# Data Dictionary – Birth Defects

Provided by CDC's Environmental Public Health Tracking Program

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## PURPOSE AND USE OF THIS DOCUMENT

This document contains data field definitions and elements for Birth Defect datasets under the Tracking Program's Nationally Consistent Data and Measure (NCDM) standards.

## Environmental Public Health Tracking Data Set Summary, Birth Defects

| Characteristic | Description |
|---|---|
| Data Source | State Birth Defects Registries |
| Purpose | This data set will be used to calculate the nationally consistent data and measures (5 year rolling prevalence counts and rates) for birth defects for use on the national public portal. |
| Geographic Level | **The smallest geographic unit to be represented in this data set is the county.** |
| Restrictions | **This is a restricted access data set.**<br><br>Data will be displayed via the national public portal only when sufficient conditions have been met to protect data privacy. |

## DATA DICTIONARY

| Field Name | Field Description | Data Type | Code Scheme | Legal Values | Field Length | Optionality |
|---|---|---|---|---|---|---|
| BirthDefect | Birth defect category. | Integer | 21 = Anencephaly<br>22 = Cleft lip with cleft palate<br>23 = Cleft lip w/o cleft palate<br>24 = Cleft palate w/o cleft lip<br>25 = Gastroschisis<br>26 = Hypoplastic left heart syndrome<br>27 = Hypospadias<br>28 = Limb deficiencies combined<br>29 = Spina bifida (w/o anencephaly)<br>30 = Tetralogy of Fallot<br>31 = Transposition of the great arteries (vessels)<br>32 = Trisomy 21 | 21 – 32 | 2 | Required |
| StateFIPSCode<br>(For Header section only; Not a data element) | State FIPS code. | String | FIPS | A valid state FIPS code. | 2 | Not specified in schema |
| County<br>(Maternal residential county. Preferred data includes only births and defects among residents. Please specify in metadata if you are unable to exclude births and defects among nonresidents or births and defects to residents occurring outside the state). | County FIPS code over which birth defect cases and underlying birth populations are counted. | String | FIPS<br>U = Unknown | A valid county FIPS code for the state, or 'U'. | 5 | Required |
| StartDate | Date on which data aggregation begins. | Date | yyyymmdd | | 8 | Required |
| EndDate | Date on which data aggregation ends. | Date | yyyymmdd | | 8 | Required |

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| Field Name | Field Description | Data Type | Code Scheme | Legal Values | Field Length | Optionality |
|---|---|---|---|---|---|---|
| MaternalAgeGroup | Five-year maternal age intervals for which cases and underlying birth populations are counted. | Integer | 1 = <20 years<br>2 = 20-24 years<br>3 = 25-29<br>4 = 30-34<br>5 = 35-39<br>6 = ≥40<br>9 = Unknown | 1 – 6, 9 | 1 | Required |
| MaternalEthnicity | Maternal Hispanic ethnicity for which cases and underlying birth populations are counted. | Text | H = Hispanic<br>NH = non-Hispanic<br>U = Unknown | H, NH, U | 2 | Required |
| MaternalRace | Maternal race group for which cases and underlying birth populations are counted. | Text | W = White<br>B = Black<br>O = Other<br>U = Unknown<br>NS = Not submitted<br><br>Note: The code 'NS' is intended to allow the maternal race field to be selectively collapsed, for example, when maternal ethnicity and race are not collected separately. This code is not intended to indicate unknown race. | W, B, O, U, NS | 2 | Required |
| InfantSex | Infant sex for which cases and underlying birth populations are counted. | Text | M = Male<br>F = Female<br>U = Unknown | M, F, U | 1 | Required |
| TLB | Total number of live births. | Integer | -999 = Unknown<br><br>Note: The missing value code -999 is appropriate when the number of birth defects is known for a demographic classification, but the number of live births is unknown. For example, when you have birth defects but county is unknown. | 0 to nnnnnnn | 7 | Required |

| Field Name | Field Description | Data Type | Code Scheme | Legal Values | Field Length | Optionality |
|---|---|---|---|---|---|---|
| LBWBD | Number of cases with the specified birth defect that were a live birth. | Integer | -999 = Unknown<br><br>Note: The missing value code -999 is appropriate when a birth count is known for a demographic classification, but the birth defect count is unknown. For example, when you have live births but county is unknown. | 0 to nnnn<br><br>-999 | 4 | Required |
| LBFDTWD | Number of cases with the specified birth defect that were a live birth, fetal death or pregnancy termination. *Only include this variable if your state collects these birth outcomes.* | Integer | -999 = Unknown<br><br>Note: The missing value code -999 is appropriate when a birth count is known for a demographic classification, but the birth defect count is unknown. For example, when you have live births but county is unknown. | 0 to nnnn<br><br>-999 | 4 | Optional |

# APPENDIX A – Example Data Tables

This table represents all rows for birthdefect = 1, county = 01001, StartDate = 20000101, EndDate = 20001231, and maternalagegroup = 1. This table would be repeated for each additional maternal age group to represent all rows of data for the combination of birth defect = 1, county 01001, and year 2000.

| BIRTH DEFECT | COUNTY | START DATE | END DATE | MATERNAL AGE GROUP | MATERNAL ETHNICITY | MATERNAL RACE | INFANT SEX | TLB | LBWBD | LBFDTWD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01001 | 20000101 | 20001231 | 1 | H | W | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | W | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | B | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | B | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | O | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | O | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | U | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | U | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | W | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | W | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | B | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | B | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | O | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | O | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | U | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | NH | U | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | W | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | W | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | B | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | B | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | O | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | O | F | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | U | M | | | |
| 1 | 01001 | 20000101 | 20001231 | 1 | U | U | F | | | |

This table illustrates which rows you should include in your data based on the number of live births or number of cases for that row. In this example, you are reporting 'LBWBD' and not using the optional variable 'LBFDTWD'. Please submit all rows of data for the combination of birth defect = 1, county 01001, and year 2000 where TLB > 0 even if LBWBD or LBFDTWD = 0 (meaning that row or combination had live births but did not have any defects). Note that LBFDTWD is optional. In this example, maternal ethnicity and race are both specified.

| BIRTH DEFECT | COUNTY | START DATE | END DATE | MATERNAL AGE GROUP | MATERNAL ETHNICITY | MATERNAL RACE | INFANT SEX | TLB | LBWBD | LBFDTWD | INCLUDE in DATA SUBMISSION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01001 | 20000101 | 20001231 | 1 | H | W | M | > 0 | > 0 | (not used) | YES |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | W | F | > 0 | 0 | (not used) | YES |
| 1 | 01001 | 20000101 | 20001231 | 1 | H | B | M | 0 | NA | (not used) | NO |
| 1 | U | 20000101 | 20001231 | 1 | H | B | F | -999 | > 0 | (not used) | YES |
| 1 | U | 20000101 | 20001231 | 1 | H | W | M | > 0 | -999 | (not used) | YES |

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