part date field should be entered independently so any part of the date that is known is captured. The instructions below should appear when the date is to be completed:

Complete ALL PARTS of the date that are available. Key all 9s for any parts of the date that are not known.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINITION
DLMP_YR	Year of last menstrual period	4 digit year 9999	Values of 99, and 9999
DLMP_MO DLMP_DY	Month of last menstrual period Day of last menstrual period	01-12, 99 01-31, 99	are "unknown" codes. All other numeric values represent 4 digit years, or standard month and day numbers.

DERIVED VARIABLES:

<u>NAME</u>	<u>DESCRIPTION</u>	<u>VALUES</u>	<u>DEFINITION</u>
CM_DLNM C_GESTM CM_DOB	Century month last menstrual period Months gestation Century month date of birth	4-11, 88 24024+, 88888	Values of 88, and 8888 are "not computable" codes. They are assigned to derived variables when information that is needed in computing the derived variable is not available or incorrect.

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If the "data are not available at this time" button is checked, all the date fields are set to the "unknown" code "99,9999" and the item is put on the pending list for completion at a later time. No further edits are done.

If one or more of the date fields are completed they are checked against the values below.

	Values 01,02,03,04,05,06,07,08,
	09,10,11,12, 99
01	1-31, 99
02	1-29, 99
03	1-31, 99
04	1-30, 99
05	1-31, 99
06	1-30, 99
07	1-31, 99
08	1-31, 99
09	1-30, 99
10	1-31, 99
11	1-30, 99
12	1-31, 99
	Must be equal to the child's year of birth or 1-2 years less, or 9999.
	02 03 04 05 06 07 08 09 10

Any blanks will be automatically converted to the appropriate "unknown" codes; "99" or "9999."

If any of the edits fail, error messages and instructions will appear that show all the date information entered and a comment on invalid entries. These errors must be corrected before the record can be filed or printed. If the edit on DLMP_YR still fails the edit after reentry then set all values of the date field to the unknown codes.

If February (02) day = 29, year should be a leap year. The date of birth field must be compared with the date last normal menses began to be sure the date last normal menses began is earlier than the child's date of birth. If not, a message should appear and request that the inconsistency be resolved.

Derived Variable for Editing Purposes

The century month of the date last normal menses began should be computed and stored as a five digit numeric field (CM DLNM) as follows:

If either the month or year of date last normal menses began is invalid or unknown, assign "88888" to the CM_DLNM variable.

Otherwise, compute CM_DLNM as: ((12 * year last normal menses) + month of last normal menses).

Compute the period of gestation in months as follows: C_GESTM= CM_DOB - CM_DLNM. If either or both CM_DOB or CM_DLNM is "88888" set the C_GESTM (computed gestation, months)= "88." If the computed interval is negative subtract 12 from CM_DLNM and re-compute. This could occur if the month of DLNM is greater than the month DOB and the years are the same. This error should have been caught in the previous edit. But if it occurs subtract 1 year from the DLNM and replace with the new value.

If C_GESTM is <0, (after the re-computation above) a message should appear that reads:

Computation of the infant's gestation age indicates an age of less than 0. Please re-enter the date the mother's last normal menses began.

The edit is rerun and if the edit still indicates that the interval is less than 0, the following message should appear.

The infant's gestation age still is less than 0, please check and re-enter the child's date of birth.

The edit is rerun and fails again, assign "88" to C GESTM.

If the computed gestation is < 4 or > 11, one of the following messages appears:

Date of last normal menses as keyed does not agree with other items. Please check the dates listed below to be sure they were entered correctly. If there are errors, please re-enter the date(s).

The computation is re-run and if it still fails the edit, C_GESTM variable is assigned the value of "88."

If the final edit screen indicates that all of the date of last normal menses is unknown, assign "99" to the day and month fields, and "9999" to the year field. Assign "88" to the computed gestation field and "8888" to the Century month of last normal menses.

Values for DLMP_YR more than 2 years different from child's date of birth should be converted to unknown.

PAPER RECORD

If date of last normal menses field is blank, query. If there is no response to query or response is "unknown," assign the "not classifiable" code to each field.

Carry out the above edits for an electronic record after data entry

STATE FILE CONSIDERATIONS

State data files must contain space for the computed gestation in months although these data are not transmitted to NCHS. This is not the computed gestation to be used for statistical purposes.

If states elect to use a data base system that has an option of storing dates as "date type variables," the system must meet the criteria listed under transmission standards.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
DLMP_YR	4	Numeric	4 digit year, child's yr of birth or 1 or 2 years less, 9999
DLMP_MO	2	Numeric	01-12, 99
DLMP_DY	2	Numeric	01-31, 99

EDI TRANSMISSION:

 $\rm HL~7~$ Transmission standards will be followed . This is a time date stamped standard in the following format:

YYYY[MM[DD]]

Year must be fully represented with four digits.

Software that stores dates as "date type" must be year 2000 compliant and capable of producing the date in the YYYY..... format and capable of producing messages in the HL7 EDI format.

RISK FACTORS IN THIS PREGNANCY Item Title: Item Number: 41 Certificate, 14 Facility worksheet Description: Selected medical risk factors of the mother during this pregnancy Source of Information: Mother's prenatal care record Preferred source: Labor and delivery nursing admission triage form, Other sources: Admission history and physical, Delivery record INSTRUCTIONS FOR A PAPER RECORD: The mother may have more than one risk factor, check all that apply. If the mother had none of the risk factors, check the "None of the above" box. If it is unknown if the mother had any of the risk factors, type or print unknown. **RISK FACTORS IN THIS PREGNANCY** (Check all that apply): Diabetes □ Prepregnancy (Diagnosis prior to this pregnancy) ☐ Gestational (Diagnosis in this pregnancy)

Prepregnancy (Diagnosis prior to this pregnancy) Gestational (Diagnosis in this pregnancy) Hypertension Prepregnancy (Chronic) Gestational (PIH, preeclampsia, eclampsia) Previous preterm births Other previous poor pregnancy outcome (Includes, perinatal death, small for gestational age/interuterine growth restricted birth) Vaginal bleeding during this pregnancy prior to onset of labor Pregnancy resulted from infertility treatment Mother had a previous cesarean delivery If yes, how many None of the above

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The following definitions should appear in the help function:

Diabetes (prepregnancy): Glucose intolerance requiring treatment diagnosed prior to this pregnancy.

Diabetes (gestational): Glucose intolerance requiring treatment diagnosed during this pregnancy.

Hypertension (prepregnancy): (Chronic) Elevation of blood pressure above normal for age, gender, and physiological condition diagnosed prior to the onset of this pregnancy.

Hypertension (gestational): (PIH, Preeclampsia, eclampsia) Elevation of blood pressure above normal for age, gender, and physiological condition diagnosed during this pregnancy.

Previous preterm births: History of pregnancy(ies) terminating in a live birth of less than 37 completed weeks of gestation.

Other previous poor pregnancy outcome: (Includes perinatal death, small for gestational age/intrauterine growth restricted birth) History of pregnancies continuing into the 20th week of gestation (post menstrual age) and resulting in any of the listed outcomes. Perinatal death includes fetal and neonatal deaths.

Vaginal bleeding during this pregnancy prior to the onset of labor: Any reported or observed bleeding per vaginum at any time in the pregnancy presenting prior to the onset of labor.

Pregnancy resulted from infertility treatment: Any assisted reproduction technique whether artificial insemination, drugs (e.g., Clomid, Pergonal) or any technical procedures (e.g., in-vitro fertilization) used to initiate the pregnancy.

Previous cesearean delivery: Previous operative delivery in which the fetus is extracted through an incision in the maternal abdominal and uterine walls.

When this item is to be completed, it is critical that the recommended message screens appear when appropriate.

The following message should appear first:

Check this button if the information needed to complete item "Risk factors in this pregnancy" is currently not available, but an effort is being made to obtain it.

' Information not currently available

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example the instruction could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

When this button is checked, the item is skipped and placed in pending status for completion at a later time on the final review screen. The final review screen for this item will be a replica of the initial entry screen with the addition of a box to check "unknown."

The following instruction should appear when the item is to be completed:

Please check all the boxes that apply. If the mother had none of the listed risk factors, please check the "None of the above" box. DO NOT LEAVE THE ITEM BLANK.

	Risk	Factors	in	this	Pregnancy	7:
--	------	----------------	----	------	-----------	----

Diabetes

- □ Prepregnancy (Diagnosis prior to this pregnancy)
- ☐ Gestational (Diagnosis in this pregnancy)

Hypertension

- □ Prepregnancy (Chronic)
- ☐ Gestational (PIH, preeclampsia, eclampsia)
- □ Previous preterm births (<37 completed weeks gestation)
- Other previous poor pregnancy outcome (includes: perinatal death, small for gestational age/intrauterine growth restricted birth)
- □ Vaginal bleeding during this pregnancy prior to onset of labor
- Pregnancy resulted from infertility treatment
- □ Mother had a previous cesarean delivery
- □ None of the above

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
PDIAB	Prepregnancy diabetes	Y N	Yes No
		U	Unknown
GDIAB	Gestational diabetes	Y, N, U	
PHYPE	Prepregnancy hypertension	Y, N, U	

GHYPE	Gestational hypertension	Y, N,U	
PPB	Previous preterm births	Y, N, U	
PPO	Poor pregnancy outcomes	Y, N, U	
VB	Vaginal bleeding	Y, N, U	
INFT	Infertility treatment	Y, N, U	
PCES	Previous cesarean	Y, N, U	
NPCES	Number of previous cesareans	0-10, 99	
NPCES_BYF	PASS	0, 1	
NOA01	None of the above	Y, N, U	
DNA01	Pending flag	0	OFF
		1	ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If no boxes are checked, the following message will appear:

The item has not been completed. If there are risk factors, check the appropriate boxe(s). If there are no risk factors, check "None of the above."

If the "Data not available at this time" button is checked, the following message shall appear:

Please obtain the information necessary to complete this item. The item will be on the final review screen prior to submission to the state.

The pending flag shall be set to "ON" and all other variables assigned the "unknown" code.

The final review screen shall be a replica of the initial entry screen. If the "Unknown" box is checked on the final review screen, the pending flag is set to "OFF" and the record is accepted.

If the "None of the above" box is checked and at least one other box is checked, assign the "no" code to the "none of the above" variable" and continue edits.

If the "None of the above" box is checked and no other box checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

The prepregnancy diabetes and gestational diabetes choices cannot both be checked. If both boxes are checked, a message should appear that reads:

Both the prepregnancy and gestational diabetes boxes are checked. Please review the records and choose the correct response.

The prepregnancy hypertension and gestational hypertension choices cannot both be checked. If both boxes are checked, a message should appear that reads:

Both the prepregnancy and gestational hypertension boxes are checked. Please review the records and choose the correct response.

If the "Previous cesarean delivery" box <u>is not</u> checked, a value of 0 will be assigned to the variable for the number of previous cesarean deliveries.

If the "Previous cesarean delivery" box <u>is</u> checked, the following screen will <u>immediately</u> appear:

Enter the number of previous cesarean deliveries _____. If unknown, enter "99."

If "0" or no entry is given from the number of previous cesareans, a message should appear asking that a number be entered, or 99 if the number is unknown

The number entered must be between >0 and <11. If the number is greater than 10, but not 99, the following message appears:

The record indicates that the number of previous cesarean deliveries is ______. Please check "correct" or enter the correct number.

□ Correct

Number of previous cesarean deliveries_____

If the value given is still greater than 10, the NPCES_BYPASS is set to "ON-1. If the value is greater than 30, it should be changed to "unknown."

PAPER RECORD

Records filed with this field blank are queried. If no response to query, assign each choice the "unknown" code.

If "unknown" is printed in the box, assign each choice the "unknown" code.

If the "None of the above" box is checked and at least one other box is checked, assign the "None of the above" variable the "no" code and continue edits.

If the "None of the above" box is checked and no other box checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

If both the "Prepregnancy diabetes" and "Gestational diabetes" boxes are checked, query.

If both the "Prepregnancy hypertension" and "Gestational hypertension" boxes are checked, query.

If the "Mother had a previous cesarean delivery" box is checked but the number of previous cesareans is not given, query.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

See electronic records section (above) for state processing of electronic records.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUES</u>
PDIAB	1	Alpha character string	Y, N, U
GDIAB	1	Alpha character string	Y, N, U
PHYPE	1	Alpha character string	Y, N, U
GHYPE	1	Alpha character string	Y, N, U
PPB	1	Alpha character string	Y, N, U
PPO	1	Alpha character string	Y, N, U
VB	1	Alpha character string	Y, N, U
INFT	1	Alpha character string	Y, N, U
PCES	1	Alpha character string	Y, N, U
NPCES	2	Numeric	00-30,99
NPCES_BY	PASS 1	Numeric	0,1

EDI TRANSMISSION:

Item Title: INFECTIONS PRESENT AND/OR

TREATED DURING THIS PREGNANCY

Item Number: 42 Certificate, 15 Facility worksheet

Description: Selected infections that the mother had or was treated for

during the course of this pregnancy

Source of Information:

Preferred Source: Mother's prenatal care record

Other Sources: Labor and delivery nursing admission triage form,

Admission history and physical, Delivery record

INSTRUCTIONS

FOR A PAPER RECORD:

If the prenatal care record is not available and the information is not available from other medical records, write "unknown" in the space. More than one infection may be checked.

INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply)

G	0	n	or	rh	ea

- □ Syphilis
- ☐ Herpes Simplex Virus (HSV)
- □ Chlamvdia
- □ Hepatitis B
- □ Hepatitis C
- \square None of the above

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The following instruction and definitions should appear in the help function:

Infections present and/or treated during the pregnancy:

Infections present at the time of pregnancy diagnosis or confirmed diagnosis during the pregnancy with or without documentation of treatment. Documentation of treatment is adequate if a definitive diagnosis is not present in the available record.

Gonorrhea – a positive test for *Neisseria gonorrhoeae*Syphilis (also called lues) –. a positive test for *Treponema pallidum*.

Herpes Simplex Virus (HSV) – a positive test for the herpes simplex virus.

Chlamydia - a positive test for *Chlamydia trachomatis*.

Hepatitis B (HBV, serum hepatitis) - a positive test for the hepatitis B virus.

Hepatitis C - (non A, non B hepatitis (HCV). A positive test for the hepatitis C virus.

When this item is to be completed, it is critical that the recommended message screens appear.

The following message should appear first:

Check this button if the information needed to complete item "Infections present and /or treated during this pregnancy" is currently not available, but an effort is being made to obtain it.

□ Information not currently available

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example the instruction could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

When this button is checked, the item is skipped and placed in pending status for completion at a later time on the final review screen. The final review screen for this item will be a replica of the initial entry screen with the addition of a box to check "unknown."

The following instruction should appear when the item is to be completed:

Please check all the boxes that apply. If the mother had none of the listed infections please check "None of the above." DO NOT LEAVE THE ITEM BLANK.

INFECTIONS PRESENT AND/OR TREATED DURING THIS PREGNANCY (Check all that apply)

Gonorrhea
Syphilis
Herpes Simplex Virus (HSV)
Chlamydia
Hepatitis B
Hepatitis C
None of the above

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINITION
GON	Gonorrhea	Y, N, U	Y—Yes, N—No, UUnknown
SYPH	Syphilis	Y, N, U	
HSV	Herpes Simplex (HSV)	Y, N, U	
CHAM	Chlamydia	Y, N, U	
HEPB	Hepatitis B	Y, N, U	
HEPC	Hepatitis C	Y, N, U	
NOA02	None of the above	Y, N, U	
DNA02	Pending flag	0	OFF
		1	ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If the "Data not available at this time" button is checked and no specific infections are identified, assign the "unknown" codes to each data element and set the pending flag to "ON." If the pending flag is "ON," the item will appear on the final review screen.

If the item is left blank and the keyer tabs to the next item, the following message will appear. This item must be completed. The entry screen will appear.

If the "None of the above" box is checked and at least one other box is checked, assign the "None of the above" variable the "no" code and continue edits.

If the "None of the above" box is checked and no other box checked, assign all other items the "no" code.

If one or more boxes are checked, all boxes not checked are assigned the "no" code.

PAPER RECORD

Records filed with this field blank are queried. If no response to query, code each item to the "unknown" code.

If "unknown" is printed or typed in the box, assign each variable the "unknown" code.

If the "None of the above" box is checked and at least one other box is checked, assign the "None of the above" variable the "no" code and continue edits.

If the "None of the above" box is checked and no other box checked, assign all other items the "no" code.

If one or more boxes are checked, all infections not checked will be assigned the "no" code.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

<u>VALUES</u>
Y,N,U

EDI TRANSMISSION:

No standards set yet

Item Title: **OBSTETRIC PROCEDURES**

Item Number: 43 Certificate, 16 Facility worksheet

Description: Selected medical treatments or invasive/manipulative

procedures performed during this pregnancy specifically

for management of labor and/or delivery.

Source of Information:

Preferred Source: Prenatal care record

Other Source: Labor and delivery nursing admission triage form,

Admission history and physical, Delivery record

INSTRUCTIONS

FOR A PAPER RECORD:

If the medical records are not available at this time, print or type "unknown" in the space

OBSTETRIC PROCEDURES (check all that apply)

Cervical cerclage

□ Tocolysis

External cephalic version

Successful

□ Failed

□ None of the above

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The definitions below should be available through the help function for obstetric procedures:

• **Cervical cerclage:** Circumferential banding or suture of the cervix to prevent or treat passive dilation. Includes MacDonald's suture, Shirodkar procedure, abdominal

cerclage via laparotomy.

• **Tocolysis:** Administration of any agent with the intent to inhibit pre-term uterine contractions to extend the length of the pregnancy.

• **External cephalic version:** Attempted conversion of a fetus from a non-vertex presentation to a vertex presentation by external manipulation.

Success: Fetus was converted to vertex presentation. **Failure:** Fetus was not converted to vertex presentation.

When this item is to be completed, it is critical that the recommended message screens appear when appropriate.

The following message should appear first:

Check this button if the information needed to complete item "Risk factors in this pregnancy" is currently not available, but an effort is being made to obtain it.

□ Information not currently available

EBR developers may wish to use a hot key for responding to the above rather than a specific button. For example, the instruction could read:

Press the _____key if the information needed to complete this item is currently not available, but an effort is being made to obtain it.

When this button is checked, the item is skipped and placed in pending status for completion at a later time on the final review screen. The final review screen for this item will be a replica of the initial entry screen with the addition of a box to check "unknown."

The following instruction should appear when the item is to be completed:

Please check all the procedures that apply. If the mother had none of the listed procedures or treatments, please check the "None of the above" box. DO NOT LEAVE BLANK.

OBSTETRIC PROCEDURES (Check all that apply)

Cervical cerclage
Tocolysis

External cephalic version

- □ Successful
- □ Failed
- □ None of the above

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINITION
CERV	Cervical cerclage	Y, N, U	YYes
TOC	Tocolysis	Y, N, U	NNo
ECVS	Successful External cephalic		UUnknown
	version	Y, N, U	
ECVF	Failed External cephalic		
	version	Y, N, U	
NOA03	None of the above	Y, N, U	
DNA03	Pending flag	0	OFF
	2 2	1	ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If no boxes are checked, the item entry screen will appear with the following message:

This item has not been completed. Check the appropriate procedures or check "None of the above.

If the "Data not available at this time" box is selected, the following message will appear:

Please obtain the information necessary to complete this item. The item will be on the final review screen prior to submission to the state.

The pending flag will be set to "ON" and all other variables assigned the "unknown" code.

The final review screen for this item will be a replica of the initial entry screen. If the "Unknown" box is checked on the final review screen, the pending flag is set to "OFF" and the record is accepted.

If the "None of the above" box is checked and at least one other box is checked, assign the "no" code to the "None of the above" variable and continue edits.

If the "None of the above" box is checked and no other boxes are checked, assign all other items the "no" code.

If one or more boxes are checked, all procedures not checked will be assigned the "no" code.

"Successful external cephalic version" and the "Failed external cephalic version" procedures cannot both be selected. If both are checked, a message should appear that reads:

Both "Successful external cephalic version" and the "Failed external cephalic version" boxes are checked. Please review the records and choose the correct response.

PAPER RECORD

Records filed with this field blank are queried. If no response to query, assign the "unknown" code to each procedure variable.

If "unknown" is printed in the box, assign each procedure variable the "unknown" code

If the "None of the above" box is checked and at least one other box is checked, assign the "no" code to the "None or the above" variable and continue edits.

If the "None of the above" box is checked and no other box checked, assign all other items the "no" code.

If one or more boxes are checked, all procedures not checked will be assigned the "no" code.

The "Successful external cephalic version" and the "Failed external cephalic version" boxes cannot both be checked. If both are checked, query.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	VALUE
CERV	1	Alpha character string	Y, N, U
TOC	1	Alpha character string	Y, N, U
ECVS	1	Alpha character string	Y, N, U
ECVF	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title: **ONSET OF LABOR**

Item Number: 44 Certificate, 17 Facility worksheet

Description: Serious complications experienced by the mother

associated with labor and delivery

Source of Information:

Preferred Source: Labor and delivery record, Delivery comments

INSTRUCTIONS

FOR A PAPER RECORD:

Check all boxes that apply.

If unknown, print or type "unknown" in the space.

ONSET OF LABOR

(Check all that apply)

- □ Premature Rupture of the Membranes (prolonged ≥12 hours)
- □ Precipitous labor (<3 hours)
- □ Prolonged labor (≥20 hours)
- □ None of the above

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The following definitions are to be in the help menu for this item:

Premature Rupture of the Membranes (prolonged=12 hours)

Spontaneous tearing of the amniotic sac, (natural breaking of the "bag of waters"), 12 hours or more before labor begins.

Precipitous labor (<3hours)

Labor that progresses rapidly and lasts for less than 3 hours.

Prolonged labor (= 20 hours)

Labor that progresses slowly and lasts for 20 hours or more.

The following instruction should appear on the screen with the menu:

Please check all boxes that apply. If none are indicated, check "None of the above." If the data are not available at this time, check "Unknown at this time." DO NOT LEAVE THIS ITEM BLANK.

- □ Premature Rupture of the Membranes (prolonged, =12 hours)
- □ Precipitous labor (<3 hours)
- □ Prolonged labor (=20 hours)
- □ None of the above
- Unknown at this time

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINTION
PROM PRIC PROL	Premature rupture Precipitous labor Prolonged labor	Y, N, U Y, N, U Y, N, U	YYes, N—No, UUnknown
NOA05 DNA05	None of the above Pending flag	Y, N, U 0 1	OFF ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If no boxes are checked, the following message will appear:

The item has not been completed. Please check "Unknown at this time" if the data are not available. If any of the choices listed in the menu are indicated, check the appropriate box(s). Please check the "None of the above" box if none of the listed maternal morbidity items are indicated.

If the "None of the above" box is checked and at least one other box checked, assign the "None of above box" variable the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to items not checked.

Precipitous labor and prolonged labor cannot both be checked. If both are checked, a message should appear indicating that only one box can be checked and to pick the appropriate response.

PAPER RECORD

Records filed with all the items in the menu left blank are queried. If no response to query, code each item to the "unknown" code.

If "unknown" is printed in the box, assign each choice the "unknown" code.

If the "None of the above" box is checked and at least one other box checked, change the "None of above box" response to the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
PROM (Premature rupture)	1	Alpha character string	Y, N, U
PRIC (Precipitous labor)	1	Alpha character string	Y, N, U
PROL (Prolonged labor)	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title: CHARACTERISTICS OF LABOR AND

DELIVERY

Item Number: 45 Certificate; 27 Facility worksheet

Description: Information about the course of labor and delivery.

Source of information:

Preferred Source: Delivery record, Physician progress note, Newborn

admission history and physical

INSTRUCTIONS

FOR A PAPER RECORD:

More than one characteristic may be checked.

If the characteristics of the labor and delivery are not known at this time, print or type "unknown" in the space.

CHARACTERISITCS OF LABOR AND DELIVERY

(Check all that apply)

- □ Induction of labor
- □ Augmentation of labor
- □ Non-vertex presentation
- □ Steroids (glucosteroids) for fetal lung maturation received by the mother prior to delivery
- □ Antibiotics received by the mother during labor
- □ Clinical chorioaminionitis diagnosed during labor or maternal temperature >=38 C(100.4 F)
- □ Moderate/heavy meconium staining of the amniotic fluid
- ☐ Fetal intolerance of labor such that one or more of the following actions was taken: in-utero resuscitation measures, further fetal assessment, or operative delivery
- □ Epidural or spinal anesthesia during labor
- □ None of the above

FOR AN ELECTRONIC RECORD:

EBR developer (Instructions are in Italics)

The following definitions should appear in the help function:

Induction of labor: Initiation of uterine contractions by medical and/or surgical means for the purpose of delivery before the spontaneous onset of labor.

Augmentation of labor: Stimulation of uterine contractions by drug or manipulative technique with the intent to reduce the time to delivery.

Non-vertex presentation: Includes any non-vertex fetal presentation, e.g., breech, shoulder, brow, face presentations, and transverse lie in the active phase of labor or at delivery other than vertex.

Steroids (glucosteroids) for fetal lung maturation received by the mother prior to delivery: Includes betamethasone, dexamethasone, or hydrocortisone specifically given to accelerate fetal lung maturation in anticipation of preterm delivery. Excludes steroid medication given to the mother as an anti-inflammatory treatment.

Antibiotics received by the mother during labor: Includes antibacterial medications given systemically (intravenous or intramuscular) to the mother in the interval between the onset of labor and the actual delivery (Ampicillin, Penicillin, Clindamycin, Erythromycin, Gentamicin, Cefataxime, Ceftriaxone, etc.)

Clinical chorioaminionitis diagnosed during labor or maternal

temperature >=38 C(100.4 F): A clinical diagnosis of chorioamninonotis during labor made by the delivery attendant. Usually includes more than one of the following: fever, uterine tenderness and/or irritability, leukocytosis, and fetal tachycardia. Any recorded maternal temperature at or above the febrile threshold as stated.

Moderate/heavy meconium staining of the amniotic fluid: Staining of the amniotic fluid caused by passage of fetal bowel contents during labor and/or delivery which is more than enough to cause a greenish color change of an otherwise thin fluid.

Fetal intolerance of labor such that one or more of the following actions was taken: in-utero resuscitation measures, further fetal assessment, or operative delivery: In utero resuscitative measure-s such as any of the following: maternal position change, oxygen

administration to the mother, intravenous fluid administered to the mother, amnioinfusion, support of maternal blood pressure, and administration of uterine relaxing agents. *Further fetal assessment* includes any of the following: scalp pH, scalp stimulation, acoustic stimulation. *Operative delivery*-operative intervention to shorten time to delivery of the fetus such as forceps, vacuum, or cesarean delivery.

Epidural or spinal anesthesia during labor: Administration to the mother of a regional anesthetic for control of the pain of labor, i.e., delivery of the agent into a limited space with the distribution of the analgesic effect limited to the lower body.

The following instruction should appear for this item:

Please check all characteristics that apply. If information on the labor and delivery are not available at this time check "unknown at this time." If none of the characteristics of labor and delivery apply to this delivery, check "None of the above." DO NOT LEAVE THIS ITEM BLANK.

	T 1	. •	C 1	1
\Box	Indi	uction	at I	ahor
_	111(1)	исили	(/)	ann

□ Augmentation of labor

- □ Non-vertex presentation
- □ Steroids (glucosteroids) for fetal lung maturation received by the mother prior to delivery
- □ Antibiotics received by the mother during labor
- □ Clinical chorioaminionitis diagnosed during labor or maternal temperature >=38 degreesC(100.4F)
- ☐ Moderate/heavy meconium staining of the amniotic fluid
- ☐ Fetal intolerance of labor such that one or more of the following actions was taken: in-utero resuscitation measures, further fetal assessment, or operative delivery
- □ Epidural or spinal anesthesia during labor
- □ None of the above
- □ Unknown at this time

VARIABLES:

NAMES	DESCRIPTION	VALUES	DEFINTIONS
INDL	Induction of labor	Y, N, U	Y—Yes, NN
AUGL	Augmentation of labor	Y, N, U	UUnknown
NVPR	Non-vertex present	Y, N, U	
STER	Steroids	Y, N, U	
ANTB	Antibiotics	Y, N, U	
CHOR	Chorioamnionitis	Y, N, U	
MECS	Meconium staining	Y, N, U	
FINT	Fetal intolerance	Y, N, U	
ESAN	Anesthesia	Y, N, U	
NOA04	None of the above	Y, N, U	
DNA04	Pending flag	0	Off
	2 3	1	On

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the state

If no boxes are checked, the following message will appear:

The item has not been completed. Please check "Unknown at this time" if the data are not available at this time. If any of the characteristics listed in the menu are

indicated, check the appropriate box(s). Please check the "None of the above" box if none of the listed characteristics of labor and delivery are indicated.

If the "Unknown at this time" box is checked, all other variables are assigned the "unknown" code and the flag is set to "ON." A message will appear that reads:

Please obtain the records necessary to complete this item. The item will be on the final review screen.

If the "None of the above" box is checked and at least one other box checked, assign the "no" code to the "None of above" variable and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

PAPER RECORD

Records filed with this item incomplete will be queried. If no response to query, assign each item the "unknown" code.

If "unknown" is printed in the box, assign each choice the "unknown" code.

If the "None of the above" box is checked and at least one other box checked, assign the "no" code to the "None of above" variable and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	VALUES
INDL (Induction of labor)	1	alpha character string	Y, N, U
AUGL (Augmentation of lab	or) 1	alpha character string	Y, N, U
NVPR (Non-vertex present)	1	alpha character string	Y, N, U
STER (Steroids)	1	alpha character string	Y, N, U
ANTB (Antibiotics)	1	alpha character string	Y, N, U
CHOR (Chorioamnionitis)	1	alpha character string	Y, N, U
MECS (Meconium staining)	1	alpha character string	Y, N, U
FINT (Fetal intolerance)	1	alpha character string	Y, N, U
ESAN (Anesthesia)	1	alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title:	METHOD OF DELIVERY	
Item Number:	46 certificate, 28 facility worksheet	
Description:	The physical process by which the complete he fetus was effected.	delivery of
Source of Informat	on:	
Preferred so	Recovery room record, newborn admiand physical	•
FOR A PAPER REC	INSTRUCTIONS ORD:	
A response to each se	tion is required.	
•	n for an individual section is not known at this tir for the particular section.	ne, print or type
	METHOD OF DELIVERY	
A. Was deliv	y with forceps attempted but unsuccessful?	
□ Yes	□ No	
B. Was deliv	y with vacuum extraction attempted but unsucces	ssful?
□ Y€	□ No	
C. Fetal prese	tation at birth	
	Cephalic Breech Other	
D. Final route	and method of delivery (Check one)	
	Vaginal/Spontaneous Vaginal/Forceps Vaginal/Vacuum Cesarean	

If cesarean, was a trial of labo	r attempted'
□ Yes	
□ No	

FOR AN ELECTRONIC RECORD:

EBR developer (Instructions are in Italics)

The definitions below should be available through the help function for the item "method of delivery."

- Attempted forceps or vacuum: Obstetric forceps, ventouse or vacuum cup was applied to the fetal head in an unsuccessful attempt to effect delivery of the head through the vagina.
- **Cephalic presentation:** Presenting part of the fetus listed as vertex, occiput anterior (OA), occiput posterior (OP).
- **Breech presentation:** Presenting part of the fetus listed as breech, complete breech, frank breech, footling breech.
- Other presentation: Any other presentation or presenting part not listed above.
- **Spontaneous delivery:** Delivery of the entire fetus through the vagina by the natural forces of labor with or without manual assistance from the delivery attendant.
- **Forceps delivery:** Delivery of the fetal head through the vagina by application of obstetrical forceps to the fetal head.
- **Vacuum delivery:** Delivery of the fetal head through the vagina by application of a vacuum cup or ventouse to the fetal head.
- **Cesarean delivery:** Extraction of the fetus, placenta and membranes through an incision in the maternal abdominal and uterine walls.

The following instruction should appear when the item is to be completed:

Please complete each section by checking the appropriate boxes. If the data are not available for completing an individual section, check the "Unknown at this time" box. DO NOT LEAVE ANY SECTION BLANK.

Each section should appear individually. As soon as one box is checked in section A, section B should then appear. As soon section B is completed, section C should appear, etc.. This is to prevent both "yes" and "no" being checked.

A. Was o	delivery	with forceps attempted but unsuccessful?
	Yes	□ No
	Unkno	wn at this time
B. Was o	delivery	with vacuum extraction attempted but unsuccessful?
[Yes	□ No
Ε	Unkn	own at this time
C. Fetal	presenta	tion at birth (Check one)
	_ _ _	Cephalic Breech Other
		Unknown at this time
D. Final	route an	d method of delivery (Check one)
Vagir		Vaginal/Spontaneous Vaginal/Forceps Vaginal/Vacuum Cesarean
		Unknown at this time
If the Cesarean l	box is ch	ecked the following question appears:
		If cesarean, was a trial of labor attempted?
		□ Yes □ No
		Unknown at this time

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
ATTF	Attempted forceps	Y, N, U	
ATTV	Attempted vacuum	Y, N, U	
DNAA	Follow up flag section A	0	Off
		1	On
DNAB	Follow up flag section B	0	Off
		1	On
PRES	Fetal presentation	1	Cephalic
		2	Breech
		3	Other
		9	Unknown
DNAC	Follow up flag section C	0	Off
		1	On
ROUT	Route and method of delivery	1	Spontaneous
		2	Forceps
		3	Vacuum
		4	Cesarean
		9	Unknown
DNAD	Follow up flag section D	0	Off
	-	1	On
TLAB	Trial of labor attempted	Y, N, X, U	
DNAL	Follow up flag trial of labor	0	Off
		1	On
			YYes
			NNo
			XNot applicable
			UUnknown

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If any of the "Unknown at this time" boxes are checked, the following message appears:

Please obtain the information necessary to complete this section. The section will appear on the final review screen

If any of the "Unknown at this time" boxes are checked the flag for that section is set to "ON" and the variables are assigned "unknown" codes

SECTION A: DELIVERY ATTEMPTED WITH FORCEPS

If the "Unknown at this time" box is not checked for the section, either the "yes" or "no" box for the item "Attempted forceps" must be checked. If neither box is checked, the following message shall appear.

Please choose either the "yes" or "no" box for the item "Attempted forceps," or check the "Unknown at this time box for the section." The entry screen should appear.

SECTION B: DELIVERY ATTEMPTED WITH VACUUM

If the "Unknown at this time" box is not checked, either the "yes" or "no" box for the item "Attempted vacuum" must be checked. If neither box is checked, the following message shall appear.

Please choose either the "yes" or "no" box for the item "Attempted vacuum" The entry screen should appear.

SECTION C: FETAL PRESENTATION AT BIRTH

If none of the boxes are checked, the following message shall appear:

Please choose one of the choices from the menu. The menu of choices shall appear:

If more than one box is checked, the following message shall appear:

More than one choice from the menu was selected. Please review and pick only one menu item. The menu list shall appear:

SECTION D: FINAL ROUTE AND METHOD OF DELIVERY

If none of the boxes are checked, the following message shall appear:

Please choose one of the choices from the menu. The menu of choices shall appear:

If more than one box is checked, the following message shall appear:

More than one choice from the menu was selected. Please review and pick only one menu item. The menu list shall appear:

If "Cesarean" is checked, a response to the question on the attempted trial of labor is required. If neither the "yes" or "no" box is checked, the following message appears:

A response to the question concerning a trial of labor was not entered. Please choose the appropriate box.

If the "Cesarean" box is not checked, the "not applicable" code shall be assigned to the variable "Attempted trial of labor."

If the final route and method chosen is "forceps," the variable for "Attempted forceps" must be assigned the "no" code.

If the final route and method chosen is "vacuum," the variable "Attempted vacuum" must be assigned the "no" code.

PAPER RECORD

Records filed with any of the sections for this item are queried. If no response to query, code each item to the "unknown" code.

The edits listed under electronic records apply after data entry of this item.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	<u>TYPE</u>	<u>VALUE</u>
ATTF	1	Alpha character string	Y, N, U
ATTV	1	Alpha character string	Y, N, U
PRES	1	Numeric	1,2,3,9
ROUT	1	Numeric	1,2,3,4,9
TLAB	1	Alpha character string	Y, N, U, X

EDI TRANSMISSION:

No standards set yet

Item Title: MATERNAL MORBIDITY

Item Number: 47 Certificate, 29 Facility worksheet

Description: Serious complications experienced by the mother

associated with labor and delivery

Source of Information:

Preferred Source: Delivery record, Recovery room record, Operative

note, Physician progress note, Transfer note,

Intake and output form

INSTRUCTIONS

FOR A PAPER RECORD:

Check all boxes that apply.

If unknown, print or type "unknown" in the space.

MATERNAL MORBIDITY (Check all that apply)

(Complications associated with labor and delivery)

3.6 . 1	
Maternal	transfusion
 matcinai	uansiusion

- ☐ Third or fourth degree perineal laceration
- □ Ruptured uterus
- □ Unplanned hysterectomy
- ☐ Admission to intensive care unit
- □ Unplanned operating room procedure following delivery
- □ None of the above

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The following definitions are to be in the help menu for this item:

Maternal transfusion: Includes infusion of whole blood or packed red blood cells within the period specified.

Third or fourth degree perineal laceration: 3rd degree laceration extends completely through the perineal skin, vaginal mucosa, perineal body and anal sphincter. 4th degree laceration is all of the above with extension through the rectal mucosa.

Ruptured Uterus: Tearing of the uterine wall.

Unplanned hysterectomy: Surgical removal of the uterus that was not planned prior to admission for delivery. Includes an anticipated or possible but not definitively planned procedure.

Admission to intensive care unit: Any admission, planned or unplanned, of the mother to a facility/unit designated as providing intensive care.

Unplanned operating room procedure following delivery: Any transfer of the mother back to a surgical area for an operative procedure that was not planned prior to the admission for delivery. Excludes postpartum tubal ligations.

The following instruction should appear on the screen with the menu:

Please check all boxes that apply. If none are indicated, check "None of the above." If the data are not available at this time, check "Unknown at this time." DO NOT LEAVE THIS ITEM BLANK.

_ _	Maternal transfusion Third or fourth degree perineal laceration Ruptured uterus
	Unplanned hysterectomy
	Admission to intensive care unit
	Unplanned operating room procedure following delivery
	None of the above
	Unknown at this time

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINTION
MTR	Maternal transfusion	Y, N, U	YYes, N—No,
PLAC	Perineal laceration	Y, N, U	UUnknown
RUT	Ruptured uterus	Y, N, U	
UHYS	Unplanned hysterectomy	Y, N, U	
AINT	Admission to intensive care	Y, N, U	
UOPR	Unplanned operation	Y, N, U	
NOA05	None of the above	Y, N, U	

DNA05 Pending flag 0 OFF 1 ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If no boxes are checked, the following message will appear:

The item has not been completed. Please check "Unknown at this time" if the data are not available. If any of the choices listed in the menu are indicated, check the appropriate box(s). Please check the "None of the above" box if none of the listed maternal morbidity items are indicated.

If the "None of the above" box is checked and at least one other box checked, assign the "None of above box" variable the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to items not checked.

PAPER RECORD

Records filed with all the items in the menu left blank are queried. If no response to query, code each item to the "unknown" code.

If "unknown" is printed in the box, assign each choice the "unknown" code.

If the "None of the above" box is checked and at least one other box checked, change the "None of above box" response to the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
MTR (Maternal transfusion)	1	Alpha character string	Y, N, U
PLAC (Perineal laceration)	1	Alpha character string	Y, N, U
RUT (Ruptured uterus)	1	Alpha character string	Y, N, U
UHYS (Unp. hysterectomy)	1	Alpha character string	Y, N, U
AINT (Admit to intensive car	re) 1	Alpha character string	Y, N, U
UOPR (Unp. Operation)	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title:	BIRTHWEIGHT
Item Number:	49 Certificate, 30 Facility worksheet
Description:	The weight of the infant at birth.
Source of Inform	ation:
Preferred	Source: Delivery record, Admission assessment
	INSTRUCTIONS
FOR A PAPER R	ECORD:
pounds and ounces DO NOT convert w Please specify whe	weigh and report the infant's birthweight in grams. Report weight in (lb/oz) only if weight in grams is not available. weight from lb/oz to grams. ther grams or lb/oz are used. s not known, print or type "unknown" in the space.
BIRTHWEIGHT (grams preferred, specify unit)
□ grams	□ lb/oz
FOR AN ELECTI	RONIC RECORD:
EBR Developer: (Instructions are in italics).
	the child is to be entered in the units in which it is measured . Hospital staff should not convert from lbs/oz to grams.
The following instr	ruction should appear when the birthweight item is to be completed.
Please check one l	oox below.
	eight is measured in grams eight is measured in pounds and ounces
When the box for g	rams is checked, the following appears:
Birthweight of infa	nntgrams.
When the pounds a	and ounces box is checked, the following appears:

Birthweight of infant lbs.

The following instruction should appear in the help menu:

Unknown Birthweight: If the birthweight of the infant is not known, check the grams box and enter 9999, or the pounds and ounces box and enter 99,99.

If 9's are entered the following message will appear:

Please obtain the records needed to complete this item. The item will appear on the final review screen.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
BWG	Infant's birthweight	0000-9998 9999	Birthweight in grams Unknown
BWP BWO	Infants birthweight Infants birthweight	00-20 00-15 99 99	Birthweight pounds Birthweight ounces Birthweight pounds Birthweight ounces
BW_BYPASS	Bypass flag	0 1 2	OFF Queried data correct, but out of range Queried, failed birthweight/gestation edit.

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

Birthweights in pounds and ounces are converted to grams and assigned to the BWG field for editing and tabulation purposes. (<u>Do not convert unknown (99, 99) values for pounds and ounces.</u>)

The conversion algorithm is:

$$BWG = ((BWP*16) + BWO)*28.35$$

Round the result as follows: If the result is not a whole number and the fraction is 0.5 or greater, round to the next higher whole gram. If the fraction is <0.5, round to the lower whole gram.

The item must have a value of 0000-9999.

If 9999 is entered the following message appears:

Please obtain the records to complete this item. The item will appear on the final review screen.

If birthweight is £ 227 or 3 8165 but not 9999, the following message should appear:

The birthweight of the infant is grams.

Please check the box or enter a new weight.

□ Weight is correct

Birthweight is _____ grams.

If the "Birthweight correct" box is checked the BW BYPASS variable is set to ON-1.

If a new birthweight is entered the edit is rerun. If the edit fails, the BW_BYPASS variable is set to ON-1. If the edit passes, the BW_BYPASS variable is set to OFF-0.

BIRTHWEIGHT/GESTATION CONSISTENCY CHECK

The following edit is done if: the BW_BYPASS flag is 0, the birthweight value is not 9999, and the C_GESTM (calculated months of gestation, see item "Date Last Normal Menses Began) is 4-11:

If C_GESTM is <5 and plurality is any valid value, BW < 1,000 grams If C_GESTM is 5 and plurality is any valid value, BW < 2,000 grams If C_GESTM is 6 and plurality is any valid value, BW < 3,000 grams If C_GESTM is 7 and plurality is any valid value, BW < 4,000 grams If C_GESTM is equal to or >8 and plurality is value 1, BW < 3,000 grams.

The following edit is done if: the BW_BYPASS flag is 0, the birthweight value is not 9999, the C_GESTM is not 4-11 (values 99 or 88), the OWGEST (obstetric estimate of gestation in weeks, see item "Obstetric Estimate of Gestation") is 17-47, and the OWGEST_BYPASS is 0:

If OWGEST is <20 and plurality is any valid value, BW < 1,000 grams If OWGEST is 20-23 and plurality is any valid value, BW < 2,000 grams If OWGEST is 24-27 and plurality is any valid value, BW < 3,000 grams If OWGEST is 28-31 and plurality is any valid value, BW < 4,000 grams IF OWGEST is 32-47 and plurality is value 1, BW < 3,000 grams.

If these edits fail, an error message appears that reads:

The record indicates that the infant has a gestation ofmonths/weeks and a
birthweight ofgrams.
Please check the correct box or enter a new birthweight.
□ Birthweight correct
= Bhim office contest
Birthweight grams
Birtiiweight grains
If the "Birthweight correct" box is checked, the BW BYPASS flag is set to ON-2
If the Dirinweight correct Dox is checked, the DW DIFASS hag is set to ON-2

If a new birthweight is entered, the edit is rerun. If the edit fails, the BW BYPASS variable is set to ON-2. If the edit passes, the BW BYPASS variable is set to OFF-0.

PAPER RECORD

Records filed with the birthweight blank should be queried. If no response to query, assign 9999 to the birthweight grams variable.

State Edits of data file prior to NCHS transmission

See above edits for electronic records.

STATE FILE CONSIDERATIONS

States may want to keep all the processing variables.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	<u>VALUES</u>
BWG	4	Numeric	0000-9999
BW_BYPASS	5 1	Numeric	0,1,2

EDI TRANSMISSION:

No standards set yet.

Item Title:	OBSTETRIC ESTIMATION OF GESTATION
Item Number:	50 Certificate, 31 Facility worksheet
Description:	The obstetric estimate of the infant's gestation in completed weeks based on the birth attendant's final estimate of gestation which should be determined by all perinatal factors and assessments such as ultrasound, but not the neonatal exam
Source of Informati	ion:
Preferred So	urce: OB Admission history and physical
	INSTRUCTIONS
FOR A PAPER REC	CORD:
If the obstetric estima	tric estimate of the infant's gestation. te of gestation is not known, print or type "unknown" in the space. item based on the infant's date of birth and the mother's date of
0 - 0	ATE OF GESTATION: leted weeks)
FOR AN ELECTRO	ONIC RECORD:
EBR Developer (Inst	tructions are in Italics)
The obstetric estimat	e of the infant's gestation is to be entered in completed weeks.

The following instruction should appear in the help menu.

Obstetric estimate of gestation _____ completed weeks.

Unknown Obstetric Estimate of Gestation: If the obstetric estimate of the infant's gestation is not known, enter 99. Do not complete this item based on the infant's date of birth and the mother's date of LMP.

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	<u>VALUES</u>	DEFINITION
OWGEST	Obstetric estimate of gestation	00-98 99	Gestation in weeks Unknown
OWGEST_B	YPASS Bypass flag	0 1	OFF Queried data correct, but out of range

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

The item must have a value in the range 00-99.

If 99 is entered, the following message shall appear:

Please obtain the records needed to complete this item. The item will appear on the final review screen.

If gestation is <17 or >47 but not 99, the following message should appear:

The obstetric estimate of the infant's gestation is ______ weeks.

Please check "Correct" or enter a new gestation.

□ Correct

Gestation is _____ weeks.

If "Correct" is checked the OWGEST BYPASS variable is set to ON-1.

If a new gestation is entered the edit is rerun. If the edit fails, the OWGEST_BYPASS variable is set to ON-1. If the edit passes, the OWGEST_BYPASS variable is set to OFF-0.

PAPER RECORD

Records filed with the "Obstetric estimate of gestation" blank should be queried. If no response to query, enter 99.

State Edits of data file prior to NCHS transmission

See above edits for electronic records.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	LENGTH	TYPE	<u>VALUES</u>
OWGEST	2	Numeric	00-98,99
OWGEST_BYPASS	1	Numeric	0,1

EDI TRANSMISSION:

No standards set yet.

Item Title:	APGAR SCORE
Item Number:	51 Certificate, 33 Facility worksheet
Description:	The Apgar Score for the child at 5 and 10 minutes
Source of Informat	ion:
Preferred So	ource: Delivery record (infant data)
	INSTRUCTIONS
FOR A PAPER REG	CORD:
- .	gar score at 5 minutes, and if the score at 5 minutes is less than 6, gar score at 10 minutes.
APGAR SCORE Score at 5 minutes: _	
If 5 minute score is le	ss than 6,
Score at 10 minutes:	
If the infant's Apgar a print or type "unknown	score is not known or was not taken at 5 minutes or ten minutes, vn" in the space.
FOR AN ELECTRO	ONIC RECORD:
EBR Developer (Ins	tructions are in italics)
The following instruc	ction should appear:
± '	gar score taken at 5 minutes score is not known or was not taken at 5 minutes, enter 99.
	Apgar score at 5 minutes
If the score entered is assigned the value "d	s 6 or greater, the variable for the Apgar score at 10 minutes is 88."
If the score entered is appears with the foll	s less than 6 or 99, a request for the Apgar score at 10 minutes owing instruction:

Enter the infant's Apgar score taken at 10 minutes.

If the infant's Apgar score is not known or was not taken at 10 minut	es, enter 99.
Apgar score at 10 minutes	

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINITION
APGAR5	Apgar score at 5 minutes	00-10 99	Apgar score Unknown
APGAR10	Apgar score at 10 minutes	00-10 88 99	Apgar score Not applicable Unknown

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

The variable APGAR5 must have a value in the range 00-10, 99.

The variable APGAR10 must have a value in the range 00-10, 88, 99

If either variable's value is greater than 10 but not 88 or 99, the following message should appear:

The infant's Apgar score is recorded as	·
Please re-enter the infant's Apgar score	

If the new Apgar score is greater than 10, assign "99" to the appropriate variable.

PAPER RECORD

Records filed with the "Apgar score(s)" blank should be queried. If no response to query, enter "99" for each variable.

State Edits of data file prior to NCHS transmission

See above edits for electronic records.

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u>	<u>LENGTH</u>	TYPE	<u>VALUES</u>
APGAR5	2	Numeric	00-10, 99
APGAR10	2	Numeric	00-10, 88, 99

EDI TRANSMISSION:

No standards set yet.

Item Titles: **PLURALITY**

IF NOT SINGLE BIRTH - Born First, Second,

Third, etc. (Specify)

Item Numbers: 52 certificate; 34 facility worksheet

53 certificate; 35 facility worksheet N/A certificate; 36 facility worksheet

Description: Plurality – The number of fetuses delivered live or dead

at any time in the pregnancy regardless of gestational age or if the fetuses were delivered at different dates in the pregnancy. ("Reabsorbed" fetuses, those which are not "delivered" (expulsed or extracted from the mother)

should not be counted.)

If not single birth, specify born 1st, 2nd, etc. – For multiple deliveries, the order this infant was delivered in

the set. Include all live births and fetal losses.

If not single birth, specify the number of infants in this delivery born alive -- For multiple deliveries, the number

of infants born alive at any point in the pregnancy.

Source of Information:

Preferred Source: Admission history and physical, Delivery record

INSTRUCTIONS

FOR A PAPER RECORD:

Item 52, Plurality.

Print or type the plurality of this pregnancy e.g., single, twin, triplet, etc. Include all products of the pregnancy, that is, all live births and fetal deaths delivered at any point during the pregnancy.

PLURALITY	-	Single,	Twin,	Triplet,	etc
(Specify)					

Item 53, Set Order.

If this is a singleton delivery, leave this item blank. For multiple deliveries, print the order that this infant was delivered in the set, e.g., first, second, third, etc. Count all live births and fetal deaths delivered at any point in the pregnancy.

IF NOT SINGLE BIRTH – Born First, Second, Third, etc. (Specify)
FOR AN ELECTRONIC RECORD:
EBR Developer: (Instructions are in italics)
Plurality
Enter the number of fetuses delivered (1,2,3,4,5,6,7,8,9, etc.) in the pregnancy. (Twins=2, Triplets=3 etc.) Include all live births and fetal deaths delivered at any point in the pregnancy regardless of gestational age. Example: If one infant is born alive and two are born dead enter "3."
If plurality is unknown enter "99."
Plurality (number of fetuses delivered)
If plurality = 99, assign "99" to "Set Order" (SORD) and to "Live born" (LIVEB).
If plurality = 1, assign the "not applicable" code "88" to variables "Set Order" and "Live Born."
If plurality >1 and not "99" the following question is asked:
Enter the order this infant was delivered in the pregnancy or set (1,2,3,4,5,6,7,8,9, etc.) Include all live births and fetal deaths delivered at any point in the pregnancy regardless of gestational age. If the order is unknown enter "99."
Set order of this infant

If "Live Born" > 1, an identification number unique to each multiple set born in the State for that year is generated. Each live born member of the set (and each fetal death, if the fetal death system is integrated with the birth) is assigned the same identification

If plurality is >1 and not "99" the following question is asked:

Enter the total number of infants born alive in the delivery

number. This number is entered for the variable "MATCH. The identification number may be the mother's medical record number, or any other identifying number which would be unique to the multiple set for that State.

Example: (Assuming all born live)

Twin set A—1st born #345671

2nd born #345671

Twin set $B - 1^{st}$ born #567897 2^{nd} born #567897

Triplet set $A - 1^{st}$ born #789014 2^{nd} born #789014 3^{rd} born #789014

When a number is assigned, a new record for each member of the set except the 1st born is created. Information common to all set members (e.g., mother's demographic and prenatal care information) is copied for each additional infant. Only information potentially unique to the individual set member (e.g., method of delivery, abnormal conditions, birthweight) need be entered. (See "Attachment to the Facility Worksheet for the Live Birth Certificate for Multiple Births.")

The purpose of generating identification numbers for multiple birth sets is to enhance quality control and to allow NCHS to more readily match members of multiple birth sets for data analysis.

The default MATCH number is 000000 (single delivery).

If the fetal death reporting system is integrated with the EBR system, sequence numbers can be assigned to fetal deaths delivered in multiple deliveries and fetal death reports initiated.

PROCESSING VARIABLES:

NAME	DESCRIPTION	VALUES	DEFINITION
PLUR	Plurality	01-16	Number of fetuses delivered
		99	Unknown
SORD	Set order	01-16	Order this infant was delivered in the set
		88	Not applicable
		99	Unknown
LIVEB	Number of Live born	01-16	Number of infants

МАТСН	Matching number	88 99 000001to 999999	delivered alive Not applicable Unknown An ID number unique to multiple birth sets. Each set member has the same ID number.
PLUR_BYPASS	edit flag	0 1	OFF ON, queried and
		2	orrect ON, Plurality/Set Order queried and inconsistent

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

Plurality must be in the range 1-16, 99.

If plurality is >9 *but not* 99, *the following message should appear:*

The number of fetuses in this delivery is recorded as . .

Please indicate whether this number is "correct" or enter a new number.

□ correct

Number of fetuses (born live or dead) in this delivery_____

If "Correct" is checked the PLUR BYPASS variable is set to ON-1.

If a new number is entered the edit is rerun. If the edit fails, the PLUR_BYPASS variable is set to ON-1. If the edit passes, the PLUR_BYPASS variable is set to OFF-0.

If plurality > 16 after the edit is run, change the value to 16.

If plurality = "99," "set order" must = "99."

If plurality = "1," "set order" must = "88."

If plurality > 1 but not "99," "set order" must be \mathfrak{L} plurality.

If this edit fails the following message occurs	5 :
The record indicates that there werefet infant was	tuses in this delivery but the set order of the
Please enter a new value for each of these item	s:
Total number of fetuses (born live and dead) in Set order of this infant	n this delivery
The edit is re-run and if it fails the bypass fla	g is set to ON-2.

The number of infants born alive in this delivery must be \mathfrak{L} the plurality. If it is not, a message should appear showing the discrepancy and asking that it be resolved by reentering "plurality" and "set order."

For quality control, the EBR system should make sure that the correct number of records is completed for each live born infant in the multiple delivery by comparing the number for which the same identification number (MATCH) has been generated with the number reported as "Live born" (LIVEB).

PAPER RECORD

Records filed with the "Plurality" item blank are to be queried. If no response to query, assign "99" to the "plurality" and "set order" variables.

If "plurality" is > 1 and the "set order" is blank, query. If no response to query, assign "99" to the set order variable.

STATE DATA FILE CONSIDERATIONS

If states key literals for plurality (single, twin, etc.) and first, second etc for "Set order", on paper records, they will have to be translated to the corresponding numerical value for editing and transmission to NCHS.

NCHS TRANSMISSION FILE

Values of "88" for the SORD and LIVEB variables are changed to "99" for transmission to NCHS.

Any values greater than "16" other than "99" for the PLUR and ORDER variables are assigned the value "16" for transmission to NCHS

<u>NAME</u>	<u>LENGTH</u>	TYPE	<u>VALUES</u>
PLUR	2	Numeric	01-16, 99
SORD	2	Numeric	01-16, 99
LIVEB	2	Numeric	01-16, 99
MATCH	6	Numeric	000001- 999999
PLUR_BYPASS	1	Numeric	0,1,2

EDI TRANSMISSION:

No standards set yet.

Item Title: ABNORMAL CONDITIONS OF THE

NEWBORN

Item Number: 54 Certificate; 37 Facility worksheet

Description: Disorders or significant morbidity experienced by the

newborn infant

Source of Information:

Preferred Source: Labor and delivery summary, Newborn history and

physical, Newborn medical admission record

INSTRUCTIONS

FOR A PAPER RECORD:

Check all boxes that apply to this child.

ABNORMAL CONDITIONS OF THE NEWBORN

- □ Assisted ventilation required immediately after delivery
- □ Assisted ventilation required for more than 6 hours
- □ NICU admission
- □ Newborn given surfactant replacement therapy
- □ Antibiotics received by the newborn for suspected neonatal sepsis
- Seizure or serious neurologic dysfunction
- □ Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)
- □ None of the above

FOR AN ELECTRONIC RECORD:

EBR Developer (*Instructions are in Italics*)

The following definitions are to be in the help menu for this item:

Assisted ventilation required immediately after delivery: Infant given manual breaths with bag and mask or bag and endotracheal tube within the first several minutes from birth for any duration. Excludes oxygen only and laryngoscopy for aspiration of meconium.

Assisted ventilation required for more than 6 hours: Infant given mechanical ventilation (breathing assistance) by any method for more than 6 hours. Includes conventional, high frequency and/or continuous positive pressure (CPAP).

NICU admission: Admission into a facility or unit staffed and equipped to provide continuous mechanical ventilatory support for the newborn.

Newborn given surfactant replacement therapy: Endotracheal instillation of a surface active suspension for the treatment of surfactant deficiency either due to preterm birth or pulmonary injury resulting in decreased lung compliance (respiratory distress). Includes both artificial and extracted natural surfactant.

Antibiotics received by the newborn for suspected neonatal sepsis: Any antibacterial drug given systemically (intravenous or intramuscular.)(e.g. penicillin, ampicillin, gentamicin, cefotoxine, etc.)

Seizure or serious neurologic dysfunction: Seizure defined as any involuntary repetitive, convulsive movement or behavior. Serious neurologic dysfunction defined as severe alteration of alertness such as obtundation, stupor, or coma, i.e. hypoxicischemic encephalopathy. Excludes lethargy or hypotonia in the absence of other neurologic findings. Exclude symptoms associated with CNS congenital anomalies.

Significant birth injury: (skeletal fracture(s), peripheral nerve injury and/or soft tissue/solid organ hemorrhage which requires intervention) Defined as present immediately following delivery or manifesting following delivery. Includes any bony fracture or weakness or loss of sensation, but excludes fractured clavicles and transient facial nerve palsy. Soft tissue hemorrhage requiring evaluation and/or treatment includes sub-galeal (progressive extravasation within the scalp) hemorrhage, giant cephalohematoma, extensive truncal, facial and /or extremity ecchymossi accompanied by evidence of anemia and/or hypovolemia and or hypotension. Solid organ hemorrhage includes subcapsular hematoma of the liver, fractures of the spleen, or adrenal hematoma. All require confirmation by diagnostic imaging or exploratory laparotomy. See below for listing of significant birth injuries:

Skeletal Fractures

Clavicle

Humerus

Skull (Also reported by skull bone, i.e. parietal, frontal, occipital)
Femur

Peripheral Nerve

Facial

Brachial Plexus Injury

(Also reported as Erb's Palsy, Klumpke's Palsy)

Phrenic

Recurrent Laryngeal

Soft Tissue or Solid Organ Hemorrhage

Cranial (exclude cephalohemtoma, hemorrhagic caput succedaneum)

Subgaleal

Cortical

Intraventricular

Subcapsular hematoma of liver

Adrenal hemorrhage/hematoma

The following instruction should appear with the menu.

Please check all boxes that apply. If none of the abnormal conditions of the newborn are indicated, check "None of the above." DO NOT LEAVE THIS ITEM BLANK.

- □ Assisted ventilation required immediately after delivery
- ☐ Assisted ventilation required for more than 6 hours
- □ NICU admission
- □ Newborn given surfactant replacement therapy
- □ Antibiotics received by the newborn for suspected neonatal sepsis
- □ Seizure or serious neurologic dysfunction
- ☐ Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)
- □ None of the above
- □ Unknown at this time

PROCESSING VARIABLES:

NAMES	DESCRIPTION	VALUES	DEFINTION
AVEN1	Assisted ventilation	Y, N, U	YYes, N—No,
AVEN6	Assisted ventilation for 6	or	
	more hours	Y, N, U	UUnknown
NICU	Admission to NICU	Y, N, U	
SURF	Surfactant replacement		
	therapy	Y, N, U	
ANTI	Antibiotics	Y, N, U	
SEIZ	Seizure or serious neurolo	gic	
	dysfunction	Y, N, U	
BINJ	Significant birth injury	Y, N, U	
NOA54	None of the above	Y, N, U	
DNA54	Pending flag	0	OFF
		1	ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If no boxes are checked, the following message will appear:

The item has not been completed. If the data are not available at this time please check "Unknown at this time." If any of the abnormal conditions listed in the menu are indicated, check the appropriate box. Check "None of the above" if none of the listed abnormal conditions are indicated.

If the unknown at this time box is checked all variables are assigned the "unknown" code and the pending flag is set to "ON." A message will appear that reads:

Please obtain the records needed to complete this item. The item will appear on the final review screen.

If the "None of the above" box is checked and at least one other box checked, assign the "None of above" variable the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to items not checked.

PAPER RECORD

Records filed with all the items in the menu left blank are queried. If no response to query, assign each item to the "Unknown" code.

If "unknown" is printed in the box, assign each choice in the menu the "unknown" code.

If the "None of the above" box is checked and at least one other box checked, change the "None of above" response to the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

NCHS TRANSMISSION FILE

VARIABLES:

<u>NAME</u> <u>L</u>	ENGTH	TYPE	<u>VALUES</u>
AVEN1 (Assisted ventilation)	1	Alpha character string	Y, N, U
AVEN6 (Assisted ventilation 6)	1	Alpha character string	Y, N, U
NICU (Admission to NICU)	1	Alpha character string	Y, N, U
SURF (Surfactant)	1	Alpha character string	Y, N, U
ANTI (Antibiotics)	1	Alpha character string	Y, N, U
SEIZ (Seizures)	1	Alpha character string	Y, N, U
BINJ (Birth injury)	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title: CONGENITAL ANOMALIES OF THE

NEWBORN

Item Number: 55 Certificate, 38 Facility worksheet

Description: Malformations of the newborn diagnosed prenatally or

after delivery

Source of Information:

Preferred Source: Labor and delivery summary, Infant history and

physical, Physician progress notes, Newborn

admission history and physical

INSTRUCTIONS

FOR A PAPER RECORD:

CONGENITAL ANOMALIES OF THE NEWBORN

Check all boxes that apply to this child.

- Anencephaly
- □ Meningomyelocele / Spina Bifida
- □ Cyanotic congenital heart disease
- □ Congenital diaphramatic hernia
- Omphalocele
- Gastroschisis
- □ Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
- □ Cleft Lip with or without Cleft Palate
- □ Cleft Palate alone
- Down Syndrome
 - □ Karyotype confirmed
 - □ Karyotype pending
- □ Suspected chromosomal disorder
 - □ Karyotype confirmed
 - □ Karyotype pending
- Hypospadias
- □ None of the anomalies listed above

FOR AN ELECTRONIC RECORD:

EBR Developer (Instructions are in Italics)

The following definitions are to be in the help menu for this item:

Anencephaly: Partial or complete absence of the brain and skull. Also called anencephalus, acrania, or absent brain. Babies with craniorachischisis (anencephaly with contiguous spine defect) should also be included in this category.

Meningomyelocele / Spina Bifida: Spina bifida refers to herniation of the meninges and/or spinal cord tissue through a bony defect of spine closure. Meningomyelocele refers to herniation of meninges and spinal cord tissue. Babies with meningocele (herniation of meninges without spinal cord tissue) should also be included in the category. Both open and closed (covered with skin) lesions should be included. Spina bifida occulta (a midline bony spinal defect without protrusion of the spinal cord or meninges) should not be included in this category.

Cyanotic congenital heart disease: Congenital heart defects which cause cyanosis. Includes but is not limited to transposition of the great arteries (vessels), teratology of Fallot, pulmonary or pulmonic valvular atresia, tricuspid atresia, truncus arteriosus, total/partial anomalous pulmonary venous return with or without obstruction.

Congenital diaphragmatic hernia: Defect in the formation of the diaphragm allowing herniation of abdominal organs into the thoracic cavity.

Omphalocele: A defect in the anterior abdominal wall, accompanied by herniation of some abdominal organs through a widened umbilical ring into the umbilical stalk. The defect is covered by a membrane, (different from gastroschisis, see below), although this sac may rupture. Also called exomphalos. Umbilical hernia (completely covered by skin) should not be included in this category.

Gastroschisis: An abnormality of the anterior abdominal wall, lateral to the umbilicus, resulting in herniation of the abdominal contents directly into the amniotic cavity. Differentiated from omphalocele by the location of the defect and absence of a protective membrane.

Limb reduction defect: (excluding congenital amputation and dwarfing syndromes) Complete or partial absence of a portion of an extremity secondary to failure to develop.

Cleft Lip with or without Cleft Palate: Cleft lip with or without cleft palate refers to incomplete closure of the lip. Cleft lip may be unilateral, bilateral or median; all should be included in this category.

Cleft Palate alone: Cleft palate refers to incomplete fusion of the palatal shelves. This may be limited to the soft palate or may also extend into the hard palate. Cleft palate in the presence of cleft lip should be included in the "Cleft Lip with or without cleft Palate" category, rather than here.

Down Syndrome: Trisomy 21

Suspected chromosomal disorder: Includes any constellation of congenital malformations resulting from or compatible with known syndromes caused by detectable defects in chromosome structure.

Hypospadias: Incomplete closure of the male urethra resulting in the urethral meatus opening on the ventral surface of the penis. Includes first degree – on the glans ventral to the tip, second degree – in the

coronal sulcus, and third degree - on the penile shaft.

The following menu of congenital anomalies of the newborn should be used. The following instruction should appear on the screen with the menu.

The selection of the Karyotype pending or confirmed for the Down Syndrome and Suspected chromosomal disorder anomalies should only appear if the box for Down Syndrome and/or Suspected chromosomal disorder boxes are checked.

Please check all boxes that apply on the menu. If the information needed to complete this item is not available at this time please check the "Unknown at this time" box. If none of the congenital anomalies of the newborn are indicated, check the "None of the above" box. DO NOT LEAVE THIS ITEM BLANK.

CONGENITAL ANOMALIES OF THE NEWBORN

Check all boxes that apply to this child.

Anencephaly
Meningomyelocele / Spina Bifida
Cyanotic congenital heart disease
Congenital diaphramatic hernia
Omphalocele
Gastroschisis
Limb reduction defect (excluding congenital amputation and dwarfing
syndrones)
Cleft Lip with or without Cleft Palate
Cleft Palate alone
Down Syndrome
Karyotype confirmed
 Karyotype pending
Suspected chromosomal disorder
Karyotype confirmed
 Karyotype pending
Hypospadias
None of the anomalies listed above
Unknown at this time

PROCESSING VARIABLES:

<u>NAME</u>	DESCRIPTION	VALUES	DEFINTION
ANEN	Anencephaly	Y, N, U	YYes, N—No,
MNSB	Meningomyelocele/		
	Spina Bifida	Y, N, U	UUnknown
CCHD	Cyanotic congenital		
	heart disease	Y, N, U	
CDH	Congenital diaphragmatic		
	hernia	Y, N, U	
OMPH	Omphalocele	Y, N, U	
GAST	Gastroschisis	Y, N, U	
LIMB	Limb reduction defect	Y, N, U	
CL	Cleft Lip with or without		
	Cleft Palate	Y, N, U	
CP	Cleft Palate alone	Y, N, U	
DOWN	Down Syndrome	Y, N, U	
DOWC	Down Karyotype	, ,	
	confirmed	Y, N, U	
DOWP	Down Karyotype	, ,	
	pending	Y, N, U	
CDIS	Suspected chromosomal	, , -	
	disorder	Y, N, U	
CDIC	Suspected chromosomal	1,11,0	
CDIC	disorder karyotype		
	confirmed	Y, N, U	
CDIP	Suspected chromosomal	1,11,0	
CDII	disorder karyotype		
	pending	Y, N, U	
НҮРО	Hypospadias	Y, N, U	
11110	Trypospadias	1, N, O	
NOA55	None of the above	Y, N, U	
DNA55	Follow up flag	0	OFF
	-	1	ON

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

If no boxes are checked, the following message will appear:

The item has not been completed. Please check the "Unknown at this time" box if the data are not available to complete this item at this time. Check the "None of the above" box if none of the listed abnormal conditions of the newborn are indicated. If any of the abnormal conditions listed in the menu are indicated, check the appropriate box(s).

If the "Unknown at this time" box is checked, all variables are assigned the "unknown" code and the pending flag is set to "ON." A message will appear that reads:

Please obtain the records needed to complete this item. The item will appear on the final review screen.

If the "None of the above" box is checked and at least one other box checked, assign the "no" code to the "None of above" variable" and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

If the "Down syndrome" or "Suspected chromosomal disorder" boxes are checked, then either the "Karyotype confirmed" or "Karyotype pending" box must be checked. If neither are checked a message should appear asking that one of the two choices be selected. If both boxes are checked a message should appear that only one box can be checked and to choose the appropriate response.

PAPER RECORD

Records filed with all the items in the menu left blank are queried. If no response to query, code each item to the "unknown" code.

If the "None of the above" box is checked and at least one other box checked, change the "None of above box" response to the "no" code and continue edits.

If the "None of the above" box is checked and no other boxes checked, assign all other items the "no" code.

If the "None of the above" box is blank and at least one other box is checked, assign the "no" code to all blank boxes.

If the "Down Syndrome" box is checked and no boxes for the "Karyotype confirmed or pending" are checked, assign "yes" response to "karyotype pending" and the "no" response to "karyotype confirmed." If both boxes are checked, assign the "yes" response to "karyotype confirmed" and the "no" response to "karyotype" pending.

If the "Suspected chromosomal disorder" box is checked and no boxes for the "Karyotype confirmed or pending" are checked, assign "yes" response to "karyotype pending" and the "no" response to "karyotype confirmed." If both boxes are checked, assign the "yes" response to "karyotype confirmed" and "no" response to the "karyotype pending."

If a "karyotype confirmed or pending" box is checked and the corresponding anomaly is not checked, query. If no response to query assign all variables the "unknown" code.

State Edits of data file prior to NCHS transmission.

Must be valid codes (see below).

The processing variables DOWN, DOWC, and DOWP are combined into one variable called DOWT for transmission as follows:

If the processing variable DOWN is assigned the "yes" code and DOWC is assigned the "yes" code, assign DOWT the value "C." If the processing variable DOWN is assigned the "yes" code and DWOP is assigned the "yes" code, assign DOWT the value "P." If the processing variable DOWN is assigned the "no" code, assign DOWT the value "N" If the processing variable DOWN is assigned the "unknown" code, assign DOWT the value "X."

The processing variables CDIS, CDIC, and CDIP are combined into one variable called CDIT for transmission as follows:

If the processing variable CDIS is assigned the "yes" code and CDIC is assigned the "yes" code, assign CDIT the value "C." If the processing variable CDIS is assigned the "yes" code and CDIP is assigned the "yes" code, assign CDIT the value "P." If the processing variable CDIS is assigned the "no" code, assign CDIT the value "N" If the processing variable CDIS is assigned the "unknown" code, assign CDIT the value "X."

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	VALUES
ANEN (Anencephaly)	1	Alpha character string	VNII
MNSB (Meningomyelocele/Spina Bifida)	1	Alpha character string	
CCHD (Cyanotic congenital heart disease)	1	Alpha character string	
CDH (Congenital diaphragmatic hernia)	1	Alpha character string	Y, N, U
OMPH (Omphalocele)	1	Alpha character string	Y, N,U
GAST (Gastroschisis)	1	Alpha character string	Y, N,U
LIMB (Limb reduction defect)	1	Alpha character string	Y, N, U
CL (Cleft Lip with or without Cleft Palate)	1	Alpha character string	Y, N, U
CP (Cleft Palate alone)	1	Alpha character string	Y, N, U
DOWT (Down Syndrome)	1	Alpha character string	C, P, N, U
CDIT (Suspected chromosomal disorder)	1	Alpha character string	C, P, N, U
HYPO (Hypospadias)	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title:	WAS INFANT TRANSFERRED WITHIN 24 HOURS OF DELIVERY?			
Item Number:	56 Certificate, 39 facility worksheet			
Description:	Information on the transfer status of the infant within 24 hours after delivery			
Source of Informati	ion:			
Preferred sou	urce: Infant progress notes, Transfer form			
	INSTRUCTIONS			
FOR A PAPER REC	CORD:			
Check "yes" if the infant was transferred from this facility to another within 24 hours of delivery and enter the name of the facility the infant was transferred to. If the name of the facility is not known, print or type "unknown." If the infant was transferred more than once, enter the name of the first facility to which the infant was transferred.				
WAS INFANT TRANSFERRED WITHIN 24 HOURS OF DELIVERY? Yes No IF YES, PRINT OR TYPE THE NAME OF THE FACILITY THE INFANT WAS TRANSFERRED TO:				
FOR AN ELECTRONIC RECORD:				
EBR Developer (Instructions are in Italics)				
Was the infant transferred to a different facility within 24hours of delivery?				
	□ Yes □ No □ Unknown			
If the yes box is checked, the following appears:				

Please enter the name of the facility to which the infant was transferred.

If the name of the facility is not known, enter "unknown."

If the infant was transferred more than once enter the name of the first facility to which the infant was transferred.

Facility name:

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
ITRAN	Infant transferred	Y	Yes
		N	No
		U	Unknown
FTRAN	Name of facility to which		
	transferred	Alpha charac	cter string

EDITS:

ELECTRONIC RECORD

The transfer status cannot be blank.

If transfer status is left blank, the item will reappear at the final review screen.

If transfer status is "no", the name of facility field must be blank.

If the transfer status is "yes", the name of facility field must have an entry. "Unknown" is an acceptable entry.

If the name of the facility field has any entry except "unknown" and the transfer status is "no," a query message should appear asking that the inconsistency be corrected.

PAPER RECORD

Records filed with the transfer status blank shall be queried. If no response to query, enter response of "unknown."

If transfer status is "no," the name of facility field must be blank.

If the transfer status is "yes," the name of facility field must have an entry. "Unknown" is an acceptable entry.

If the name of the facility field has any entry except "unknown" and the transfer status is "no," query the inconsistency and resolve.

State Edits of data file prior to NCHS transmission

Must be a valid code (see below)

STATE FILE CONSIDERATIONS

States will need to have a field for the literal entry of facility names and/or NPI numbers or state facility codes.

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	VALUES
ITRAN	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set yet

Item Title:	IS INFANT LIVING AT THE TIME OF REPORT?
Item Number:	57 Certificate, 40 facility worksheet
Description:	Information on the infant's survival.
Source of Inform	nation:
Preferred	Source: Infant progress notes
	INSTRUCTIONS
FOR A PAPER R	RECORD:
Check "No" if it is If the infant was tr	infant is living. Einfant has already been discharged to home care. Es known that the infant has died. Eansferred but the status is known, indicate the known status. EIG AT TIME OF REPORT?
□ Yes □ No □	Infant transferred, status unknown
FOR AN ELECT	RONIC RECORD:
EBR Developer (A	Instructions are in Italics)
The following inst	ructions should appear when this item is to be completed:
Check "No" if it is	infant is living. e infant has already been discharged to home care. s known that the infant has died. ansferred but the status is known, please indicate the known status.
Is the infant living	g at the time of this report?
	□ Yes□ No□ Infant transferred, status unknown
	checked states may want to consider a pop-up window that appears facility that a death record must also be completed by the infant's

physician.

PROCESSING VARIABLES:

NAME	DESCRIPTION	<u>VALUES</u>	DEFINITION
ILIV	Infant living	Y	Yes
	_	N	No
		U	Infant transferred, status unknown

EDITS:

ELECTRONIC RECORD

Before the record is transmitted to the State

The living status cannot be blank.

PAPER RECORD

Records filed with the item "Is infant living at the time of report" blank shall be queried. If no response to query, enter response of "yes."

State Edits of data file prior to NCHS transmission

Must be a valid code (see below)

NCHS TRANSMISSION FILE

VARIABLES:

NAME	LENGTH	TYPE	VALUES	
ILIV	1	Alpha character string	Y, N, U	

EDI TRANSMISSION:

No standards set yet.

Item Title:	IS INFAN	T BEIN	G BRE	CASTFED?		
Item Number	r: 58 Certifica	58 Certificate; 41 facility work sheet				
Description:		Information on whether the infant is being breast-fed before discharge from the hospital.				
Source of Inf	formation:					
Preferred So	urce: Labor and Newborn flo	•	_	y, Maternal progress note n consult	<u>,</u>	
	IN	ISTRUC	ΓIONS			
FOR A PAPE	R RECORD:					
Check "No" if	f the infant is being brother infant is not being wn if the infant is being	breast-fed.		type "unknown" in the space.		
IS INFANT B	EING BREASTFED?	□ Yes	□ No			
FOR AN ELE	CCTRONIC RECOR	D:				
EBR Develop	er (Instructions are in	ı Italics)				
Is the infant be	eing breast-fed?					
		□ Yes □ No □ Unknow	wn at this	time		
PROCESSIN	G VARIABLES:					
<u>NAME</u>	DESCRIPTION	<u>V</u> A	<u>ALUES</u>	DEFINITION		
BFED	Infant breast-fed		Y N U	Yes No Unknown		

\mathbf{F}	D	ľ	Т	C	•
	v	1	1	v	

ELECTRONIC RECORD

Before the record is transmitted to the State

If the "Unknown at this time" box is checked assign the unknown code and the following message should appear.

Please obtain the records needed to complete this item. The item will appear on the final review screen.

The item cannot be blank.

PAPER RECORD

Records filed with the item "Is infant being breast-fed?" blank shall be queried. If no response to query, enter response of "unknown."

State Edits of data file prior to NCHS transmission

Must be a valid code (see below)

NCHS TRANSMISSION FILE

VARIABLES:

NAMES	LENGTH	TYPE	<u>VALUE</u>
BFED	1	Alpha character string	Y, N, U

EDI TRANSMISSION:

No standards set y

File Processing Item: State of birth

File Layout Location: 5-6

Description: Information about the State of occurrence of the birth.

Source of Information:

Preferred Source: System generated or State vital statistics staff

INSTRUCTIONS

FOR A PAPER RECORD:

State vital statistics staff

Use the 2- character alpha State code from Appendix B to be superseded by NCHS Part 8 (from FIPS table 5-2).

FOR AN ELECTRONIC RECORD:

Use the 2- character alpha State code from Appendix B to be superseded by NCHS Part 8 (from FIPS table 5-2).

EDR Developer

PROCESSING VARIABLES:

NAME DESCRIPTION VALUES DEFINITION

BSTATE State of birth Alpha Appendix B

NCHS TRANSMISSION FILE

<u>NAMES</u>	LENGTH	<u>TYPE</u>	<u>VALUES</u>
BSTATE	2	Alpha character string	Appendix B

File Processing Item: Certificate number (State file number)

File Layout Location: 7-12

Description: Information about the record used for quality control,

management, and evaluation.

Source of Information:

Preferred Source: System generated or State vital statistics staff

INSTRUCTIONS

FOR A PAPER RECORD:

State vital statistics staff

To be used for administrative and management purposes. Left fill with zeros if the State file number has fewer than 6 digits.

FOR AN ELECTRONIC RECORD:

EDR Developer

To be used for administrative and management purposes. Left fill with zeros if the State file number has fewer than 6 digits.

PROCESSING VARIABLES:

NAME DESCRIPTION VALUES DEFINITION

FILENO State file number 6-digit Left fill zero if not 6

digits

NCHS TRANSMISSION FILE

<u>NAMES</u>	<u>LENGTH</u>	<u>TYPE</u>	<u>VALUES</u>
FILENO	6	Numeric character string	000001-999999

File Processing Item: Void flag

File Layout Location: 13-13

Description: Information about the record used for quality control,

management, and evaluation.

Source of Information:

Preferred Source: System generated or State vital statistics staff

INSTRUCTIONS

FOR A PAPER RECORD:

State vital statistics staff

To help identify records that have been voided from the data file.

FOR AN ELECTRONIC RECORD:

EDR Developer

To help identify records that have been voided from the data file.

PROCESSING VARIABLES:

<u>NAME</u>	<u>DESCRIPTION</u>	<u>VALUES</u>	DEFINITION	
VOID (default)	Flag indic	ating void	0	Valid record
(uciauit)			1	Void record

NCHS TRANSMISSION FILE

<u>NAMES</u>	<u>LENGTH</u>	<u>TYPE</u>	<u>VALUES</u>
VOID	1	Numeric character string	0,1

File Processing Item: Auxiliary state file number

File Layout Location: 14-25

Description: Information about the record used for quality control,

management, and evaluation.

Source of Information:

Preferred Source: System generated or State vital statistics staff

INSTRUCTIONS

FOR A PAPER RECORD:

State vital statistics staff

To be used for administrative and management purposes. Left fill with zeros if the auxiliary State file number has fewer than 12 digits.

FOR AN ELECTRONIC RECORD:

EDR Developer

To be used for administrative and management purposes. Left fill with zeros if the auxiliary State file number has fewer than 12 digits.

PROCESSING VARIABLES:

NAME <u>DESCRIPTION</u> <u>VALUES</u> <u>DEFINITION</u>

AUXNO Auxiliary State file number 12-digit Left fill zero if not

12

digits, blank

NCHS TRANSMISSION FILE

VARIABLES:

NAMES LENGTH TYPE VALUES

blank

Appendix A

TABLE OF COUNTRY CODES

APPENDIX A

COUNTRY CODES

Codes marked with an "*" indicate historic political entities that no longer exist. Some of the historic political entities appear multiple times in the list: alphabetically and indented following the related active political entities. When active and historic political entities have the same name, dates have been provided to help select the most appropriate code. A few codes appear more than once in the list alphabetized under commonly use variants of the official name. Italics are used to indicate all codes appearing more than once, whether because of a name variation or because a historic code has been grouped with the current active country.

NOTE: Codes are not available for countries that ceased to exist prior to June 15, 1970. To code an event for a country for which a code is not available, use the code for the closest contemporary country (i.e. a code that is not italicized).

AFGHANISTAN	AF	BAHRAIN	BA
ALBANIA	AL	BANGLADESH	BG
ALGERIA	AG	BARBADOS	BB
AMERICAN SAMOA	AQ	BASSAS DA INDIA	BS
ANDORRA	AN	BELARUS [as of August 25, 1991]	ВО
ANGOLA	AO	UNION OF SOVIET SOCIALIST	UR *
ANGUILLA	AV	REPUBLICS [November 7, 1917 to December 26, 1991]	
ANTARCTICA	AY	BELGIUM	BE
ANTIGUA AND BARBUDA	AC	BELIZE	BH
ARGENTINA	AR	BENIN	BN
ARMENIA [as of September 21, 1991]	AM	DAHOMEY [BENIN]	<i>DM</i> *
UNION OF SOVIET SOCIALIST	UR *	BERMUDA	BD
REPUBLICS [November 7, 1917 to December 26, 1991]		BHUTAN	BT
ARUBA [as of January 1, 1986]	AA	BOLIVIA	BL
NETHERLANDS ANTILLES [prior to January 1, 1986]	NA *	BOSNIA AND HERZEGOVINA [as of April 5, 1992]	BK
ASHMORE AND CARTIER ISLANDS	AT	YUGOSLAVIA [December 1, 1918 to	<i>YO</i> *
AUSTRALIA	AS	April 11, 1992] BOTSWANA	BC
AUSTRIA	AU	BOUVET ISLAND	BV
AZERBAIJAN [as of August 30, 1991]	AJ	BRAZIL	BR
UNION OF SOVIET SOCIALIST	UR *	BRITISH INDIAN OCEAN TERRITORY	IO
REPUBLICS [November 7, 1917 to December 26, 1991]		BRITISH VIRGIN ISLANDS	VI
BAHAMAS, THE	BF	BRUNEI	BX
	l	DICHLI	DΛ

BULGARIA	BU	EAST BERLIN [prior to October 3, 1990]	EB *
BURKINA FASO	UV	EAST GERMANY (GERMAN DEMOCRATIC	GC *
BURMA	BM	REPUBLIC) [October 11, 1949 to October 3, 1990]	
BURUNDI	BY	EAST TIMOR [as of October 1999]	TT
CAMBODIA	СВ	TIMOR [prior to 1975]	PT *
CAMEROON	CM	ECUADOR	EC
CANADA	CA	EGYPT	EG
CANTON AND ENDERBERRY ISLANDS	EQ *	EL SALVADOR	ES
CAPE VERDE	CV	ENGLAND (UNITED KINGDOM)	UK
CAYMAN ISLANDS	CJ	EQUATORIAL GUINEA	EK
CENTRAL AFRICAN REPUBLIC	CT	ERITREA	ER
CENTRAL AND SOUTHERN LINE ISLANDS	CL *	ESTONIA [as of August 20, 1991]	EN
CHAD	CD	UNION OF SOVIET SOCIALIST	UR *
CHILE	CI	REPUBLICS [November 7, 1917 to December 26, 1991]	
CHINA	СН	ETHIOPIA	ET
CHRISTMAS ISLAND	KT	EUROPA ISLAND	EU
CLIPPERTON ISLAND	IP	FALKLAND ISLANDS	FK
COCOS (KEELING) ISLANDS	CK	FAROE ISLANDS	FO
COLOMBIA	CO	FIJI	FJ
COMOROS	CN	FINLAND	FI
CONGO (DEMOCRATIC REPUBLIC OF THE	CG	FRANCE	FR
CONGO) CONGO (REPUBLIC OF THE CONGO)	CF	FRENCH GUIANA	FG
COOK ISLANDS	CW	FRENCH POLYNESIA	FP
CORAL SEA ISLANDS	CR	FRENCH SOUTHERN AND ANTARCTIC LANDS	FS
COSTA RICA	CS	FRENCH TERRITORY OF THE AFFARS AND	FT *
COTE D' IVOIRE	IV	ISSAS GABON	GB
CROATIA [as of June 11, 1992]	HR	GAMBIA, THE	GA
YUGOSLAVIA [December 1, 1918 to	YO *	GAZA STRIP	GZ
<i>April 11, 1992]</i> CUBA	CU	GEORGIA [as of April 9, 1991]	GG
CYPRUS	CY	UNION OF SOVIET SOCIALIST	UR *
CZECH REPUBLIC [as of January 1, 1993]	EZ	REPUBLICS [November 7, 1917 to December 26, 1991]	
CZECHOSLOVAKIA [October 28, 1918 to	CZ *	GERMANY [as of October 3, 1990]	GM
January 1, 1993] DAHOMEY [BENIN]	DM *	EAST BERLIN [October 11, 1949 to	EB *
DENMARK	DA	October 3, 1990] EAST GERMANY (GERMAN	GC *
DJIBOUTI	DJ	DEMOCRATIC REPUBLIC) [October	
DOMINICA	DO	11, 1949 to October 3, 1990] WEST BERLIN [September 21, 1949 to	WB *
DOMINICAN REPUBLIC	DR	October 3, 1990]	

		Appe	endix A Page 3
WEST GERMANY (FEDERAL REPUBLIC OF GERMANY) [September	GE *	JAMAICA	JM
21, 1949 to October 3, 1990]		JAN MAYEN	JN
GHANA	GH	SVALBARD AND JAN MAYEN	JS *
GIBRALTAR	GI	JAPAN	JA
GILBERT ISLANDS	GS *	JARVIS ISLAND	DQ
GILBERT AND ELLICE ISLANDS	GN *	JERSEY	JE
GLORIOSO ISLANDS	GO	JOHNSTON ISLAND	JQ
GREAT BRITIAN (UNITED KINGDOM)	UK	JORDAN	JO
GREECE	GR	JUAN DE NOVA ISLAND	JU
GREENLAND	GL	KAZAKHSTAN [as of December 16, 1991]	KZ
GRENADA	GJ	UNION OF SOVIET SOCIALIST	UR *
GUADELOUPE	GP	REPUBLICS [November 7, 1917 to December 26, 1991]	
GUAM	GQ	KENYA	KE
GUATEMALA	GT	KIRIBATI	KR
GUERNSEY	GK	KUWAIT	KU
GUINEA	GV	KYRGYZSTAN [as of August 31, 1991]	KG
GUINEA-BISSAU	PU	UNION OF SOVIET SOCIALIST	UR *
GUYANA	GY	REPUBLICS [November 7, 1917 to December 26, 1991]	
HAITI	НА	LAOS	LA
HEARD ISLAND AND MCDONALD ISLANDS	НМ	LATVIA [August 21, 1991]	LG
HOLY SEE (VATICAN CITY)	VT	UNION OF SOVIET SOCIALIST	UR *
HONDURAS	НО	REPUBLICS [November 7, 1917 to December 26, 1991]	
HONG KONG	HK	LEBANON	LE
HOWLAND ISLAND	HQ	LESOTHO	LT
HUNGARY	HU	LIBERIA	LI
ICELAND	IC	LIBYA	LY
INDIA	IN	LIECHTENSTEIN	LS
SIKKIM [prior to 1975]	SK *	LITHUANIA [as of March 11, 1990]	LH
INDONESIA	ID	UNION OF SOVIET SOCIALIST	UR *
IRAN	IR	REPUBLICS [November 7, 1917 to December 26, 1991]	
IRAQ	IZ	LUXEMBOURG	LU
IRAQ-SAUDI ARABIA NEUTRAL ZONE	IY *	MACAU	MC
IRELAND	EI	MACEDONIA, F.Y.R.O. [as of September 17,	MK
ISLE OF MAN	IM	1991]	
ISRAEL	IS	YUGOSLAVIA [December 1, 1918 to April 11, 1992]	YO *
ISRAEL-JORDAN DEMILITARIZED ZONE	IW *	MADAGASCAR	MA
ISRAEL-SYRIA DEMILITARIZED ZONE	IU *	MALAWI	MI
ITALY	IT	MALAYSIA	MY
IVORY COAST, THE (COTE D' IVOIRE)	IV	MALDIVES	MV

SLOVAKIA [as of January 1, 1993]	LO	TRINIDAD AND TOBAGO	
CZECHOSLOVAKIA [October 28, 1918	CZ *	TROMELIN ISLAND	
to January 1, 1993] SLOVENIA [as of June 25, 1991]	SI	TRUST TERRITORY OF THE PACIFIC ISLANDS	
YUGOSLAVIA [December 1, 1918 to	YO *	TUNISIA	
April 11, 1992] SOLOMON ISLANDS	BP	TURKEY	
SOMALIA	SO	TURKMENISTAN [as of October 27, 1991]	
SOUTH AFRICA	SF	UNION OF SOVIET SOCIALIST REPUBLICS [November 7, 1917 to	
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	SX	December 26, 1991] TURKS AND CAICOS ISLANDS	
SOUTH KOREA	KS	TUVALU	
SOUTH VIETNAM [October 26, 1955 to July 2, 1976]	VS *	UGANDA	
SOUTHERN RHODESIA [prior to April 18, 1980]	RH *	UKRAINE [as of August 24, 1991]	
SOVIET UNION (UNION OF SOVIET SOCIALIST REPUBLICS) [November 7, 1917 to December 26, 1991]		UNION OF SOVIET SOCIALIST REPUBLICS [November 7, 1917 to December 26, 1991] UNITED ARAB EMIRATES [as of December 1, 1992]	
SPAIN	SP	1998] UNITED ARAB EMIRATES [prior to December	
SPANISH NORTH AFRICA	ME *	1, 1998]	
SPANISH SAHARA	SS *	UNITED STATES	
SPRATLY ISLANDS SRI LANKA	PG CE	UNITED STATES VID ON ISLANDS	
		UNITED STATES VIRGIN ISLANDS	
SUDAN SURINAME	SU	URUGUAY	
SVALBARD	NS SV	US MISCELLANEOUS PACIFIC ISLANDS	
SVALBARD AND JAN MAYEN	JS *	UZBEKISTAN [September 1, 1991] UNION OF SOVIET SOCIALIST	
SWAN ISLANDS	SQ *	REPUBLICS [November 7, 1917 to	
SWAZILAND	WZ	December 26, 1991] VANUATU	
SWEDEN	SW	VATICAN CITY (HOLY SEE)	
SWITZERLAND	SZ	VENEZUELA	
SYRIA	SY	VIETNAM [as of July 2, 1976]	
TAIWAN	TW	NORTH VIETNAM [October 26, 1955 t	
TAJIKISTAN [as of September 9, 1991]	TI	July 2, 1976]	
UNION OF SOVIET SOCIALIST REPUBLICS [November 7, 1917 to	UR *	SOUTH VIETNAM [October 26, 1955 to July 2, 1976] WAKE ISLAND	
December 26, 1991] TANZANIA	TZ	WALLIS AND FUTUNA	
THAILAND	TH	WEST BANK	
TIMOR [prior to 1975]	PT *	WEST BERLIN [September 21, 1949 to October	
TOGO	ТО	3, 1990] WEST GERMANY (FEDERAL REPUBLIC OF	
TOKELAU	TL	GERMANY) [September 21, 1949 to October 3	
TONGA	TN	1990] WESTERN SAHARA	

GE *

WI

YEMEN [as of May 22, 1990]	
YEMEN (ADEN) [prior to May 22, 1990]	
YEMEN (SANA'A) [prior to May 22, 1990]	
YUGOSLAVIA [as of April 11, 1992]	
YUGOSLAVIA [December 1, 1918 to April 11, 1992] ZAMBIA	
ZAWDIA	
ZIMBABWE	ZI
SOUTHERN RHODESIA [prior to April 18, 1980]	RH
NOT CLASSIFIABLE	ZZ

Appendix B

TABLE OF STATE, TERRITORY, AND CANADIAN PROVINCE CODES

APPENDIX B

STATE, TERRITORY, AND CANADIAN PROVINCE CODES

U.S. State and Territory coding information included in this appendix will be incorporated into the revised NCHS geographic coding manual (*Instruction Manual Part 8*). Release of the revised manual, in electronic format, is expected in August 2002.

<u>VALID</u> U.S. States	VALUES
Alabama	AL
Alaska	AK AK
Arizona	AZ
Arkansas	AR
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Florida	FL
Georgia	GA
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Michigan	MI
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
New York City	YC (note: not a standard FIPS code)
North Carolina	NC
North Dakota	ND
Ohlohoma	OH
Oklahoma	OK OB
Oregon	OR DA
Pennsylvania	PA

Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Vermont	VT
Virginia	VA
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

U.S. Territories

American Samoa	AS
Federated States of Micronesia	FM
Marshall Islands	MH
Northern Marianas	MP
Palau	PW
Puerto Rico	PR
Virgin Islands	VI
Guam	GU

Source: FIPS 5-2 [http://www.itl.nist.gov/fipspubs/]

Canadian Provinces (for use with residence item only)

	<i>3</i> /
Alberta	AB
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland	NF
Northwest Territories	NT
Nova Scotia	NS
Nunavut	NU
Ontario	ON
Prince Edward Island	PE
Quebec	QC
Saskatchewan	SK
Yukon Territory	YT

Source: Canadian Postal Codes

Unknown or blank ZZ

Appendix C

TABLE OF CITY AND COUNTY CODES

APPENDIX C

CITY & COUNTY CODES

City and County coding information included in this appendix will be incorporated into the revised NCHS geographic coding manual (Instruction Manual Part 8). Release of the revised manual, in electronic format, is expected in August 2002.

CITY CODES

<u>VALID</u> <u>VALUE</u>

See FIPS 55-3 name table

Not classifiable 99999

Source: FIPS 55-3 [http://www.itl.nist.gov/fipspubs/]

COUNTY

<u>VALID</u> <u>VALUE</u>

See FIPS 6-4 name table

Not classifiable 999

Source: FIPS 6-4 [http://www.itl.nist.gov/fipspubs/]

Appendix D

HISPANIC ORIGIN CODE LOOK-UP TABLE

(SEE SEPARATE FILE)

Appendix E

TABLE OF RACE CODES

(SEE SEPARATE FILE)