| Data Dictionary- State Biomonitoring Data  Form Approved  OMB No. 0920-1175  Exp. Date XX/XX/202X | |
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| 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 to pilot states submitting biomonitoring data to the Tracking Network.

# Environmental Public Health Tracking Data Set Summary

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| 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 **city**. |
| Restrictions | **This is a restricted access data set.**  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. |

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 | **Age categories:**  1 = <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  **Race/ethnicity categories:**  NHW= NonHispanic White  NHB = NonHispanic Black  NHA = NonHispanic Asians  MA= Mexican Americans  AH = All Hispanic  ALL = total population  **Gender categories:**  M = Male  F = Female | 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 | 0-9999; -999 | 5 |
| 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 = 50th percentile  2 = 95th 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

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| --- | --- |
| Analytes | Analyte Types |
| PFOA, PFOS, PFHxS, PFBA, PFBS, PFHxA, PFPeA | PFAS |
| antimony, barium, beryllium, cadmium, cesium, cobalt, lead, molybdenum, platinum, thallium, tungsten, and uranium | Metals (in blood) |
| 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) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |

**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)

Icon

Description automatically generated with medium confidence CDC’s Environmental Public Health Tracking PRogram

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