

# Data Dictionary- State Biomonitoring Data

Provided by CDC's Environmental Public Health Tracking Program

## PURPOSE AND USE OF THIS DOCUMENT

This document contains data field definitions and elements to pilot states submitting biomonitoring data to the Tracking Network.

## Environmental Public Health Tracking Data Set Summary

Characteristic	Description
Data Source	State and Local Data Systems
Purpose	This dataset will be used to display measures related to biomonitoring data at the state and sub-state levels on the national public portal.
Geographic Level	The smallest geographic unit to be represented in this data set is the <u>city</u> .
Restrictions	<p><b>This is a restricted access data set.</b></p> <p>Data submitted through this pilot will not be formally presented on the public portal but will be used to pilot/test how these data could be displayed when data is finally submitted through a regular data call for the Tracking Network.</p>

CDC estimates the average public reporting burden for this collection of information as 40 hours per response, including the time for reviewing instructions, searching existing data/information sources, gathering and maintaining the data/information needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS H21-8 Atlanta, Georgia 30333; ATTN: PRA (0920-1175).

## DATA DICTIONARY

Field Name	Field Description	Date Type	Code Scheme	Allowed Values	Field Length
Study Name	Name of the study that produced these data	Text			30
Analyte	Analyte measured in this dataset	Text	see table below		30
Analyte group	Group analyte belongs to	Text	see table below		30
Demographic categories	Demographic categories of participants	Text	<p><b>Age categories:</b>            1 = &lt;3 years            2= 3-5 years            3= 6-11 years            4= 12-19 years            5 = ≥20            6 = 20-59 years            7 = 60+ years            8 = Other</p> <p><b>Race/ethnicity categories:</b>            NHW= NonHispanic White            NHB = NonHispanic Black            NHA = NonHispanic Asians            MA= Mexican Americans            AH = All Hispanic            ALL = total population</p> <p><b>Gender categories:</b>            M = Male            F = Female</p>	1-7; NHW, NHB, NHA, MA, AH, All; M, F	3
OtherAgeCategory	If you responded '8' for demographic categories, provide the age categories for 'other'	text	nn-nn; <nn; >nn	0-99	6
Estimate	Concentration level value	number	nnn.nnn; -999 = <LOD	0-99999; -999	5

Field Name	Field Description	Date Type	Code Scheme	Allowed Values	Field Length
Lower95	Lower bound of 95% confidence interval of estimate	number	nnn.nnn; -999 = <LOD	0-9999; -999	5
Upper95	Upper bound of 95% confidence interval of estimate	number	nnn.nnn; -999 = <LOD	0-9999; -999	5
Type of Estimate	Type of estimate	Integer	1 = 50 <sup>th</sup> percentile 2 = 95 <sup>th</sup> percentile 3 = Geometric mean	1 - 3	1
Units	Concentration units	Integer	1 = ng/mL 2 = µg/L  3 = pg/mL 4 = µg/dL 5 = µg/g	1 - 5	1
Sample	Type of sample	Integer	1 = Urine 2 = Blood 3 = Serum	1 - 3	1
Creatinine corrected	Creatinine correction for urine measurements	Integer	1 = Yes 2 = No 3 = Not applicable	1 - 3	1
Lipid adjusted	Lipid adjusted measurements	Integer	1 = Yes 2 = No 3 = Not applicable	1 - 3	1
BegYear	Beginning/First year when samples were collected	integer			4
EndYear	Last year when samples were collected	Integer			4
Geographic level	Geographic representativeness of the data	Text	State, County, City,		11
State FIPS	State FIPS Code	Text			2

## Code values for analytes and Analyte types

Analytes	Analyte Types
PFOA, PFOS, PFHxS, PFBA, PFBS, PFHxA, PFPeA	PFAS
antimony, barium, beryllium, cadmium, cesium,	Metals (in blood)

Analytes	Analyte Types
cobalt, lead, molybdenum, platinum, thallium, tungsten, and uranium	
trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylic acid (trans-DCCA), 3-phenoxybenzoic acid (3-PBA), 4-fluoro-3-phenoxybenzoic acid (4F-3PBA), and cis-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylic acid (DBCA)	Pyrethroid pesticide metabolites
3,5,6-trichloro-2-pyridinol (TCPY), which is a metabolite of the pesticide chlorpyrifos	Organophosphate metabolites
Total arsenic, arsenic (V) acid, arsenous (III) acid, arsenobetaine, arsenocholine, monomethylarsonic acid, dimethylarsenic acid	Metals and metalloids (in urine)

Example Table entries using the data dictionary above

Analyte	Analyte group	Demographic categories	Estimate	Lower95	Upper95	Type of estimate	Units	Sample	Creatinine corrected	Lipid adjusted	BegYear	EndYear	Geographic level	State FIPS
PFOS	PFAS	All	1.513	1.211	1.721	1	2	2	3	2	2011	2012	State	12
PFOS	PFAS	All	2.141	2.011	2.333	2	2	2	3	2	2011	2012	State	12
PFOS	PFAS	All	0.503	0.401	0.612	3	2	2	3	2	2011	2012	state	12
PFOS	PFAS	4	1.106	1.001	1.199	1	2	2	3	2	2011	2012	state	12
PFOS	PFAS	4	1.68	1.444	1.821	2	2	2	3	2	2011	2012	state	12
PFOS	PFAS	4	0.7	0.611	0.832	3	2	2	3	2	2011	2012	state	12
PFOS	PFAS	NHW	1.331	1.101	1.598	1	2	2	3	2	2011	2012	state	12
PFOS	PFAS	NHW	1.71	1.443	1.921	2	2	2	3	2	2011	2012	state	12
PFOS	PFAS	NHW	0.9	0.783	1.213	3	2	2	3	2	2011	2012	state	12

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**Proposed Indicators and measures:**

Indicator: State biomonitoring data

Measures:

- Perfluoroalkyl and polyfluoroalkyl substances: surfactants in blood
- Metals in blood
- Pesticide metabolites: Organophosphorous metabolites in urine
- Pesticide metabolites: Organophosphorous metabolites in urine (creatinine corrected)
- Pesticide metabolites: Pyrethroid metabolites in urine
- Pesticide metabolites: Pyrethroid metabolites in urine (creatinine corrected)

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