

Data Dictionary – Birth Defects

Provided by CDC’s Environmental Public Health Tracking Program

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. 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 22 = Cleft lip with cleft palate 23 = Cleft lip w/o cleft palate 24 = Cleft palate w/o cleft lip 25 = Gastroschisis 26 = Hypoplastic left heart syndrome 27 = Hypospadias 28 = Limb deficiencies combined 29 = Spina bifida (w/o anencephaly) 30 = Tetralogy of Fallot 31 = Transposition of the great arteries (vessels) 32 = Trisomy 21	21 – 32	2	Required
StateFIPSCode (For Header section only; Not a data element)	State FIPS code.	String	FIPS	A valid state FIPS code.	2	Not specified in schema
County (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 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

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 2 = 20-24 years 3 = 25-29 4 = 30-34 5 = 35-39 6 = ≥40 9 = Unknown	1 – 6, 9	1	Required
MaternalEthnicity	Maternal Hispanic ethnicity for which cases and underlying birth populations are counted.	Text	H = Hispanic NH = non-Hispanic U = Unknown	H, NH, U	2	Required
MaternalRace	Maternal race group for which cases and underlying birth populations are counted.	Text	W = White B = Black O = Other U = Unknown NS = Not submitted 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 F = Female U = Unknown	M, F, U	1	Required
TLB	Total number of live births.	Integer	-999 = Unknown 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 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 -999	4	Required
LBFDTWD	Number of cases with the specified birth defect that were a live birth, fetal death or pregnancy termination. <i>Only include this variable if your state collects these birth outcomes.</i>	Integer	-999 = Unknown 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 -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	LBFTWD
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 'LBFDTWB'. 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 LBFDTWB = 0 (meaning that row or combination had live births but did not have any defects). Note that LBFDTWB 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	LBFDTWB	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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