Form Approved OMB No. 0920-0931 Exp. Date 05/30/201x

# Submission Format for Childhood Blood Lead Surveillance (CBLS) Text Files

# CDC Program Announcement No. CDC-RFA-EH17-1701PPHF17 Updated September 14, 2017

This document contains a list of variables that Awardees submit to NCEH by the final business day of the following quarter (e.g., data collected during the first quarter is due on the final business day of the second quarter). Data submitted in text files are processed and maintained in the CBLS database. NCEH uses its processing software, CBLS Central, to perform data checks for required formatting on Awardee text files. Text files are parsed into separate linkable data tables (e.g., Child, Address, Lab Results, and Investigation).

Table No.	Record Type	File ID
1	Child	CHI
2	Address	ADD
3	Lab Results	LAB
4	Investigation	INV
5	Child-to-Address Link (optional)	LNK

Processing reports are generated and sent to Awardees, to indicate how many records were properly parsed and entered into the CBLS database and how many records were not loaded with an explanation of the rejection. Corrections from Awardees are returned in the next quarterly report. Therefore, NCEH has a 1 to 2 quarter lag with on-time data delivery. CBLS Annual Reports are based on the calendar year and are sent to Awardees at the end of the second quarter of the fiscal year.

The Awardees input data reported to their state or local jurisdiction(s) into the Healthy Homes and Lead Poisoning Surveillance System (HHLPSS), which is developed and provided by NCEH at no cost to Awardees, or into another lead surveillance reporting system chosen by Awardee. Awardees are required to de-identify the data prior to delivery to NCEH. Personally identifiable information (PII), such as names and addresses of children are removed; only Child ID and Address ID are submitted to NCEH.

This information 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)]. CDC estimates the average public reporting burden for this collection of information as 4 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 D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-0931).

# OVERVIEW OF DATA PROCESSING OF AWARDEE RECORDS INTO CBLS RELATIONAL TABLE FORMATS

Each record contains a file identifier (FILEID), a program identifier (PGMID), and record-specific information to create a unique record identifier.

FILEID + PGMID + Record-specific information

CHI + PGMID + CHILD ID

ADD + PGMID + ADDR ID

LAB + PGMID + CHILD ID + SAMP DATE

INV + PGMID + ADDR ID + DATE REF

LNK + PGMID + CHILD\_ID + ADDR\_ID + FIRST\_OCC

## **BASIC FORMAT**

FILEID ... PGMID

CHILD ID

ADDR\_ID

TABLE-SPECIFIC FIELDS

(see below)

## **Basic Format** is used to create tables:

- **Table 1** Child:
- Table 2 Address;
- Table 3 Lab Results:
- Table 4 Investigation; and
- Table 5 Child-to-Address Link (optional)

# CHILD\_ID ONLY TABLE

# Table 1: CHILD

CHI ... PGMID

Positions 1-12

CHILD\_ID

Positions 13-20

**CHILD FIELDS** 

Positions 21-51

Data must be submitted by Programs in ASCII fixed field length (non-delimited), variable record length. Each

record must have a unique numeric identifier determined by the values in the FILEID field and the

Each record submitted is validated for correct

(see Appendix for more details)

duplicate record validation, ensures: One unique CHI record

unique identifier for each record (described above).

formatting and coding. Within each submission to NCEH, there should be no duplicate records. Duplicate

records are not loaded into the database and non-

One unique LAB record per child per sample date

# CHILD\_ID & ADDRESS\_ID TABLES

# **Table 3: LAB RESULTS**

LAB ... PGMID

Positions 1-12

CHILD\_ID

LAB RESULTS FIELDS

Positions 21-144

Positions 13-20

ADDR ID

Positions 29-36

LNK ... PGMID

Positions 1-12

CHILD ID

Positions 21-28

**LINK FIELDS** 

Positions 29-45

# ADDRESS\_ID ONLY TABLES

# **Table 2: ADDRESS**

ADD ... PGMID

Positions 1-12

ADDR\_ID

Positions 13-20

**ADDRESS FIELDS** 

Positions 21-73

# Table 5: CHILD-TO-ADDRESS LINK

Positions 13-20

ADDR ID

# **Table 4: INVESTIGATION**

**INV ... PGMID** 

Positions 1-12

ADDR ID

Positions 13-20

**INVESTIGATION FIELDS** 

Positions 21-127

# CHILDHOOD BLOOD LEAD SURVEILLANCE (CBLS) RECORD AND TABLE FORMATS

Record Type:	Basic Format	
Position	Field Name	Valid Values - Description
1-3	FILEID	File identifier for record type. <b>REQUIRED</b> CHI - Child  ADD - Address  LAB - Lab  INV - Investigation
		LNK - Child-to-address link
4	ACTION	Database action code. <b>REQUIRED</b> A - Add record C - Change/replace D - Delete
5	QTR	Reporting quarter. All annual submissions should be "4" for fourth quarter. <b>REQUIRED</b> 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. REQUIRED  Last two digits of the reporting year.  Must be numeric.
8-12	PGMID	Program identifier. <b>REQUIRED</b> A unique identifier for the Awardee submitting the data, or for each lead reporting database within the Awardee jurisdiction. The first two positions must contain the state FIPS (Federal Information Processing Standard) code. The next three positions are pre-assigned for HHLPSS and must be unique for each lead database within a state (including databases other than HHLPSS). Program ID is obtained from the Healthy Homes and Lead Poisoning Prevention Program (HHLPPP).
13-20	CHILD_ID	Child identifier. <b>REQUIRED</b> 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. <b>REQUIRED</b> 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		Table-specific variable format area based on required reporting.  The contents and format depend on the value in the field FILEID. See Tables 1-5 to follow.

EID: CHI Position	Field Name	Valid Values - Description
1-3	FILEID	CHI - Child. REQUIRED
	TILLID	File identifier for record type.
4	ACTION	Database action code. <b>REQUIRED</b>
		A - Add record
		C - Change/replace
		D - Delete
5	QTR	Reporting quarter. All annual submissions should be "4" for fourth quarter. <b>REQUIRED</b>
		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. REQUIRED
		Last two digits of the reporting year.
		Must be numeric.
8-12	PGMID	Program identifier. REQUIRED
		A unique identifier for the Awardee submitting the data, or for each lead reporting
		database within the Awardee jurisdiction.
13-20	CHILD_ID	Child identifier. REQUIRED
04.00	505	A unique identifier for a child; must be numeric and zero-filled.
21-28	DOB	Child's date of birth. (CCYYMMDD) REQUIRED
		Birth date cannot be after the end of the reporting year.
29	SEX	Child may not be older than 16 years at the start of the reporting year.  Sex. REQUIRED
27	SLX	1 - Male
		2 - Female
		9 – Unknown
30	ETHNIC	Ethnicity (Select only one). REQUIRED
		1 – Hispanic or Latino
		2 - Not Hispanic or Latino
		9 – Unknown
31	RACE	Race (Select only one). REQUIRED
		1 – American Indian or Alaskan Native
		2 – Asian 3 – Black or African American
		4 – Native Hawaiian or Other Pacific Islander
		5 - White
		6 - More than one race
		9 - Unknown
32	CHELATED	Chelation therapy administered. <b>REQUIRED</b>
		1 - Yes
		2 – No 9 – Unknown
33	CHEL_TYPE	Type of chelation. <b>REQUIRED</b>
	OHEE_ITTE	1 - Inpatient
		2 - Outpatient
		3 - Both
		9 – Unknown
		Cannot be blank if CHELATED =1. Cannot be 1, 2, or 3 if CHELATED =2 or 9.

Table: 1 (continued)
Record Type: Child
FILEID: CHI

34 CHEL_FUND Source of funding for the chelation therapy. REQUIRED  1 - Public, includes Medicaid 2 - Private insurance 3 - Parent self-pay 8 - Other 9 - Unknown Cannot be blank if CHELATED = 1.  35 NPLSZ Non-paint lead source - other. REQUIRED 1 - Yes 2 - No 9 - Unknown  36 NPLSM Non-paint lead source - traditional medicines. REQUIRED 1 - Yes 2 - No 9 - Unknown  37 NPLSO Non-paint lead source - occupation of household member. REQUIRED 1 - Yes 2 - No 9 - Unknown  38 NPLSH Non-paint lead source - hobby of household member. REQUIRED 1 - Yes 2 - No 9 - Unknown  39 NPLSP Non-paint lead source - pottery, imported or improperly fired. REQUIRED 1 - Yes 2 - No 9 - Unknown  39 NPLSP Non-paint lead source - pottery, imported or improperly fired. REQUIRED 1 - Yes 2 - No 9 - Unknown	Position	Field Name	Valid Values - Description
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1 - Yes 2 - No 9 - Unknown			
2 - No 9 - Unknown	39	NPLSP	
9 – Unknown			
II 40 I NDICC I Non-continuous abilda accometan DECHIDED	40	NDICC	
40 NPLSC Non-paint lead source - child occupation. REQUIRED	40	NPLSC	
1 - Yes			
2 - No 9 - Unknown			
41 BIRTH Country of birth.	41	BIRTH	
1 - U.S.	-		
2 - Other			
3 - Unknown			

Table: 2 Record Type: Address FILEID: ADD Position Field Name **Valid Values - Description** 1-3 **FILEID** ADD - Address. **REQUIRED** File identifier for record type. 4 ACTION Database action code. REQUIRED A - Add record C - Change/replace D - Delete QTR Reporting quarter. All annual submissions should be "4" for fourth quarter. REQUIRED 5 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. REQUIRED Last two digits of the reporting year. Must be numeric. PGMID 8-12 Program identifier. **REQUIRED** A unique identifier for the Awardee submitting the data, or for each lead reporting database within the Awardee jurisdiction. 13-20 ADDR\_ID Address identifier. REQUIRED 21-35 CITY City name. 36-38 CNTY\_FIPS County FIPS code. REQUIRED Numeric, zero-filled. A list of counties their associated FIPS codes is available from HHLPPP. 39-47 ZIP Zip code (5+4 format, no dash). Left justified, blank-fill or zero-fill. 48-49 **STATE** State abbreviation (two-letter alphabetic code). 50-56 CENSUS Census tract. Left justified, blank-fill. RENOVATED Residence renovated. REQUIRED 57 1 - Yes, once 2 - No 3 - Yes, more than once 9 - Unknown 58-65 START\_REN Date first renovation begun. (CCYYMMDD) Date must be present when RENOVATED is coded 1 or 3. Date must be blank when RENOVATED is coded 2 or 9. 66-73 COMP\_REN Date latest renovation completed. (CCYYMMDD) Cannot be earlier than START\_REN. Leave blank if renovation is ongoing as of the end of the reporting year.

Table: 3 Record Type: Lab Results FILEID: LAB Field Name Position **Valid Values - Description FILEID** LAB - Lab Results. REQUIRED 1-3 File identifier for record type. ACTION 4 Database action code. REQUIRED A - Add record C - Change/replace D - Delete QTR 5 Reporting quarter. All annual submissions should be "4" for fourth quarter. REQUIRED 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) Reporting year. REQUIRED 6-7 RPT\_YR Last two digits of the reporting year. Must be numeric. Program identifier. REQUIRED **PGMID** 8-12 A unique identifier for the Awardee submitting the data, or for each lead reporting database within the Awardee jurisdiction. 13-20 CHILD\_ID Child identifier. REQUIRED 21-28 SAMP\_DATE Date sample was drawn. (CCYYMMDD) REQUIRED. May not be prior to child DOB. ADDR\_ID Address identifier. (Unique identifier of child's primary address on the date sample was 29-36 Zero-fill if unknown. 37 **PREGNANT** Pregnant at time of blood lead test. 1 - Yes 2 - No 3 - N/A9 - Unknown 38-39 **BLANK** LAB FUND Source of funding for the laboratory test. REQUIRED 40 1 - Public, includes Medicaid 2 - Private insurance 3 - Parent self-pay 8 - Other 9 - Unknown 41 SAMP\_TYPE Sample type. REQUIRED 1 - Venous, blood lead 2 - Capillary, blood lead 9 - Unknown 42 TEST\_RSN Test reason. REQUIRED 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

Table: 3 (continued) Record Type: Lab Results

FILEID: LAB

FILEID: LAB		
Position	Field Name	Valid Values - Description
43	LAB_TYPE	Type of laboratory processing sample. REQUIRED
		1 – Public health laboratory
		2 – Commercial laboratory
		3 – Clinical setting (i.e., lead screening)
		9 – Unknown
44	SCRN_SITE	Type of provider ordering test, or screening site. <b>REQUIRED</b>
		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	METH_ANAZ	Laboratory method used to analyze sample. <b>REQUIRED</b>
		1 – Inductively coupled plasma mass spectrometry (ICP-MS)
		2 - Graphite furnace atomic absorption spectroscopy (GFAAS) (also known as
		Electrothermal Atomic Absorption Spectroscopy (ETAAS))
		3 - Anodic Stripping Voltammetry (ASV) (e.g., LeadCare®)
47.54	METHIOD	9 - Unknown
46-51	METH_LOD	Limit of detection of METH_ANAZ. (000.00)
		See Note below.
52-59	SAMP_ANAZ_DT	Date sample analyzed by lab. (CCYYMMDD)
		May not be prior to SAMP_DATE.
60-67	RSLT_RPT_DT	Date results reported to/received by health department. (CCYYMMDD)
		May not be prior to SAMP_DATE.
68-73	RESULT	Sample result measured in μg/dL. (000.00) <b>REQUIRED</b>
		See Note below.
74	RST_INTPCODE	Numeric result comparator (result interpretation code). REQUIRED
		1 - Equal
		2 – Less Than
		3 - Greater Than
75-80	LAB_LOD	Limit of detection of the lab that performed the results. (000.00)
		Only need for "No Result" test.
		See Note below.
74-123	LAB_NAME	Name of Laboratory that reported result
124-134	LAB_ID	Clinical Laboratory Improvement Amendment (CLIA) Number of laboratory
135-144	NPI	National Provider Identifier or NPI is a unique 10-digit identification number issued to
		health care providers in the United States by the Centers for Medicare and Medicaid
		Services (CMS).

**Note**: Laboratory sample results and limits of detection (LODs) should all be shown right-justified, zero-filled on the left, and formatted with two decimal positions. If no decimal value, format with decimal and zero (000.00).

able: 4 ecord Type: LEID: INV	Investigation	
Position	Field Name	Valid Values - Description
1-3	FILEID	INV - Investigation. <b>REQUIRED</b> File identifier for record type.
4	ACTION	Database action code. <b>REQUIRED</b> A - Add record  C - Change/replace  D - Delete
5	QTR	Reporting quarter. All annual submissions should be "4" for fourth quarter. <b>REQUIRED</b> 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. <b>REQUIRED</b> Last two digits of the reporting year.  Must be numeric.
8-12	PGMID	Program identifier. <b>REQUIRED</b> A unique identifier for the Awardee submitting the data, or for each lead reporting database within the Awardee jurisdiction.
13-20	ADDR_ID	Address identifier. 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	Residential ownership status. REQUIRED  1 - Private, owner-occupied  2 - Rental, privately owned  3 - Rental, publicly owned  4 - Rental, Section 8  9 - Unknown
50	DWELL_TYPE	Type of dwelling. REQUIRED  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. REQUIRED  1 - Yes, interior 2 - Yes, exterior 3 - Yes, both 4 - No 9 - Not inspected  Must be 9 if INSP_COMP is blank.

Table: 4 (continued)
Record Type: Investigation

FILEID: INV

Position	Field Name	Valid Values - Description
52-56	XRF	Highest XRF reading in mg/cm <sup>2</sup> . (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.
		$U - \mu g/ft^2$
		P - ppm
		Cannot be blank if DUST_FLOOR > 0.
66-73	DUST_SILL	Highest window sill dust sample reading. (000000.0)
		See Note below.
74	SILL_MSR	Unit of measure.
		$U - \mu g/ft^2$
		P – ppm
		Cannot be blank if DUST_SILL > 0.
75-82	DUST_WELL	Highest window well dust sample reading. (000000.0)
		See Note below.
83	WELL_MSR	Unit of measure.
		$U - \mu g/ft^2$
		P – ppm
		Cannot be blank if DUST_WELL > 0.
84-91	PAINT	Highest paint chip sample reading. (000000.0)
		See Note below.
92	PAINT_MSR	Unit of measure.
		U – μg/ft² P – ppm
		M - mg/cm <sup>2</sup>
		Cannot be blank if PAINT > 0.
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)
101 100		See Note below.
109	INDHAZ	Industrial hazard near dwelling.
107	1110111112	1 - Yes
		2 - No
		9 – Unknown
110-117	DATE_DUE	Date remediation due. (CCYYMMDD)

Table: 4 (continued)	
Record Type: Investigation	
FILEID: INV	

FILEID. INV		
Position	Field Name	Valid Values - Description
118	INV_CLOS_RES	Investigation closure reason.
		A – Administratively closed
		B - Batch closed
		C - Remediation complete
		D - Unit demolished
		F – Insufficient funds
		I - Permanent injunction
		M - Family moved
		N - No hazard found
		R – Inspection refused
		U – No longer rental unit
119-126	CLEAR_DATE	Date clearance testing completed. (CCYYMMDD)
127	CLEAR_RSLT	Clearance Testing Results
		1 - Passed
		2 - Failed
		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 (000000.0).

Table: 5 Record Type: FILEID: LNK	: Child-to-address l	ink (Optional)
Position	Field Name	Valid Values - Description
1-3	FILEID	LNK - Child-to-Address Link. <b>REQUIRED</b> File identifier for record type.
4	ACTION	Database action code. <b>REQUIRED</b>
		A - Add record C - Change/replace D - Delete
5	QTR	Reporting quarter. All annual submissions should be "4" for fourth quarter. <b>REQUIRED</b>
		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. REQUIRED
		Last two digits of the reporting year.  Must be numeric.
8-12	PGMID	Program identifier. REQUIRED
		A unique identifier for the Awardee submitting the data, or for each lead reporting database within the Awardee jurisdiction.
13-20	CHILD_ID	Child identifier. REQUIRED
21-28	ADDR_ID	Address identifier. REQUIRED
29	TYPE_ADDR	Type of Address. REQUIRED
		<ul> <li>1 - Primary address</li> <li>2 - Relocation address</li> <li>3 - Alternative</li> <li>4 - Supplemental</li> <li>9 - Unknown</li> </ul>
30-37	FIRST_OCC	Date the child first occupied or began spending time at address. (CCYYMMDD) <b>REQUIRED</b>
		May not be after the end of the reporting period.
38-45	LAST_OCC	Date the child moved from or ceased spending time at address. (CCYYMMDD)
		May not be prior to FIRST_OCC.

**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.

# APPENDIX. Childhood Blood Lead Surveillance (CBLS) Submission Format

# 1. General Requirements

Data must be in ASCII fixed field length (non-delimited), variable record length. The first three positions of each record will contain a file identifier (FILEID) which governs the record format and length.

# 2. Formatting and Coding

Each record submitted will be validated for correct formatting and coding. Action codes (Position 4 in each record) will be used to determine the record processing when loading to the master database.

# 3. CHI Processing

An ACTION code of "C" (change) will

- Replace an existing record on the CDC database if the unique identifiers match *unless* it is a CHI record with a changed DOB (date of birth).
- Add "C" transactions to the database when there is no match.

If a CHI (child) change transaction is received, and the DOB is changed, the existing CHI record, the related LNK, and related LAB records will be deleted. The new transactions for this child will then be added. This is effectively the same as submitting a CHI "delete" transaction and CHI (and any related LAB and LNK) "add" transactions.

This means if you submit a CHI *change* transaction with a changed date of birth, you must include all the related information/tests for the child. LAB records already in our database will be removed because we cannot determine if they are valid for the "new" child.

# 4. DUPLICATE KEY Processing

Records with ACTION code "A" will

- Be added to the database if there is no match.
- If there IS a match (DUPLICATE KEY=match on unique identifiers, see item 5 below), and

The record type is	The transaction is
LAB, INV, or LNK	is rejected.
	and all related LAB and LNK
CHI and the DOB is different	transactions in the submitted file are
	rejected.
ADD and both CITY and ZIP are	and all related LAB, LNK and INV
	transactions in the submitted file are
different	rejected.

For CHI and ADD transactions where those data fields (DOB or both city and zip code) are not changed, the transactions will update the master files and related transactions will be processed.

Records with ACTION code "D" are processed first. When a CHI delete transaction is processed, all related LNK and LAB records are also deleted. When an ADD (address) delete transaction is processed, all related LNK and INV records are also deleted. LAB records containing that address ID are modified to clear the ID to all zeroes.

CHI and ADD record types are processed first. When other record types are loaded, the related CHI and ADD records must exist in the master file or they are rejected.

Within each submission to CDC there should be NO duplicate records. For instance, while there may be any number of lab results for a given child, there must be only one occurrence of the child record. Additionally, there may only be one LAB record per child per sample date. Duplicates are determined by the values in the FILEID field and the unique identifier for each record.

Each record contains a file identifier (FILEID), a program identifier (PGMID), and recordspecific information to create a <u>unique record identifier</u>, as follows:

<u>FILEID</u>	+ PGMID	+ Record-specific information
CHI	+ PGMID	+ CHILD_ID
ADD	+ PGMID	+ ADDR_ID
LAB	+ PGMID	+ CHILD_ID + SAMP_DATE
INV	+ PGMID	+ ADDR_ID + DATE_REF
LNK	+ PGMID	+ CHILD_ID + ADDR_ID + FIRST_OCC

Duplicates found within the same file are rejected, since we cannot determine which is the correct transaction.

4 "Duplicate" lab records (more than one test per child **on the same day**) should be resolved according to these guidelines.

If samples are all venous, take the highest test result. If samples are mixed capillary and venous, take the (highest) venous. If the samples are all capillary, take the lowest test result.

5. Record formats are illustrated in the tables and follow a basic record format. The first 12 positions are consistent in every record format. Positions 13-20 contain an 8-digit numeric identifier, either for child or address, depending on the record type. The rest of the layout is dependent upon the record type or FILEID value. Tables 1 through 5 illustrate the format variations for the five specific tables.

The field names used in the tables are CBLS field labels or derivatives. All alpha characters are in upper case. All numeric fields are right justified and zero-filled unless

otherwise stated. Alpha-numeric fields are left justified and padded on the right with blanks as needed.

Values are **required** in all fields in positions 1-20. Fields which have number codes must contain a valid number value. Dates which are not applicable or unknown may be blank unless the table indicates REQUIRED.

## 6. UNIQUE IDENTIFIERS

Each child and address must have a unique numeric identifier. This identifier will be our only way to identify the record, as we cannot use personal identifiers such as name or street address. These identifiers must remain the same from one submission to the next.

## **COUNTY**

As noted in the following specifications, surveillance data submitted to CDC must use the county FIPS code rather than the county name. We have a file of these codes for all states and will be happy to provide you with a file for your state. HHLPSS software includes the FIPS codes. To obtain a copy of the FIPS file for your state, email or write to this office and indicate whether you want the file in ASCII or dBase format.

## PROGRAM ID

The program ID number is a number assigned by CDC to states submitting surveillance data. The number must be present in each record submitted. When used in combination with the child ID number or the address ID number, the program ID number will assure that data submitted to the national system remains unique.

The need for a program ID number results from the use of database systems which generate "unique" identifiers for that database. If a state is using a system which is installed in more than one location, and each location assigns a "unique" identifier to each child and/or each address, there may be a problem with combining data into a single database. Each location may generate identifiers using the same approach, e.g., each location may assign the number "00000001" to the first child in the system.

A different program ID number will be assigned to each location submitting data to the state system (see below for details). When the program ID number is combined with the "unique" identifier assigned by the location, it will create a "true" unique identifier for each record in the state system.

CDC's HHLPSS Team assigns and maintains the program IDs. Each registered HHLPSS user receives a unique program ID with the HHLPSS software. We assign only one program ID number to each state for databases that are not HHLPSS databases. If your state collects data from several non-HHLPSS databases and needs additional program ID numbers, please write or email to HHLPSS Support a list of names and locations, and we will assign a program ID number for each location.