

**Environmental Public Health Tracking Network Data Dictionaries for
Data Submitted by State and Local Recipients**

Version 0.3. March 2021

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Introduction

The National Environmental Public Health Tracking Network (Tracking Network) is a system of integrated health, exposure, and hazard information and data from a variety of national, state, and city sources. The Centers for Disease Control and Prevention's (CDC) National Environmental Public Health Tracking Program (Tracking Program) provides funds to 26 state and local health departments (recipients) to develop local tracking networks. These networks feed data into the National Tracking Network.

Data on the Tracking Network can be used by public health professionals to quickly answer community concerns, provide data to decision makers for public policies, and identify neighborhoods that need help most urgently.

The purpose of this document is to provide descriptions of the sources, variables, and formats of the data submitted by recipients to The Tracking Program. The Tracking Program uses these data for the purpose of developing the indicators and measures presented on the CDC National Tracking Public Portal (<http://ephtracking.cdc.gov>). When a user is querying data on the Tracking Public Portal, this document will serve as an additional resource that will help them understand the underlying data used to develop the measures presented on the portal.

The Tracking Program receives data on 6 topic areas from recipients during two data calls during the year: one in the Spring, and another in Fall. Data on community drinking water, radon testing and childhood blood lead testing are typically submitted during the Spring Data Call, and data on emergency department visits, hospitalizations, and birth defects are typically submitted during the Fall Data Call. These data are aggregated, and used to develop nationally consistent indicators and measures published on the Tracking Public Portal

One of the documents that Tracking recipients use to determine the data to submit to the Tracking Program is the data dictionary. The data dictionary provides descriptive information on the source, purpose, geographic level, and restrictions of the data along with other information such as the data variable name, its description, the type of data it holds, a code for populating the variable, legal values, and variable length.

Data dictionaries describing data from the following topic areas are included in this document:

- Birth Defects
- Childhood Blood Lead Testing
- Emergency Department data: Asthma, Heat stress illness, and Carbon monoxide poisoning

- Hospitalizations: Asthma, Myocardial infarction, Heat stress illness, and Carbon monoxide poisoning, and
- Community drinking water
- Radon Testing

Birth Defects

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE 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.

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

BIRTH DEFECTS

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

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

BIRTH DEFECTS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
StateFIPSCode <i>(For Header section only; Not a data element)</i>	State FIPS code.	String	FIPS	A valid state FIPS code.	2	Not specified in schema
County <i>(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).</i>	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

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

BIRTH DEFECTS

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

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

BIRTH DEFECTS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
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

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

BIRTH DEFECTS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
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
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

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

BIRTH DEFECTS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
LBFTWD	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 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

Childhood Blood Lead Testing

Blood lead levels by birth cohort

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

CHILDHOOD BLOOD LEAD POISONING

Blood Lead Levels by Birth Cohort, by County

Characteristic	Description
Data Sources	CDC Lead Program; Tracking recipient state Lead Programs
Purpose	<p>This dataset will be used to develop indicators (with appropriate procedures to protect confidentiality) for the national public portal. This dataset can be linked to US Census data and other data sources to identify geographic areas where children are at risk for lead poisoning.</p> <p>This dataset allows public health professionals and researchers to evaluate screening practices and monitor progress towards eliminating lead poisoning among children.</p> <p>This dataset is used to create the following indicators:</p> <ul style="list-style-type: none">• Blood Lead Levels by Birth Cohort
Geographic Level	The smallest geographic unit to be represented in this data set is the county.
Restrictions	<p>This is a restricted access data set.</p> <p>Data will be displayed via the national public portal only when sufficient conditions have been met to protect data privacy.</p>

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

BLOOD LEAD LEVELS BY BIRTH COHORT, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
STATE	State FIPS code	String	nn	FIPS code	2	Required
CountyFIPS	County FIPS code	String	nnnnn U = unknown	FIPS code, U	5	Required
BCYear	Year in which birth cohort was born	Integer	nnnn	0-9999	4	Required

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

BLOOD LEAD LEVELS BY BIRTH COHORT, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
BLLCategory	Categorization of blood lead test results in units of $\mu\text{g}/\text{dL}$	Integer	1 = <5 2 = 5- <10 3 = 10-<15 4 = 15-<20 5 = 20-<25 6 = 25-<45 7 = 45-<70 8 = ≥ 70 9 = No testing in County 10 = County not in system	1-10	2	Required

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

BLOOD LEAD LEVELS BY BIRTH COHORT, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
NumChildrenTested	Number of children tested	Integer		0-nnnnn	5	Required
Confirmed	Classification of test result as either confirmed or unconfirmed	Integer	0=no, unconfirmed 1=yes, confirmed	0-1	1	Required
Specimen	Classification of test result by type of specimen used	Integer	1=venous 2=capillary 3=unknown specimen 4 = specimen not submitted/count aggregated across specimens	1-4	1	Required

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

CHILDHOOD BLOOD LEAD POISONING

Summary for Annual Blood Lead Levels, by County

Characteristic	Description
Data Sources	CDC Lead Program; Tracking recipient state Lead Programs
Purpose	<p>This dataset will be used to develop indicators (with appropriate procedures to protect confidentiality) for the national public portal. This dataset can be linked to US Census data and other data sources to identify geographic areas where children are at risk for lead poisoning.</p> <p>This dataset allows public health professionals and researchers to evaluate screening practices and monitor progress towards eliminating lead poisoning among children.</p> <p>This dataset is used to create the following indicators:</p> <ul style="list-style-type: none">• Annual Blood Lead Levels
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.

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

ANNUAL BLOOD LEAD LEVELS, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
STATE	State FIPS code	String	nn	FIPS code	2	Required
CountyFIPS	County FIPS code	String	nnnnn U = unknown	FIPS code, U	5	Required
YearTested	Year in which tests occurred	Integer	nnnn	0-9999	4	Required

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

ANNUAL BLOOD LEAD LEVELS, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
AgeGroup	Age in months of child at time of test	Integer	1 = 0-<12 2 = 12-<24 3 = 24-<36 4 = 36-<48 5 = 48-<60 6 = 60-<72 9 = unknown age 10=No Testing in county 11=County not in system	1-6, 9 – 11	2	Required

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

ANNUAL BLOOD LEAD LEVELS, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
BLLCategory	Categorization of blood lead test results in units of $\mu\text{g}/\text{dL}$	Integer	1 = <5 2 = 5 - <10 3 = 10-<15 4 = 15-<20 5 = 20-<25 6 = 25-<45 7 = 45-<70 8 = ≥ 70 9=No testing in county 10=County not in system	1 - 10	2	Required

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

CHILDHOOD LEAD POISONING

ANNUAL BLOOD LEAD LEVELS, BY COUNTY

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Optionality
Confirmed	Classification of test result as either confirmed or unconfirmed	Integer	0=no, unconfirmed 1=yes, confirmed	0-1	1	Required
NumChildrenTested	Number of children tested	Integer		0-nnnnn	5	Required
Specimen	Classification of test result by type of specimen used	Integer	1=venous 2=capillary 3=unknown specimen 4 = specimen not submitted/count aggregated across specimens	1-4	1	Required

Emergency Department Visits Data

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

EMERGENCY DEPARTMENT (ED) VISITS DATA

Characteristic	Description
Data Sources	State and Local Data Systems
Purpose	This data set will be used to calculate incidence measures for emergency department (ED) visits related to asthma, unintentional CO poisoning, heat stress illness, and chronic obstructive pulmonary disease as described in the Part 1 package, 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.

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

EMERGENCY DEPARTMENT (ED) VISITS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
AGEGROUP	Five-year age group of individuals hospitalized for the condition indicated by HEALTHOUTCOMEID	Integer	1= 0–4 years 2= 5–9 years 3= 10–14 years 4= 15–19 years 5= 20–24 years 6= 25–29 years 7= 30–34 years 8= 35–39 years 9= 40–44 years 10= 45–49 years 11= 50–54 years 12= 55–59 years 13= 60–64 years 14= 65–69 years 15= 70–74 years 16= 75–79 years 17= 80–84 years 18= 85+ years 19= Unknown	1–19	2

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

EMERGENCY DEPARTMENT (ED) VISITS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
COUNTY	County of residence	String	FIPS U=Unknown	00000– 99999 U	5
EDVISITMONTH	Month of ED visit	String	mm	01–12	2
EDVISITYEAR	Year of ED visit	Integer	yyyy	20XX	4
ETHNICITY (optionally reported)	Ethnicity of individuals	Text	H=Hispanic NH=Non-Hispanic U=Unknown	H, NH, U	2
EXCLUSIONMETHOD	Variable used to identify & exclude transfers from dataset	Integer	1= Unique ID 2= Source of Admission 3= Disposition 9= Not applicable	1-3, 9	1
HEALTHOUTCOMEID	Health outcome (Asthma, Carbon monoxide poisoning, Heat stress illness or chronic obstructive pulmonary disease)	Integer	1=Asthma 3=Carbon monoxide poisoning 4=Heat stress illness 5= Chronic obstructive pulmonary disease	1, 3, 4, 5	1

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

EMERGENCY DEPARTMENT (ED) VISITS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
INCIDENTCOUNTFIRE (For CO ED Visits ONLY)	Number of unintentional fire-related CO poisoning ED visits	Integer	nnnnnn If -999= Count is recorded in INCIDENTCOUNTUNKNO WN	0 to 999999, -999	6
INCIDENTCOUNTNONFIRE (For CO ED Visits ONLY)	Number of unintentional, non-fire related CO poisoning ED visits	Integer	nnnnnn If -999= Count is recorded in INCIDENTCOUNTUNKNO WN	0 to 999999, -999	6
INCIDENTCOUNTUNKNO WN (For CO ED Visits ONLY)	Number of CO poisoning ED visits where the cause was undetermined	Integer	nnnnnn	0 to 999999	6
MONTHLYVISITS	Number of monthly hospitalization events	Integer	nnnnn	0000-99999	5
OUTOFSTATEEXCLUSION	Exclusion of residents admitted to hospitals located in another state	Integer	1= Yes 2= No	1, 2	1
RACE (OPTIONAL)	Race group of individuals	Text	W=White B=Black O=Other U=Unknown	W, B, O, U	1

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

EMERGENCY DEPARTMENT (ED) VISITS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
SEX	Sex of individuals	Text	M=Male F=Female U=Unknown	M, F, U	1
STATE <i>(For Header section only; Not a data element)</i>	Patient's state of residence	String	FIPS		2

Hospitalizations Data

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

HOSPITALIZATIONS

Characteristic	Description
Data Source	State and Local Data Systems
Purpose	This data set will be used to calculate measures related to asthma, acute myocardial infarction, unintentional carbon monoxide poisoning, heat stress illness and chronic obstructive pulmonary disease hospitalizations 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.

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

HOSPITALIZATIONS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
ADMISSIONMONTH	Month of hospital admission	String	mm	01–12	2

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

HOSPITALIZATIONS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
AGEGROUP	Five-year age group of individuals hospitalized for the condition indicated by HEALTHOUTCOMEID	Integer	1= 0–4 years 2= 5–9 years 3= 10–14 years 4= 15–19 years 5= 20–24 years 6= 25–29 years 7= 30–34 years 8= 35–39 years 9= 40–44 years 10= 45–49 years 11= 50–54 years 12= 55–59 years 13= 60–64 years 14= 65–69 years 15= 70–74 years 16= 75–79 years 17= 80–84 years 18= 85+ years 19= Unknown	1–19	2

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

HOSPITALIZATIONS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
COUNTY	County of residence	String	FIPS U= Unknown	A valid county FIPS code for the state or 'U'	5
ETHNICITY (optionally reported)	Ethnicity of individuals	Text	H= Hispanic NH= Non-Hispanic U= Unknown	H, NH, U	2
HEALTHOUTCOMEID	Health outcome (asthma, acute myocardial infarction, Carbon monoxide poisoning, Heat stress illness or Chronic Obstructive Pulmonary Disease)	Integer	1= Asthma 2= Acute myocardial infarction 3= Carbon monoxide poisoning 4= Heat stress illness 5= Chronic Obstructive Pulmonary Disease	1, 2, 3, 4, 5	1
INCIDENTCOUNTFIRE (For CO Hospitalizations ONLY)	Number of unintentional fire-related CO poisoning hospitalizations	Integer	nnnnnn If -999= Count is recorded in INCIDENTCOUNTUNKNOWN	0 to 999999, -999	6

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

HOSPITALIZATIONS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
INCIDENTCOUNTNONFIRE (For CO Hospitalizations ONLY)	Number of unintentional, non-fire related CO poisoning hospitalizations	Integer	nnnnnn If -999= Count is recorded in INCIDENTCOUNTUNKNOWN	0 to 999999, -999	6
INCIDENTCOUNTUNKNOWN (For CO Hospitalizations ONLY)	Number of CO poisoning hospitalizations where the cause was undetermined	Integer	nnnnnn	0 to 999999	6
MONTHLYHOSP	Number of monthly hospitalization events	Integer	nnnn	0000-9999	4
OUTOFSTATEEXCLUSION	Exclusion of residents admitted to hospitals located in another state	Integer	1= Yes 2= No	1, 2	1
RACE (optionally reported)	Race of individuals	Text	W= White B= Black O= Other U= Unknown	W, B, O, U	1

ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

HOSPITALIZATIONS

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length
SEX	Sex of individuals admitted	Text	M= Male F= Female U= Unknown	M, F, U	1
STATE <i>(For Header section only; Not a data element)</i>	State of residence	String	FIPS		2
Year admitted	Year of hospital admission	Integer	yyyy	20XX	4

Community Drinking Water

Environmental Public Health Tracking

AGGREGATE DATA SET SUMMARY

Drinking Water Quality

Characteristic	Description
Data Sources	Safe Drinking Water Act/State Drinking Water Information System (SDWA/SDWIS) or SDWIS-like Data System
Purpose	<p>This data set contains the information needed to calculate Environmental Public Health Tracking measures of contaminants in public water supply for arsenic, disinfection byproducts, nitrates, atrazine, di(2-ethylhexyl) phthalate (DEHP), radium, tetrachloroethene (tetrachloroethylene) (PCE), trichloroethene (trichloroethylene) (TCE), and uranium. Data are derived from state Safe Drinking Water Act databases. The data set consists of two tables:</p> <ol style="list-style-type: none"> 1. PWS Inventory. This file is required and contains descriptive and locational information about each public water system (PWS) with which water quality data is provided. This dataset should only include Community Water Systems (CWS) as defined and regulated by the Safe Drinking Water Act. It does not include Non-Transient Non-Community (NTNC) and Transient Non-Community water systems (TNC). There is one record for every year that a CWS was active, delivering drinking water to customers, and in which water quality data is complete. CWS that were once active and are currently inactive should be included if State's data support this scenario. 2. Drinking Water Quality Sampling Results. This file is required and contains one record for each community water system (CWS) for the mean and maximum concentrations per year of each of arsenic, disinfection byproducts, nitrates, atrazine, di(2-ethylhexyl) phthalate (DEHP), radium, tetrachloroethene (tetrachloroethylene) (PCE), trichloroethene (trichloroethylene) (TCE), and uranium; and the mean concentrations per quarter of disinfection byproducts, nitrates and atrazine. This dataset also accommodates sample-level data and includes one record for each compliance sample for the same analytes used in calculating summary concentrations. Some fields (e.g. NumSamplingStations) are only included for summary-level data observations and belong to the schema group "SummaryLevelGroup". Other fields (e.g. DetectionLimit) are only included for sample-level data observations and belong to the schema group "SampleLevelGroup". At this time, sample-level observations are not required as part of the Community Drinking Water data submissions; associated optional fields for sample-level data are indicated as such in the Optionality column.
Restrictions	This is not a restricted access data set.

**NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING
DATA DICTIONARY FOR AGGREGATE DATA
COMMUNITY DRINKING WATER
PUBLIC WATER SYSTEM INVENTORY**

Field Name	Field Description	Data Type	Code Scheme and Legal values	Field Length	Optionality
StateFIPSCode	State FIPS code	String	FIPS State Code	2	Required
PWSIDNumber	PWS identifier	String	nine character value consisting of the 2 letter state abbreviation followed by 7 numbers	9	Required
YearAssociatedTo	Year that these data are associated with regards to sampling results	Text	YYYY. 1999 through latest complete year (e.g. 2011)	4	Required
YearPulled	Year that these data were pulled from state records	Text	YYYY. 1999 through latest year.	4	Required
PWSName	Name of PWS	Integer	Any; “U” = Unknown; “NS” = Not submitted	40	Required
PrincipalCountyServedFIPS	Principal county FIPS served by the CWS	String	FIPS County Code; “U” = Unknown; “NS” = Not submitted	5	Required
PrincipalCityFeatureID	Principal city, town or village Feature ID served by the CWS	Integer	9999999999;“-999” for Missing; “-888” for Not Submitted	10	Required

TotalConnections	Number of residential service connections	Integer	1-9999999”	7	Required
SystemPopulation	Permanent population uniquely served by the CWS	Integer	10-99999999 ”	8	Required
PrimarySourceCode	Type of source	String	GU = ground water under direct influence of surface water, GUP = purchased ground water under direct influence of surface water, GW = ground water, GWP = purchased ground water, SW = surface water, SWP = purchased surface water; “U” = Unknown; “NS” = Not submitted	3	Required
Latitude	Latitude in NAD83 decimal degrees describing approximate center of retail service area of water system	Integer	00.0000000 to 90.0000000;”-99.99” for Missing; “-88.88” for Not Submitted.	10	Required
Longitude	Longitude in NAD83 decimal degrees describing approximate center of retail service area of water system	Integer	-18.0000000 to 180.0000000;”-999” for Missing; “-888” for Not Submitted.	11	Required
LocationDerivationCode	Code describing how approximate latitude/longitude location was derived	String	SA = Service area polygon centroid; MFL = Mean of 1 or more facility locations that are expected to be proximate to service area extent; PCS = GNIS coordinates for Principal City Served; GSH = The geocoded address of water system headquarters; PNS - GNIS coordinates for Principal County Served; O= Other (e.g. zip code, etc.) “-999” = Missing; “-888” = Not Submitted;	3	Required

Drinking water quality sampling results

**NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING
DATA DICTIONARY FOR AGGREGATE DATA
COMMUNITY DRINKING WATER
DRINKING WATER SAMPLING RESULTS**

Field Name	Field Description	Data Type	Code Scheme and Legal values	Field Length	Optionality
StateFIPSCode	State FIPS code	String	FIPS State Code	2	Required
PWSIDNumber	PWS identifier	String	Nine character value consisting of the 2 letter state abbreviation followed by 7 numbers	9	Required
Year	Year	Text	YYYY; 1999 through latest complete year (e.g. 2011)	4	Required
AnalyteCode	USEPA Analyte code for required constituents (arsenic, nitrate, TTHM, HAA5, atrazine, PCE, TCE, DEHP, radium, and uranium)	Integers	1005=Arsenic; 2050=Atrazine; 2456=HAA5; 2950=TTHM; 2039=DEHP; 1040=Nitrate; 2987=PCE; 2984=TCE; 4010=Combined Radium 226 & 228; 4006=Uranium	4	Required
ConcentrationUnits	The analyte-specific units of summary-level measures and individual sample values as reported in the Concentration and DetectionLimit fields. Each analyte has a standard unit for this dataset.	String	“ug/L” allowed only for (Arsenic, TTHM, HAA5, Atrazine, DEHP, PCE, TCE, uranium); “mg/L” allowed only for (Nitrate as nitrogen); “pCi/L” allowed only for (Radium)	6	Required

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

COMMUNITY DRINKING WATER

DRINKING WATER SAMPLING RESULTS

Field Name	Field Description	Data Type	Code Scheme and Legal values	Field Length	Optionality
Concentration	Reported summary-level concentration or reported concentration of sample	Integer	>0 for summary-level measure or sample-level concentration; -888, if sample-level data and NonDetectFlag=1	6.4	Required
DateSampled	Date of sample (sample-level data) or Date last sampled (summary-level data)	Date	A valid date from 1/1/1999 through December 31 st of the latest complete year (e.g. 2011-12-31).	YYYY-MM-DD	Required
SamplePointID	Sampling station identifier for sample-level records only.	String	Character ID for sampling station; "-999" for missing; "-888" for Not Submitted	20	Optional
DetectionLimit	Sample detection limit	Integer	>0, if NonDetectFlag=1; -888, if NonDetectFlag=0.	3.6	Optional
NonDetectFlag	Flag to indicate whether sample resulted in a detection or not	Integer	1=Sample was a non-detect; 0=Sample was a detection	1	Optional

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

COMMUNITY DRINKING WATER

DRINKING WATER SAMPLING RESULTS

Field Name	Field Description	Data Type	Code Scheme and Legal values	Field Length	Optionality
AggregationType	The type of summary operation performed (i.e. mean or max) for summary-level data.	String	“X” = Mean (for Annual and Quarterly data); “MX” = Maximum (For Annual Data ONLY; DO NOT SUBMIT FOR QUARTERLY DATA)	3	Required
NumSamplingLocations	Number of compliance sampling locations available from which summary-level records were derived.	Required	1-9999; “-888” for Not Submitted	4	Required
SummaryTimePeriod	Year or Quarter for summary-level data	String	YYYY for annual summarized values; YYYY-Q for quarterly summarized values Allowed Only for AnalyteCodes 2050, 2456, 2950 and 1040	10	Required
NumSamples	The number of samples that were used in calculating the mean/max for a given analyte during a quarter or year.	Integer	1-XXXX	4	Required
NumNonDetects	The number of samples that were non-detections for summary-level data.	Integer	0-XXXX (XXXX must be no greater than NumSamples)	4	Required

Radon Testing

ENVIRONMENTAL PUBLIC HEALTH TRACKING

AGGREGATE DATA SET SUMMARY

STATE RADON DATA

Characteristic	Description
Data Source	Private radon testing labs and public health labs
Purpose	This data set contributes to the Environmental Public Health Tracking Network. The Content Workgroup Radon Team identified nationally consistent data sources and developed a nationally consistent indicator and measures of radon in air.
Geographic Level	The smallest geographic unit to be represented in this data set is the county or census tract.
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.

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

RADON TESTING

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Required
Header State FIPS Code	State FIPS Code	String	XX	01 - 50	2	Required
RowIdentifier	An identifier for each row of data	Integer	1 – nnnn The maximum RowIdentifier should be equal to the number of test results submitted for that year.	Consecutive numerical identifier for each record in the dataset.	N/A	Required
TestYear	The year the data are assigned to	Integer	YYYY	Ex: 2018	4	Required
DataIdentifier	A unique identifier for each batch of Radon Test Results.	String	XXXXXXXXXX	Nine-character value consisting of numbers or letters identifying the batch	9	Optional
AddressIdentifier	This is a unique ID that can be linked to the address but maintain confidentiality; this number represents an address level record but it is not the address.	String	One hundred character value (at a maximum) consisting of numbers or letters that link to a specific address	nnnnnn.... String of integers and characters	100	Required
TestResultIdentifier	A unique identifier for each lab result, there may be multiple tests per address, this number will be unique for each test	String	XXXXXX	Any number character value (up to 20) that identifies a unique test result	20	Required
TestStartDate	The date the test was begun	Integer	YYYYMMDD; NC = not collected	Ex: 20181022	8	Required

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

RADON TESTING

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Required
TestStopDate	The date the test ended	Integer	YYYYMMDD; NC = not collected	Ex: 20181025	8	Required
CountyFIPSCode	County FIPS code	String	FIPS	A valid county FIPS code for the state.	5	Required
DataSourceName	The data source where the radon test data is retrieved (when pulling from multiple data sources).	Text	Name of lab	Examples are: VDH-EH Radon Database ACCUSTAR; AIRCHEK; AK Radon Program; ALPHA; EMS; FL Radon Program KS Radon Program LANDAUERINC; Prolabs; RDS; RSSI; RTCA; UDEQ	25	Required
MeasureValue	The actual Radon measurement	Integer	nnnnn.n -999=LLD (less than the limit of detection)	0-10000.5, -999	5,1	Required
MeasureUnitName	The code that represents the unit for measuring Radon (pCi/L = picocuries per Liter) Note: look for conversion factor for Working Levels in How-To Guide	Integer	Please report only as 1= pCi/L for Radon	1	1	Required

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

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Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Required
TestMethodTypeCode	Identifier of the type or category of test.	Integer	1 = pre-mitigation 2 = post-mitigation 3 = Not collected	1, 2, 3	3	Required
ReasonForTest	The reason the radon test is being conducted.	Integer	1=Real Estate Transaction 2=Homeowner's choice (personal knowledge) 3=Legal requirement 4=Real estate transaction and legal requirement 5=Response to outreach/promotion 6=Post-mitigation test	Any of the codes in the Code Scheme column	1	Optional
RealEstateTransactionIndicator	Indicator of the building being tested for radon due to a Real Estate transaction or not.	Integer	1 = Yes 0 = No	0, 1	1	Optional
AddressPostalCode	5-digit zip code and 4 digit extension code (if available)	String	xxxxx-xxxx	Example: 19145-5208	10	Optional
CensusTract	Consists of the 2 digit state FIPS code, the 3 digit county FIPS code and the 6 digit code for the census tract	String	XXXXXX	Ex: Census Tract 48201533701 is located in Harris County, Texas. The 48 is the FIPS code for Texas; the 201 is the FIPS code for Harris County; and the 533701 identifies the specific Census Tract. Alpha Numeric	35	Optional

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

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Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Required
				so that leading zeroes are not deleted.		
FloorLevelTested	The floor level in the building where the Radon test was conducted.	String	B = Basement F1 = 1st floor F2 = 2nd floor F3 = 3rd floor F4 = above the 3rd floor O = Other	Any of the codes in the Code Scheme column	2	Optional
BuildingPurposeCode	The designator that represents the building purpose.	Text	R = Residential N = Non-residential/Commercial C = Community Water Supply this is a water sample D = Daycare center P = Daycare center in public school S = School H= Hospital G = Government building CU = Colleges or Universities I = Institutional U = Unknown	Any of the codes in Code Scheme column	2	Required
BuildingTypeCode	The designator that represents the Type of the building tested; R1 buildings are unattached and R2 buildings are attached.	Text	R1A = Mobile home R1B = Single level home R1C = Multi level home R1D = Other R2A = Row house single R3A = Row house multi-level R2B = Town house R2C = Duplex R2D = Apartments and Condominiums	Any of the codes in the Code Scheme column	3	Optional

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

DATA DICTIONARY FOR AGGREGATE DATA

RADON TESTING

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Required
FoundationTypeCode	A designator used to uniquely identify the Foundation Type that facility occupies.	Text	B = Basement C = Crawlspace S = Slab-on-grade P = Pier O = Other	Any of the codes in the Code Scheme column	1	Optional
TestDeviceLocation	Specific room in the house where the Radon test was conducted	Text	MB = Master Bedroom BR = Bedroom FR = Family Room LR = Living Room DR = Dining Room SD = Study/Den/Office BA = Basement O = Other	Any of the codes in the Code Scheme column	2	Optional
DeviceTypeName	Name of instrument or equipment used for the Radon test.	String	AC = Activated Charcoal Adsorption AT = alpha track ES = Short-term electret EL = Long-term electret CR = continuous radon monitor CW = continuous working level monitor LS = Charcoal Liquid Scintillation WL = Working Level CC = Charcoal Canister GR = Grab Sample – Radon GW = Grab Sample – Working Level RP = Radon Progeny Integrated Sampling Unit (RPISU) O= Other	Any of the codes in the Code Scheme column	2	Optional

NATIONAL ENVIRONMENTAL PUBLIC HEALTH TRACKING

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RADON TESTING

Field Name	Field Description	Data Type	Code Scheme	Legal Values	Field Length	Required
CertifiedContractorIndicator	Indicator if the contractor performing the test is certified or not.	Integer	1 = Yes 0 = No	0,1	1	Optional