
Attachment 4

Healthy Homes and Lead Poisoning Prevention
Surveillance System (HHLPPSS) Variables

Healthy Homes and Lead Poisoning Prevention Surveillance System (HHLPPSS) Variables

The information requested on this form is collected under the authority of the Public Health Service Act [Section 301 (42 U.S.C. Section 241 and Section 247b-1 and 247b-3)]. Limited identifiable data (e.g., address or location) may be shared by the Awardees with the U.S. Department of Housing and Urban Development and the U.S. Environmental Protection Agency (and others) for the purpose of assessing compliance and enforcing regulations to protect children's environments. Personally Identifiable Information (PII) are removed prior to quarterly submission to CDC.

Public reporting burden for this collection of information is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data 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 Reports Clearance Officer; 1600 Clifton Road, MS D-74, Atlanta, GA 30333, ATTN: PRA (0920-0931).

Required Fields Collected by Programs*

*Personally Identifiable Information (PII) are removed prior to quarterly submission to CDC
Individual-level Data (only for those with blood lead test)
Last Name
First Name
Middle Initial
ID
DOB (actual)
Age (reported from laboratory or provider)
Sex
Pregnant at time of test (if applicable)
Previous country of residence
Travel outside of US
Demographic Data
Ethnicity
Hispanic/Latino
Not Hispanic/Latino
Race
American Indian or Alaskan Native
Asian
Black or African American
Native Hawaiian or Other Pacific Islander
White
Address Data
Street Address
Address ID
City
County FIPS
State
Zip Code
Census Tract
Blood Lead Test Data
Specimen Source for lead test (sample type: venous blood, capillary blood, etc.)
Date sample collected (Sample Date)
Date sample analyzed (Sample Analyze Date)
Laboratory result report date (Result Report Date)
Numeric result comparator (less than, greater than)
Numeric result value
Numeric result units
Explanation for missing numeric result (e.g., clotting, quantity not sufficient, etc.)
Case Data
Date case closed
Closure reason
Child Risk Assessment Data
Investigation Data
Referral date for investigation
Date address investigation inspection completed

Investigation findings of sources
Investigation closure reason
Date remediation due
Date address hazard remediation or abatement completed
Date clearance testing completed
Clearance testing results
Laboratory Data
Name of Laboratory that reported test result
Clinical Laboratory Improvement Amendment (CLIA) number
Limit of Detection for blood lead testing
Provider Data
Provider/medical group State
Provider/medical group City
Provider/medical group County

Healthy Homes Inspection Variables (This Section includes inspectors' assessment as well as questions home visitor would ask family in the course of the home visit, thus there are differences in formatting.)

Date of Inspection: _____

On what stories are household's bedrooms located? Check all that apply

- Basement
- 1st Floor
- 2nd Floor
- Higher (Specify) _____

How many people live in this household by age?

- Children (< 6) ___
- Children (>= 6) ___
- Adults (18-64) ___
- Adults (>=65) ___

Does anyone who lives in this home smoke?
(cigarettes, cigars, other tobacco products)

- Yes
- No

Do visitors to your home ever smoke in your home? Y N

Bathroom

Does bathtub/shower have non-slip surface?

- Yes
- No

Bathroom Exhaust

- Exhaust fan not working or no exhaust fan or window present
- Exhaust fan working

Ceiling, Floors and Walls

Bulging/Buckling

- Bulging, buckling or alignment problem
- No bulging, buckling or alignment problem

Holes

- Large holes >= 8 ½ x 11 inches –OR- more than three tiles or panels missing –OR- there is a crack more than 1/8 inch wide and 11 inches long – OR – a hole penetrates the area above or adjacent
- Medium-sized holes present: Holes less than 8 ½ inches x 11 inches in area. –OR- no hole penetrates the area above or adjacent. –OR- no more than three tiles or panels missing.
- Small holes present: Holes smaller than 8 ½ inches x ½ inches (do not count pinholes) in total hole area

Peeling/Needs Paint

- >= 2 square feet damage: Peeling or deteriorated paint in any area larger than 2 square feet in any room.
- < 2 square damage: Peeling or deteriorated paint in any area smaller than 2 square feet in any room.
- No damage/peeling paint

Water Stains/Water Damage

- ≥ 4 square feet water stains/water damage: Any one ceiling, floor, or wall has evidence of water stains/water damage, a leak (such as a darkened area) over a large area (4 square feet or more). Water may or may not be visible.
- < 4 square feet water stains/water damage: Any one ceiling, floor, or wall has evidence of water stains/water damage, a leak (such as a darkened area) over a small area (less than 4 square feet). Water may or may not be visible.
- No water stains/damage

Condensation on Windows

- Condensation on windows, doors, walls
- No condensation on windows, doors, walls

Mold

- ≥ 4 square feet visible mold present: Any one ceiling, floor, or wall has visible mold over a large area (4 square feet or more)
- < 4 square feet visible mold present: Any one ceiling, floor, or wall has visible mold over a small area (less than 4 square feet)
- No mold observed.

Do you (inspector) smell a musty odor anywhere in the home?

- Yes
- No
- n/a (cannot smell due to cold or other respiratory problem)

Electrical

Missing or Broken Electrical Covers

- Exposed wiring: An open breaker port or exposed wiring -OR- A cover is missing and electrical connections are exposed
- None missing/broken/exposed

Child Tamper-resistant Outlet Covers

- No tamper-resistant outlet covers in units with young children
- Installed tamper-resistant outlet covers in units with young children
- Not applicable (no young children in unit)

Extension Cord Use

- Extension cords not used properly: Extension cords under carpets or across doorways - OR- Too many appliances plugged into one extension cord.
- Extension cords used properly: Extension cords not draped across doorways or under carpets and not overloaded with too many appliances.
- No extension cord use.

Extension Cord Condition

- Not Good: Extension cords cracked or frayed
- Good: Extension cords cracked or frayed
- No extension cord use

Water Heater

Water Temperature

- Temperature set at or above 120 degrees F
- No hot water
- Temperature set below 120 degrees F

In the past 6 months, has anyone been scalded by the water in this home?

- Yes

No

Did this require medical attention?

Yes

No

Smoke and Carbon Monoxide Alarm

Smoke Alarm

Not operational: At least one smoke alarm tested does not work as designed.

No smoke alarms present: No smoke alarm in unit

Operational: All smoke alarms in unit work as designed.

CO Alarm

Not operational: At least one CO alarm tested does not work as designed

No CO alarm present

Operational: All CO alarms work as designed.

Stairs

Stair Railings

Missing: No handrails present or present on only one side

Broken or insecure: Handrail damaged, loose or otherwise unusable or insecure.

Does not apply: No steps.

Railings on both sides appear secure.

Steps: Condition

One or more broken or missing

Not broken or missing

Does not apply: No steps

Steps: Covering

No covering on stairs

Covering on stairs is not firmly attached or is poor condition

Covering on stairs (e.g., nonslip tread covers) is firmly attached and is in good condition.

Stair Gates

not present at top or bottom of stair or not secured to wall

gate secured to wall at top or bottom but not both

gate secured to wall at top and bottom of stair

Lighting

light present at top and bottom of stairs

light not present at top or bottom

Windows

Window Condition

One or more windows missing

One or more windows cracked or broken

One or more windows cannot be opened

All windows intact and can be opened

Injury Hazards

For the purposes of this form, injury is defined as cuts, punctures, scrapes, bruises, fractures, or similar accidents. In the last 6 months, has any child had an injury or accident in the home that resulted in a visit for medical care?"

yes

no

- not sure
- n/a (no children)

ChildProofing Measures (if children age < 6 present in home)

Window Cords -Strangulation Hazard

- Yes: Window cords looped or tied together
- No: Window cords not looped or tied together

If yes hazard location: _____

Window Guards >= 2nd floor

- Missing or not operational
- Present and operational

Chemicals, Pesticides, Cleaning Supplies or Medications Stored Within Easy Reach of Children.

- Yes
- No

Poisoning Hazards

Unvented Combustion Appliances

- Yes
- No

If Yes, please check all that apply:

- fuel-fired space heaters
- gas clothes dryers
- gas logs
- charcoal
- stoves

Pest Hazards

Do you see evidence of cockroaches (bodies or fecal pellets)

- Yes
- No
- Maybe

Do you see evidence of rodents (bodies, fecal pellets or gnaw marks)?

(HH_Pest_Hazards_Rodents)

- Yes
- No

Asthma

1) Has a doctor or other health professional EVER told you that [fill: S.C. name] had asthma?

- 1 Yes
- 2 No
- 7 Refused
- 9 Don't know

UniverseText: Sample children <6 years old

DURING THE PAST 12 MONTHS, has [fill: SC name] had an episode of asthma or an asthma attack?

- 1 Yes
- 2 No

7 Refused
9 Don't know

UniverseText: children <6 years old and doctor has informed that child had asthma

2) Has a doctor or other health professional EVER told you that [fill: S.C. name] had asthma?

1 Yes
2 No
7 Refused
9 Don't know

UniverseText: People \geq 6 years old

DURING THE PAST 12 MONTHS.

DURING THE PAST 12 MONTHS, has [fill: SC name] had an episode of asthma or an asthma attack?

1 Yes
2 No
7 Refused
9 Don't know

UniverseText: People \geq 6 years old and doctor has informed them they have asthma

Format for submitting de-identified data to CDC

**Table: 1
Record Type: Basic Format**

Position	Field Name	Valid Values - Description
1-3	fileid	File identifier for record type. ADD - address data CHI - child INV - investigation LAB - lab LNK - child to address link HHI – healthy housing inspection
4	action	Database action code. A - add record C - change/replace D - delete
5	qtr	Reporting quarter. All annual submissions should be “4” for fourth quarter. 1 - first quarter (1/01/yy - 3/31/yy) 2 - second quarter (4/01/yy - 6/30/yy) 3 - third quarter (7/01/yy - 9/30/yy) 4 - fourth quarter (10/01/yy - 12/31/yy)
6-7	rpt_yr	Reporting year. Last two digits of the reporting year. (Must be numeric.)
8-12	pgmid	Program identifier. A unique identifier for the CLPPP (or lead database) submitting the data. The first two positions must contain the state FIPS (Federal Information Processing Standard) code. The next three positions are pre-assigned for STELLAR databases and must be unique for each lead database within a state (including databases other than STELLAR). You may obtain a program ID from the Lead Poisoning Prevention Branch (LPPB).
13-20	child_id	Child identifier. A unique identifier for a child; must be numeric and zero-filled. This would generally be a system-assigned sequential number within a database. The identifier is used in relational databases to eliminate redundant data. The child information exists only once, in one physical record, and is linked to related records by the child identifier. When records from two or more databases are combined, the combination of pgmid and child_id form a unique identifier within the combined database.
13-20	addr_id	Address identifier. A unique identifier for an address; must be numeric and zero-filled. This would generally be a system-assigned sequential number within a database. The identifier is used in relational databases to eliminate redundant data. The address information exists only once, in one physical record, and is linked to related records by the identifier. When records from two or more databases are combined, the combination of pgmid and addr_id form a unique identifier within the combined database.
21-249	All_the_rest	A variable format area. The contents and format depend on the value in the field fileid.

Table: 2
Record Type: Address
FileId: ADD

Position	Field Name	Valid Values - Description
1-12		Basic format as illustrated in Table 1. REQUIRED
13-20	Addr_id	See Table 1. REQUIRED
21-35	City	City name.
36-38	cnty_fips	County FIPS code. REQUIRED Numeric, zero-filled. A file of counties and assigned FIPS codes is available from Lead Poisoning Prevention Branch.
39-47	Zip	Zip code (5+4 format, no dash). Left justified, blank-fill or zero-fill.
48-49	State	State abbreviation.
50-56	census	Census tract. Left justified, blank-fill.
57	renovated	Residence renovated? 1 - yes, once 2 - no 3 - yes, more than once 9 - unknown
58-65	start_ren	Date first renovation begun. (CCYMMDD) Date must be present when renovated field (col 57) is coded 1 or 3. Date must be blank when renovated field is coded 2 or 9.
66-73	Comp_ren	Date latest renovation completed. (CCYMMDD) Cannot be earlier than start_ren date. Leave blank if renovation is ongoing as of the end of the reporting year.

Table: 4
Record Type: Investigation
Field: INV

Position	Field Name	Valid Values - Description
1-12		Basic format as illustrated in Table 1. REQUIRED
13-20	addr_id	See Table 1. REQUIRED
21-28	date_ref	Date address referred for investigation. (CCYYMMDD) REQUIRED
29-36	insp_comp	Date address investigation inspection completed. (CCYYMMDD) May not be prior to date_ref.
37-44	abat_comp	Date address hazard remediation or abatement completed. (CCYYMMDD) May not be prior to insp_comp.
45-48	Year	Year the dwelling was constructed. (YYYY) Blank if unknown. May not be after reporting year.
49	ownership	1 - Private, owner-occupied 2 - Rental, privately owned 3 - Rental, publicly owned 4 - Rental, Section 8 9 - Unknown
50	dwel_type	1 - Attached, single family 2 - Day care center 3 - Detached, single family 4 - Multi-unit 5 - School 8 - Other 9 - Unknown
51	paint_haz	Dwelling with peeling, chipping, or flaking paint. (Must be 9 if insp_comp is blank.) 1-Yes, interior 3-Yes, both 9 - Not inspected 2-Yes, exterior 4 - No
52-56	Xrf	Highest XRF reading in mg/cm ² . (000.0) See Note below.
57-64	dust_floor	Highest floor dust sample reading. (000000.0) See Note below.
65	floor_msr	Unit of measure. U - µg/ft ² Cannot be blank if dust_floor >0. P - ppm
66-73	dust_sill	Highest window sill dust sample reading. (000000.0) See Note below.
74	sill_msr	Unit of measure. U - µg/ft ² Cannot be blank if dust_sill >0. P - ppm
75-82	dust_well	Highest window well dust sample reading. (000000.0) See Note below.
83	well_msr	Unit of measure. U - µg/ft ² Cannot be blank if dust_well >0. P - ppm
84-91	Paint	Highest paint chip sample reading. (000000.0) See Note below.
92	paint_msr	Unit of measure. U - µg/ft ² Cannot be blank if paint >0. P - ppm M - mg/cm ²
93-100	soil	Highest soil sample reading in ppm. (000000.0) See Note below.
101-108	water	Highest water sample reading in ppb. (000000.0) See Note below.
109	indhaz	Industrial hazard near dwelling. 1 - Yes 2 - No 9 - Unknown

Note: Environmental sample results should all be shown right-justified, zero-filled on the left, and formatted with one decimal position. If no decimal value, format with decimal and zero (000500.0).

Table: 5
Record Type: Lab Results
Field: LAB

Position	Field Name	Valid Values - Description
1-12		Basic format as illustrated in Table 1. REQUIRED
13-20	child_id	See Table 1. REQUIRED
21-28	samp_date	Date sample was drawn. (CCYYMMDD) REQUIRED May not be prior to child date of birth.
29-36	addr_id	Unique identifier of child's primary address on the date sample was drawn. (See Table 1.) Zero-fill if unknown.
37-39	result	Sample result measured in µg/dL. Whole number, zero-filled. REQUIRED
40	fund_source	Source of funding for the test. 1 - Public, includes Medicaid 2 - Private insurance 3 - Parent self-pay 8 - Other 9 - Unknown
41	samp_type	Sample type. 1 - Venous, blood lead 2 - Capillary, blood lead 9 - Unknown
42	test_rsn	Test reason. 1 - Screening (asymptomatic child without previous elevated level) 2 - Clinical suspicion of lead poisoning (child symptomatic) 3 - Confirmatory test following elevated value by fingerstick 4 - Follow-up, child with confirmed elevated level 5 - EP, not for lead-screening 9 - Unknown/other
43	lab_type	Type of laboratory processing sample. 1 - Public health laboratory 2 - Commercial laboratory 9 - Unknown
44	scrn_site	Type of provider ordering test, or screening site. 1 - CLPPP fixed-site specific to lead 2 - Door to door program 3 - Other fixed-site screening program, e.g. WIC 4 - Private health care provider 5 - Referred for confirmation, no screening information 9 - Unknown/other
45	medicaid	1 - Yes 2 - No 9 - Unknown
46-53	samp_anaz_dt	Date sample analyzed by lab. (CCYYMMDD) May not be prior to samp_date.
54-61	rslt_rpt_dt	Date results reported to/received by health department. (CCYYMMDD) May not be prior to samp_date.

Table: 6
Record Type: Child to address link (Optional record type)
Fileid: LNK

Field Name	Valid Values - Description
	Basic format as illustrated in Table 1. REQUIRED
child_id	Unique child identifier. See Table 1. REQUIRED
addr_id	Unique address identifier. See Table 1. REQUIRED
type_addr	1 - Primary address 2 - Relocation address 3 - Alternative 4 - Supplemental 9 - Unknown
first_occ	Date the child first occupied or began spending time at address. (CCYYMMDD) REQUIRED May not be after the end of the reporting period.
last_occ	Date the child moved from or ceased spending time at address. (CCYYMMDD) May not be prior to first_occ date.

NOTE: There should be only one "open" link record per child (last_occ is blank) where address type code is **1** or **2**; A relocation address is considered a primary address to which a child has been permanently moved to remove them from a hazardous environment.

Table 7. Format for Adults with blood lead test

1. StateRep	2	Text	2-letter Postal State abbreviation for the State making this report. [Note: This should be a constant and must be present]
2. StateRes	2	Text	2-letter Postal State abbreviation for State in which the adult resides. 99 = Unknown. CN = Canada, MX = Mexico.
3. CountyRes	3	Text	3-digit county Federal Information Process Standards (FIPS) code for county of residence of the adult. 999 = Unknown.
4. StateExp	2	Text	2-letter Postal State abbreviation for State where exposure occurred. 99 = Unknown. CN = Canada, MX = Mexico. [Note : Code StateExp only if you are sure of exposure location (do not make assumptions)]
5. CountyExp	3	Text	3-digit county FIPS code for county where exposure occurred. 999 = Unknown.
6. ID	15	Text	State-assigned unique ID number for adult (ID must remain constant from year to year) with 15 characters maximum. If all characters are not used, leave the missing ones blank, and left justify. Do not fill with zeros. [Note: Do not use any personal identifier such as an SSN or name for ID.]
7. Status	1	Text	<p>For adults with BLLs ≥ 10 $\mu\text{g}/\text{dL}$:</p> <p>1 = New case. An adult whose highest BLL was ≥ 10 $\mu\text{g}/\text{dL}$ in the current calendar year who was not in the State lead registry in the immediately preceding calendar year with a BLL ≥ 10 $\mu\text{g}/\text{dL}$. This adult may have been in the registry with a BLL ≥ 10 $\mu\text{g}/\text{dL}$ in earlier calendar years or with a BLL < 10 $\mu\text{g}/\text{dL}$ in the immediately preceding calendar year. [Note: A new case should remain coded 1 for all other BLL tests for the adult done in the same calendar year.]</p> <p>2 = Existing case. An adult whose highest BLL was ≥ 10 $\mu\text{g}/\text{dL}$ in the current calendar year who was in the registry in the immediate preceding calendar year with a BLL ≥ 10 $\mu\text{g}/\text{dL}$.</p> <p>9 = Unknown</p> <p>For adults with BLLs < 10 $\mu\text{g}/\text{dL}$:</p> <p>3 = Unclassified Adult. An adult whose highest BLL was < 10 $\mu\text{g}/\text{dL}$ about whom you have collected insufficient information to determine whether he/she is a new or existing adult in the State registry.</p> <p>4 = New adult. An adult whose highest BLL was < 10 $\mu\text{g}/\text{dL}$ who was not in the State lead registry in the preceding calendar year with a BLL either less than or greater than 10 $\mu\text{g}/\text{dL}$. This adult may have been in the registry in earlier years.</p> <p>5 = Existing adult. An adult whose highest BLL was < 10 $\mu\text{g}/\text{dL}$ who was in the registry in the preceding calendar year with a BLL either less than or greater than 10 $\mu\text{g}/\text{dL}$. [Note: Codes 3-5 are provided to facilitate the reporting of the lower BLLS. The use of Code 3 should be rare as should the use of Code 9.]</p>
8. BLLDate	10	Date	Date blood drawn or date of lab BLL test. MM/DD/YYYY [Note: Change short date under control panel/regional options to reflect MM/DD/YYYY.]
9. DateType	1	Text	1 = Date of blood draw (preferred) 2 = Date of laboratory test (acceptable) 3 = Date of health department ascertainment (acceptable) 9 = Unknown

10. BLL	3	Numeric	Blood lead level, 3 digits no decimal, leave blanks, right justify.
11a. DOB	10	Date	Date of Birth (MM/DD/YYYY) [Note: If DOB unavailable, you may leave blank and code Age]
11b. Age	3	Numeric	Age in years, right justify, no decimal. 999 = Unknown [Note: If DOB provided, you may leave Age blank]
12. Sex	1	Text	1 = Male 2 = Female 3 = Other 9 = Unknown
13. Ethnicity	1	Text	1 = Yes (Hispanic/Latino) 0 = No (Not Hispanic/Latino)
14. Race	1		(More than one can be marked) American Indian or Alaskan Native Asian Black or African American Native Hawaiian or Other Pacific Islander White
15. WorkRel	1	Text	This is your determination on whether the exposure was work related. 1 = Work related 2 = Not work related 3 = Both 9 = Unknown [Note: Code 1, 2 or 3 only if you are sure of the exposure source. Code 9 if you do not know — do not make assumptions.]
16. NAICS	6	Text	North American Industry Classification System 2002 999 = Unknown [Note: If WorkRel is coded 1 or 3, NAICS should have a valid code or 999. If WorkRel is coded 2 or 9, NAICS should be blank.] http://www.census.gov/eos/www/naics/
17. COC	4	Text	Census Occupation Codes 2002 990 = Unknown [Note: If WorkRel is coded 1 or 3, COC should have a valid code or 990 If WorkRel is coded 2 or 9, COC should be blank] http://www.census.gov/people/io/
18. Process	50	Text	Process is defined as a narrative of the non-occupational avocation or activity from which the adult was exposed to lead. NA = Non-applicable. [Note: If WorkRel is coded 2 or 3, Process should have a narrative entry, a code, or 999.] [Note: If WorkRel is coded 1 or 9, Process should be coded NA.] [Note: While it is acceptable to use the following codes for the most frequent process categories, we prefer that you include text descriptions so that the need for new categories or new exposures can be assessed.] 1 = Shooting firearms (target shooting) 2 = Remodeling/renovation/painting 3 = Casting (e.g., bullets, fishing weights) 4 = Ceramics

			5 = Stained glass 6 = Retained bullets (gunshot wounds) 7 = Pica (the eating of non-food items) 8 = Eating from leaded cookware 9 = Eating food containing lead (e.g., imported candy) 10 = Drinking liquids containing lead (e.g., moonshine) 11 = Taking nontraditional medicines (e.g., Ayurvedic medications) 12 = Retired (This could be a former lead worker; try to get SIC, NAICS) 13 = Other--please provide text descriptions for sources not listed above. 999 = Unknown
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Note: Variable formats may change to meet emerging CDC guidelines for surveillance systems.

NOTE: The following website is most useful in finding help in coding industry: (1) Search by a keyword in the line of business the adult is in and it will find the NAICS code. (2) Search by SIC code and it will find the corresponding NAICS code. (3) Search by the NAICS code to receive the full description.

<http://www.census.gov/eos/www/naics/>