The Longitudinal System Analysis

FY 2019 HMIS Programming Specifications



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**Version History**

| Version | Date | Revisions |
| --- | --- | --- |
|  |  |  |

# Introduction

## Background: Annual Homeless Assessment Report and the Longitudinal System Analysis

Every year, the U.S. Department of Housing and Urban Development (HUD) submits an Annual Homeless Assessment Report (AHAR) to the United States Congress. The AHAR is a national-level report that provides information about homeless service providers, people and households experiencing homelessness, and various characteristics of that population. It informs strategic planning for federal, state, and local initiatives designed to prevent and end homelessness.

Nationwide, HUD has tasked Continuums of Care (CoCs) with coordinating homeless services in specific geographic areas. The AHAR is based on data provided annually by these CoCs in the form of three separate aggregate data submissions. US Census and other data are used for contextual analysis.

HUD’s *Notice for Housing Inventory Count (HIC) and Point-in-Time (PIT) Data Collection for Continuum of Care (CoC) Program and the Emergency Solutions Grants (ESG) Program* defines the requirements for the first two components of continuum-level data used in the AHAR:

* **Housing Inventory Counts** (HIC) are data related to the capacity and utilization of residential projects dedicated to serving people experiencing homelessness; and
* **Point-in-Time Counts** (PIT) provide counts of sheltered and unsheltered people who are experiencing homelessness on a single night, usually on a night in the last 10 days of January.

The third component of data provided by CoCs is the report defined by this document: the **Longitudinal System Analysis** (LSA). For people and households served by the CoC during the fiscal year, the LSA includes:

* Demographic characteristics like age, race, gender, and veteran status;
* Length of time homeless and patterns of system use;
* Information specific to populations whose needs and/or eligibility for services may differ from the broader homeless population, such as veterans, people and households experiencing chronic homelessness, and others; and
* Housing outcomes for those who exit the homeless services system.

The LSA also incorporates follow-up reporting on households and populations who exited the system in three discrete periods: two years prior to the report period, one year prior to the report period, and the first six months of the report period. This includes:

* Patterns of system use prior to exit;
* Destination types; and,
* For those who were served again later by continuum projects, lengths of time between exit and re-engagement or returns to homelessness.

## LSA Upload for CoCs

CoCs collect information about continuum homeless providers and the adults and children that they serve in community-based Homeless Management Information System (HMIS) database applications. Annually, the CoCs use the HMIS to produce the LSA upload file and submit it to HUD via the Homelessness Data Exchange 2.0 (HDX 2.0), a HUD website. The LSA upload is made up of ten files of CSV (comma-separated values) data in a compressed folder containing:

* Five “tables” of aggregate report data – counts of people and households grouped by combinations of values in every table column – in LSA CSV files which must be produced by an HMIS application; and
* Five “tables” of HMIS project descriptor data for relevant projects exported in the existing standard HMIS CSV data exchange format.

The HDX 2.0 uses the data in these files to produce readable display tables for HUD researchers and community users.

Detailed descriptions of the five LSA CSV files and parameters for export of project descriptor data are in [Section 3](#_HDX_2.0_HMIS).

## About This Document

### Intended Audience

This document is intended for software and database developers who produce HMIS reporting and are familiar with relational database concepts, Structured Query Language (SQL), as well as other HMIS technical documentation, particularly the HMIS Data Dictionary and the HMIS CSV Format. The document may also be useful to expert-level HMIS system administrators interested in further understanding LSA logic, how HDX 2.0 uses uploaded data to produce report output, or in using the LSA files exported from HMIS to develop custom local reports.

### Purpose and Scope

The primary purpose of this document is to define LSA business logic and programming specifications for:

* Selection of project descriptor data for export
* Identification of client cohorts, household types, and special populations included in the LSA based on HMIS data
* Grouping clients and households into reporting categories
* Producing and populating LSA CSV files
* Validating LSA CSV files

### Structure and Content

**Section 1: Introduction** (this section) outlines general concepts related to the LSA and this document.

**Section 2:** **LSA Data Universe** describes LSA report parameters, the HMIS data elements that are referenced in the business logic, and the four cohorts of clients that are included in the analysis.

**Section 3: LSA CSV Upload Files** describes each of the CSV files that are included in the upload. There are five CSV files specific to the LSA:

* LSAReport.csv
* LSAHousehold.csv
* LSAPerson.csv
* LSAExit.csv
* LSACalculated.csv

The LSA upload also includes five CSV files of Project Descriptor Data Elements (PDDEs) defined in the HMIS CSV Specifications:

* Organization.csv
* Project.csv
* Funder.csv
* ProjectCoC.csv
* Inventory.csv

**Sections 4 through 10: HMIS Business Logic** provides an order of operations for the production of the columns in the CSV files and detailed business logic for each step of the process.

### Companion Documents

**The following companion documents are available on the HUD Exchange:**

### External References

This document is comprehensive with respect to the business logic for the LSA upload, but additional references are indicated below. The short-hand terms used to refer to each document are in parentheses following the formal names and are hyperlinked to the documents online.

**FY 2020 HMIS Data Standards: Data Dictionary** ([Dictionary](https://files.hudexchange.info/resources/documents/HMIS-Data-Dictionary.pdf)) – – The Dictionary defines federal data collection requirements for HMIS applications; the version referenced has an effective date of October 1, 2019.

**FY 2020 HMIS Data Standards Logical Model** ([HMIS Logical](http://www.hudhdx.info/Resources/Vendors/HMIS_2020_Model_v1_4.png) Model) – The HMIS Logical Model illustrates the relationships between HMIS data elements. Descriptions of business logic in this document are based on the assumption that those relationships are also present in HMIS applications. A complete list of the HMIS data elements and fields relevant to the LSA upload is included in Section 2, LSA Data Universe.

**FY 2020 HMIS CSV Format Specifications v1.6** ([HMIS CSV](http://www.hudhdx.info/Resources/Vendors/HMIS%20CSV%20Specifications%20FY2020%20v1.6.pdf)) – Descriptions of LSA business logic reference HMIS fields using the column names of the HMIS CSV.

**Notice for Housing Inventory Count (HIC) and Point-in-Time (PIT) Data Collection for Continuum of Care (CoC) Program and the Emergency Solutions Grants (ESG) Program** ([HIC/PIT Notice](https://files.hudexchange.info/resources/documents/Notice-CPD-18-08-2019-HIC-PIT-Data-Collection-Notice.pdf))

### Style Notes

* Report parameters are underlined: ReportCoC, ReportStart, and ReportEnd.
* HMIS data element names include the element number and name and are italicized: e.g., *2.07 Bed and Unit Inventory* and *3.917A Prior Living Situation.*
* References to any one field of an HMIS data element are italicized and use HMIS CSV field names: e.g., *BedInventory* and *DateToStreetESSH.* A crosswalk of Dictionary field labels and HMIS CSV field names is included in section [2.2 HMIS Data Elements](#_HMIS_Data_Elements).
* References to LSA CSV columns are in bold: e.g., **RowTotal** and **PSHHousedDays.**

## Definitions/Acronyms

The definitions here are intended to serve as a general reference and are not comprehensive with respect to business logic, which is detailed in later sections.

**AO** – Adult-only household; a household in which all household members have valid dates of birth and are age 18 or older.

**AC** – Adult and child household; a household in which at least one household member is age 18 or older and at least one household member is age 17 or younger and both have valid dates of birth; may include household members without valid dates of birth.

**Between** – When used to describe business logic, *between* includes the values used in the description. For example, the report start date and the report end date are both “between ReportStart and ReportEnd.”

**CO** – Child-only household; a household in which all household members have valid dates of birth and are age 17 or younger.

**Cohort** – A group of clients who meet the criteria for inclusion in reporting in a specific timeframe. See also “Exit Cohorts."

**Cohort period** – The period of time that defines a cohort (e.g. “the first six months of the report period.”)

**Continuous** (in reference to a period of homelessness or enrollment) – A period in which relevant system use for a given client is documented in HMIS and is uninterrupted by any period of seven or more contiguous days of a permanently housed situation, no documented system use, or a combination of those.

**Enrollment** – A period of time in which a client receives services from a given project, beginning with the *Project Start Date* recorded in HMIS and ending on the *Project Exit Date*.

**ES** – Emergency shelter projects. Demographics for clients served in ES, SH, and TH are reported in a single ES/SH/TH (or EST) project group. ES clients are considered to be experiencing homelessness while enrolled; any date between ES project entry and the day prior to exit is included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness *as long as there is no conflicting data that identifies the client as enrolled in TH or housed in RRH/PSH*.

**EST** or **ES/SH/TH** – Emergency shelter, safe haven, and/or transitional housing projects; i.e., residential project types in which all clients are homeless while enrolled. Demographics for clients served in these three project types are reported in the combined ES/SH/TH project group.

**Exit Cohorts** – Groups of households who exited from continuum projects and have no record of relevant system use in HMIS during the following 14 days. There are three exit cohort periods – and thus three exit cohorts – included in the LSA.

**HIC** – Housing Inventory Count; an annual continuum-level report to HUD listing continuum ES, SH, TH, RRH, PSH, and OPH projects and associated bed and unit inventory dedicated to serving people experiencing homelessness.

**HDX** – Homelessness Data Exchange; a HUD website that accepts and stores CoC-level reports, including the HIC, the PIT, the SPM report, and the LSA upload. HIC, PIT, and SPM reports are collected and stored in the HDX 1.0 and the LSA is collected and stored in the HDX 2.0.

**Informational value** – For HMIS data elements, a response category defined by the HMIS Data Standards that provides the information collected in a given field, e.g. ‘Yes’ and ‘No’ are both informational values for *3.07 Veteran Status*. ‘Client doesn’t know (8), ‘Client refused’ (9), and ‘Data not collected (99) are not informational; they are explanations for missing data. Response categories ‘Other’ (17) and ‘No exit interview completed’ (30) for *3.12 Destination* are also not informational.

**LOTH** – Length of time homeless. LOTH reporting includes counts of households grouped by total number of days in ES, SH, and TH projects, in RRH and PSH projects prior to moving into housing, and in ES/SH or on the street prior to project entry as identified in *3.917 Living Situation*. Although it is not, by definition, ‘homeless,’ time housed in RRH is also included in LOTH output.

**OPH** – Permanent housing project types other than PSH or RRH; specifically, projects typed in HMIS as *PH – Housing Only* (9) or *PH – Housing with Services (no disability required for entry)* (10). With the exception of project descriptor data, data associated with OPH projects is specifically excluded from the LSA.

**PIT Count** – Point in Time Count; a continuum-level report to HUD, required at least every two years, that reports on the total number of people experiencing sheltered and unsheltered homelessness in the geographic area of the continuum on a single night, usually on a night in the last 10 calendar days of January.

**Population** – As used in this document, a group of people in households with one or more members who have specific characteristics that may indicate that the households have needs and/or eligibility for services that differ from the broader homeless population; for example, households fleeing domestic violence or unaccompanied children. The LSA upload includes population-specific output.

**Project group** – ES, SH, and TH (combined), RRH (only), and PSH (only). Demographics reporting for the active cohort is produced separately for each of these three project groups.

**PSH** – Permanent supportive housing for formerly homeless people.

* PSH clients who are homeless at project entry based on *3.917 Living Situation* are considered to be experiencing homelessness until a documented *3.20 Housing Move-In Date* or exit, whichever comes first.
* For clients who were in ES/SH or on the street at project entry, all time between *Approximate Date Started* and move-in is counted in determining chronic homelessness.
* In general, a client may not be counted as experiencing homeless on any date between PSH move-in and the day prior to exit, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

**Report period** – The period of time between the report start date and report end date report parameters.

**RRH** – Rapid Re-Housing projects.

* RRH clients who are homeless at project entry based on *3.917 Living Situation* are considered to be experiencing homelessness until a documented *3.20 Housing Move-In Date* or exit, whichever comes first.
* For clients who were in ES/SH or on the street at project entry, all time between *Approximate Date Started* and move-in is counted in determining chronic homelessness.
* A client may not be counted as experiencing homeless on any date between RRH move-in and the day prior to exit, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

**SH** – Safe Haven projects. Demographics for clients served in ES, SH, and TH are reported in a single ES/SH/TH (or EST) project group. All SH clients are considered to be experiencing homelessness while enrolled; any date between SH project entry and the day prior to exit is included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness *as long as there is no conflicting enrollment data that identifies the client as enrolled in TH or housed in RRH/PSH*.

**SPM** – HUD’s System Performance Measures report, a CoC-level report uploaded to or manually entered into the HDX.

**System path** – The distinct combination of project types in which a household has been enrolled during any continuous period of system use/homelessness that overlaps with the report period, including enrollments prior to the start of the report period.

**TH** – Transitional housing for homeless people. Demographics for clients served in ES, SH, and TH clients are reported in a single ES/SH/TH (or EST) project group. All TH clients are considered to be experiencing homelessness while enrolled; however, no date between TH project entry and the day prior to exit may be included in counts of days in ES/SH or on the street for purposes of determining chronic homelessness, regardless of other conflicting enrollment data. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

**UN** – Unknown household type; includes at least one member without a valid date of birth and does not include both an adult and a child. Data related to people in households of unknown type is included in HMIS output for the LSA and included in total counts of people served regardless of household type.

# LSA Data Universe

This section describes the report parameters of the LSA, the HMIS data elements upon which it relies, and the four separate cohorts of clients included.

## Report Parameters

The LSA is based on the following user-defined parameters:

**Report Start Date** – For submission to HUD, this must be the first day (October 1) of the fiscal year for which the LSA is being produced.

* It must be possible for a user to select any date on or after October 1, 2015. Note that the report includes data from prior to this date.
* ReportStart is used to refer to this parameter.

**Report End Date** - For submission to HUD, this must be the last day (September 30) of the fiscal year for which the LSA is being produced.

* It must be possible for a user to select any date on or after ReportStart. However, since the LSA is resource-intensive, HMIS vendors may limit the ability of users to specify date ranges beyond one year in length.
* ReportEnd, in the context of this document, refers to this parameter.
* The phrase “report period,” in the context of this document, refers to the period between ReportStart and ReportEnd.

**CoC Code** – The HUD-assigned code identifying the continuum for which the LSA is being produced. Users must be able to select one CoC from a drop-down list that includes all *2.03 Continuum of Care Codes* for which they are authorized to generate the LSA. Output must be limited to enrollment data for households served in that CoC based on data element *3.16 Client Location*.

* ReportCoC is used to refer to this parameter.

**Project(s)** – Users should be able to generate a systemwide LSA for clients served in all relevant projects or a project-focused LSA limited to clients served in a subset of projects specified by the user. The only difference is in the identification of relevant clients; aspects of the LSA that report on previous system use or return to the system after an exit will use systemwide data for clients included in reporting.

* **Systemwide LSA** (all projects) – For submission to HUD, LSA reporting procedures must identify projects relevant to the LSA based on project types and business logic defined by this document without requiring the user to select individual projects.
* **Project-Focused LSA** (selected projects) – Users must be able to specify a subset of one or more HMIS projects such that clients included in reporting are limited to those served in the selected projects. Project types are integral to LSA business logic; only ES, SH, TH, RRH, and PSH projects should be available to select as parameters.
  + lsa\_Project.*ProjectID* is used to refer to projects when used as a report parameter.

## HMIS Data Elements

### Data Dictionary Fields and Reference Names

The LSA data universe – the complete set of HMIS records used to produce the LSA report – is made up of a subset of HMIS data elements and fields.

The export of HMIS CSV files involves all Project Descriptor Data Elements (PDDEs) for the following project types:

| HMIS Value | Project Type |
| --- | --- |
| 1 | Emergency Shelter |
| 2 | Transitional Housing |
| 3 | PH - Permanent Supportive Housing |
| 8 | Safe Haven |
| 9 | PH – Housing Only |
| 10 | PH – Housing with Services (no disability required for entry) |
| 13 | PH - Rapid Re-Housing |

Reporting in the LSA CSV files is based on PDDEs, Universal Data Elements (UDEs), and one Program-Specific Data Element.

Descriptions of business logic refer to individual components of the data elements – i.e., fields – using the corresponding HMIS CSV column names rather than full Dictionary labels.

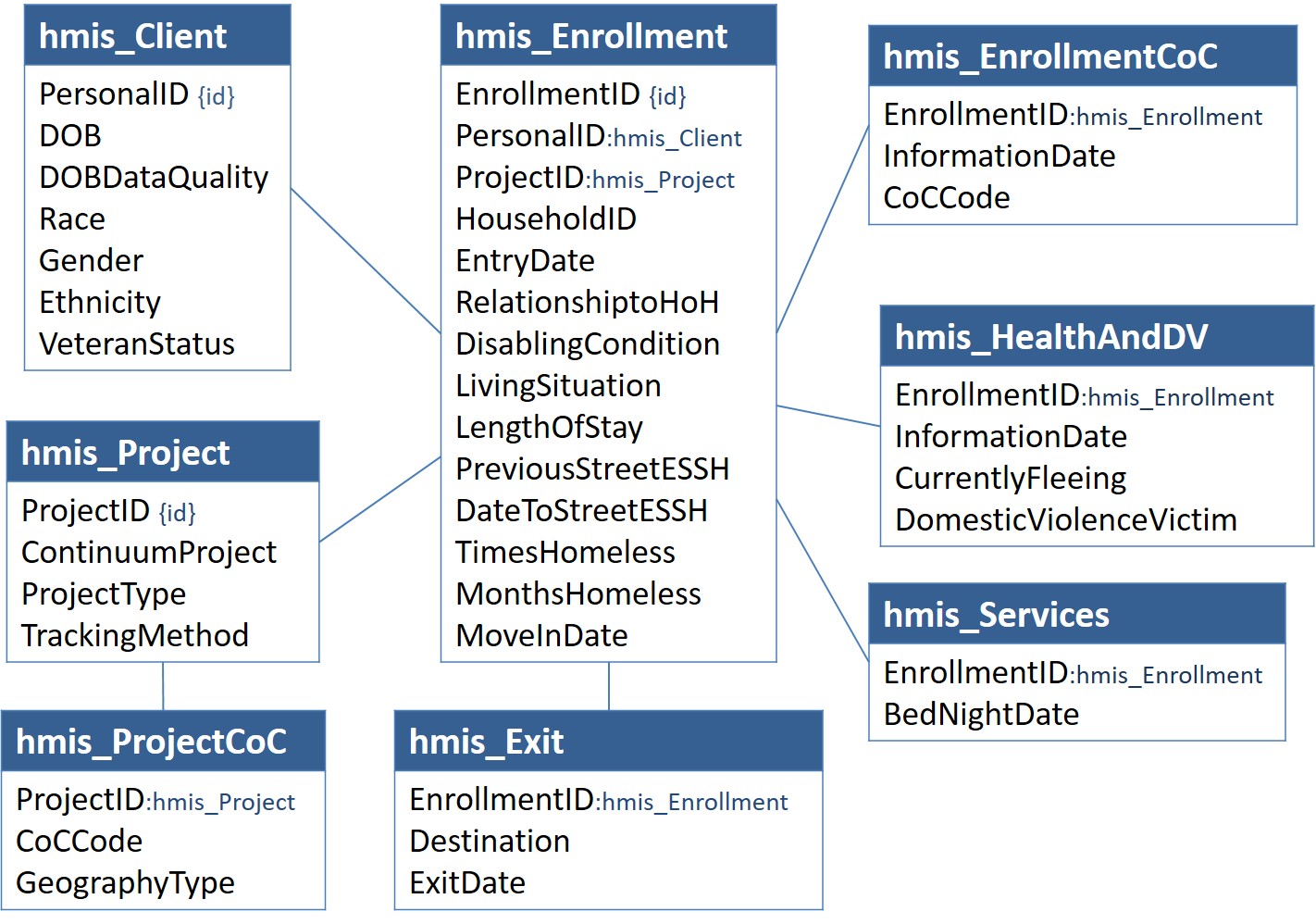
The data elements and fields used in the LSA are listed in the table below:

* The first column is the HMIS Data Standards data element/field number;
* The second column lists the field label defined by the HMIS Data Dictionary; and
* The third column lists the name used in this document to refer to the field.

| DS# | Dictionary Field Label | Reference Name |
| --- | --- | --- |
| 2.02.1 | **Project ID** | *ProjectID* |
| 2.02.5 | **Continuum Project** | *ContinuumProject* |
| 2.02.6 | **Project Type** | *ProjectType* |
| 2.02.C | **Emergency Shelter Tracking Method** | *TrackingMethod* |
| 2.03.1 | **Continuum Code – HUD-Assigned CoC Codes for the Project Location** | Project.*CoCCode* |
| 2.03.8 | **Geography Type** | *Geography* |
| 5.08 | **Personal Identifier** | *PersonalID* |
| 3.03.1 | **Date of Birth** | *DOB* |
| 3.03.2 | **DOB Data Quality** | *DOBDataQuality* |
| 3.04.1 | **Race** | *Race* |
| 3.05.1 | **Ethnicity** | *Ethnicity* |
| 3.06.1 | **Gender** | *Gender* |
| 3.07.1 | **Veteran Status** | *VeteranStatus* |
| 5.06 | **Enrollment Identifier** | *EnrollmentID* |
| 5.05 | **Project Identifier** | *ProjectID* |
| 5.09 | **Household Identifier** | *HouseholdID* |
| 3.10.1 | **Project Start Date** | *EntryDate* |
| 3.16.1 | **Information Date** | *InformationDate* |
| 3.16.2 | **HUD Assigned CoC Code for the Client’s Location** | EnrollmentCoC.*CoCCode* |
| 3.917A.1 | **Type of Residence** | *LivingSituation* |
| 3.917A.2 | **Length of Stay in Prior Living Situation** | *LengthOfStay* |
| 3.917A.3 | **Approximate Date Homelessness Started** | *DateToStreetESSH* |
| 3.917A.4 | **(Regardless of where they stayed last night) Number of times the client has been on the streets, in ES, or SH in the past three years including today** | *TimesHomelessPastThreeYears* |
| 3.917A.5 | **Total number of months homeless on the street, in ES, or SH in the past three years** | *MonthsHomelessPastThreeYears* |
| 3.917B.1 | **Type of Residence** | *LivingSituation* |
| 3.917B.2 | **Length of Stay in Prior Living Situation[[1]](#footnote-2)** | *LengthOfStay* |
| 3.917B.2C | **On the Night Before Did You Stay on the Streets, ES, or SH?** | *PreviousStreetESSH* |
| 3.917B.3 | **Approximate Date Homelessness Started** | *DateToStreetESSH* |
| 3.917B.4 | **Number of times the client has been on the streets, in ES, or SH in the past three years including today** | *TimesHomelessPastThreeYears* |
| 3.917B.5 | **Total number of months homeless on the street, in ES, or SH in the past three years** | *MonthsHomelessPastThreeYears* |
| 3.15.1 | **Relationship to Head of Household** | *RelationshipToHoH* |
| 3.08.1 | **Disabling Condition** | *DisablingCondition* |
| 4.11.1 | **Information Date** | *InformationDate* |
| 4.11.2 | **Domestic Violence Victim/Survivor** | *DomesticViolenceVictim* |
| 4.11.B | **Are You Currently Fleeing?** | *CurrentlyFleeing* |
| 3.20.1 | **Housing Move-In Date** | *MoveInDate* |
| 4.14.1 | **Bed-Night Date** | *BedNightDate* |
| 3.11.1 | **Project Exit Date** | *ExitDate* |
| 3.12.1 | **Destination** | *Destination* |

### HMIS Data Requirements and Assumptions

**HMIS data are collected and stored in a manner that is consistent with the hierarchy and relationships between data elements defined by the HMIS Logical Model and can be exported in the structure defined by the HMIS CSV Format Specifications.** The graphic below is a simplified illustration of the relationships between HMIS data elements used in the LSA and as they are expected to exist in the HMIS.



**The HMIS Lead must identify and merge duplicate records for individual clients prior to generating the LSA.** Theproduction of an unduplicated count of people experiencing homelessness is a fundamental purpose of HMIS. As such, it has been a requirement of every version of the HMIS Data Standards since March 2010 that an HMIS application must have functionality that allows the HMIS Lead to de-duplicate records with different *PersonalID*s for the same client. For the LSA, it is particularly critical that HMIS Leads *utilize* this functionality; it is not otherwise possible to produce accurate longitudinal and/or systemwide reporting.

**Only data associated with valid enrollments in continuum projects is included in the LSA.** A valid enrollment has, at a minimum, an *EntryDate*, a *PersonalID*, a *ProjectID*, a *HouseholdID*, and a valid *RelationshipToHoH*, and an *EnrollmentCoC* associated with the head of household’s *EnrollmentID*. Data not associated with a valid enrollment – including bed nights in systems that allow users to create a record of a bednight without a valid enrollment – is excluded from the LSA.

**For any given *HouseholdID*, there must be exactly one enrollment record where *RelationshipToHoH* = 1**. If the HMIS allows users to create enrollments with no designated HoH and/or with more than one designated HoH:

* Those enrollments will be excluded from LSA reporting.
* A count of enrollments with <> 1 HoH will be included in LSAReport.**NotOneHoH**.
* CoCs may upload LSA file sets where **NotOneHoH** > 0 to HDX 2.0 for local use and review.
* CoCs may not submit LSA file sets where **NotOneHoH1** or **NotOneHoH3** > 0 to HUD for use in the AHAR. Invalid HoH data must be corrected and a new LSA file set must be uploaded.

**A head of household must be present for the duration of a project stay.** If the HMIS allows users to enter household member enrollments with entry dates prior to that of the HoH or with exit dates after that of the HoH:

* For household member enrollments with entry dates before the HoH, LSA reporting procedures will use the HoH *EntryDate*.
* For household member enrollments that remain open after the HoH has exited, reporting procedures will use the HoH *ExitDate*.

**An *ExitDate* must be at least one day later than the *EntryDate*.** Enrollments with a duration of less than a day will be excluded from LSA reporting.

**Households with RRH enrollments in the report period where *MoveInDate* is equal to the *ExitDate* will be counted as housed in RRH.** It is consistent with the RRH model that a project might provide services and/or financial assistance to assist a household in obtaining permanent housing that do not continue past the date that the household moves in. As such, a household is considered housed in RRH on their *MoveInDate* even if it coincides with the *ExitDate*. This is the only circumstance under which a bed night is counted for an *ExitDate*.

**Households with PSH enrollments in the report period where *MoveInDate* is equal to the *ExitDate* will not be counted as housed in PSH.** It is not consistent with the PSH model, which includes long-term residential services, that a household could be considered housed by the project with an exit on the move-in date.

**For night-by-night ES, any *ExitDate* must be one day after the last recorded bed night.** For any exit where there is not a record of a bed night for the preceding date:

* LSA reporting procedures will use an effective exit date of [last bed night + 1 day].
* *Destination* willbe reported as unknown, if applicable.

**Night-by-night ES clients are to be auto-exited after an extended period without a bed night.** For any night-by-night ES enrollment where there is no record of an exit and there is no record of a bed night in the 90 days ending on ReportEnd:

* LSA reporting procedures will use an effective exit date of [last bed night + 1 day].
* *Destination* willbe reported as unknown, if applicable.

**Enrollments are effectively terminated when a project ceases operation.** If there are enrollments that remain open after a project’s *OperatingEndDate* – i.e., do not have an exit date or have an exit date that is later than the project end date:

* LSA reporting procedures will use the operating end date as the effective exit date.
* *Destination* willbe reported as unknown, if applicable.

## Cohorts

A ‘cohort’ refers to a group of clients who meet specific criteria and were served in a given time frame. There are four separate LSA cohorts.

### Active Cohort (LSAPerson and LSAHousehold)

Clients active in the LSA report period are referred to as the ‘active cohort’ – clients or households served in continuum ES, SH, TH, RRH, and PSH projects at any time during the report period.

Only data associated with enrollments in those five project types is used in any aspect of reporting on the active cohort.

The HMIS data universe for the active cohort includes:

* Client-level data, e.g., date of birth, gender, and ethnicity.
* Enrollment-level data for active enrollments, e.g., entry/exit dates, living situation, and disabling condition.
* For adults and heads of household, data associated with inactive (i.e., with exits prior to the report period) enrollments for at least three years prior to the client’s last active date in the report period; this is relevant to chronic homelessness and, for heads of household only, system path and use.
* For people served with heads of household on enrollments prior to the report period (even people who were not active in the report period), date of birth and entry/exit dates to determine household type for previous enrollments.

### Exit Cohorts (LSAExit)

Exit cohort reporting focuses on subsequent system use data (if any) for households who:

* Exited from a continuum ES, SH, TH, RRH, or PSH project during three cohort time periods; and
* Were not enrolled in any continuum ES, SH, TH, RRH, or PSH project in the 14 days after exit.

The three individual exit cohorts are based on the timeframe of the exit:

* **Exit Cohort 0** exited in the first six months of the report period;
* **Exit Cohort – 1** exited in the year beginning one year prior to ReportStart; and
* **Exit Cohort – 2** exited in the year beginning two years prior to ReportStart.

These three cohorts are not mutually exclusive with each other, nor with the active cohort; a person may be included in any or all of them.

The head of household – the cohort member – is a proxy for counting households in the LSAExit.csv file of the upload. Only heads of household are included in those counts; however, records for all household members are part of the data universe because they are needed to determine household type, household composition, and to identify special populations.

The HMIS data universe for exit cohorts includes:

* Client- and enrollment-level data for the head of household;
* Enrollment-level data associated with qualifying exits, e.g., entry/exit dates, living situation, disabling condition, destination, etc.
* For people served with cohort members (heads of household), data related to household type (date of birth) and population identifiers (disabling condition, etc.).

# HDX 2.0 Upload

The Longitudinal Systems Analysis (LSA) upload is a .zip file containing a total of 10 CSV files generated by the HMIS application. The first five files are specific to the LSA; they are described in brief in this section.

* LSAReport.csv
* LSAHousehold.csv
* LSAPerson.csv
* LSAExit.csv
* LSACalculated.csv

The remaining files contain HMIS project descriptor data in file structures defined by the HMIS CSV Specifications:

* Organization.csv
* Project.csv
* Funder.csv
* Inventory.csv
* Geography.csv

A separate data dictionary with a complete list of the columns and values associated with each of these files is available in the LSA tool kit as an Excel workbook.

## LSAReport.csv

LSAReport contains 61 columns, including information related to:

* The date that the LSA was generated and the HMIS application that produced it;
* Report parameters; and
* HMIS data quality.

The HDX will use these data to process the upload file, and may flag uploads with unusually low data quality in the HMIS fields included in this file. The columns are listed and described in the LSA Data Dictionary. More details about the business logic and order of operations to create this file are found in Sections 4 through 10.

## LSAHousehold.csv

LSAHousehold contains 44 columns of information, plus the **ReportID**. Columns include the following types of data:

* Identifiers for project types and populations in which each household was served.
* Demographics including living situation, destination, household composition, project geography, and system engagement.
* Lengths of time homeless (LOTH) and enrolled in RRH/PSH during the report period and any continuous episode of homelessness prior to ReportStart that overlaps with the report period.

Rows represent specific combinations of these data points. Each active household is counted in one row; the sum of **RowTotal**values in the file is equal to the total number of households active at any point during the report period.

It is critical that all values in the **RowTotal** column are integers > 0. When each row includes a count of one or more households represented by the distinct combination of column values, the total number of rows– is limited to the number of active households. However, the number of possible distinct combinations of column values is massive and including rows that do not represent any households could result in unmanageable file sizes.

The columns in this file are listed with the appropriate integer values and associated category descriptions in the LSA Dictionary. Detailed descriptions of the business logic and order of operations to create this file are found in Sections 4 through 10.

## LSAPerson.csv

LSAPerson contains 54 columns of information, plus the **ReportID**. Columns include the following types of data:

* Identifiers for project types, household types, and populations in which clients were served.
* Age categories for all clients; age is the only demographic reported for children who are not heads of household.
* Demographics reported for adults and heads of household, including gender, race, ethnicity, veteran status, disability status, and domestic violence status.

Rows represent specific combinations of these data points. Each active client is counted in one row; the sum of **RowTotal**values in the file is equal to the total number of active clients in the report period. It is critical that all values in this column are integers > 0. The largest possible number of rows – when each row includes a count of one or more people represented by the distinct combination of column values – is limited to the number of active clients. However, there are billions of possible combinations of column values, and including rows that that do not represent any clients would result in files of unmanageable size.

The columns in this file are listed with the appropriate integer values and associated category descriptions in the LSA Dictionary. Detailed descriptions of the business logic and order of operations to create this file are found in Sections 4 through 10.

## LSAExit.csv

LSAExit contains 16 columns of information, plus the **ReportID**. The file identifies households with system exits – i.e., exits from a continuum project followed by at least two weeks without an active enrollment – in three distinct periods:

* Cohort -2 – Begins two years prior to the report start date and ends two years prior to the end date.
* Cohort -1– Begins one year prior to the report start date and ends one year prior to the end date.
* Cohort 0 – Begins on the report start date, If the report period is at least six months, the cohort period ends at six months; otherwise, the cohort period is the same as the report period.

Columns include the following types of data:

* Identifiers for project types, household types, and populations in which clients were served;
* Destination types; and
* For clients that returned to the homeless continuum, length of time to return and project type to which the client returned.

Rows represent specific combinations of these data points. Unlike LSAHousehold, LSAExit may include more than one row for any given household if the household has qualifying exits in more than one cohort period. Each household is counted in one row for each exit cohort in which they occur. The sum of **RowTotal** values in the file, grouped by Cohort, is equal to the total number of households in each of the respective cohorts. It is critical that all values in this column are integers > 0. The largest possible number of rows – when each row includes a count of one or more households represented by the distinct combination of column values – is limited to the number of active households. However, there are billions of possible distinct combinations of column values and including rows that do not represent any households could result in files of unmanageable size.

The columns in this file are listed with the appropriate integer values and associated category descriptions in the LSA Dictionary. Detailed descriptions of the business logic and order of operations to create this file are found in Sections 4 through 10.

## LSACalculated.csv

This file is used to upload calculated values for report output that cannot be derived from the aggregate data. It is used to populate columns that report on average number of days for all household types and populations in:

* System Use – Length of Time Homeless
* System Use – Cumulative Length of Time in PSH
* System Use – Length of Time in RRH Projects
* Returns – Days to Return/Re-engage by Exit Destination
* Days to Return/Re-engage by Last Project Type
* Days to Return/Re-engage by System Path
* Days to Return/Re-engage by Population

It is also used for counts of persons, households, and bednights, including:

* Project-level counts of households and clients active at any point in the report period and on four specific dates during the report period; and
* Project-level counts of total bednights in the report period.

The **Value** column holds the average or count. Other columns identify the report row, household type, population, etc. As in LSAHousehold, LSAPerson, and LSAExit, counts are only included if they are greater than zero, but the **Value** for an average may be zero.

The columns in this file are listed with the appropriate integer values and associated category descriptions in the LSA Dictionary. More details about the business logic and order of operations to create this file are found in Sections 4 through 10.

# HMIS Business Logic: Report Parameters and Project Data

There is an inherent order of operations required to construct LSA output from HMIS data. For example, household members’ ages must be calculated in order to determine household types for individual HMIS *HouseholdIDs*. Household types are required to identify distinct combinations of head of household and household type, which is the basis for counting individual households throughout the LSA.

In this document, LSA business logic is described as a series of discrete steps, each with a specific result. Results are cumulative; the ‘output’ of earlier steps serves as input for later steps. The sequence of steps is consistent with the order of operations, but in practice, many could be combined and executed simultaneously. They are separate here to clarify the business logic associated with individual columns.

To avoid repetition, simplify descriptions, and emphasize various aspects of the logic, several of these steps specify the creation of intermediate data constructs (tables) with column names that function as variables in later steps. There is no requirement to use the process or the constructs described here as long as output is consistent with the logic described here.

A companion document titled *LSA Programming Specifications: Sample Code* may help clarify and illustrate the business logic described in this document. It was written during the development of these specifications and is being made available as a reference. There is no requirement to use the code.

## Get Report Parameters for LSAReport

The content of LSA CSV files is interdependent; any change to HMIS data that would impact one file has the potential to impact all of them. As such, it is critical that all output is generated in a single process.

### Relevant Data

#### Target

|  |
| --- |
| LSAReport |
| ReportID |
| ReportDate |
| ReportStart |
| ReportEnd |
| ReportCoC |
| SoftwareVendor |
| SoftwareName |
| VendorContact |
| VendorEmail |
| LSAScope |

### Logic

#### ReportID

**ReportID** is a system-generated integer that distinctly identifies an instance of LSA output and is repeated in each of the CSV files to confirm that they were produced together.

#### ReportStart, ReportEnd, and ReportCoC

ReportStart, ReportEnd, and ReportCoC are user-defined report parameters integral to the business logic of the LSA. They are included in LSAReport for upload to the HDX.

#### LSAScope

LSAScope is a user-selected report parameter. If a user elects to generate a standard systemwide LSA, set the value of **LSAScope** to 1.

If a user elects to generate the LSA for a user-selected subset of projects, set the value of **LSAScope** to 2. When this occurs, the *ProjectID*s of the selected projects are also a parameter; it is applied to the selection of project records for export in the next step.

| LSAScope Values | Category |
| --- | --- |
| 1 | Systemwide |
| 2 | Project-focused |

#### SoftwareVendor and SoftwareName

**SoftwareVendor** and **SoftwareName** must be hard-coded to ensure that the values are consistent across all HMIS implementations.

Both of these columns are strings; they may not exceed 50 characters and may not include any of the following: < > [ ] { }.

#### VendorContact and VendorEmail

Vendors may elect to provide contact information or to populate these columns with ‘n/a.’ In either case, **VendorContact** and **VendorEmail** must be hard-coded by the vendor.

Both of these columns are strings; they may not exceed 50 characters and may not include any of the following: < > [ ] { }.

## Get Project.csv Records / lsa\_Project

Records exported to Project.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic in subsequent steps is dependent on the identification of projects that meet the criteria for inclusion. References to lsa\_Project.*ProjectID* are to these projects; references to hmis\_Project records are to all projects in HMIS.

### Relevant Data

#### Source

|  |
| --- |
| **hmis\_Project** |
| (all columns – see below) |
| **hmis\_ProjectCoC** |
| CoCCode |

#### Target

|  |  |
| --- | --- |
| lsa\_Project | Column Description |
| ProjectID | (See HMIS CSV documentation) |
| OrganizationID | (See HMIS CSV documentation) |
| ProjectName | Truncate HMIS value in export if >50 characters |
| ProjectCommonName | n/a – will not be imported |
| OperatingStartDate | (See HMIS CSV documentation) |
| OperatingEndDate | (See HMIS CSV documentation) |
| ContinuumProject | (See HMIS CSV documentation) |
| ProjectType | (See HMIS CSV documentation) |
| HousingType | (See HMIS CSV documentation) |
| ResidentialAffiliation | NULL |
| TrackingMethod | If **ProjectType** = 1, value must be 0 or 3;  If **ProjectType** <> 1, must be NULL |
| HMISParticipatingProject | (See HMIS CSV documentation) |
| TargetPopulation | (See HMIS CSV documentation) |
| PITCount | n/a – will not be imported |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a – will not be imported |
| DateDeleted | NULL |
| ExportID | Must match **ReportID** in LSAReport.csv |

### Logic

#### Systemwide LSA

When the LSA is being generated for all relevant projects systemwide, export records for projects where:

* *OperatingEndDate* is NULL or >= ReportStart
* *ContinuumProject* = Yes (1)
* ProjectCoC.*CoCCode* = ReportCoC
* *ProjectType* is ES (1), SH (8), TH (2), RRH (13), PSH (3), or OPH (9 or 10)
* *DateDeleted* is NULL

All project records that meet the criteria above should be included, including projects that do not participate in HMIS.

The export of PDDE data for a systemwide LSA includes records for permanent housing project types ‘PH – Housing Only’ (9) and ‘PH – Housing with Services (no disability required for entry)’ (10). This is the only context in which data associated with projects of these types are relevant to the LSA.

#### Project-Focused LSA

If the LSA is being generated for a subset of projects, export records for projects where:

* *OperatingEndDate* is NULL or >= ReportStart
* ProjectCoC.*CoCCode* = ReportCoC
* *ProjectID* is in [list of user-selected *ProjectID*s]
  + Section 2.1 requires that the projects available to a user for selection when entering report parameters must be limited to *ProjectType*s ES (1), SH (8), TH (2), RRH (13), and PSH (3), so records for other project types are never included when **LSAScope** = 2.
* *DateDeleted* is NULL

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**ProjectCommonName**, **PITCount**, and **UserID** may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

## Get Organization.csv Records / lsa\_Organization

Records exported to Organization.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Organization data beyond the export of records.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| OrganizationID |
| **hmis\_Organization** |
| (all columns – see below) |

#### Target

|  |  |
| --- | --- |
| lsa\_Organization | Column Description |
| OrganizationID | (See HMIS CSV documentation) |
| OrganizationName | Truncate HMIS value in export if >50 characters |
| VictimServicesProvider | (See HMIS CSV documentation) |
| OrganizationCommonName | n/a - will not be imported |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be exactly one record for every *OrganizationID* included in Project.csv.

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**OrganizationCommonName**and **UserID**may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

## Get Funder.csv Records / lsa\_Funder

Records exported to Funder.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Funder data beyond the export of records.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| **ProjectID** |
| **hmis\_Funder** |
| (all columns – see below) |

#### Target

|  |  |
| --- | --- |
| lsa\_Funder | Column Description |
| FunderID | (See HMIS CSV documentation) |
| ProjectID | (See HMIS CSV documentation) |
| Funder | (See HMIS CSV documentation) |
| OtherFunder | (See HMIS CSV documentation) |
| GrantID | n/a - will not be imported |
| StartDate | (See HMIS CSV documentation) |
| EndDate | (See HMIS CSV documentation) |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | (See HMIS CSV documentation) |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be at least one Funder record for every **ProjectID** included in Project.csv. Export records where:

* *EndDate* is NULL or *EndDate* >= ReportStart
* *DateDeleted* is NULL

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**GrantID**and **UserID**may be exported as NULL; regardless of their values, they will not be imported into the HDX 2.0.

## Get ProjectCoC.csv Records / lsa\_ProjectCoC

Records exported to ProjectCoC.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic uses ProjectCoC data to:

* Select project records for export to Project.csv; and
* Report on geography type for active households in LSAHousehold.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| ProjectID |
| **hmis\_ProjectCoC** |
| (all columns – see below) |

#### Target

|  |  |
| --- | --- |
| lsa\_ProjectCoC | Column Description |
| ProjectCoCID | (See HMIS CSV documentation) |
| ProjectID | (See HMIS CSV documentation) |
| CoCCode | (See HMIS CSV documentation) |
| Geocode | Not NULL. *Geocode* has a data type of string and must be exported as such / padded with double-quotes so that leading zeroes are not omitted. |
| Address1 | (See HMIS CSV documentation) |
| Address2 | (See HMIS CSV documentation) |
| City | (See HMIS CSV documentation) |
| State | (See HMIS CSV documentation) |
| ZIP | Not NULL. Note that *ZIP* has a data type of string and must be exported as such / padded with double-quotes so that leading zeroes are not omitted. If ZIP codes are collected with a four-digit suffix, only the first five digits should be exported. |
| GeographyType | In (1,2,3) |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be exactly one ProjectCoC record for every *ProjectID* included in Project.csv. Export only records where *CoCCode* = ReportCoC.

Populate **ExportID**with LSAReport.**ReportID***;* the data type for **ExportID**is a string, so **ReportID** must be converted appropriately.

**UserID**may be exported as NULL; regardless of value, it will not be imported into the HDX 2.0.

## Get Inventory.csv Records / lsa\_Inventory

Records exported to Inventory.csv are included in the LSA output and uploaded to HDX 2.0.

LSA business logic does not utilize Inventory data beyond the export of records.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| **ProjectID** |
| **hmis\_Inventory** |
| (all columns – see below) |

#### Target

|  |  |
| --- | --- |
| lsa\_Inventory | Column Description |
| InventoryID | (See HMIS CSV documentation) |
| ProjectID | (See HMIS CSV documentation) |
| CoCCode | (See HMIS CSV documentation) |
| HouseholdType | In (1,3,4) |
| Availability | NULL unless Project.*ProjectType* = 1; otherwise, in (1,2,3) |
| UnitInventory | (See HMIS CSV documentation) |
| BedInventory | (See HMIS CSV documentation) |
| CHVetBedInventory | (See HMIS CSV documentation) |
| YouthVetBedInventory | (See HMIS CSV documentation) |
| VetBedInventory | (See HMIS CSV documentation) |
| CHYouthBedInventory | (See HMIS CSV documentation) |
| YouthBedInventory | (See HMIS CSV documentation) |
| CHBedInventory | (See HMIS CSV documentation) |
| OtherBedInventory | (See HMIS CSV documentation) |
| ESBedType | NULL unless Project.*ProjectType* = 1; otherwise, in (1,2,3) |
| InventoryStartDate | < ReportEnd |
| InventoryEndDate | NULL or >= ReportStart |
| DateCreated | (See HMIS CSV documentation) |
| DateUpdated | (See HMIS CSV documentation) |
| UserID | n/a - will not be imported |
| DateDeleted | NULL |
| ExportID | Must match LSAReport.**ReportID** |

### Logic

There must be at least one Inventory record for every *ProjectID* included in Project.csv. Export all records where:

* *CoCCode =* ReportCoC
* *InventoryStartDate* < ReportEnd
* *InventoryEndDate* is NULL or >= ReportStart *DateDeleted* is NULL

Populate *ExportID* with LSAReport.**ReportID***;* the data type for *ExportID* is a string, so values must be padded with quotes.

*UserID* may be exported as NULL; regardless of its value, it will not be imported into the HDX 2.0.

# HMIS Business Logic: Values for LSAPerson

## Get Active HouseholdIDs (active\_Household)

References in subsequent sections to active\_Household.*HouseholdID* mean those HMIS *HouseholdIDs* associated with a head of household enrollment that meets the criteria for inclusion in LSA reporting as defined in this section.

Associated data for the enrollment that are relevant to business logic in subsequent sections – e.g., *ProjectType* and *CoCCode* – are also referenced as attributes of active\_Household, as are characteristics such at **HHType** (household type) that are set. These are listed under the definition of active\_Household below.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate (*DateProvided* where *RecordType* = 200) |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

|  |  |
| --- | --- |
| **active\_Household** | **Column Description** |
| **HouseholdID** | Distinct *HouseholdIDs* served in the report period. |
| **HoHID** | The distinct identifier for the head of household – i.e., the *PersonalID* from the enrollment associated with the *HouseholdID* where *RelationshipToHoH* = 1. |
| HHType | The household type, based on the ages of household members  See section [5.4 Set Household Type for Active HouseholdIDs](#_Toc29188104) |
| **ProjectID** | From hmis\_Enrollment |
| **ProjectType** | From lsa\_Project |
| **TrackingMethod** | From lsa\_Project |
| **OperatingEndDate** | From lsa\_Project |
| **EntryDate** | From hmis\_Enrollment |
| **MoveInDate** | From hmis\_Enrollment – the move-in date for RRH/PSH enrollments, which may differ from the recorded *MoveInDate* in HMIS. (See below.) |
| **ExitDate** | The effective *ExitDate* for the HoH enrollment, which may differ from the *ExitDate* recorded in hmis\_Exit. (See below.) |
| **LastBednight** | If *ProjectType* = 1 and *TrackingMethod* = 3, the latest *BedNightDate* for the HoH between ReportStart and ReportEnd from hmis\_Services |
| HHChronic | Identifies households with a chronically homeless HoH or adult  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |
| HHVet | Identifies households with one or more veteran adults  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |
| HHDisability | Identifies households with a disabled HoH or other adult  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |
| HHFleeingDV | Identifies households fleeing domestic violence  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |
| HHAdultAge | Identifies age-related populations (e.g., Senior 55+, Parenting Youth 18-24, Non-Veteran 25+)  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |
| HHParent | Identifies households where at least one household member has a *RelationshipToHoH* of ‘Child’ (2)  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |
| AC3Plus | Identifies AC households with 3 or more household members under 18  See section [5.18 Set Population Identifiers for Active HMIS Households](#_Set_Population_Identifiers_3) |

### Logic

#### Record Selection

Active *HouseholdID*s are those associated with enrollments that meet the following criteria.

* The *ProjectID* meets the selection criteria for lsa\_Project and *ProjectType* is not in (9,10):
  + Project.*ProjectType* in (1,2,3,8,13)
  + Project.*ContinuumProject* = 1
  + Project.*OperatingEndDate* is NULL or Project.OperatingEndDate >= ReportStart
  + ProjectCoC.*CoCCode* = ReportCoC
* Enrollment.*RelationshipToHoH* = 1
* There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
* Enrollment.*EntryDate* <= ReportEnd
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
* Exit.*ExitDate* is NULL or Exit*.ExitDate* >= ReportStart; and
  + Exit*.ExitDate* > Enrollment.*EntryDate*; or
  + *ProjectType* is RRH and Exit.*ExitDate* = *EntryDate* and *ExitDate* = *MoveInDate*
* There is an EnrollmentCoC record where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC
* There is no later EnrollmentCoC record where *InformationDate* <= ReportEnd and *CoCCode* <> ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between ReportStart and ReportEnd

#### MoveInDate

For LSA reporting, the *MoveInDate* is set for the head of household from the HMIS enrollment record only if it occurs before the end of the report period and is logically consistent with the project type, the head of household’s entry/exit dates, and the project’s operating dates:

* *ProjectType* in (13,3)
* *MoveInDate* <= ReportEnd
* *MoveInDate* >= *EntryDate*
* *ExitDate* is null or *MoveInDate* <= *ExitDate*
* *OperatingEndDate* is NULL or *MoveInDate* <= *OperatingEndDate*

HMIS move-in dates that do not meet the above criteria are disregarded; active\_Household *MoveInDate* should be set to NULL.

#### Last Bed Night for Night-by-Night Shelter Enrollments

Where Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, **LastBedNight** refers to the most recent record (Services.*RecordType* = 200) of a bed night associated with the head of household’s enrollment where:

* *DateProvided* between ReportStart and ReportEnd; and
* *DateProvided* >= Enrollment.*EntryDate*; and
* *DateProvided* < Exit.*ExitDate* or Exit.*ExitDate* is NULL; and
* *DateProvided* <= Project.*OperatingEndDate* or Project.*OperatingEndDate* is NULL.

#### ExitDate

Exits that occur after the end of the report period are not relevant; the active\_Household.**ExitDate** should be NULL unless one of the conditions below apply.

In the event that the recorded *ExitDate* (or lack thereof) associated with an enrollment is inconsistent with other data, reporting must be based on an adjusted *ExitDate* consistent with the logic below. If applicable, *Destination* for these enrollments is reported as ‘Unknown’ (99). See section [6.7 EST/RRH/PSHDestination – LSAHousehold](#_EST/RRH/PSHDestination–_LSAHousehol).

* For any enrollment that remains open at the time a project ceases operation, the project’s *OperatingEndDate* is the effective *ExitDate*.
* The effective *ExitDate* is [LastBednight + 1 day] for any enrollment in a night-by-night shelter where:
  + The recorded *ExitDate* is more than one day after the last bed night; or
  + There is no *ExitDate* and LastBedNight is 90 days or more prior to ReportEnd.

|  |  |
| --- | --- |
| Condition | Effective Exit Date |
| [**LastBednight** + 90 days] <= ReportEnd and *ExitDate* is NULL | [**LastBednight**+ 1 day] |
| *ExitDate* > [**LastBednight** + 1 day] | [**LastBednight**+ 1 day] |
| Project.*OperatingEndDate* < ReportEnd and *ExitDate* is NULL | Project.*OperatingEndDate* |
| Project.*OperatingEndDate* < ReportEnd and *ExitDate* > Project.*OperatingEndDate* | Project.*OperatingEndDate* |
| *ExitDate* > ReportEnd | NULL |
| (any other) | *ExitDate* |

## Get Active Enrollments (active\_Enrollment)

References in subsequent sections to active\_Enrollment.*EnrollmentID* refer to all enrollments associated with an active\_Household.*HouseholdID* and which otherwise meet the criteria for inclusion in LSA reporting as defined here.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HouseholdID |
| ProjectType |
| TrackingMethod |
| EntryDate |
| MoveInDate |
| ExitDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate (*DateProvided* where *RecordType* = 200) |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

|  |  |
| --- | --- |
| **active\_Enrollment** | **Column Description** |
| **EnrollmentID** | From hmis\_Enrollment - distinct *EnrollmentID*s active in the report period |
| **PersonalID** | From hmis\_Enrollment |
| **HouseholdID** | From active\_Household |
| **RelationshipToHoH** | From hmis\_Enrollment |
| **EntryDate** | From hmis\_Enrollment |
| **MoveInDate** | The effective move-in date for RRH/PSH enrollments, if any, which may differ for household members from the active\_Household *MoveInDate* under some circumstances (see below). |
| **ExitDate** | The effective *ExitDate* for the enrollment, which may differ from the *ExitDate* recorded in hmis\_Exit. (See below.) |
| AgeDate | The later of *EntryDate* or ReportStart; used to calculate **AgeGroup**  See section [5.3 AgeGroup for Active Enrollments](#_Set_Age_Group) |
| AgeGroup | Client’s LSA AgeGroup as of **AgeDate** for the enrollment  See section [5.3 AgeGroup for Active Enrollments](#_Set_Age_Group) |

### Logic

#### Record Selection

Active enrollments:

* *HouseholdID* meets the selection criteria for inclusion in active\_Household (HHID)
* Enrollment.*RelationshipToHoH* in (1,2,3,4,5)
* Enrollment.*EntryDate* between HHID.*EntryDate* and ReportEnd
* Enrollment.*EntryDate* <= HHID.*ExitDate* or HHID.*ExitDate* is NULL
* Exit.*ExitDate* is NULL or
  + Exit*.ExitDate* >= ReportStart; and
  + Exit*.ExitDate* > Enrollment.*EntryDate*; and
  + Exit*.ExitDate* >= HHID.*EntryDate*

#### MoveInDate

All of the requirements for *MoveInDate* that apply to the active household also apply to all household members’ individual enrollments. If the household’s effective *MoveInDate* is logically inconsistent with a household member’s entry/exit dates, additional logic applies to setting the household member’s effective *MoveInDate.*

* If the household *MoveInDate* is prior to a household member’s *EntryDate*, the effective *MoveInDate* for the household member’s enrollment is the same as their *EntryDate*.
* If the household *MoveInDate* is after a household member’s *ExitDate*, the household member does not have a *MoveInDate.*
* If a household member exits the project on the date that the head of household moves in to permanent housing AND the household remains active in the project, the household member does not have a *MoveInDate*.

|  |  |
| --- | --- |
| Condition | Effective Move-In Date |
| HH.**MoveInDate** < Enrollment.*EntryDate* | Enrollment.*EntryDate* |
| HH.**MoveInDate** > Exit.*ExitDate* | NULL |
| HH.**MoveInDate** = Exit.*ExitDate* and HH.**ExitDate** is NULL | NULL |
| HH.**MoveInDate** = Exit.*ExitDate* and HH.**ExitDate** > Exit.*ExitDate* | NULL |
| (any other) | HH.**MoveInDate** |

#### ExitDate

All of the requirements for *ExitDate* that apply to the active household apply to all household members. In addition, no household member’s enrollment may continue past the head of household’s actual or effective exit date (active\_Household.**ExitDate**).

If a household member’s enrollment remains active after the household exit date (actual or effective), the effective exit date for the household member is the same as the household’s exit date.

|  |  |
| --- | --- |
| Condition | Effective Exit Date |
| *ExitDate* > ReportEnd | NULL |
| *ExitDate* > HH.**ExitDate** | HH.**ExitDate** |
| *ExitDate* is NULL and HH.**ExitDate** is not NULL | HH.**ExitDate** |
| (any other) | *ExitDate* |

## AgeGroup for Active Enrollments

To ensure that all household types and age-based populations are identified accurately, age – or the LSA age group used for reporting – is calculated separately for every active enrollment. Age is based on client age as of the **AgeDate** for the associated enrollment – ReportStart or *EntryDate,* whichever is later.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| **active\_Enrollment** |
| EntryDate |
| **hmis\_Client** |
| DOB |
| DOBDataQuality |

#### Target

|  |
| --- |
| **active\_Enrollment** |
| **AgeDate** |
| **AgeGroup** |

### Logic

All dates of birth must be validated; a client’s age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is anything other than ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* The calculation would result in an age over 105 years old;
* *DOB* is later than *EntryDate* for the enrollment; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate* for the enrollment

The first of the criteria listed below met by the combination of values for *DOB,* *DOBDataQuality,* and **AgeDate** determines the **AgeGroup** for a given enrollment:

| Priority | Condition | AgeGroup | LSA Category |
| --- | --- | --- | --- |
| 1 | *DOBDataQuality* in (8,9) | 98 | Client doesn't know/refused |
| 2 | *DOBDataQuality* not in (1,2) | 99 | Missing/invalid |
| 3 | *DOB* is missing or set to a system default | 99 | Missing/invalid |
| 4 | *DOB* *> EntryDate* | 99 | Missing/invalid |
| 5 | *RelationshipToHoH* = 1 and *DOB* *= EntryDate* | 99 | Missing/invalid |
| 5 | [*DOB* *+* 105 years] *<=* **AgeDate** | 99 | Missing/invalid |
| 6 | [*DOB* *+* 65 years] *<=* **AgeDate** | 65 | 65 and older |
| 7 | [*DOB* *+* 55 years] *<=* **AgeDate** | 64 | 55 to 64 |
| 8 | [*DOB* *+* 45years] *<=* **AgeDate** | 54 | 45 to 54 years |
| 9 | [*DOB* *+* 35years] *<=* **AgeDate** | 44 | 35 to 44 years |
| 10 | [*DOB* *+* 25 years] *<=* **AgeDate** | 34 | 25 to 34 years |
| 11 | [*DOB* *+* 22 years] *<=* **AgeDate** | 24 | 22 to 24 years |
| 12 | [*DOB* *+* 18 years] *<=* **AgeDate** | 21 | 18 to 21 years |
| 13 | [*DOB* + 6 years] *<=* **AgeDate** | 17 | 6 to 17 years |
| 14 | [*DOB* + 3 years] *<=* **AgeDate** | 5 | 3 to 5 years |
| 15 | [*DOB* + 1 years] *<=* **AgeDate** | 2 | 1 to 2 years |
| 16 | (other) | 0 | <1 year |

## Set Household Type for Active HouseholdIDs

Household type (**HHType**) for each HMIS *HouseholdID* is based on counts of household members by age status – adult, child, or unknown. This is based on **AgeGroup**sfor all active enrollments associated with the *HouseholdID*.

* Adult – **AgeGroup** between 21 and 65
* Child – **AgeGroup**< 21
* Unknown Age – **AgeGroup** in (98,99)

### Relevant Data

#### Source

|  |
| --- |
| **active\_Enrollment** |
| HouseholdID |
| AgeGroup |

#### Target

|  |
| --- |
| **active\_Household** |
| **HouseholdID** |
| **HHType** |

### Logic

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

## Get Active Clients for LSAPerson

The tmp\_Person data construct holds one record for each distinct *PersonalID* in active\_Enrollment. It is a client-level version of the aggregate LSAPerson data and is used to set values for each LSA reporting category – **Age**, **Gender**, **Race**, etc. – for each client. It includes all columns from LSAPerson.csv other than **RowTotal** and **ReportID**, as well as several columns which are used as a reference to simplify business logic but do not correlate to a column in LSAPerson.

### Relevant Data

#### Source

| active\_Enrollment |
| --- |
| PersonalID |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

| tmp\_Person | Column Description |
| --- | --- |
| PersonalID | Distinct *PersonalIDs* occurring in active\_Enrollment  The count of *PersonalID*s, grouped by the values in all other columns, is used to populate the **RowTotal** column of LSAPerson. |
| HoHAdult | (Does not correlate to a column in LSAPerson.csv)  Identifies whether the client was served as an adult, a head of household, or both for any active\_Enrollment (0 = No, 1 = Adult, 2=HoH, 3 = Adult and HoH); used to simplify later steps.  See section [5.6 LSAPerson Demographics](#_LSAPerson_Demographics) |
| CHStart | (Does not correlate to a column in LSAPerson.csv)  Where **HoHAdult** > 0: [**LastActive** – 3 years + 1 day]; used to calculate **CHTime**.  See section [5.7 Time Spent in ES/SH or on the Street – LSAPerson](#_ES/SH/Street_Time_–). |
| LastActive | (Does not correlate to a column in LSAPerson.csv)  Where **HoHAdult** > 0, the client’s last active date in the report period; used to calculate **CHTime.**  See section [5.7 Time Spent in ES/SH or on the Street – LSAPerson](#_ES/SH/Street_Time_–). |
| Gender | Gender for adults and heads of household; not applicable (value = -1) for non-HoH children  See section [5.6 LSAPerson Demographics](#_LSAPerson_Demographics) |
| Race | Race for adults and heads of household; not applicable (value = -1) for non-HoH children  See section 5.6 LSAPerson Demographics |
| Ethnicity | Ethnicity for adults and heads of household; not applicable (value = -1) for non-HoH children  See section 5.6 LSAPerson Demographics |
| VetStatus | Veteran Status for adults; not applicable (value = -1) for children  See section 5.6 LSAPerson Demographics |
| DisabilityStatus | Disability Status for adults and heads of household based on records of *3.08 Disabling Condition* for all active enrollments; not applicable (value = -1) for non-HoH children  See section 5.6 LSAPerson Demographics |
| CHTime | For adults and heads of household, the total number of days in ES/SH or on the street in the three years prior to the client's last active date in the report period. Based on data from active and inactive enrollments, the count of days excludes any dates when clients were enrolled in continuum TH projects or housed in RRH/PSH, but otherwise includes:   * Dates between entry and exit in continuum entry-exit ES and SH projects; and * Bed-night dates in night-by-night shelters; and * Dates between 3.917 *DateToStreetESSH* and *EntryDate* for ES/SH/TH/RRH/PSH projects; and * Dates between any RRH/PSH EntryDate and the earlier of MoveInDate or ExitDate when LivingSituation is ES/SH/Street; or * For people who do not meet the time criteria for chronic homelessness based on the above, may be set based on 3.917 number of months and number of times homeless in the past three years from ES/SH/TH/RRH/PSH enrollments with entry dates in the year ending on the client's last active date.   See sections [5.7](#_ES/SH/Street_Time_–)-5.12 for associated business logic. |
| CHTimeStatus | For clients with 365+ days of ES/SH/Street time in the three years prior to their last active date (**CHTime**), specifies whether the dates are grouped so that the client meets the time criteria for chronic homelessness. Otherwise not applicable.  See sections [5.7](#_ES/SH/Street_Time_–)-5.12 for associated business logic. |
| DVStatus | DV Status for adults and heads of household based on records of 4.11 Domestic Violence for all active enrollments; not applicable (value = -1) for non-HoH children  See section 5.6 LSAPerson Demographics |
| ESTAgeMin | The person’s minimum age at the later of ReportStart and *EntryDate* for any active ES/SH/TH enrollment. |
| ESTAgeMax | The person’s maximum age at the later of ReportStart and *EntryDate* for any active ES/SH/TH enrollment. |
| HHTypeEST | Identifies household types, if any, in which the person was served in the ES/SH/TH project group. |
| HoHEST | Identifies household types, if any, in which the person was served in the ES/SH/TH project group as a head of household |
| AdultEST | Identifies household types, if any, in which the person was served in the ES/SH/TH project group as an adult |
| HHChronicEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a chronically homeless adult or HoH. |
| HHVetEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a veteran. |
| HHDisabilityEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with a disabled adult or HoH. |
| HHFleeingDVEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in household with an adult or HoH fleeing domestic violence. |
| HHAdultAgeAOEST | Population identifier based on the combination of adult household members’ ages for ES/SH/TH clients served in AO households. |
| HHAdultAgeACEST | Population identifier based on the combination of adult household members’ ages for ES/SH/TH clients served in AC households. |
| HHParentEST | Population identifier; the combination of household types in which the person was served in ES/SH/TH projects in a household that includes at least one member whose RelationshipToHoH is 'Child'. |
| AC3PlusEST | Population identifier; indicates whether or not the person was served in ES/SH/TH projects in an AC household with 3 or more household members under 18. |
| AHAREST | The combination of household types in which the person was part of the AHAR universe for ES/SH/TH (i.e., active in the report period other than an exit on ReportStart). |
| AHARHoHEST | The combination of household types in which the person was part of the AHAR universe for ES/SH/TH (i.e., active in the report period other than an exit on ReportStart) as head of household. |
| RRHAgeMin | The person’s minimum age at the later of ReportStart and *EntryDate* for any active RRH enrollment. |
| RRHAgeMax | The person’s maximum age at the later of ReportStart and *EntryDate* for any active RRH enrollment. |
| HHTypeRRH | Identifies household types, if any, in which the person was served in an RRH project. |
| HoHRRH | Identifies household types, if any, in which the person was served in an RRH project as a head of household |
| AdultRRH | Identifies household types, if any, in which the person was served in an RRH project as an adult |
| HHChronicRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with a chronically homeless adult or HoH. |
| HHVetRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with a veteran. |
| HHDisabilityRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with a disabled adult or HoH. |
| HHFleeingDVRRH | Population identifier; the combination of household types in which the person was served an RRH project in household with an adult or HoH fleeing domestic violence. |
| HHAdultAgeAORRH | Population identifier based on the combination of adult household members’ ages for RRH clients served in AO households. |
| HHAdultAgeACRRH | Population identifier based on the combination of adult household members’ ages for RRH clients served in AO households. |
| HHParentRRH | Population identifier; the combination of household types in which the person was served an RRH project in a household that includes at least one member whose RelationshipToHoH is 'Child'. |
| AC3PlusRRH | Population identifier; indicates whether or not the person was served an RRH project in an AC household with 3 or more household members under 18. |
| AHARRRH | The combination of household types in which the person was part of the AHAR universe for RRH (i.e., has at least one bed night in the report period). |
| AHARHoHRRH | The combination of household types in which the person was part of the AHAR universe for RRH (i.e., has at least one bed night in the report period) as head of household. |
| PSHAgeMin | The person’s minimum age at the later of ReportStart and *EntryDate* for any active PSH enrollment. |
| PSHAgeMax | The person’s maximum age at the later of ReportStart and *EntryDate* for any active PSH enrollment. |
| HHTypePSH | Identifies household types, if any, in which the person was served in an PSH project. |
| HoHPSH | Identifies household types, if any, in which the person was served in an PSH project as a head of household |
| AdultPSH | Identifies household types, if any, in which the person was served in an PSH project as an adult |
| HHChronicPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with a chronically homeless adult or HoH. |
| HHVetPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with a veteran. |
| HHDisabilityPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with a disabled adult or HoH. |
| HHFleeingDVPSH | Population identifier; the combination of household types in which the person was served an PSH project in household with an adult or HoH fleeing domestic violence. |
| HHAdultAgeAOPSH | Population identifier based on the combination of adult household members’ ages for PSH clients served in AO households. |
| HHAdultAgeACPSH | Population identifier based on the combination of adult household members’ ages for PSH clients served in AO households. |
| HHParentPSH | Population identifier; the combination of household types in which the person was served an PSH project in a household that includes at least one member whose RelationshipToHoH is 'Child'. |
| AC3PlusPSH | Population identifier; indicates whether or not the person was served an PSH project in an AC household with 3 or more household members under 18. |
| AHARPSH | The combination of household types in which the person was part of the AHAR universe for PSH (i.e., has at least one bed night in the report period). |
| AHARHoHPSH | The combination of household types in which the person was part of the AHAR universe for PSH (i.e., has at least one bed night in the report period) as head of household. |

### Logic

LSAPerson is the source for demographic reporting produced by the HDX 2.0. Every active client is counted in a single row of LSAPerson. Counts in **RowTotal** are grouped by the values in all of the other columns. The sum of **RowTotal** values is the total number of clients in the active cohort.

In the intermediate client-level tmp\_Person, each active client is represented by a single row with *PersonalID* as the primary key.

## LSAPerson Demographics

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| **active\_Enrollment** |
| EnrollmentID |
| PersonalID |
| RelationshipToHoH |
| AgeGroup |
| **hmis\_Client** |
| PersonalID |
| Gender |
| Race |
| Ethnicity |
| VeteranStatus |
| **hmis\_Enrollment** |
| EnrollmentID |
| DisablingCondition |
| **hmis\_HealthAndDV** |
| EnrollmentID |
| DomesticViolenceVictim |
| CurrentlyFleeing |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

| tmp\_Person |
| --- |
| HoHAdult |
| Gender |
| Race |
| Ethnicity |
| VetStatus |
| DisabilityStatus |
| DVStatus |

### Logic

#### HoHAdult

**HoHAdult** is used to indicate whether the client was served as an adult, a head of household, or both adult and HoH. Children and people of unknown age who were not served as heads of household are included in reporting on age and in population counts of people, but are not included in other demographic counts. There is no parallel **HoHAdult** column in the LSAPerson file, but it is useful in identifying which columns/records to update.

| Value | Category |
| --- | --- |
| 0 | Not HoH or Adult |
| 1 | Adult |
| 2 | HoH |
| 3 | Adult and HoH |

#### Gender

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Gender* values for adults and heads of household as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | Female | 1 | Female |
| 1 | Male | 2 | Male |
| 2 | Trans Female (MTF or Male to Female) | 3 | Transgender |
| 3 | Trans Male (FTM or Female to Male) | 3 | Transgender |
| 4 | Gender non-conforming | 4 | Gender non-conforming |
| 8 | Client doesn’t know | 98 | Client doesn’t know/refused |
| 9 | Client refused | 98 | Client doesn’t know/refused |
| (any other) | Any other, including NULL | 99 | Missing/invalid |

#### Race

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Race* values for adults and heads of household in the following priority order:

| Priority | HMIS Race Values | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 1 | Regardless of any other data  *Client doesn’t know* (8) or *Client refused* (9) | 98 | Client doesn't know/refused |
| 2 | Regardless of any other race data  *Data not collected* (99) or NULL | 99 | Missing/invalid |
| 3 | Two or more *Race* values selected | 6 | Multiple Races |
| 4 | *White* (5) (only) and Ethnicity <> 1 | 0 | White, non-Hispanic/Latino |
| 4 | *White* (5) (only) and Ethnicity = 1 (Hispanic/Latino) | 1 | White, Hispanic/Latino |
| 4 | *Black or African American* (3) (only) | 2 | Black or African American |
| 4 | *Asian* (2) (only) | 3 | Asian |
| 4 | *American Indian or Alaska Native* (1) (only) | 4 | American Indian or Alaska Native |
| 4 | *Native Hawaiian or Other Pacific Islander* (4) (only) | 5 | Native Hawaiian / Other Pacific Islander |

#### Ethnicity

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

Crosswalk HMIS *Ethnicity* values for adults and heads of household as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | Non-Hispanic/Latino | 0 | Non-Hispanic/Latino |
| 1 | Hispanic/Latino | 1 | Hispanic/Latino |
| 8 | Client doesn’t know | 98 | Client doesn’t know/refused |
| 9 | Client refused | 98 | Client doesn’t know/refused |
| (any other) | Any other, including NULL | 99 | Unknown |

#### VetStatus

Assign a value of -1 for all clients under 18 or of unknown age (**HoHAdult** = in (0,2)).

Crosswalk HMIS *VeteranStatus* values for adults as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | No | 0 | Not a veteran |
| 1 | Yes | 1 | Veteran |
| 8 | Client doesn’t know | 98 | Client doesn't know/refused |
| 9 | Client refused | 98 | Client doesn't know/refused |
| (any other) | Any other, including NULL | 99 | Missing |

#### DisabilityStatus

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

*DisablingCondition* is an enrollment-level data element in HMIS, but is reported as a person-level characteristic in the LSA. Set the value of **DisabilityStatus** to the first LSA Value in the table below where the *DisablingCondition* HMIS value of any active enrollment matches.

| Priority | HMIS Values | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 1 | Yes (1) | 1 | Disabled |
| 2 | No (0) | 0 | Not disabled |
| 3 | (Any other) | 99 | Unknown |

#### DVStatus

Assign a value of -1 for all non-heads of household under 18 or of unknown age (**HoHAdult** = 0).

*DomesticViolenceVictim* is an enrollment-level data element in HMIS, but is reported as a person-level characteristic in the LSA.

Set the value of **DVStatus** to the first LSA Value in the table below where HMIS *DomesticViolenceVictim* and *CurrentlyFleeing* values from any record of *4.11 Domestic Violence* associated with an active enrollment where:

* *InformationDate* <= ReportEnd; and
* *InformationDate* <= active\_Enrollment.*ExitDate*.

| Priority | DVVictim | CurrentlyFleeing | LSA Value | LSA Category |
| --- | --- | --- | --- | --- |
| 1 | Yes (1) | Yes (1) | 1 | DV victim, currently fleeing |
| 2 | Yes (1) | No (0) | 2 | DV victim, not currently fleeing |
| 3 | Yes (1) | (any other) | 3 | DV victim, unknown if currently fleeing |
| 4 | No (0) | - | 0 | Not a victim of domestic violence |
| 5 | 8,9 | - | 98 | Client doesn't know/refused |
| 6 | (any other) | - | 99 | Missing/invalid |

## Time Spent in ES/SH or on the Street – LSAPerson

Although a person must have a disabling condition in order to be considered chronically homeless, the LSA includes reporting on time spent in places not meant for habitation, safe haven, and/or emergency shelter for all heads of household and adults, regardless of the value in **DisabilityStatus**. The following sections define reporting for that time.

The definition of *chronically homeless[[2]](#footnote-3)* specifies the total length of time spent either in a place not meant for human habitation, a safe haven, or in an emergency shelter relevant to chronic homelessness in months: “continuously for at least 12 months” or on four or more occasions for a total of “at least 12 months“ within a timeframe of 3 years.

Specific to the LSA:

* All time related to chronic homelessness is counted in days, i.e., “continuously for at least 365 days” or “in four or more episodes for a total of at least 365 days*”*;
* The three-year timeframe for any given client ends on their last active date in the report period, i.e., it is specific to the client; and
* The count of days is based on a combination of *3.917(A or B) Living Situation* data and entry/exit dates for enrollments in HMIS-participating ES/SH/TH/RRH/PSH projects.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportEnd |
| **active\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ExitDate |
| **tmp\_Person** |
| HoHAdult |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **CHStart** |
| **LastActive** |

### Logic

The three-year timeframe for each head of household/adult – the CH date range – is identified in tmp\_Person with dates in the **CHStart**and**LastActive**columns.

**LastActive** – For each record in tmp\_Person where **HoHAdult** > 0:

* If *ExitDate* for any active\_Enrollment is NULL, **LastActive** = ReportEnd.
* Otherwise, **LastActive** = the most recent *ExitDate* for any active enrollment.

**CHStart** – For each record in tmp\_Person where **HoHAdult** > 0:

* **CHStart** = (**LastActive** – 3 years) + 1 day

## Enrollments Relevant to Counting ES/SH/Street Dates (ch\_Enrollment)

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportEnd |
| ReportCoC |
| **tmp\_Person** |
| PersonalID |
| HoHAdult |
| CHStart |
| LastActive |
| **hmis\_Project** |
| ProjectID |
| ContinuumProject |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_ProjectCoC** |
| ProjectID |
| CoCCode |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| RelationshipToHoH |
| EntryDate |
| MoveInDate |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate (*DateProvided* where *RecordType* = 200) |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |
| **hmis\_Enrollment (HoH)**  For any given enrollment where the client is not the head of household, the HoH enrollment record is needed to get move-in date (if relevant) and the enrollment CoC. |
| EnrollmentID |
| HouseholdID |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID (for the HoH enrollment) |
| InformationDate |
| CoCCode |

#### Target

|  |  |
| --- | --- |
| **ch\_Enrollment** | **Column Description** |
| **EnrollmentID** | Distinct ES, SH, TH, RRH, and PSH *EnrollmentID*s active in the three years prior to the client’s last active date in the report period |
| **PersonalID** | tmp\_Person.**PersonalID** where **HoHAdult** <> 0 |
| **ProjectType** | From hmis\_Project |
| **TrackingMethod** | From hmis\_Project |
| **StartDate** | *EntryDate* or tmp\_Person.**CHStart**, whichever is later. |
| **MoveInDate** | The effective move-in date for RRH/PSH enrollments, if any, which may differ from the hmis\_Enrollment(HoH) *MoveInDate* under some circumstances (see below). |
| **StopDate** | The effective *ExitDate* for the enrollment, which may differ from the *ExitDate* recorded in hmis\_Exit (see below) or, if *ExitDate* is null, tmp\_Person.**LastActive**. |

### Logic

Enrollments relevant to determining whether or not a person meets the time criteria for chronic homelessness include active and inactive enrollment that meet the following criteria:

* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
* Project.*OperatingEndDate* > **CHStart** or Project.*OperatingEndDate* is NULL
* Enrollment.*PersonalID* = tmp\_Person.**PersonalID**
* Enrollment.*RelationshipToHoH* in (1,2,3,4,5)
* Enrollment.*EntryDate* <= **LastActive**
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or Project.*OperatingEndDate* is NULL
* Exit.*ExitDate* is NULL or
  + Exit*.ExitDate* >= **CHStart**; and
  + Exit*.ExitDate* > Enrollment.*EntryDate*
* For the *HouseholdID* (HHID):
  + There is exactly one enrollment record where *RelationshipToHoH* = 1
  + HHID.*EntryDate* <= Enrollment.EntryDate
  + HHID.*EntryDate* < Exit.ExitDate or Exit.*ExitDate* is NULL
  + There is at least one EnrollmentCoC record where *InformationDate* <= **LastActive** and *CoCCode* = ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between **CHStart** and **LastActive**

Aside from the difference in date range, the selection criteria for these enrollments differ from those for active households/enrollments in that they require only that there is at least one EnrollmentCoC record where *CoCCode* = ReportCoC –it need not be the most recent record.

#### Start Date

If *EntryDate* >= **CHStart**, set **StartDate** = *EntryDate.* Otherwise*,* set**StartDate** *=* **CHStart***.*

#### MoveInDate

*MoveInDate* is set in ch\_Enrollment only if it occurs in the report period and is logically consistent with the project type, entry/exit dates for the client (and the head of household, if different), and the project’s operating dates:

* *ProjectType* in (13,3)
* *MoveInDate* <= **LastActive**
* *MoveInDate* >= *EntryDate* for head of household
* *MoveInDate* <= *ExitDate* or *ExitDate* is NULL (for the client and also for the HoH, if different)

If there is a record with a move-in date that meets the above criteria, ch\_Enrollment **MoveInDate** should be set to the latest of *MoveInDate*, **CHStart**, or *EntryDate*.

#### StopDate

**StopDate** identifies the last date of the enrollment that is relevant for determining CH status.

For enrollments in entry/exit shelters and other project types, all days between the **StartDate** and **StopDate** can be categorized and counted in subsequent steps.

This is not true for night-by-night shelters, however – dates are only counted if there is a record of a bed night **–** so **StopDate** can be set to NULL regardless of other data.

For other project types, **StopDate** should be set to the first value in the table below for which enrollment data meet the conditions.

|  |  |  |
| --- | --- | --- |
| Priority | Condition | StopDate |
| 1 | Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3 | NULL |
| 2 | Project.*OperatingEndDate* < ReportEnd and *ExitDate* is NULL | Project.*OperatingEndDate* |
| 3 | Project.*OperatingEndDate* < ReportEnd and *ExitDate* > Project.*OperatingEndDate* | Project.*OperatingEndDate* |
| 4 | HHID.**ExitDate** < *ExitDate* | HHID.**ExitDate** |
| 5 | *ExitDate* is NULL and HHID.**ExitDate** is not NULL | HHID.**ExitDate** |
| 6 | *ExitDate* > ReportEnd | ReportEnd + 1 day |
| 7 | (any other) | *ExitDate* |

## Get Dates to Exclude from Counts of ES/SH/Street Days (ch\_Exclude)

Any date on which a client was either in TH or housed in RRH/PSH – i.e., known to be in a place other than one not meant for human habitation, a safe haven, or in an emergency shelter – is generally excluded from the count of ES/SH/Street days. The only exception to this is for stays of less than seven days, and only if the dates fall between two dates less than seven days apart on which the client is otherwise documented as being on the street or in ES/SH.

### RelevantData

#### Source

|  |
| --- |
| **ch\_Enrollment** |
| PersonalID |
| ProjectType |
| StartDate |
| MoveInDate |
| StopDate |

#### Target

|  |  |
| --- | --- |
| **ch\_Exclude** | **Column Description** |
| **PersonalID** | = ch\_Enrollment.**PersonalD** |
| **ExcludeDate** | Distinct dates between **StartDate**and **StopDate** when client was either in TH or housed in RRH/PSH. |

### Logic

To resolve potential data conflicts, dates on which a client is enrolled in TH or housed in RRH/PSH are excluded when identifying ES/SH/Street days based on ES/SH enrollment dates, bednights, and *3.917 Prior Living Situation* data.

* For any CH enrollment where *MoveInDate* is not null, all dates between *MoveInDate* and (**StopDate** – 1 day) are excluded.
* For any CH enrollment where *ProjectType =* 2 (TH), all dates between *EntryDate* and (**StopDate** – 1 day) are excluded.

## Get Dates to Include in Counts of ES/SH/Street Days (ch\_Time)

For each **PersonalID** in tmp\_Person, any date between **CHStart**and **LastActive** is counted as an **ESSHStreetDate** if:

* The date is not excluded because the client was enrolled in a TH project or enrolled and housed in an RRH/PSH project (ch\_Exclude.**ExcludeDate**); and
* The date is consistent with any set of criteria listed below based on relevant enrollments (ch\_Enrollment).

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Person** |
| PersonalID |
| CHStart |
| LastActive |
| **ch\_Enrollment** |
| PersonalID |
| EnrollmentID |
| ProjectType |
| TrackingMethod |
| StartDate |
| MoveInDate |
| StopDate |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate (*DateProvided* where *RecordType* = 200) |

#### Target

|  |  |
| --- | --- |
| **ch\_Time** | **Column Description** |
| **PersonalID** | = ch\_Enrollment.**PersonalD** |
| **ESSHStreetDate** | Distinct dates between **CHStart**and **LastActive** when client was in ES/SH or on the street; also referred to as ES/SH/Street dates. |

### Logic

#### Enrollment in Entry/Exit ES or SH

* *ProjectType* = 8 or (*ProjectType* = 1 and *TrackingMethod* = 0); and
* **ESSHStreetDate** >= ch\_Enrollment.**StartDate** (later of *EntryDate* and **CHStart)***;* and
* **ESSHStreetDate** < ch\_Enrollment.**StopDate** (earliest non-NULL value for *ExitDate* or [**LastActive** + 1 day])

#### Bed Nights in Night-by-Night ES

* *ProjectType* = 1 and *TrackingMethod* = 3; and
* **ESSHStreetDate** = BednightDate

#### ES/SH/Street Dates from 3.917 Living Situation

For enrollments where *EntryDate* > **CHStart**, *DateToStreetESSH* is used in conjunction with *EntryDate* or *MoveInDate* to identify ES/SH/Street dates .

* The client was in ES/SH or on the street prior to project entry:
  + *LivingSituation* in (1,18,16); or
  + *ProjectType* not in (1,8) and *LengthOfStay* in (10, 11) and *PreviousStreetESSH* = 1; or
  + *ProjectType* not in (1,8) and *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and *PreviousStreetESSH* = 1
* **ESSHStreetDate** >= *DateToStreetESSH*; and
* If *ProjectType* in (1,8,2): **ESSHStreetDate** < *EntryDate*; and
* If *ProjectType* in (13,3) and *MoveInDate* is not null: **ESSHStreetDate** < *MoveInDate*; and
* If *ProjectType* in (13,3) and *MoveInDate* is null: **ESSHStreetDate** <= (*ExitDate* – 1 day) or **LastActive** (if no exit).

#### Gaps of Less than Seven Days Between Two ES/SH/Street Dates

Any date that falls between two ES/SH/Street dates that have been identified using the criteria above and are less than 7 days apart is counted as a ES/SH/Street day.

* [Date] > [**ESSHStreetDate***1*]*;* and
* [Date] < [**ESSHStreetDate***2*]; and
* ([**ESSHStreetDate***1*] + 7 days) >= [**ESSHStreetDate***2*]

For example, if a client has *BednightDate*s on June 1 and June 5 of the same year, the 3 dates between – June 2, 3, and 4 – are also counted as ES/SH/Street dates.

Note that gaps of less than 7 days between **ESSHStreetDate**s are counted as ES/SH/Street dates regardless of ch\_Exclude dates.

## Get ES/SH/Street Episodes (ch\_Episodes)

Each record in ch\_Episodes represents an uninterrupted series of ES/SH/Street dates identified in the previous step.

### Relevant Data

#### Source

|  |
| --- |
| **ch\_Time** |
| PersonalID |
| ESSHStreetDate |

#### Target

| ch\_Episodes | Column Description |
| --- | --- |
| PersonalID | tmp\_Person |
| episodeStart | The first ES/SH/Street date in the series. |
| episodeEnd | The last ES/SH/Street date in the series. |
| episodeDays | The number of days between **episodeStart** and **episodeEnd.** |

### Logic

For purposes of the LSA, an ‘episode’ is an uninterrupted series of ES/SH/Street dates.

* **episodeStart**is any **ESSHStreetDate** where there is no (**ESSHStreetDate** – 1 day) for the same *PersonalID* – i.e., any ES/SH/Street date where there is no information to indicate that the client was in ES/SH or on the street on the day before.
* **episodeEnd**is the first **ESSHStreetDate** after **episodeStart** where (**ESSHStreetDate** + 1 day) does not exist
* **episodeDays**is the [number of days between **episodeStart** and **episodeEnd**] + 1 day

## EST/RRH/PSHAgeMin and EST/RRH/PSHAgeMax - LSAPerson

LSAPerson includes minimum and maximum age columns for each project group – EST, RRH, and PSH. These columns indicate:

* [**EST**/**RRH**/**PSH**]**AgeMin** – The client’s minimum age at the later of ReportStart and *EntryDate* for any active [EST/RRH/PSH] enrollment.
* [**EST**/**RRH**/**PSH**]**AgeMax** – The client’s maximum age at the later of ReportStart and *EntryDate* for any active [EST/RRH/PSH] enrollment.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HouseholdID |
| ProjectType |
| **active\_Enrollment** |
| AgeGroup |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **ESTAgeMin** |
| **ESTAgeMax** |
| **RRHAgeMin** |
| **RRHAgeMax** |
| **PSHAgeMin** |
| **PSHAgeMax** |

### Logic

See section [5.3 Age Group for Active Enrollments](#_Set_Age_Group) for business logic related to age.

| Value | Age Group |
| --- | --- |
| -1 | n/a – not served in project group |
| 0 | Less than 1 year |
| 2 | 1 to 2 years |
| 5 | 3 to 5 years |
| 17 | 6 to 17 years |
| 21 | 18 to 21 years |
| 24 | 22 to 24 years |
| 34 | 25 to 34 years |
| 44 | 35 to 44 years |
| 54 | 45 to 54 years |
| 64 | 55 to 64 years |
| 65 | 65 or older |
| 98 | Client doesn't know/refused |
| 99 | Missing/invalid |

## HHTypeEST/RRH/PSH - LSAPerson

LSAPerson includes a household type column for each project group – EST, RRH, and PSH. These columns indicate:

* Whether or not the client was served in the project group; and
* If served in the project group, the household type(s) in which the client was served.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HouseholdID |
| HHType |
| ProjectType |
| **active\_Enrollment** |
| PersonalID |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **HHTypeEST** |
| **HHTypeRRH** |
| **HHTypePSH** |

### Logic

Apart from identifying project groups, the logic for the **HHTypeEST**, **HHTypeRRH**, and **HHTypePSH** columns is identical.

| HHTypeEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

## HoHEST/RRH/PSH

LSAPerson includes a head of household column for each project group – EST, RRH, and PSH. These columns indicate:

* Whether or not the client was served in the project group as a head of household; and
* If so, the household type(s) in which the client was served as a head of household.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| ProjectType |
| **active\_Enrollment** |
| HHType |
| RelationshipToHoH |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **HoHEST** |
| **HoHRRH** |
| **HoHPSH** |

### Logic

Apart from being limited to household types in which clients were designated (or reported) head of household, the logic for the **HoHEST**, **HoHRRH**, and **HoHPSH** columns is identical to the **HHType** columns.

| HoHEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group as HoH |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

## AdultEST/RRH/PSH - LSAPerson

LSAPerson includes columns to identify people served as adults for each project group – EST, RRH, and PSH. These columns indicate:

* Whether or not the client was served in the project group as an adult – i.e., whether or not the **AgeGroup** for any active enrollment within a given project group was between 21 and 65; and
* If so, the household type(s) in which the client was served as an adult.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| ProjectType |
| **active\_Enrollment** |
| AgeGroup |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **AdultEST** |
| **AdultRRH** |
| **AdultPSH** |

### Logic

Apart from being limited to household types in which clients were served as adults, the logic for the **HoHEST**, **HoHRRH**, and **HoHPSH** columns is identical to the **HHType** columns.

| AdultEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group as an adult |
| 1 | AO |
| 2 | AC |
| 9 | UN |
| 12 | AO and AC |
| 19 | AO and UN |
| 29 | AC and UN |
| 129 | AO, AC, and UN |

## AHAREST/RRH/PSH - LSAPerson

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HouseholdID |
| HHType |
| ProjectType |
| **active\_Enrollment** |
| PersonalID |
| HouseholdID |
| MoveInDate |
| ExitDate |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **AHAREST** |
| **AHARRRH** |
| **AHARPSH** |

### Logic

LSAPerson includes household type columns for each project group – EST, RRH, and PSH – to identify people who were active in residence – i.e., have at least one bednight – in the report period for the given project group.

| AHAREST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None – no bednights in project group during report period |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

The logic for these columns is specific to each project group.

#### AHAREST

Based on exit dates (as adjusted per section 5.2, if relevant), include household types for active enrollments where:

* active\_Enrollment.*ExitDate* > ReportStart; or
* active\_Enrollment.*ExitDate* is null.

#### AHARRRH

Based on exit dates (as adjusted per section 5.2, if relevant), include household types for active enrollments where

* active\_Enrollment.*MoveInDate* <= ReportEnd; and
  + active\_Enrollment.*ExitDate* > ReportStart; or
  + active\_Enrollment.*ExitDate* is null; or
  + active\_Enrollment.*ExitDate* = ReportStart and *MoveInDate* = ReportStart.

#### AHARPSH

Based on exit dates (as adjusted per section 5.2, if relevant), include household types for active enrollments where:

* active\_Enrollment.*MoveInDate* <= ReportEnd; and
  + active\_Enrollment.*ExitDate* > ReportStart; or
  + active\_Enrollment.*ExitDate* is null.

## AHARHoHEST/RRH/PSH

### Relevant Data

#### Source

|  |  |
| --- | --- |
| **active\_Household** |  |
| HouseholdID |  |
| HHType |  |
| ProjectType |  |
| **active\_Enrollment** |  |
| PersonalID |  |
| HouseholdID |  |
| RelationshipToHoH |  |
| MoveInDate |  |
| ExitDate |  |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| **AHARHoHEST** |
| **AHARHoHRRH** |
| **AHARHoHPSH** |

### Logic

LSAPerson includes household type columns for each project group – EST, RRH, and PSH – to identify people who were served as heads of household and were active in residence – i.e., have at least one bednight – in the report period for the given project group.

| AHARHoHEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None – no bednights in project group during report period as HoH |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

The logic for these columns is specific to each project group.

#### AHARHoHEST

Include household types for active enrollments where:

* *RelationshipToHoH* = 1; and
  + *ExitDate* > ReportStart; or
  + *ExitDate* is null.

#### AHARHoHRRH

Include household types for active enrollments where

* *RelationshipToHoH* = 1; and
* *MoveInDate* <= ReportEnd; and
  + *ExitDate* > ReportStart; or
  + *ExitDate* is null; or
  + *ExitDate* = ReportStart and *MoveInDate* = ReportStart.

#### AHARHoHPSH

Include household types for active enrollments where:

* *RelationshipToHoH* = 1; and
* *MoveInDate* <= ReportEnd; and
  + *ExitDate* > ReportStart; or
  + *ExitDate* is null.

## Set Population Identifiers for Active HMIS Households

### Relevant Data

#### Source

|  |
| --- |
| **active\_Enrollment** |
| PersonalID |
| HouseholdID |
| RelationshipToHoH |
| AgeGroup |
| **tmp\_Person** |
| PersonalID |
| Gender |
| Race |
| Ethnicity |
| VetStatus |
| DisabilityStatus |
| CHTime |
| CHTimeStatus |
| DVStatus |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **active\_Household** |
| HouseholdID |
| **HHChronic** |
| **HHVet** |
| **HHDisability** |
| **HHFleeingDV** |
| **HHAdultAge** |
| **HHParent** |
| **AC3Plus** |

### Logic

#### HHChronic

**HHChronic** = 1 if the head of household or any adult in the household is reported in LSAPerson with **DisabilityStatus** = 1 and:

* **CHTime** = 365 and **CHTimeStatus** in (1,2); or
* **CHTime** = 400 and **CHTimeStatus** = 2

Otherwise, **HHChronic** = 0.

#### HHVet

**HHVet** = 1 if any adult household member has **VetStatus** = 1.

Otherwise, **HHVet** = 0.

#### HHDisability

**HHDisability** = 1 if the head of household or any adult in the household has **DisabilityStatus** = 1.

Otherwise, **HHDisability** = 0.

#### HHFleeingDV

**HHFleeingDV** = 1 if the head of household or any adult in the household has **DVStatus** = 1.

Otherwise, **HHFleeingDV** = 0.

#### HHAdultAge

Set **HHAdultAge** for each active household to the upload value shown below based on **HHType** and the *first* of the criteria below met by the AgeGroup values in active\_Enrollment for all household members.

| Upload Value | Criteria |
| --- | --- |
| -1 | The maximum of all AgeGroup values is >= 98 (one or more unknown ages) |
| -1 | The maximum of all AgeGroup values is <= 17 (no adults in household) |
| 18 | The maximum of all AgeGroup values is 21 (all adults are between 18 and 21) |
| 24 | The maximum of all AgeGroup values is 24 (all adults are under 25) |
| 55 | The minimum of all AgeGroup values is between 55 and 65 (all members are 55+) |
| 25 | (all other households) |

#### HHParent

Set **HHParent** = 1 ifone or more active enrollments associated with the *HouseholdID* has *RelationshipToHoH* = 2.

Otherwise, **HHParent**= 0.

#### AC3Plus

Set **AC3Plus** = 1 if:

* **HHType** for the active household = 2 (AC); and
* The count of distinct *PersonalIDs* from active enrollments associated with the *HouseholdID* where enrollment **AgeGroup**< 18 is >= 3.

Otherwise, **AC3Plus** = 0.

## Set Population Identifiers for LSAPerson from Active Households

### Relevant Data

#### Source

|  |
| --- |
| **active\_Enrollment** |
| PersonalID |
| HouseholdID |
| **active\_Household** |
| HouseholdID |
| ProjectType |
| HHChronic |
| HHVet |
| HHDisability |
| HHFleeingDV |
| HHAdultAge |
| HHParent |
| AC3Plus |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

|  |
| --- |
| **tmp\_Person** |
| PersonalID |
| **HHChronicEST** |
| **HHVetEST** |
| **HHDisabilityEST** |
| **HHFleeingDVEST** |
| **HHAdultAgeAOEST** |
| **HHAdultAgeACEST** |
| **HHParentEST** |
| **AC3PlusEST** |
| **HHChronicRRH** |
| **HHVetRRH** |
| **HHDisabilityRRH** |
| **HHFleeingDVRRH** |
| **HHAdultAgeAORRH** |
| **HHAdultAgeACRRH** |
| **HHParentRRH** |
| **AC3PlusRRH** |
| **HHChronicPSH** |
| **HHVetPSH** |
| **HHDisabilityPSH** |
| **HHFleeingDVPSH** |
| **HHAdultAgeAOPSH** |
| **HHAdultAgeACPSH** |
| **HHParentPSH** |
| **AC3PlusPSH** |

### Logic

#### HHChronicEST/RRH/PSH

Apart from being limited to household types in which clients were served in chronically homeless households, the logic for the **HHChronicEST**, **HHChronicRRH**, and **HHChronicPSH** columns is identical to the **HHType** columns.

* active\_Household.**HHChronic** = 1; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| HHChronicEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group in chronically homeless households |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

#### HHVetEST/RRH/PSH

Apart from being limited to household types in which clients were served in veteran households, the logic for the **HoHEST**, **HoHRRH**, and **HoHPSH** columns is identical to the **HHType** columns.

* active\_Household.**HHVet** = 1; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| HHVetEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group in a veteran household |
| 1 | AO |
| 2 | AC |
| 9 | UN |
| 12 | AO and AC |
| 19 | AO and UN |
| 29 | AC and UN |
| 129 | AO, AC, and UN |

#### HHDisabilityEST/RRH/PSH

Apart from being limited to household types in which clients were served in households with a disabled head of household or adult, the logic for the **HHDisabilityEST**, **HHDisabilityRRH**, and **HHDisabilityPSH** columns is identical to the **HHType** columns.

* active\_Household.**HHDisability** = 1; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| HHDisabilityEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group in household with a disabled HoH/adult |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

#### HHFleeingDVEST/RRH/PSH

Apart from being limited to household types in which clients were served in households fleeing domestic violence, the logic for the **HHFleeingDVEST**, **HHFleeingDVRRH**, and **HHFleeingDVPSH** columns is identical to the **HHType** columns.

* active\_Household.**HHFleeingDV** = 1; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| HHFleeingDVEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group in household fleeing DV |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

#### HHAdultAgeAOEST/RRH/PSH

Set tmp\_Person.**HHAdultAgeAOEST/RRH/PSH** based on the first of the criteria below where

* active\_Household.**HHType** = 1; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| Priority | active\_Household | HHAdultAgeAOEST/RRH/PSH |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

#### HHAdultAgeACEST/RRH/PSH

Set tmp\_Person.**HHAdultAgeACEST/RRH/PSH** based on the first of the criteria below where

* active\_Household.**HHType** = 2; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| Priority | active\_Household | HHAdultAgeAOEST/RRH/PSH |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

#### HHParentEST/RRH/PSH

Apart from being limited to household types in which clients were served in households with a parenting HoH, the logic for the **HHParentEST**, **HHParentRRH**, and **HHParentPSH** columns is identical to the **HHType** columns.

* active\_Household.**HHParent** = 1; and
* Project type is consistent with project group:
  + EST - active\_Household.**ProjectType** in (1,2,8)
  + RRH - active\_Household.**ProjectType** = 13
  + PSH - active\_Household.**ProjectType** = 3

| HHParentEST/RRH/PSH | Household Type(s) for Project Group |
| --- | --- |
| -1 | None - not served in project group with parenting HoH |
| 1 | AO |
| 2 | AC |
| 3 | CO |
| 9 | UN |
| 12 | AO and AC |
| 13 | AO and CO |
| 19 | AO and UN |
| 23 | AC and CO |
| 29 | AC and UN |
| 39 | CO and UN |
| 123 | AO, AC, and CO |
| 129 | AO, AC, and UN |
| 139 | AO, CO, and UN |
| 239 | AC, CO, and UN |
| 1239 | AO, AC, CO, and UN |

#### AC3PlusEST/RRH/PSH

Set the value to 1 for any client with an active enrollment in the project group associated with an active household where **AC3Plus** = 1.

* EST - active\_Household.**ProjectType** in (1,2,8)
* RRH - active\_Household.**ProjectType** = 13
* PSH - active\_Household.**ProjectType** = 3

Otherwise, set to 0.

## CHTime and CHTimeStatus – LSAPerson

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Person** |
| PersonalID |
| HoHAdult |
| **ch\_Episodes** |
| PersonalID |
| episodeStart |
| episodeEnd |
| episodeDays |
| **ch\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectType |
| **hmis\_Enrollment** |
| PersonalID |
| EntryDate |
| LivingSituation |
| LengthOfStay |
| DateToStreetESSH |
| TimesHomelessPastThreeYears |
| MonthsHomelessPastThreeYears |

#### Target

See section [5.5 Get Active Clients for LSAPerson](#_Get_Active_Clients) for column descriptions.

| tmp\_Person |
| --- |
| CHTime |
| CHTimeStatus |

### Logic

There are a total of nine valid combinations of **CHTime** and **CHTimeStatus** values. They are summarized in the table below; detailed logic follows.

|  |  |  |  |
| --- | --- | --- | --- |
| Priority | CHTime | CHTimeStatus | Category |
| 1 | -1 | -1 | n/a – tmp\_Person.**HoHAdult** = 0 |
| 2 | 365 | 1 | Client has a ch\_Episode where **episodeDays** >= 365 with an **episodeEnd** between (**LastActive**– 364 days) and **LastActive** |
| 3 | 365 | 2 | Client has 4 or more episodes and the sum of **episodeDays** for all ch\_Episodes is >= 365. |
| 4 | 400 | 2 | Based on 3.917 Living Situation for an enrollment with an *EntryDate* in the year ending on **LastActive**, client was on the street or in ES/SH for 12 or more months and in four or more episodes in three years. |
| 5 | 365 | 3 | The sum of **episodeDays** for all ch\_Episodes is >= 365 but the number of episodes is less than four. |
| -- | 270 | 99 | Client has a total of 270-364 ESSHStreet days and relevant data is missing from *3.917 Living Situation* |
| -- | 270 | -1 | Client has a total of 270-364 ESSHStreet days and is not missing any relevant *3.917 Living Situation* data |
| -- | 0 | 99 | Client has a total of 0-269 ESSHStreet days and relevant data is missing from *3.917 Living Situation* |
| -- | 0 | -1 | Client has a total of 270-364 ESSHStreet days and is not missing any relevant *3.917 Living Situation* data |

The conditions associated with valid combinations of **CHTime** and **CHTimeStatus** are not all mutually exclusive. **CHTime** and **CHTimeStatus** should be set for the first set of criteria met by records for each person.

1. Set **CHTime**and **CHTimeStatus**= -1 where **HoHAdult**=0 (the client was not served as a head of household or as an adult).
2. Set **CHTime** = 365 and **CHTimeStatus** = 1 when there is a single episode where:

* ch\_Episodes.**episodeDays** >= 365; and
* ch\_Episodes.**episodeEnd** between (**LastActive**– 364 days) and **LastActive**

1. Set **CHTime** = 365 and **CHTimeStatus** = 2 where:

* **CHTimeStatus** <> 1 – i.e., the person does not meet the criteria above – and;
* [SUM of ch\_Episodes.**episodeDays**] >= 365; and
* [COUNT of ch\_Episodes] >= 4

1. Set **CHTime** *=* 400 (12 or more months in three years) and **CHTimeStatus** = 2 (4 or more episodes) where:

* **CHTimeStatus** not in (1,2)– i.e., the person does not meet the criteria above – and;
* **EntryDate** for ch\_Enrollment >= (**LastActive** – 364 days); and
* *TimesHomelessPastThreeYears* = 4 (Four or more times); and
* *MonthsHomelessPastThreeYears* in (112, 113) (12 or more than 12 months)

1. Set **CHTime** = 365 and **CHTimeStatus** = 3 where:

* [SUM of ch\_Episodes.**episodeDays**] >= 365; and
* [COUNT of ch\_Episodes] < 4

1. Set **CHTime = 270** where [SUM of ch\_Episodes.**episodeDays**] between 270 and 364
2. Set **CHTime = 0** where [SUM of ch\_Episodes.**episodeDays**] < 270
3. Set **CHTimeStatus** = 99 where (**CHTime** in (0,270) or **CHTimeStatus** = 3) and for any ch\_Enrollment where:

* *DateToStreetESSH > EntryDate*
* *LivingSituation* in (8,9,99) or is null
* *LengthOfStay* in (8,9,99) or is null
* *ProjectType* in (1,8) and *DateToStreetESSH* is null
* *LivingSituation* in (1,16,18) and *DateToStreetESSH* is null
* *ProjectType* not in (1,8) and *LengthOfStay* in (10,11) and (*PreviousStreetESSH* is null or (*PreviousStreetESSH* = 1 and *DateToStreetESSH* is null))
* *ProjectType* not in (1,8) and *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and (*PreviousStreetESSH* is null or (*PreviousStreetESSH* = 1 and *DateToStreetESSH* is null))
* *TimesHomelessPastThreeYears* in (8,9,99) or is null
* *MonthsHomelessPastThreeYears* in (8,9,99) or is null

1. Set **CHTimeStatus** = -1 where **CHTime** in (0,270) and **CHTimeStatus** has not already been set.

# HMIS Business Logic: Values for LSAHousehold

## Get Distinct Households for LSAHousehold

The tmp\_Household data construct holds one record for each distinct combination of **HoHID** and **HHType** in active\_Household. It is a household-level version of the aggregate LSAHousehold data and is used to set values for each LSA reporting category for each household. It includes all columns from LSAHousehold.csv other than **RowTotal** and **ReportID**, as well as several columns which are used as a reference to simplify business logic but do not correlate to a column in LSAHousehold.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HoHID |
| HHType |

#### Target

The logic associated with values for columns with names in **bold** below is described in this step. The business logic associated with other columns is described in subsequent steps.

| **tmp\_Household** | **Column Description** |
| --- | --- |
| **HoHID** | *PersonalID* for heads of active households; distinct combinations of **HoHID** and **HHType** serve as a primary key. |
| **HHType** | The household type |
| FirstEntry | (Does not correlate to a column in LSAHousehold.csv)  The earliest *EntryDate* for any active enrollment. |
| LastInactive | (Does not correlate to a column in LSAHousehold.csv)  For households already engaged with the continuum at the start of the report period, the most recent date prior to ReportStart and the start of the household’s period of continuous engagement. |
| Stat | The household status related to continuum engagement on the first day of the earliest enrollment active during the report period. |
| StatEnrollmentID | (Does not correlate to a column in LSAPerson.csv)  For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the *EnrollmentID* for the household’s most recent exit prior to ReportStart. |
| ReturnTime | For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the length of time in days between exit and the earliest active enrollment. |
| HHAdult | Number of people (including the head of household) 18 and older served with the HoH in active HMIS households where **HHType** = tmp\_Household.**HHType** |
| HHChild | Number of people (including the head of household) under the age of 18 served with the HoH in active HMIS households where **HHType** = tmp\_Household.**HHType** |
| HHNoDOB | Number of people (including the head of household) with no valid date of birth with the HoH in active HMIS households where **HHType** = tmp\_Household.**HHType** |
| HHChronic | Identifies whether or not the head of household or any adult household member is chronically homeless. Based on **DisabilityStatus**, **CHTime**, and **CHTimeStatus** values, as determined for LSAPerson reporting. |
| HHVet | Identifies whether or not the household includes a veteran. Based on **VetStatus** value, as determined for LSAPerson reporting. |
| HHDisability | Identifies whether or not the head of household or any adult member was identified as having a disabling condition on any active enrollment. |
| HHFleeingDV | Identifies whether or not the head of household or any adult member was identified as fleeing domestic violence on any active enrollment. Based on **DVStatus** value, as determined for LSAPerson reporting. |
| HoHRace | Identifies race for head of household as reported in LSAPerson. |
| HoHEthnicity | Identifies ethnicity for head of household as reported in LSAPerson. |
| HHAdult | Number of people (including the head of household) 18 and older served with the head of household in the household type reflected in the **HHType** column. |
| HHChild | Number of people (including the head of household) under the age of 18 served with the head of household in the household type reflected in the **HHType** column. |
| HHNoDOB | Number of people (including the head of household) with no valid date of birth served with the head of household. |
| HHAdultAge | The age groups of adult household members. The categories are mutually exclusive (a household can only fall into one group) and inclusive (every household with adults will fall into one group). |
| HHParent | Identifies whether or not any household member has **RelationshiptoHoH** = 2 (child of the HoH). |
| ESTStatus | Identifies whether the household was served in ES, SH, and/or TH during the report period or prior to the report period during a period of continuous system use. If served, the status indicates how the enrollment timeframe relates to the report period. |
| ESTGeography | For households with active EST enrollments (**ESTStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled. |
| ESTLivingSit | For households with active EST enrollments (**ESTStatus** > 2) during the report period, the LivingSituation associated with the earliest active enrollment. |
| ESTDestination | For households who exited an EST enrollment during the report period and were not active in an EST project as of ReportEnd (**ESTStatus** in (12,22)), the *Destination* associated with the most recent exit. |
| ESTChronic | Population identifier specific to EST; see **HHChronic**. |
| ESTVet | Population identifier specific to EST; see **HHVet**. |
| ESTDisability | Population identifier specific to EST; see **HHDisability**. |
| ESTFleeingDV | Population identifier specific to EST; see **HHFleeingDV.** |
| ESTAC3Plus | Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in EST. |
| ESTAdultAge | Population identifier specific to EST; see **HHAdultAge**. |
| ESTParent | Population identifier specific to EST; see **HHParent**. |
| RRHStatus | Identifies whether the household was served in RRH during the report period or in an episode of homelessness that overlaps with the report period. If served, the status indicates how the enrollment timeframe relates to the report period. |
| RRHMoveIn | For households served in RRH during the report period, indicates if the household has a move-in date. If so, indicates whether it was before or during the report period. |
| RRHGeography | For households with active RRH enrollments (**RRHStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled. |
| RRHLivingSit | For households with active RRH enrollments (**RRHStatus** > 2) during the report period, the *LivingSituation* associated with the earliest active enrollment. |
| RRHDestination | For households who exited an RRH enrollment during the report period and were not active in an RRH project as of ReportEnd (**RRHStatus** in (12,22)), the Destination associated with the most recent exit. |
| RRHPreMoveInDays | For households who were housed in RRH at any point in the report period, including those with a *MoveInDate* prior to ReportStart, the total number of days between *EntryDate* and *MoveInDate* for any active RRH enrollment. It differs from other day counts in that it includes all days in RRH prior to move-in, even if the household was simultaneously enrolled in ES/SH/TH/PSH. |
| RRHChronic | Population identifier specific to RRH; see **HHChronic**. |
| RRHVet | Population identifier specific to RRH; see **HHVet**. |
| RRHDisability | Population identifier specific to RRH; see **HHDisability**. |
| RRHFleeingDV | Population identifier specific to RRH; see **HHFleeingDV.** |
| RRHAC3Plus | Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in RRH. |
| RRHAdultAge | Population identifier specific to RRH; see **HHAdultAge**. |
| RRHParent | Population identifier specific to RRH; see **HHParent**. |
| PSHStatus | Identifies whether the household was served in PSH during the report period or in an episode of homelessness that overlaps with the report period. If served, the status indicates how the enrollment timeframe relates to the report period. |
| PSHMoveIn | For households served in PSH during the report period, indicates if the household has a move-in date. If so, indicates whether it was before or during the report period. |
| PSHGeography | For households with active PSH enrollments (**PSHStatus** > 2) during the report period, the Geography of the most recent project in which the household was enrolled. |
| PSHLivingSit | For households with active PSH enrollments (**PSHStatus** > 2) during the report period, the *LivingSituation* associated with the earliest active enrollment. |
| PSHDestination | For households who exited a PSH enrollment during the report period and were not active in PSH as of ReportEnd (**PSHStatus** in (12,22)), the *Destination* associated with the most recent exit. |
| PSHHousedDays | From active enrollments, days spent housed in PSH. (Note that this differs from other day counts in that it is limited to active enrollments.) |
| PSHChronic | Population identifier specific to PSH; see **HHChronic**. |
| PSHVet | Population identifier specific to PSH; see **HHVet**. |
| PSHDisability | Population identifier specific to PSH; see **HHDisability**. |
| PSHFleeingDV | Population identifier specific to PSH; see **HHFleeingDV.** |
| PSHAC3Plus | Population identifier; for AC households, specifies whether or not there were at least three household members under the age of 18 served with the HoH in PSH. |
| PSHAdultAge | Population identifier specific to PSH; see **HHAdultAge**. |
| PSHParent | Population identifier specific to PSH; see **HHParent**. |
| ESDays | Days spent in ES or SH during the report period and/or in any continuous episode of homelessness/system use prior to the report period when the household was not in TH or housed in RRH/PSH. |
| THDays | Days spent in TH during the report period and/or in any continuous episode of engagement/homelessness prior to report period when the household was not in housed in RRH/PSH. |
| ESTDays | Days spent in ES/SH/TH in the report period and/or in any continuous episode of homelessness prior to report period when the household was not housed in RRH/PSH. |
| RRHPSHPreMoveInDays | For households served in RRH and/or PSH, the total number of days spent homeless in RRH/PSH in the report period or in any continuous episode of engagement/homelessness prior to report period when household was not housed in RRH/PSH and not active in ES/SH/TH. |
| RRHHousedDays | Days spent housed in RRH in the report period and/or in any continuous episode of engagement/homelessness prior to report period when the household was not housed in PSH. |
| SystemDaysNotPSHHoused | The total number of days spent in ES, SH, TH, RRH, or PSH (pre-move-in) in the report period or in any continuous episode of homelessness prior to the report period while not housed in PSH. |
| SystemHomelessDays | The combined total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was in ES/SH/TH or was enrolled, but not housed in RRH/PSH (i.e. does not have a move-in date). |
| Other3917Days | The total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was on the street or in ES/SH based on 3.917 Living Situation records for any System Path enrollment, but was not active in a continuum ES/SH/TH/RRH/PSH project. |
| TotalHomelessDays | The combined total number of days in the report period or in any episode of continuous homelessness that overlaps the report period when the household was in ES/SH/TH; was enrolled, but not housed in RRH/PSH (i.e. does not have a move-in date); or on the street or in ES/SH based on 3.917 Living Situation records for any System Path enrollment and was not housed in RRH/PSH. |
| SystemPath | The combinations of system use during the report period and in the contiguous periods of service prior to the report period – i.e., the ‘path’ through the system. It is not dependent on the sequence of service. System Paths are mutually exclusive. |

### Logic

For the LSA, each distinct combination of a head of household’s **PersonalID** and **HHType** from all **HouseholdID**s active in the report period is counted as a single household.

Records in the intermediate household-level tmp\_Household are created for each distinct combination of **HHType** and **HoHID** in active\_Household.

## Set Population Identifiers for LSAHousehold

HHAdult, HHChild, and HHNoDOB are used together to report on household composition. The additional household-level population identifiers are used to report on population groups of interest.

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HoHID |
| HHType |
| HHChronic |
| HHVet |
| HHDisability |
| HHFleeingDV |
| HHAdultAge |
| HHParent |
| AC3Plus |
| **active\_Enrollment** |
| HouseholdID |
| AgeGroup |
| **tmp\_Person** |
| PersonalID |
| Race |
| Ethnicity |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **HHAdult** |
| **HHChild** |
| **HHNoDOB** |
| **HoHRace** |
| **HoHEthnicity** |
| **HHChronic** |
| **HHVet** |
| **HHDisability** |
| **HHFleeingDV** |
| **HHAdultAge** |
| **HHParent** |
| **AC3Plus** |

### Logic

#### HHAdult

The value is a count (up to 3) of household members whose **AgeGroup** for *every* associated enrollment is between 21 and 65. Anyone served as both an adult and a child with the same **HoHID**/**HHType** should be counted as a child. (This is only possible in AC households when a household member turns 18 between enrollments and there is another household member still under 18.)

| Value | Category |
| --- | --- |
| 0 | No adult in household |
| 1 | 1 adult in household |
| 2 | 2 adults in household |
| 3 | 3 or more adults in household |

If **HHType** is 1 (AO) or 2 (AC), the value in this column must be > 0.

If **HHType** = 3 (CO), the value in this column must = 0.

#### HHChild

The value is a count of all household members (up to 3) whose **AgeGroup** for *any* associated enrollment is under 18.

| Value | Category |
| --- | --- |
| 0 | No child in household |
| 1 | 1 child in household |
| 2 | 2 children in household |
| 3 | 3 or more children in household |

If **HHType** is 1 (AO), the value in this column must = 0.

If **HHType** is 2 (AC) or 3 (CO), the value in this column must be > 0.

#### HHNoDOB

**Note:** If **HHChild** = 3 and **HHType** = 2, the household is counted in the AC Households with 3 or More Children population.

The value is a count of all household members (up to 3) whose **AgeGroup** is in (98,99).

| Value | Category |
| --- | --- |
| 0 | No person without a valid DOB in household |
| 1 | 1 person without a valid DOB in household |
| 2 | 2 people without a valid DOB in household |
| 3 | 3 or more people without a valid DOB in household |

If **HHType** is 1 (AO) or 3 (CO), the value in this column must be = 0.

If **HHType** = 99 (UN), the value in this column must be > 0.

#### HoHRace and HoHEthnicity

Set values for **HoHRace** and **HoHEthnicity** in tmp\_Household to the **Race** and **Ethnicity** values for the head of household in tmp\_Person.

#### HHVet, HHChronic, HHDisability, HHFleeingDV, and HHParent

Set the value in tmp\_Household to the maximum value for the corresponding column in active\_Household – i.e., if the value is 1 for any *HouseholdID* for the same **HoHID** and **HHType**, set the value in tmp\_Household to 1. Otherwise, set the value to 0.

These columns are used to identify populations of interest:

* Veteran Household (**HHVet** = 1)
* Household with a Chronically Homeless Adult/HoH **(HHChronic** = 1)
* Household with a Disabled Adult/HoH **(HHDisability** = 1)
* Household Fleeing Domestic Violence (**HHFleeingDV** = 1)
* Parenting Children (**HHType** = 3 and **HHParent** = 1)
* Parenting Youth 18-24 – (**HHParent** = 1 and **HHType** = 2 and **HHAdultAge** in (18,24))

#### HHAdultAge

Set **HHAdultAge** based on the first of the criteria below met by any active\_Household record with the same **HHType** and **HoHID**:

| Priority | active\_Household | tmp\_Household.HHAdultAge |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

The populations for which **HHAdultAge** are relevant are:

* AO Unaccompanied Youth 18-21– all household members are between the ages of 18 and 21 (**HHType** = 1 and **HHAdultAge** = 18)
* AO Unaccompanied Youth 22-24 – at least one household member is between 22 and 24; all are between 18 and 24 **(HHType** = 1 and **HHAdultAge** = 24)
* AO Non-Veteran Households 25+ - at least one household member is over 24 (**HHType** = 1 and **HHVet** = 0 and **HHAdultAge** in (25,55))
* AO Senior Households 55+ - all household members are 55 or older (**HHType** = 1 and **HHAdultAge** = 55)
* AC Parenting Youth 18-24 – all adults in the household are between 18 and 24; there are no household members of unknown age (**HHParent** = 1 and **HHType** = 2 and **HHAdultAge** in (18,24))

In general, each distinct combination of **HoHID**/**HHType** from active\_Household is counted in all populations identified for associated *HouseholdIDs*. Technically, a non-veteran served alone –once at age 24 and again at 25 – is a member of two populations:

* Unaccompanied Young Adults 18-24; and
* Non-Veteran Households 25+.

With a single upload value for **HHAdultAge** in LSAHousehold, it isn’t possible to identify both. Inclusion in youth and senior populations is prioritized over the Non-Veteran Households 25+ population.

## EST/RRH/PSHStatus – LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HoHID |
| HHType |
| ProjectType |
| EntryDate |
| ExitDate |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESTStatus** |
| **RRHStatus** |
| **PSHStatus** |

### Logic

Like tmp\_Person, tmp\_Household includes columns to indicate the project groups in which each household was served.

The logic and upload values associated with **ESTStatus**, **RRHStatus**, and **PSHStatus** are identical, aside from the project group. The following sections use ‘x’ in place of the project group identifier – e.g., **xStatus** instead of **ESTStatus**.

Values are based on:

* Earliest *EntryDate* for an active enrollment in project group; and
* A null value for *ExitDate* on any active enrollment in the project group OR the latest *ExitDate.*

For every record in tmp\_Household:

| Earliest x *EntryDate* | Latest x *ExitDate* | xStatus Value |
| --- | --- | --- |
| NULL | n/a | 0 |
| < ReportStart | NULL / there is an active enrollment for x with no *ExitDate* | 11 |
| < ReportStart | Between ReportStart and ReportEnd | 12 |
| >= ReportStart | NULL / there is an active enrollment for x with no *ExitDate* | 21 |
| >= ReportStart | Between ReportStart and ReportEnd | 22 |

Note: 2 is also a valid value for **xStatus** but is not assigned until a later step in section [6.17 Update EST/RRH/PSHStatus](#_Toc525229489).

## RRH/PSHMoveIn – LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HoHID |
| HHType |
| RRHStatus |
| PSHStatus |
| MoveInDate |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **RRHMoveIn** |
| **PSHMoveIn** |

### Logic

Aside from the project type, the logic and upload values associated with *RRHMoveIn* and *PSHMoveIn* are identical. They are based on **RRHStatus** and **PSHStatus**, respectively, and move-in dates for relevant enrollments.

For all records in tmp\_Household:

| xStatus Value | MoveInDate | xMoveIn Value |
| --- | --- | --- |
| <= 2 | Any | -1 |
| > 2 | There is no *MoveInDate* | 0 |
| > 2 | Most recent *MoveInDate* is between ReportStart and ReportEnd | 1 |
| > 2 | Most recent *MoveInDate* < ReportStart | 2 |

## EST/RRH/PSHGeography – LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_ProjectCoC** |
| ProjectID |
| GeographyType |
| **tmp\_Household** |
| HoHID |
| HHType |
| EST/RRH/PSHStatus |
| **active\_Household** |
| HoHID |
| HHType |
| ProjectID |
| EntryDate |
| ExitDate |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESTGeography** |
| **RRHGeography** |
| **PSHGeography** |

### Logic

Set **xGeography** = -1 for households not served in project group during the report period (**xStatus** < 10).

For households served in the project group during the report period (**xStatus** >= 10), **xGeography** is based on:

* The active\_Enrollment for the project group with the latest active date in the report period; and
* The lsa\_ProjectCoC.*GeographyType* for the project.

If a household has more than one project group enrollment on their most recent active date, use the enrollment with the latest *EntryDate*.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 1 | Urban | 1 |
| 2 | Suburban | 2 |
| 3 | Rural | 3 |

## EST/RRH/PSHLivingSit – LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| EST/RRH/PSHStatus |
| **active\_Household** |
| HoHID |
| HHType |
| HouseholdID |
| ProjectType |
| EntryDate |
| **active\_Enrollment** |
| EnrollmentID |
| PersonalID |
| HouseholdID |
| **hmis\_Enrollment** |
| EnrollmentID |
| LivingSituation |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESTLivingSit** |
| **RRHLivingSit** |
| **PSHLivingSit** |

### Logic

#### LSA Living Situation Categories

| Upload Value | Category |
| --- | --- |
| -1 | Not applicable (not served in project group) |
| 1 | Homeless - Street |
| 2 | Homeless - ES/SH |
| 3 | Interim housing |
| 4 | Homeless - TH |
| 5 | Hotel/Motel - no voucher |
| 6 | Residential project |
| 7 | Family |
| 8 | Friends |
| 9 | PSH |
| 10 | PH - own |
| 11 | PH - rent no subsidy |
| 12 | PH - rent with subsidy |
| 13 | Foster care |
| 14 | Long-term care |
| 15 | Institutions - incarceration |
| 16 | Institutions - medical |
| 99 | Unknown |

Set **xLivingSit** = -1 for households not served in project group during the report period (**xStatus** < 10).

For households served in the project group during the report period (**xStatus** > 2), **xLivingSit** is based *LivingSituation* for the enrollment with the earliest *EntryDate* for the project group using the crosswalk below.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 32 | Host home (non-crisis) | 4 |
| 16 | Place not meant for habitation | 1 |
| 1 | Emergency shelter | 2 |
| 18 | Safe Haven | 2 |
| 27 | Interim housing[[3]](#footnote-4) | 3 |
| 2 | Transitional housing for homeless persons | 4 |
| 14 | Hotel or motel paid for without ES voucher | 5 |
| 29 | Residential project with no homeless criteria | 6 |
| 35 | Staying or living with family | 7 |
| 36 | Staying or living with friends | 8 |
| 3 | Permanent housing for formerly homeless persons | 9 |
| 21 | Owned by client, with ongoing housing subsidy | 10 |
| 11 | Owned by client, no ongoing housing subsidy | 10 |
| 10 | Rental by client, no ongoing housing subsidy | 11 |
| 19 | Rental by client, with VASH subsidy | 12 |
| 28 | Rental by client, with GPD TIP subsidy | 12 |
| 20 | Rental by client, with other housing subsidy (including RRH) | 12 |
| 33 | Rental by client, with HCV voucher (tenant or project based) | 12 |
| 34 | Rental by client in a public housing unit | 12 |
| 15 | Foster care home or foster care group home | 13 |
| 25 | Long-term care facility or nursing home | 14 |
| 7 | Jail, prison or juvenile detention facility | 15 |
| 6 | Hospital or other residential non-psychiatric medical facility | 16 |
| 4 | Psychiatric hospital or other psychiatric facility | 16 |
| 5 | Substance abuse treatment facility or detox center | 16 |
|  | (any other) | 99 |

## EST/RRH/PSHDestination – LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| EST/RRH/PSHStatus |
| **active\_Household** |
| HoHID |
| HHType |
| HouseholdID |
| ExitDate |
| ProjectType |
| **active\_Enrollment** |
| EnrollmentID |
| PersonalID |
| HouseholdID |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |
| Destination |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESTDestination** |
| **RRHDestination** |
| **PSHDestination** |

### Logic

#### LSA Destination Categories

| LSA Value | Category |
| --- | --- |
| -1 | Not applicable (not served in project group or active in project group at ReportEnd) |
| 1 | PSH |
| 2 | PH - rent/temp subsidy |
| 3 | PH - rent/own with subsidy |
| 4 | PH - rent/own no subsidy |
| 5 | Family - perm |
| 6 | Friends - perm |
| 7 | Institutions - group/assisted |
| 8 | Institutions - medical |
| 9 | Institutions - incarceration |
| 10 | Temporary - not homeless |
| 11 | Homeless - ES/SH/TH |
| 12 | Homeless - Street |
| 13 | Family - temp |
| 14 | Friends - temp |
| 15 | Deceased |
| 99 | Unknown |

Set **xDestination** = -1 for households not served in project group and households enrolled in project group at ReportEnd (**xStatus** not in (12,22)).

For households that exited the project group during the report period (**xStatus** in (12,22)), **xDestination** is based on the enrollment with the most recent active\_Enrollment.*ExitDate* for the project group:

* If active\_Enrollment.*ExitDate* <> hmis\_Exit.*ExitDate*, set **xDestination** = 99
* Otherwise, set **xDestination** based on hmis\_Exit.Destination using the crosswalk below.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 3 | Permanent housing (other than RRH) for formerly homeless persons | 1 |
| 31 | Rental by client, with RRH or equivalent subsidy | 2 |
| 19 | Rental by client, with VASH housing subsidy | 3 |
| 20 | Rental by client, with other ongoing housing subsidy | 3 |
| 21 | Owned by client, with ongoing housing subsidy | 3 |
| 26 | Moved from one HOPWA funded project to HOPWA PH | 3 |
| 28 | Rental by client, with GPD TIP housing subsidy | 3 |
| 33 | Rental by client, with HCV voucher (tenant or project based) | 3 |
| 34 | Rental by client in a public housing unit | 3 |
| 10 | Rental by client, no ongoing housing subsidy | 4 |
| 11 | Owned by client, no ongoing housing subsidy | 4 |
| 22 | Staying or living with family, permanent tenure | 5 |
| 23 | Staying or living with friends, permanent tenure | 6 |
| 15 | Foster care home or foster care group home | 7 |
| 25 | Long-term care facility or nursing home | 7 |
| 4 | Psychiatric hospital or other psychiatric facility | 8 |
| 5 | Substance abuse treatment facility or detox center | 8 |
| 6 | Hospital or other residential non-psychiatric medical facility | 8 |
| 7 | Jail, prison or juvenile detention facility | 9 |
| 14 | Hotel or motel paid for without emergency shelter voucher | 10 |
| 29 | Residential project or halfway house with no homeless criteria | 10 |
| 32 | Host home (non-crisis) | 11 |
| 1 | Emergency shelter, including hotel or motel paid for with ES voucher | 11 |
| 2 | Transitional housing for homeless persons | 11 |
| 18 | Safe Haven | 11 |
| 27 | Moved from one HOPWA funded project to HOPWA TH | 11 |
| 16 | Place not meant for habitation | 12 |
| 12 | Staying or living with family, temporary tenure | 13 |
| 13 | Staying or living with friends, temporary tenure | 14 |
| 24 | Deceased | 15 |
|  | (any other) | 99 |

## EST/RRH/PSH Population Identifiers

### Relevant Data

#### Source

|  |
| --- |
| **active\_Household** |
| HoHID |
| HHType |
| HHChronic |
| HHVet |
| HHDisability |
| HHFleeingDV |
| HHAdultAge |
| HHParent |
| AC3Plus |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESTChronic** |
| **ESTVet** |
| **ESTDisability** |
| **ESTFleeingDV** |
| **ESTChild** |
| **ESTAdultAge** |
| **ESTParent** |
| **RRHChronic** |
| **RRHVet** |
| **RRHDisability** |
| **RRHFleeingDV** |
| **RRHChild** |
| **RRHAdultAge** |
| **RRHParent** |
| **PSHChronic** |
| **PSHVet** |
| **PSHDisability** |
| **PSHFleeingDV** |
| **PSHChild** |
| **PSHAdultAge** |
| **PSHParent** |

### Logic

In section 6.2, a household is included in any given population as long as at least one **HouseholdID** in active\_Household for the **HoHID**/**HHType** meets the criteria.

The population identifiers listed here use similar logic, but are specific to project group – they are only set if there is a record in active\_Household for the **HoHID**/**HHType** and the project type is consistent with the relevant project group:

* **EST** – active\_household.**ProjectType** in (1,2,8)
* **RRH** – active\_household.**ProjectType** = 13
* **PSH** – active\_household.**ProjectType** = 3

There are no project-group-specific columns for **HoHRace** and **HoHEthnicity** as those are not subject to change with household composition.

#### EST/RRH/PSHAC3Plus

If there is any record in active\_Household for the **HoHID/HHType** where **AC3Plus** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHAC3Plus** to 1. Otherwise, set to 0.

#### EST/RRH/PSHVet

If there is any record in active\_Household for the **HoHID/HHType** where **HHVet** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHVet** to 1. Otherwise, set to 0.

#### EST/RRH/PSHChronic

If there is any record in active\_Household for the **HoHID/HHType** where **HHChronic** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHChronic** to 1. Otherwise, set to 0.

#### EST/RRH/PSHDisability

If there is any record in active\_Household for the **HoHID/HHType** where **HHDisability** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHDisability** to 1. Otherwise, set to 0.

#### EST/RRH/PSHFleeingDV

If there is any record in active\_Household for the **HoHID/HHType** where **HHFleeingDV** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHFleeingDV** to 1. Otherwise, set to 0.

#### EST/RRH/PSHParent

If there is any record in active\_Household for the **HoHID/HHType** where **HHParent** = 1 and **ProjectType** is consistent with the project group, set the value for **EST/RRH/PSHParent** to 1. Otherwise, set to 0.

#### EST/RRH/PSHAdultAge

Set **EST/RRH/PSHAdultAge** based on the first of the criteria below met by any active\_Household record for the relevant project group with the same **HHType** and **HoHID**:

| Priority | active\_Household | EST/RRH/PSHAdultAge |
| --- | --- | --- |
| 1 | **HHAdultAge** = 18 | 18 |
| 2 | **HHAdultAge** = 24 | 24 |
| 3 | **HHAdultAge** = 55 | 55 |
| 4 | **HHAdultAge** = 25 | 25 |
| 5 | (any other) | -1 |

## System Engagement Status and Return Time

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| **active\_Household** |
| HoHID |
| HHType |
| HouseholdID |
| EntryDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| HouseholdID |
| PersonalID |
| ProjectID |
| EntryDate |
| RelationshipToHoH |
| **hmis\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_Client** |
| PersonalID |
| DOB |
| DOBDataQuality |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |
| Destination |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **FirstEntry** |
| **Stat** |
| **StatEnrollmentID** |
| **ReturnTime** |

### Logic

System engagement status specifies whether or not active households were actively engaged with continuum ES, SH, TH, RRH, and/or PSH projects in the two years prior to their earliest active date in the report period in the following categories:

| Value | Stat |
| --- | --- |
| 1 | First-time homeless |
| 2 | Return to continuum 15-730 days after exit to permanent destination |
| 3 | Re-engage with continuum 15-730 days after exit to temporary destination |
| 4 | Re-engage with continuum 15-730 days after exit to unknown destination |
| 5 | Continuous engagement with continuum |

#### FirstEntry

A household’s **FirstEntry** is the earliest *EntryDate* associated with any active\_Enrollment.

If **FirstEntry** < ReportStart, **Stat** = 5 – the active enrollment is part of a period of continuous engagement with the continuum that began prior to the report period.

If **FirstEntry** >= ReportStart, it is necessary to look for inactive enrollments for the household in the two years prior to determine status.

#### Previous Activity / StatEnrollmentID

A household has two distinguishing characteristics: the *PersonalID* of the head of household and the household type. In order to be considered the same household, any previous enrollment must have the same person identified as head of household and the household type must be the same.

**StatEnrollmentID** is the *EnrollmentID* with the most recent (effective) *ExitDate* where:

* *PersonalID* = tmp\_Household.**HoHID**
* Enrollment.*RelationshipToHoH* = 1
* There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
* Project.*OperatingEndDate* is NULL or Project.*OperatingEndDate* > [**FirstEntry** – 730 days]
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
* Exit*.ExitDate* > Enrollment.*EntryDate*
* Exit*.ExitDate* > [**FirstEntry** – 730 days] and Exit.*ExitDate* < **FirstEntry**
* There is an EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* = ReportCoC
* There is no later EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* <> ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between [**FirstEntry** – 730 days] and [*ExitDate – 1 day*]
* Household type (see next) matches tmp\_Household.**HHType** based on all enrollments with the same *HouseholdID* where:
  + *ExitDate* > [**FirstEntry** – 730 days] and Exit.*ExitDate* < **FirstEntry** (i.e., exclude any household members who exited more than two years prior to FirstEntry from **HHType** calculation)

#### Household Type for Inactive Enrollments

Household type for inactive enrollments is calculated based on the ages of all household members as of their own entry dates.

As is the case for active enrollments, all dates of birth must be validated; age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is not ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* *DOB* + 105 years <= *EntryDate*;
* *DOB* > *EntryDate*; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate*

For clients with valid dates of birth:

* If *DOB* + 18 years > *EntryDate*, client is a Child
* If *DOB* + 18 years <= *EntryDate*, client is an Adult

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### ReturnTime

If StatEnrollmentID is NULL, **ReturnTime** = -1

Otherwise, set **ReturnTime** based on the number of days between StatEnrollmentID.**ExitDate** and **FirstEntry**:

| Value | Category |
| --- | --- |
| -1 | 0-14 days |
| 30 | 15-30 days |
| 60 | 31-60 days |
| 90 | 61-90 days |
| 180 | 91-180 days |
| 365 | 181-365 days |
| 547 | 366-547 days |
| 730 | 548-730 days |

#### Stat

| Stat | Category | HMIS Destination Values | Other Condition |
| --- | --- | --- | --- |
| 1 | First-time homeless | (n/a) | **StatEnrollmentID** is NULL |
| 2 | Return 15-730 days after exit to permanent destination | 3,31,19,20,21,26,28,10,11,22,23 | **ReturnTime** between 30 and 730 |
| 3 | Re-engage 15-730 days after exit to temporary destination | 15,25,4,5,6,7,14,29,1,2,18,27,16,12,13, 32 | **ReturnTime** between 30 and 730 |
| 4 | Re-engage 15-730 days after exit to unknown destination | (any other) | **ReturnTime** between 30 and 730 |
| 5 | Continuous engagement with continuum | (n/a) | **StatEnrollmentID** is not NULL and **ReturnTime** = -1 |

## RRHPreMoveInDays - LSAHousehold

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| **active\_Household** |
| HoHID |
| HHType |
| ProjectType |
| EntryDate |
| MoveInDate |
| ExitDate |

#### Target

| **tmp\_Household** | **Column Description** |
| --- | --- |
| **RRHPreMoveInDays** | Counts of actual days are set in tmp\_Household; counts of active households are grouped by ranges – e.g., ‘1-7 days’, ‘8-30 days’, etc. – in the corresponding **LSAHousehold** column.  Averages based on the counts of actual days are inserted to LSACalculated. (See section [8.4 Get Average Days for Length of Time in RRH Projects](#_Get_Average_Days_2).) |

### Logic

The logic associated with the LSAHousehold.**RRHPreMoveInDays** column differs from others that count days engaged in various parts of the system, referred to collectively as ‘system use days.’ The other counts resolve potential data conflicts so that each day has a single status and is counted only once. For example, days spent in RRH prior to move-in that overlap with days in emergency shelter are counted as ES days.

The **RRHPreMoveInDays** column is a count of days enrolled in any RRH project but not housed, regardless of other system use data.

For each record in active\_Household where **HoHID**/**HHType** = tmp\_Household. **HoHID**/**HHType** and **ProjectType** = 13, set **RRHPreMoveInDays** = a count of the distinct dates between any active\_Enrollment.**EntryDate** and the earliest associated non-null value for:

* **MoveInDate** – 1 day
* **ExitDate**
* ReportEnd

## Get Enrollments Relevant to Last Inactive Date and Other System Use Days (sys\_Enrollment)

Counts of dates housed in PSH and RRH, set in the previous section, are based on active enrollments and include days both prior to and within the report period.

Counts of dates of other system use – set in subsequent sections – include all dates through ReportEnd in continuum ES/SH/TH/RRH/PSH projects that are part of a period of continuous system engagement. This includes active enrollments and, for households with prior enrollment activity, may also include dates associated with inactive enrollments (i.e., *ExitDate* < ReportStart).

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| Stat |
| **hmis\_Project** |
| OperatingStartDate |
| OperatingEndDate |
| ContinuumProject |
| ProjectType |
| TrackingMethod |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

|  |  |
| --- | --- |
| **sys\_Enrollment** | **Column Description** |
| **HoHID** | HoHID – tmp\_Household |
| **HHType** | * For active enrollments, the household type as set in active\_Household * For inactive enrollments, the household type calculated as of the *EntryDate* for the head of household |
| **EnrollmentID** | From hmis\_Enrollment |
| **ProjectType** | From hmis\_Project |
| **EntryDate** | NULL indicates a night-by-night ES enrollment.  For all others, the *EntryDate* for the enrollment. |
| **MoveInDate** | For RRH/PSH enrollments, the *MoveInDate*, if any. |
| **ExitDate** | The *ExitDate* for the enrollment, adjusted if necessary to resolve data conflicts with the project’s *OperatingEndDate*. |

### Logic

The logic described in this section selects the universe of enrollments which either are (active enrollments) or might be (inactive enrollments) part of each household’s period of continuous engagement. Subsequent sections define the logic associated with determining which, if any, of the inactive enrollments are relevant.

Both active enrollments and inactive enrollments (i.e, *ExitDate* < ReportStart) for each distinct **HoHID**/**HHType** in tmp\_Household are represented in the data construct sys\_Enrollment.

The sys\_Enrollment data construct includes:

* All active enrollments where *RelationshipToHoH* = 1; and
* Inactive enrollments where:
  + *PersonalID* = tmp\_Household.**HoHID**
  + Enrollment.*RelationshipToHoH* = 1
  + There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
  + Project.*ProjectType* in (1,2,3,8,13)
  + Project.*ContinuumProject* = 1
  + Project.*OperatingEndDate* is NULL or Project.*OperatingEndDate* > 10/1/2012
  + Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
  + Exit*.ExitDate* > Enrollment.*EntryDate*
  + Exit*.ExitDate* > 10/1/2012
  + There is an EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* = ReportCoC
  + If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record > 10/1/2012
  + Household type (see next) matches tmp\_Household.**HHType** based on all enrollments with the same *HouseholdID* where *ExitDate* > 10/1/2012

The logic associated with determining which, if any, of the inactive enrollments included in sys\_Enrollment are part of a period of continuous system engagement and actually relevant to counts of system use days is described in a following section.

#### Household Type for Active Enrollments

Household type for any active enrollment should always be calculated based on the ages of all household members active during the report period as of the later of their own *EntryDate* or ReportStart – i.e., as described in section.

#### Household Type for Inactive Enrollments

Household type for inactive enrollments is calculated based on the ages of all household members as of their own entry dates.

For clients with valid dates of birth:

**Note:** As is the case for active enrollments, all dates of birth must be validated; age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is not ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* *DOB* + 105 years <= *EntryDate*;
* *DOB* > *EntryDate*; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate*
* If *DOB* + 18 years > *EntryDate*, client is a Child
* If *DOB* + 18 years <= *EntryDate*, client is an Adult

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### Night-by-Night Shelters

For enrollments in night-by-night shelters (*ProjectType*= 1 and *TrackingMethod* = 3), only dates with a recorded bed night are counted as system use days. Creating a record in the sys\_Enrollment construct for these enrollments where *EntryDate* is null – regardless of bed nights – simplifies later steps.

#### ExitDate > OperatingEndDate

For any enrollment that remains open at the time a project ceases operation, the project’s *OperatingEndDate* is the effective *ExitDate*. Bed-nights and/or other dates after a project’s end date are not counted; references to sys\_Enrollment.**ExitDate** in subsequent steps assume this adjustment.

## Get Last Inactive Date

This step identifies, based on active enrollments and the potentially relevant inactive enrollments from the previous step, the date immediately prior to the first day of continuous system engagement for which all system use days are counted – or the household’s last inactive date.

Specifically, this is the latest date in the most recent period of at least seven nights during which a household was not enrolled in a continuum ES, SH, TH, RRH, or PSH project AND was not housed in RRH or PSH. This is the date after which all system use days are reportable. Enrollments in sys\_Enrollment that occurred before the last inactive date are excluded from counts of system use days in the next section.

### RelevantData

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| FirstEntry |
| **sys\_Enrollment** |
| HoHID |
| HHType |
| EntryDate |
| ExitDate |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate |

#### Target

|  |
| --- |
| **tmp\_Household** |
| **LastInactive** |

### Logic

**LastInactive** is the later of 9/30/2012 and the most recent date where:

* [Date] < tmp\_Household.**FirstEntry**
* [Date] is not between a sys\_Enrollment.*BedNightDate* and (*BedNightDate* + 6 days); and
* [Date] is not between a sys\_Enrollment.**EntryDate** and the associated (**ExitDate** + 6 days)

## Get Dates of Other System Use (sys\_Time)

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| LastInactive |
| **sys\_Enrollment** |
| HoHID |
| HHType |
| ProjectType |
| EntryDate |
| ExitDate |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate (DateProvided where RecordType = 200) |

#### Target

See section [6.16 Dates Housed in PSH or RRH](#_Dates_Housed_in) for column descriptions.

|  |
| --- |
| **sys\_Time** |
| **HoHID** |
| **HHType** |
| **sysDate** |
| **sysStatus** |

### Logic

In order to create a record in sys\_Time for a household on any given [Date], the following must be true:

**Note:** The sys\_Time data construct is populated with dates housed in RRH (sysStatus = 2) or PSH (sysStatus = 1) in a later step. Other system use days which do not conflict with dates housed on RRH/PSH are added in this step.

* [Date] is not in sys\_Time for the same **HoHID**/**HHType;** and
* [Date] > tmp\_Household.**LastInactive**; and
* [Date] <= ReportEnd.

The **sysStatus** values referenced in the next sections are based on project type:

| Value | Category |
| --- | --- |
| 3 | In transitional housing |
| 4 | In emergency shelter/Safe Haven |
| 5 | Enrolled but not housed in PSH |
| 6 | Enrolled but not housed in RRH |

If a [Date] meets the criteria for more than one **sysStatus** based on the list below, use the **sysStatus** with the lowest value. For example, if a client has overlapping enrollments in both an emergency shelter (**sysStatus** = 4) and a transitional housing project (**sysStatus** = 3) on a single date, the **sysStatus** for that date should be the lower of the two values (3).

|  |  |
| --- | --- |
| Value | Criteria |
| 3 | [Date] between **EntryDate** and **ExitDate**/ReportEndand **ProjectType** = 2 |
| 4 | [Date] between **EntryDate** and **ExitDate**/ReportEndand  **(ProjectType** = 8 or (**ProjectType** = 1 and **TrackingMethod**= 0)) |
| 4 | [Date] = *BedNightDate* and **ProjectType** = 1 **TrackingMethod**= 3 and **EntryDate** is NULL |
| 5 | [Date] >= **EntryDate** and < **MoveInDate** and **ProjectType** = 3 |
| 5 | [Date] between **EntryDate** and **ExitDate**/ReportEndand **MoveInDate** is NULL and **ProjectType** = 3 |
| 6 | [Date] >= **EntryDate** and < **MoveInDate** and **ProjectType** = 13 |
| 6 | [Date] between **EntryDate** and **ExitDate**/ReportEndand **MoveInDate** is NULL and **ProjectType** = 13 |

## Get Other Dates Homeless from 3.917A/B Living Situation

Dates that are documented as Street/ES/SH dates in *3.917 Living Situation*, do not have a status based on system use, and are contiguous to the period of continuous engagement should be counted as Street/ES/SH dates for LOTH reporting. Unlike system use, this may include both dates prior to **LastInactive** and dates prior to 10/1/2012**.**

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| LastInactive |
| **sys\_Enrollment** |
| HoHID |
| HHType |
| EnrollmentID |
| ProjectType |
| EntryDate |
| ExitDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| LivingSituation |
| LengthOfStay |
| PreviousStreetESSH |
| DateToStreetESSH |

#### Target

See section [6.16 Dates Housed in PSH or RRH](#_Dates_Housed_in) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **Other3917Days** |

### Logic

For any **EnrollmentID** from sys\_Enrollment where:

* *EntryDate >* **LastInactive**; and
* **HoHID**/**HHType** = tmpHousehold **HoHID**/**HHType**; and
  + *LivingSituation* in (1,18,16) or *ProjectType* in (1,8); or
  + *ProjectType* not in (1,8) and *LengthOfStay* in (10, 11) and *PreviousStreetESSH* = 1; or
  + *ProjectType* not in (1,8) and *LivingSituation* in (4,5,6,7,15,25) and *LengthOfStay* in (2,3) and *PreviousStreetESSH* = 1

The value of **Other3917Days** is equal to the count of all dates:

* Between the later of *DateToStreetESSH* or **LastInactive** and the day prior to the associated *EntryDate* where the date does not already have a status based on system use.
* Between any *DateToStreetESSH* and the day prior to **LastInactive** where the associated *EntryDate* is > LastInactive.

## Set System Use Days for LSAHousehold

Counts of actual days are set in tmp\_Household; counts of active households are grouped by ranges – e.g., ‘1-7 days’, ‘8-30 days’, etc. – in the corresponding **LSAHousehold** column.

The values in tmp\_Household are the source for averages in LSACalculated; see section [8.1 Get Average Days for Length of Time Homeless](#_Get_Average_Days_3) through section 8.8.

### Relevant Data

#### Source

|  |
| --- |
| **sys\_Time** |
| HoHID |
| HHType |
| sysDate |
| sysStatus |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESDays** |
| **THDays** |
| **ESTDays** |
| **RRHPSHPreMoveInDays** |
| **RRHHousedDays** |
| **SystemDaysNotPSHHoused** |
| **SystemHomelessDays** |
| **Other3917Days** |
| **TotalHomelessDays** |
| **PSHHousedDays** |

### Logic

Thevalues for system use days columns in tmp\_Household should be set to the actual number of days counted and NOT the associated upload value; the actual number of days are needed to generate averages for LSACalculated.

#### ESDays

This is the total number of days in emergency shelter or Safe Haven for active enrollments and inactive enrollments that fall within a period of continuous system engagement that extends into the report period. ES days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH or enrolled in a transitional housing project.

Set **ESDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 4 and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### THDays

This is the total number of days in transitional housing for active enrollments and inactive enrollments that fall within a period of continuous system engagement that extends into the report period. TH days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH.

Set **THDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 3 and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### ESTDays

This is the total number of days in emergency shelter, Safe Haven, and/or transitional housing – **ESDays** + **THDays**.

Set **ESTDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** in (3,4) and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### RRHPSHPreMoveInDays

This is the total number of days enrolled but not housed in RRH and/or PSH projects for active enrollments and for inactive RRH/PSH enrollments *without move-in dates* that fall within a period of continuous system engagement that extends into the report period. Pre-move-in days are not counted if conflicting enrollment data shows that the household was housed in RRH/PSH, enrolled in a transitional housing project, or in emergency shelter or Safe Haven.

Set **RRHPSHPreMoveInDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** in (5,6) and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### SystemHomelessDays

This is the total number of days in emergency shelter, Safe Haven, transitional housing, and/or enrolled but not housed in RRH/PSH – **ESTDays + RRHPSHPreMoveInDays**.

Set **SystemHomelessDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** in (3,4,5,6) and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### RRHHousedDays

This is the total number of days housed in RRH for active enrollments. RRH housed days are not counted if conflicting enrollment data shows that the household was housed in PSH.

Set **RRHHousedDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 2 and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### SystemDaysNotPSHHoused

This is the total number of days in emergency shelter, Safe Haven, transitional housing, enrolled but not housed in RRH/PSH and/or housed in RRH – **SystemHomelessDays** **+ RRHHousedDays**.

Set **SystemDaysNotPSHHoused**= count of distinct **sysDate**s in sys\_Time where **sysStatus** in (2,3,4,5,6) and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### PSHHousedDays

This is the total number of days housed in PSH for active enrollments.

Set **PSHHHousedDays** = count of distinct **sysDate**s in sys\_Time where **sysStatus** = 1 and **HoHID/HHType** = tmp\_Household **HoHID/HHType.**

#### Other3917Days

This is the total number of days not already accounted for when the household reported being on the street or in ES/SH in *3.917A/B Prior Living Situation*.

Set **Other3917Days** = the sum of:

* The count of distinct **sysDate**s in sys\_Time where **sysStatus** = 7 and **HoHID/HHType** = tmp\_Household **HoHID/HHType;** and
* The count of distinct dates between the earliest relevant *DateToStreetESSH* and **LastInactive** – or the difference in days between the earliest *DateToStreetESSH* and **LastInactive**, as described in section 6.12.

## Dates Housed in PSH or RRH (sys\_Time)

The primary key for sys\_Time is the unique combination of **HoHID**, **HHType**, and **sysDate** – i.e., no date can be counted with more than one status for any given LSA household.

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| **active\_Household** |
| HoHID |
| HHType |
| HouseholdID |
| ProjectType |
| **active\_Enrollment** |
| PersonalID |
| HouseholdID |
| MoveInDate |
| ExitDate |

#### Target

|  |  |
| --- | --- |
| **sys\_Time** | **Column Description** |
| **HoHID** | HoHID – tmp\_Household |
| **HHType** | HHType – tmp\_Household |
| **sysDate** | Distinct dates enrolled in a continuum project and/or Street/ES/SH dates from *3.917 Living Situation* |
| **sysStatus** | This step identifies dates when the household was:   * 1 = Housed in PSH * 2 = Housed in RRH   Subsequent steps identify dates:   * 3 = In TH * 4 = In ES/SH * 5 = In PSH pre-move-in * 6 = In RRH pre-move-in * 7 = Street/ES/SH (3.917) |

### Logic

LSAHousehold includes counts of the total number of days that a head of household was either homeless and/or engaged in various parts of the system, referred to collectively as ‘system use days.’ The counts are grouped by the client’s system status – i.e., ‘Days in TH’ or ‘Days Housed in PSH’ – on each relevant date.

Similar to the process of counting days for chronic homelessness, a head of household’s system use status for any given date is assigned in priority order, using the *first* status from the list below, in priority order, for which the HoH meets the identified criteria.

| Priority | Status | [Date] |
| --- | --- | --- |
| 1 | Housed in PSH | >= *MoveInDate* and  <= The first non-NULL of (*ExitDate* – 1 day) or ReportEnd |
| 2 | Housed in RRH | *= MoveInDate* |
| 2 | Housed in RRH | > *MoveInDate* and  <= The first non-NULL of (*ExitDate* – 1 day) or ReportEnd |
| 3 | In TH | >= *EntryDate* and  <= The first non-NULL of (*ExitDate* – 1 day) or ReportEnd |
| 4 | In entry-exit ES/SH | >= *EntryDate* and  <= The first non-NULL of (*ExitDate* – 1 day) or ReportEnd |
| 4 | In night-by-night ES | = *BedNightDate* |
| 5 | Enrolled but not housed in PSH | >= *EntryDate* and  <= The first non-NULL of (*MoveInDate* – 1 day*), ExitDate,* and ReportEnd |
| 6 | Enrolled but not housed in RRH | >= *EntryDate* and  <= The first non-NULL of (*MoveInDate* – 1 day*), ExitDate,* and ReportEnd |
| 7 | Street/ES/SH (3.917) | >= *DateToStreetESSH* and < *EntryDate* |

In the CH process, dates associated with any *EnrollmentID* for a given client may be relevant, regardless of household type or head of household status for the enrollment. However, system use days for a household are only counted for enrollments where the two defining characteristics of a household – **HoHID** and **HHType** – match tmp\_Household.

#### Dates Housed in PSH

Dates housed in PSH are counted only for active enrollments.

For each **HoHID**/**HHType** in tmp\_Household, create a record with a **sysStatus** = 1 in sys\_Time for any [Date] <= ReportEnd where:

* active\_Household.**HoHID =** tmp\_Household**.HoHID;** and
* active\_Household.**HHType** = tmp\_Household.**HHType**; and
* active\_Household.**ProjectType** = 3; and
* active\_Enrollment.**HouseholdID =** active\_Household.**HouseholdID**; and
* active\_Enrollment.**PersonalID =** active\_Household.**HoHID**; and
* active\_Enrollment.**MoveInDate** <= [Date] ; and
* active\_Enrollment.**ExitDate** > [Date] or is null

#### Dates Housed in RRH

Dates housed in RRH are counted only for active enrollments. As noted in section 2.2 ([HMIS Data Requirements and Assumptions](#_HMIS_Data_Requirements)) and reflected in the criteria listed below, the *MoveInDate* for an RRH enrollment is counted as a date housed even if it is equal to the *ExitDate*.

For each **HoHID**/**HHType** in tmp\_Household, create a record with a **sysStatus** = 2 in sys\_Time for any [Date] <= ReportEnd where:

* There is no existing record for the **HoHID**/**HHType**/**Date** in sys\_Time (i.e., the household was not housed in PSH on the date); and
* active\_Household.**HoHID =** tmp\_Household**.HoHID;** and
* active\_Household.**HHType** = tmp\_Household.**HHType**; and
* active\_Household.**ProjectType** = 13; and
* active\_Enrollment.**HouseholdID =** active\_Household.**HouseholdID**; and
* active\_Enrollment.**PersonalID =** active\_Household.**HoHID**; and
* active\_Enrollment.**MoveInDate** <= [Date] ; and
  + active\_Enrollment.**ExitDate** > [Date]; or
  + active\_Enrollment.**ExitDate** is null; or
  + [Date] = active\_Enrollment.**ExitDate** and [Date] =active\_Enrollment.**MoveInDate**

## Update EST/RRH/PSHStatus

For any **HoHID**/**HHType** in tmp\_Household where **Stat** = 5 (continuous engagement), the household may have system use days from prior to the report period for project types other than those from the report period. This step updates the values for EST/RRH/PSHStatus to reflect that.

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| HoHID |
| HHType |
| Stat |
| **sys\_Time** |
| HoHID |
| HHType |
| sysStatus |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **ESTStatus** |
| **RRHStatus** |
| **PSHStatus** |

### Logic

Set **ESTStatus** = 2 (Served in contiguous period prior to report start only) where:

* **ESTStatus** = 0 and
* Any record in sys\_Time for the **HoHID**/**HHType** has a **sysStatus** in (3,4)

Set **RRHStatus** = 2 (Served in contiguous period prior to report start only) where:

* **RRHStatus** = 0 and
* Any record in sys\_Time for the **HoHID**/**HHType** has a **sysStatus** = 6

Set **PSHStatus** = 2 (Served in contiguous period prior to report start only) where:

* **PSHStatus** = 0 and
* Any record in sys\_Time for the **HoHID**/**HHType** has a **sysStatus** = 5

## Set EST/RRH/PSHAHAR

The EST/RRH/PSHAHAR columns identify Households relevant to the AHAR reporting universe.

### Relevant Data

#### Source

|  |
| --- |
| **sys\_Time** |
| HoHID |
| HHType |
| sysStatus |
| sysDate |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column descriptions.

|  |
| --- |
| **tmp\_Household** |
| **AHAREST** |
| **AHARRRH** |
| **AHARPSH** |

### Logic

Set **ESTAHAR** = 1 for households with one or more bed nights in the report period:

* **sysDate** between ReportStart and ReportEnd and **sysStatus** in (3,4)

Set **RRHAHAR** = 1 for households with one or more bed nights in the report period:

* **sysDate** between ReportStart and ReportEnd and **sysStatus** 2

Set **PSHAHAR** = 1 for households with one or more bed nights in the report period:

* **sysDate** between ReportStart and ReportEnd and **sysStatus** 1

For households with no bed nights in the report period in a given project group, set the value to 0.

## Set SystemPath for LSAHousehold

The **SystemPath** column is technically redundant – it is based entirely on values in other LSAHousehold columns – but having the value in a single column simplifies the processes of populating LSACalculated and, in the HDX 2.0, generating report tables.

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Household** |
| ESTStatus |
| RRHStatus |
| PSHStatus |
| PSHMoveIn |
| ESDays |
| THDays |

#### Target

See section [6.1 Get Distinct Households for LSAHousehold](#_Get_Distinct_Households) for column description.

|  |
| --- |
| **tmp\_Household** |
| **SystemPath** |

### Logic

As noted previously, heads of household housed in PSH at ReportStart who did not enroll in any other project types during the report period are excluded from all reporting on LOTH and system path. For those households, **SystemPath** is always set to -1. The critiera for all values are listed below.

| Name | SystemPath | ESTStatus | ESDays | THDays | RRHStatus | PSHStatus | PSHMoveIn |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Not applicable | -1 | Not in (21,22) | -- | -- | Not in (21,22) | -- | = 2 |
| ES/SH only | 1 | -- | >= 1 | = 0 | = 0 | = 0 | -- |
| TH only | 2 | -- | = 0 | >= 1 | = 0 | = 0 | -- |
| ES/SH + TH | 3 | -- | >= 1 | >= 1 | = 0 | = 0 | -- |
| RRH only | 4 | = 0 | -- | -- | >= 11 | = 0 | -- |
| ES/SH + RRH | 5 | -- | >= 1 | = 0 | >= 2 | = 0 | -- |
| TH + RRH | 6 | -- | = 0 | >= 1 | >= 2 | = 0 | -- |
| ES/SH + TH + RRH | 7 | -- | >= 1 | >= 1 | >= 2 | = 0 | -- |
| PSH only | 8 | = 0 | -- | -- | = 0 | >= 11 | <> 2 |
| ES/SH + PSH | 9 | -- | >= 1 | = 0 | = 0 | >= 11 | <> 2 |
| ES/SH + PSH | 9 | In (21,22) | >= 1 | = 0 | = 0 | >= 11 | = 2 |
| ES/SH + RRH + PSH | 10 | -- | >= 1 | = 0 | >= 2 | >= 11 | <> 2 |
| ES/SH + RRH + PSH | 10 | In (21,22) | >= 1 | = 0 | In (21,22) | >= 11 | = 2 |
| RRH + PSH | 11 | = 0 | -- | -- | >= 2 | >= 11 | <> 2 |
| RRH + PSH | 11 | = 0 | -- | -- | In (21,22) | >= 11 | = 2 |
| All other | 12 | (any combination not specified above) | | | | | |

# HMIS Business Logic: Values for LSAExit

## Get Exit Cohort Dates (tmp\_CohortDates)

The objective of this step is to identify households with qualifying exits in each exit cohort period. Each household with a qualifying exit in the cohort period is represented by the distinct combination of the **Cohort**, the *PersonalID* for the head of household (**HoHID**), and household type (**HHType**).

**Cohort** identifies which exit cohort the household is in. These categories are not mutually exclusive; a household may be included in one or all exit cohorts.

Each distinct combination of **Cohort**, the *PersonalID* for the head of household (**HoHID**), and household type (**HHType**) associated with one or more qualifying exits in the cohort period represents a single household/cohort member for LSAExit.

As with the active cohort, a household is identified based on each unique combination of HoHID/HHType. Aside from the dates, there are no differences in logic among the three exit cohorts.

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_Report** |
| ReportStart |
| ReportEnd |

#### Target

|  |  |
| --- | --- |
| **tmp\_CohortDates** | **Column Description** |
| **Cohort** | -2, -1, 0 |
| **CohortStart** | The first day of the cohort period, based on ReportStart. |
| **CohortEnd** | The last day of the cohort period, based on ReportEnd. |

### Logic

Identify the relevant date ranges for each of the three exit cohorts based on ReportStart and ReportEnd.

| Cohort | CohortStart | CohortEnd |
| --- | --- | --- |
| 0 | ReportStart | ReportEnd – 6 months  If ReportEnd – 6 months < ReportStart, use ReportEnd |
| -1 | ReportStart – 1 year | ReportEnd – 1 year |
| -2 | ReportStart – 2 year | ReportEnd – 2 year |

## Identify Qualifying Exits for Exit Cohorts (ex\_Enrollment)

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_CohortDates** |
| Cohort |
| CohortStart |
| CohortEnd |
| **hmis\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |
| Destination |

#### Target

|  |  |
| --- | --- |
| **ex\_Enrollment** | **Column Description** |
| **Cohort** | Cohort; distinct combinations of **HoHID**, **HHType**, and **Cohort** serve as a primary key. |
| **HoHID** | *PersonalID* for heads of active households; distinct combinations of **HoHID**, **HHType**, and **Cohort** serve as a primary key. |
| **HHType** | The household type calculated based on ages of all household members with exits in the cohort period as of the later of CohortStart and *EntryDate* |
| **EnrollmentID** | The head of household’s *EnrollmentID* |
| **ProjectType** | (From hmis\_Project) |
| **EntryDate** | (From hmis\_Enrollment) |
| **MoveInDate** | Move-in date for RRH/PSH enrollments, which may differ from the recorded *MoveInDate* in HMIS. (See below.) |
| **ExitDate** | The effective *ExitDate* for the HoH enrollment, which may differ from the *ExitDate* recorded in HMIS. (See below.) |
| **LastBednight** | If *ProjectType* = 1 and *TrackingMethod* = 3, the latest *BedNightDate* for the HoH between CohortStart and CohortEnd from hmis\_Services |
| **ExitTo** | Identifies the exit destination |

### Logic

#### Qualifying Exits

If **LSAScope** = 1 (Systemwide LSA):

* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
* Project.*OperatingEndDate* is NULL or Project.OperatingEndDate >= CohortStart

If **LSAScope** = 2 (Project-Focused LSA):

* *ProjectID* in lsa\_Project
* *ProjectType* in (1,2,3,8,13)

Regardless of **LSAScope**, a potentially-qualifying exit (PQE) meets the following criteria:

* Enrollment.*RelationshipToHoH* = 1
* There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
* Exit.*ExitDate* between CohortStart and CohortEnd
* Exit*.ExitDate* > Enrollment.*EntryDate*
* There is an EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* = ReportCoC
* There is no later EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* <> ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between CohortStart and CohortEnd
* There is no record of disqualifying enrollment activity (referred to below as OtherActivity) for the distinct **HoHID**/**HHType** for at least 14 days after the *ExitDate* where:
  + [OtherActivity].*ProjectType* in (1,2,3,8,13)
  + [OtherActivity].*ContinuumProject* = 1
  + [OtherActivity].*EnrollmentCoC* = ReportCoC
  + [OtherActivity].*RelationshipToHoH* = 1and *PersonalID* = [PQE].PersonalID
  + [OtherActivity].*EntryDate <*= [PQE.*ExitDate* + 14 days]
  + [OtherActivity].*ExitDate is NULL or* [OtherActivity].*ExitDate > Exit.ExitDate*
  + [OtherActivity].**HHType**, as calculated based on ages for all household members with enrollments active in the 14 days after PQE.*ExitDate*, = PQE.**HHType**

#### Head of Household (HoHID)

The HoHID is the *PersonalID* for the head of household (Enrollment.*PersonalID*).

#### Last Bed Night for Night-by-Night Shelter Enrollments

If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, **LastBedNight** refers to the most recent record (Services.*RecordType* = 200) of a bed night associated with the head of household’s enrollment where:

* *DateProvided* between CohortStart and CohortEnd; and
* *DateProvided* >= Enrollment.*EntryDate*; and
* *DateProvided* < Exit.*ExitDate* or Exit.*ExitDate* is NULL; and
* *DateProvided* <= Project.*OperatingEndDate* or Project.*OperatingEndDate* is NULL.

#### Household Type for Potentially Qualifying Exits

For clients with valid dates of birth:

As with the active cohort, household type for enrollments with a qualifying exit in the cohort period is calculated based on household members ages as of an **AgeDate**, which is *EntryDate* or CohortStart (instead of ReportStart), whichever is later.

As is the case for active enrollments, all dates of birth must be validated; age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is not ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* *DOB* + 105 years <= **AgeDate**;
* *DOB* > **AgeDate**; or
* *RelationshipToHoH* = 1 and *DOB* = **AgeDate**
* If *DOB* + 18 years > **AgeDate**, client is a Child
* If *DOB* + 18 years <= **AgeDate**, client is an Adult

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | Upload Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### Exit Date

In the event that the recorded *ExitDate* (or lack thereof) associated with an enrollment is inconsistent with other data, reporting must be based on an adjusted *ExitDate* consistent with the logic below.

* For any enrollment that remains open at the time a project ceases operation, the project’s *OperatingEndDate* is the effective *ExitDate*.
* The effective *ExitDate* is [LastBednight + 1 day] for any enrollment in a night-by-night shelter where:
  + The recorded *ExitDate* is more than one day after the last bed night; or
  + There is no *ExitDate* and LastBedNight is 90 days or more prior to ReportEnd.

If applicable, **ExitTo** (Destination) is reported as ‘Unknown’ (99) for these enrollments.

|  |  |
| --- | --- |
| Condition | Effective Exit Date |
| [**LastBednight** + 90 days] <= CohortEnd and *ExitDate* is NULL | [**LastBednight**+ 1 day] |
| *ExitDate* > [**LastBednight** + 1 day] | [**LastBednight**+ 1 day] |
| Project.*OperatingEndDate* < CohortEnd and *ExitDate* is NULL | Project.*OperatingEndDate* |
| Project.*OperatingEndDate* < CohortEnd and *ExitDate* > Project.*OperatingEndDate* | Project.*OperatingEndDate* |
| (any other) | *ExitDate* |

#### Move-In Date

The *MoveInDate* is set from the HMIS enrollment record only if it is logically consistent with the project type, the head of household’s entry/exit dates, and the project’s operating dates.

|  |  |
| --- | --- |
| Condition | Effective Move-In Date |
| *ProjectType* not in (3,13) | NULL |
| *MoveInDate* < *EntryDate* | NULL |
| Project.*ProjectType* = 3 and *MoveInDate* >= Exit.*ExitDate* | NULL |
| Project.*ProjectType* = 13 and *MoveInDate* > Exit.*ExitDate* | NULL |
| (any other) | *MoveInDate* |

#### ExitTo

If the effective *ExitDate* differs from the value in HMIS, set **ExitTo**  = 99 (Unknown).

Otherwise, crosswalk the *Destination* value to the appropriate **ExitTo** value below.

| HMIS Value | HMIS Response Category | LSA Value |
| --- | --- | --- |
| 3 | Permanent housing (other than RRH) for formerly homeless persons | 1 |
| 31 | Rental by client, with RRH or equivalent subsidy | 2 |
| 19 | Rental by client, with VASH housing subsidy | 3 |
| 20 | Rental by client, with other ongoing housing subsidy | 3 |
| 21 | Owned by client, with ongoing housing subsidy | 3 |
| 26 | Moved from one HOPWA funded project to HOPWA PH | 3 |
| 28 | Rental by client, with GPD TIP housing subsidy | 3 |
| 10 | Rental by client, no ongoing housing subsidy | 4 |
| 11 | Owned by client, no ongoing housing subsidy | 4 |
| 22 | Staying or living with family, permanent tenure | 5 |
| 23 | Staying or living with friends, permanent tenure | 6 |
| 15 | Foster care home or foster care group home | 7 |
| 25 | Long-term care facility or nursing home | 7 |
| 4 | Psychiatric hospital or other psychiatric facility | 8 |
| 5 | Substance abuse treatment facility or detox center | 8 |
| 6 | Hospital or other residential non-psychiatric medical facility | 8 |
| 7 | Jail, prison or juvenile detention facility | 9 |
| 14 | Hotel or motel paid for without emergency shelter voucher | 10 |
| 29 | Residential project or halfway house with no homeless criteria | 10 |
| 32 | Host home (non-crisis) | 11 |
| 1 | Emergency shelter, including hotel or motel paid for with ES voucher | 11 |
| 2 | Transitional housing for homeless persons | 11 |
| 18 | Safe Haven | 11 |
| 27 | Moved from one HOPWA funded project to HOPWA TH | 11 |
| 16 | Place not meant for habitation | 12 |
| 12 | Staying or living with family, temporary tenure | 13 |
| 13 | Staying or living with friends, temporary tenure | 14 |
| 24 | Deceased | 15 |
|  | (any other) | 99 |

## Identify Reportable Exits

If a household (the distinct combination of **Cohort***,* **HoHID** and **HHType**) has more than one qualifying exit in a single cohort period that meets the criteria for inclusion, calculation of return time (if any) and other exit cohort reporting should be based on:

* The *EnrollmentID* of the first exit in the cohort period to permanent housing; or
* If the household does not have a qualifying exit to permanent housing, the *EnrollmentID* of the first qualifying exit to any destination in the cohort period.

### Relevant Data

#### Source

|  |
| --- |
| **ex\_Enrollment** |
| Cohort |
| HoHID |
| HHType |
| EnrollmentID |
| ProjectType |
| EntryDate |
| MoveInDate |
| ExitDate |
| ExitTo |

#### Target

|  |  |
| --- | --- |
| **tmp\_Exit** | **Column Description** |
| **HoHID** | *PersonalID* for heads of active households; distinct combinations of **HoHID**, **HHType**, and **Cohort** serve as a primary key. |
| **EnrollmentID** | From ex\_Enrollment, the *EnrollmentID* for household’s first exit to permanent housing in the cohort period, or – if the household does not have an exit to permanent housing – the first qualifying exit to any destination type |
| **EntryDate** | The *EntryDate* for the reportable qualifying exit |
| **MoveInDate** | Move-in date for RRH/PSH enrollments, if any, as set in ex\_Enrollment |
| **ExitDate** | The effective exit date for the HoH enrollment, as set in ex\_Enrollment |
| ReturnDate | The date, if any, of the household’s first *EntryDate* into a continuum ES/SH/TH/RRH/PSH project 15-730 days after the qualifying *ExitDate* |
| StatEnrollmentID | The *EnrollmentID*, if any, of the household’s most recently active enrollment in the 15-730 days prior to the *EntryDate* for the qualifying exit. . |
| LastInactive | The most recent date prior to the *EntryDate* for the qualifying exit on which the household had not been active in a continuum ES/SH/TH/RRH/PSH project for 7 or more days. |
| **Cohort** | Identifier for the cohort in which the exit occurs |
| Stat | The household status related to continuum engagement in the two years prior to the *EntryDate* for the qualifying exit. |
| **ExitFrom** | Identifies the project type from which household exited and, for RRH/PSH, distinguishes between exits after a permanent housing placement (*MoveInDate*) and exits without placement. |
| **ExitTo** | From ex\_Enrollment |
| ReturnTime | The number of days between the qualifying exit date and **ReturnDate** |
| **HHType** | The household type calculated as of the later of CohortStart and *EntryDate* |
| HHVet | Identifies whether or not the household includes a veteran. |
| HHDisability | Identifies whether or not the head of household or any adult household member was identified as having a disabling condition on the enrollment associated with the qualifying exit. |
| HHFleeingDV | Identifies whether or not the head of household or any adult member was identified as fleeing domestic violence on the enrollment associated with the qualifying exit. |
| HoHRace | Identifies race for head of household. |
| HoHEthnicity | Identifies ethnicity for head of household. |
| HHAdultAge | The age groups of adult household members. The categories are mutually exclusive (a household can only fall into one group) and inclusive (every household with adults will fall into one group). |
| HHParent | Identifies whether or not any household member has RelationshiptoHoH = 2 (child of the HoH) on any active enrollment in the cohort period. |
| AC3Plus | Identifies AC households that include 3 or more children on any active enrollment in the cohort period. |
| SystemPath | The combinations of system use during the cohort period and in the continuous periods of service prior to the cohort period – i.e., the ‘path’ through the system. It is not dependent on the sequence of service. Categories are mutually exclusive. |

### Logic

#### ExitFrom

Crosswalk the *ProjectType* for the *ProjectID* associated with tmp\_Exit.**EnrollmentID** and the *MoveInDate* to the appropriate **ExitFrom** value below.

| HMIS ProjectType | MoveInDate Value | ExitFrom Value | ExitFrom Category Description |
| --- | --- | --- | --- |
| 1 | n/a | 2 | ES |
| 2 | n/a | 3 | TH |
| 8 | n/a | 4 | SH |
| 13 | <= *ExitDate* | 5 | RRH after move-in to PH |
| 3 | < *ExitDate* | 6 | PSH after move-in to PH |
| 13 | NULL | 7 | RRH without placement in PH |
| 3 | NULL | 8 | PSH without placement in PH |

## Set ReturnTime for Exit Cohort Households

### Relevant Data

#### Source

|  |
| --- |
| **ex\_Enrollment** |
| Cohort |
| HoHID |
| HHType |
| ExitDate |
| **hmis\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate |

#### Target

|  |
| --- |
| **tmp\_Exit** |
| **ReturnDate** |
| **ReturnTime** |

### Logic

#### ReturnDate

**ReturnDate** is the earliest *EntryDate* for a household in tmp\_Exit where:

**Note:** A household has two distinguishing characteristics: the *PersonalID* of the head of household and the household type. In order to be considered the same household, an enrollment must have the same person identified as head of household and the household type must be the same.

* *PersonalID* = tmp\_Household.**HoHID**
* Enrollment.*RelationshipToHoH* = 1
* There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
* Enrollment.*EntryDate* between [tmp\_Exit.**ExitDate** + 15 days] and [tmp\_Exit.**ExitDate** + 730 days]
* There is an EnrollmentCoC record where *InformationDate* = *EntryDate* and *CoCCode* = ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least a *BedNightDate* = *EntryDate*
* Household type (see next) matches tmp\_Exit.**HHType** based on all enrollments with the same *HouseholdID* where:
  + *EntryDate* between [tmp\_Exit.**ExitDate** + 15 days] and [tmp\_Exit.**ExitDate** + 730 days]

#### Household Type for Return Enrollments

For clients with valid dates of birth:

**Note:** Household type for return enrollments is calculated based on the ages of all household members with enrollments for the same *HouseholdID* active between 15 and 730 days after tmp\_Exit.**ExitDate** as of their own entry dates.

As is the case for active enrollments, all dates of birth must be validated; age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is not ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* *DOB* + 105 years <= *EntryDate*;
* *DOB* > *EntryDate*; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate*
* If *DOB* + 18 years > *EntryDate*, client is a Child
* If *DOB* + 18 years <= *EntryDate*, client is an Adult

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### ReturnTime

If **ReturnDate** is NULL – i.e., if there is no later enrollment that meets those criteria – set **ReturnTime**= -1.

Otherwise, **ReturnTime**is the number of days between tmp\_Exit.**ExitDate** and ReturnDate. The value should be set in tmp\_Exit to the actual number of days to return and NOT the associated upload value; the actual number of days are needed to generate averages for LSACalculated.

**Note**: In both tmp\_Household and tmp\_Exit, **Stat**is determined based on a household’s system use **before** active enrollments (tmp\_Household) or a qualifying exit (tmp\_Exit).

Both files have a **ReturnTime** column, but the logic is different:

* In tmp\_Household, **ReturnTime** is associated with **Stat**and events that occurred *prior to active enrollments.*
* In tmp\_Exit, **ReturnTime** is associated with enrollments that occurred *after the qualifying exit*; it is not associated with **Stat.**

## Set Population Identifiers for Exit Cohort Households

As with the active cohort, population identifiers for exit cohort households are based on the characteristics of all household members.

The underlying logic associated with setting population identifiers for exit cohort households is the same as that for active cohort households with the following exceptions:

* Only data from the enrollment associated with the *HouseholdID* of the qualifying exit is used (as opposed to all enrollments active in the report period).
* There is no exit cohort reporting for the Chronically Homeless Households population, so it is not necessary to determine CH status.

In practice, because there is no person-level reporting for exit cohorts, the population identifiers can be set for the household without the intermediate step of setting detailed values for each person.

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Exit** |
| EnrollmentID |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| DisablingConditions |
| **hmis\_Client** |
| DOB |
| DOBDataQuality |
| PersonalID |
| Gender |
| Race |
| Ethnicity |
| VeteranStatus |
| **hmis\_HealthAndDV** |
| EnrollmentID |
| DomesticViolenceVictim |
| CurrentlyFleeing |

#### Target

|  |
| --- |
| **tmp\_Exit** |

|  |
| --- |
| HouseholdID |
| **HHVet** |
| **HHDisability** |
| **HHFleeingDV** |
| **HHAdultAge** |
| **HHParent** |
| **AC3Plus** |

### Logic

#### HHVet

Set **HHVet** = 1 if any adult household member has a *VeteranStatus* of 1. Otherwise, **HHVet** = 0.

#### HHDisability

Set **HHDisability**= 1 if the HoH or any adult household member has a *DisablingCondition* = 1 for the enrollment associated with the qualifying exit. Otherwise, **HHDisability**= 0.

#### HHFleeingDV

Set **HHFleeingDV** = 1 if the HoH or any adult household member has a record associated with the enrollment associated with the qualifying exit where *DomesticViolenceVictim* = 1 and *CurrentlyFleeing* = 1. Otherwise, set **HHFleeingDV** = 0

#### HoHRace

Crosswalk HMIS *Race* values for the head of household and set **HoHRace** to the first LSA value in the table below:

| Priority | HMIS Race Values | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 1 | *Client doesn’t know* (8) or *Client refused* (9) | 98 | Client doesn't know/refused |
| 2 | *Data not collected* (99) or no race selected | 99 | Missing/invalid |
| 3 | Two or more *Race* values selected | 6 | Multiple Races |
| 4 | *White* (5) is the only race selected and Ethnicity <> 1 | 0 | White, non-Hispanic/Latino |
| 4 | *White* (5) is the only race selected and Ethnicity = 1 (Hispanic/Latino) | 1 | White, Hispanic/Latino |
| 4 | *Black or African American* (3) is the only race selected | 2 | Black or African American |
| 4 | *Asian* (2) is the only race selected | 3 | Asian |
| 4 | *American Indian or Alaska Native* (1) is the only race selected | 4 | American Indian or Alaska Native |
| 4 | *Native Hawaiian or Other Pacific Islander* (4) is the only race selected | 5 | Native Hawaiian / Other Pacific Islander |

#### HoHEthnicity

Crosswalk HMIS *Ethnicity* values for the head of household as follows:

| HMIS Value | HMIS Category | LSA Value | LSA Category |
| --- | --- | --- | --- |
| 0 | Non-Hispanic/Latino | 0 | Non-Hispanic/Latino |
| 1 | Hispanic/Latino | 1 | Hispanic/Latino |
| 8 | Client doesn’t know | 98 | Client doesn’t know/refused |
| 9 | Client refused | 98 | Client doesn’t know/refused |
| (any other) | Any other, including NULL | 99 | Unknown |

#### HHAdultAge

Set **HHAdultAge** based on the ages of all household members as of the later of *EntryDate* and CohortStart using the first / topmost of the criteria below appropriate to the household:

| Upload Value | Criteria |
| --- | --- |
| -1 | The maximum of all ages is >= 98 (one or more unknown ages) |
| -1 | The maximum of all ages values is <= 17 (no adults in household) |
| 18 | The maximum of all ages is 21 (all adults are between 18 and 21) |
| 24 | The maximum of all ages is 24 (all adults are under 25) |
| 55 | The minimum of all ages is between 55 and 65 (all members are 55+) |
| 25 | (all other households) |

#### HHParent

Set **HHParent** = 1 if at least one household member has a *RelationshipToHoH* = 2 (Child of HoH).

#### AC3Plus

Set **AC3Plus** = 1 if **HHType** = 2 (AC) and there are three or more household members under the age of 18. Otherwise, **AC3Plus** = 0.

## Set System Engagement Status for Exit Cohort Households

System engagement status specifies whether or not active households were actively engaged with continuum ES, SH, TH, RRH, and/or PSH projects in the two years prior to their earliest active date in the report period in the following categories:

| Value | Stat |
| --- | --- |
| 1 | First-time homeless |
| 2 | Return to continuum 15-730 days after exit to permanent destination |
| 3 | Re-engage with continuum 15-730 days after exit to temporary destination |
| 4 | Re-engage with continuum 15-730 days after exit to unknown destination |
| 5 | Continuous engagement with continuum |

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Exit** |
| HoHID |
| HHType |
| EntryDate |
| **hmis\_Enrollment** |
| EnrollmentID |
| HouseholdID |
| PersonalID |
| ProjectID |
| EntryDate |
| RelationshipToHoH |
| **hmis\_Project** |
| ProjectID |
| ProjectType |
| TrackingMethod |
| OperatingEndDate |
| **hmis\_Client** |
| PersonalID |
| DOB |
| DOBDataQuality |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |
| Destination |

#### Target

|  |  |
| --- | --- |
| **tmp\_Exit** | **Column Description** |
| **Stat** | The household status related to continuum engagement on the first day of the earliest enrollment active during the report period. |
| **StatEnrollmentID** | For households returning or re-engaging with the continuum 15-730 days after an exit prior to ReportStart (**Stat** in (2,3,4)), the *EnrollmentID* for the household’s most recent exit prior to ReportStart. |
| **StatExitDate** | The (effective) *ExitDate* associated with *StatEnrollmentID* |

### Logic

#### Previous Activity / StatEnrollmentID

**StatEnrollmentID** is the *EnrollmentID* with the most recent (effective) *ExitDate* where:

* *PersonalID* = tmp\_Exit.**HoHID**
* Enrollment.*RelationshipToHoH* = 1
* There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
* Project.*OperatingEndDate* is NULL or Project.*OperatingEndDate* > [tmp\_Exit.**EntryDate**  – 730 days]
* Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
* Exit*.ExitDate* > Enrollment.*EntryDate*
* Exit*.ExitDate* > [tmp\_Exit.**EntryDate** – 730 days] and Exit.*ExitDate* < tmp\_Exit.**EntryDate**
* There is an EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* = ReportCoC
* There is no later EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* <> ReportCoC
* If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record between [**FirstEntry** – 730 days] and [*ExitDate – 1 day*]
* Household type (see next) matches tmp\_Household.**HHType** based on all enrollments with the same *HouseholdID* where:
  + *ExitDate* > [tmp\_Exit.**EntryDate** – 730 days] and Exit.*ExitDate* < tmp\_Exit.**EntryDate** (i.e., exclude any household members who exited more than two years prior to tmp\_Exit.**EntryDate** from **HHType** calculation)

#### Household Type for Inactive Enrollments (tmp\_Enrollment)

For clients with valid dates of birth:

**Note:** Household type for inactive enrollments is calculated based on the ages of all household members active between 15 and 730 days prior to tmp\_Exit.**EntryDate** as of their own entry dates.

As is the case for active enrollments, all dates of birth must be validated; age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is not ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* *DOB* + 105 years <= *EntryDate*;
* *DOB* > *EntryDate*; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate*
* If *DOB* + 18 years > *EntryDate*, client is a Child
* If *DOB* + 18 years <= *EntryDate*, client is an Adult

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### StatExitDate

**StatExitDate** is the (effective) *ExitDate* associated with StatEnrollmentID:

* For any enrollment that remains open at the time a project ceases operation, **StatExitDate** = the project’s *OperatingEndDate*
* **StatExitDate** = [LastBednight + 1 day] for any enrollment in a night-by-night shelter where:
  + The recorded *ExitDate* is more than one day after the last bed night; or
  + There is no *ExitDate* and LastBedNight is 90 days or more prior to ReportEnd.

If applicable, **ExitTo** (Destination) is reported as ‘Unknown’ (99) for these enrollments.

|  |  |
| --- | --- |
| Condition | StatExitDate |
| [**LastBednight** + 90 days] <= CohortEnd and *ExitDate* is NULL | [**LastBednight**+ 1 day] |
| *ExitDate* > [**LastBednight** + 1 day] | [**LastBednight**+ 1 day] |
| Project.*OperatingEndDate* < CohortEnd and *ExitDate* is NULL | Project.*OperatingEndDate* |
| Project.*OperatingEndDate* < CohortEnd and *ExitDate* > Project.*OperatingEndDate* | Project.*OperatingEndDate* |
| (any other) | *ExitDate* |

#### Stat

**Stat** is based on **StatEnrollmentID**, the *Destination* associated with the **StatEnrollmentID** (if any), and the difference in days between StatEnrollmentID.*ExitDate* and tmp\_Exit.**EntryDate.**

| Stat | HMIS Destination Values | Other Condition |
| --- | --- | --- |
| 1 | (n/a) | **StatEnrollmentID** is NULL |
| 2 | 3,31,19,20,21,26,28,10,11,22,23 | tmp\_Exit**.EntryDate** between [**StatExitDate** + 15 days] and [**StatExitDate** + 730 days] |
| 3 | 15,25,4,5,6,7,14,29,1,2,18,27,16,12,13, 32 | tmp\_Exit**.EntryDate** between [**StatExitDate** + 15 days] and [**StatExitDate** + 730 days] |
| 4 | (any other) | tmp\_Exit**.EntryDate** between [**StatExitDate** + 15 days] and [**StatExitDate** + 730 days] |
| 5 | (n/a) | tmp\_Exit**.EntryDate <=** [**StatExitDate** + 15 days] |

## Get Enrollments Associated with SystemPath for Exit Cohort Households (sys\_Enrollment)

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Exit** |
| HoHID |
| HHType |
| Stat |
| **hmis\_Project** |
| OperatingEndDate |
| ContinuumProject |
| ProjectType |
| TrackingMethod |
| **hmis\_Enrollment** |
| EnrollmentID |
| PersonalID |
| ProjectID |
| HouseholdID |
| EntryDate |
| RelationshipToHoH |
| MoveInDate |
| **hmis\_EnrollmentCoC** |
| EnrollmentID |
| InformationDate |
| CoCCode |
| **hmis\_Exit** |
| EnrollmentID |
| ExitDate |

#### Target

|  |  |
| --- | --- |
| **sys\_Enrollment** | **Column Description** |
| **HoHID** | HoHID – tmp\_Exit |
| **HHType** | * For the qualifying exit, the household type in tmp\_Exit * For other enrollments, the household type calculated based on ages of all household members with the same *HouseholdID* as of the *EntryDate* of their own enrollments |
| **EnrollmentID** | From hmis\_Enrollment |
| **ProjectType** | From hmis\_Project |
| **EntryDate** | NULL indicates a night-by-night ES enrollment.  For all others, the *EntryDate* for the enrollment. |
| **MoveInDate** | For RRH/PSH enrollments, the *MoveInDate*, if any. |
| **ExitDate** | The *ExitDate* for the enrollment, adjusted if necessary to resolve data conflicts with the project’s *OperatingEndDate*. |

### Logic

The **SystemPath** value represents the combination of project types in which a head of household was served during a continuous period of system use ending on tmp\_Exit.*ExitDate*. The logic associated with **SystemPath** for tmp\_Exit is similar to that for tmp\_Household, but there are some differences:

* For households exiting from PSH after being placed in permanent housing (**ExitFrom**= 6), if *MoveInDate* <= **CohortStart** – i.e., if the household was housed in PSH at the start of the cohort period – set **SystemPath** = -1.
* For households exiting from RRH or PSH after being placed in permanent housing (**ExitFrom**in (5,6)) after at least 365 days in permanent housing (*MoveInDate* + 365 days <= *ExitDate*), set **SystemPath** = -1.
* To streamline processing: For first-time homeless households (**Stat** = 1) and households returning or re-engaging with the continuum after 15-730 days (**Stat** in (2,3,4)), we already know that their continuous system use is limited to the project type associated with the qualifying exit. As such, it isn’t necessary to build a full history (as described in the next step) to determine their **SystemPath** – it may be set directly based on **ExitFrom** values using thevalues shown in the table below.

| ExitFrom | | SystemPath | |
| --- | --- | --- | --- |
| 2 | ES | 1 | ES/SH |
| 3 | TH | 2 | TH |
| 4 | SH | 1 | ES/SH |
| 5 | RRH | 4 | RRH |
| 6 | PSH | 8 | PSH |

For other households, the logic described in this section selects the universe of enrollments which either are or might be part of each household’s period of continuous engagement. Subsequent sections define the logic associated with determining which, if any, of the inactive enrollments are relevant to SystemPath.

For other exit cohort households in tmp\_Exit where SystemPath is null, build a history of system use to determine SystemPath.

#### Record Selection

The enrollments included in sys\_Enrollment – i.e., the enrollments relevant or potentially relevant to **SystemPath** for exit cohorts – include:

* Enrollments associated with the reportable qualifying exit (tmp\_Exit.EnrollmentID)
* Inactive enrollments where:
  + *PersonalID* = tmp\_Exit.**HoHID**
  + Enrollment.*RelationshipToHoH* = 1
  + There is no other enrollment record for the *HouseholdID* where *RelationshipToHoH* = 1
  + Project.*ProjectType* in (1,2,3,8,13)
  + Project.*ContinuumProject* = 1
  + Project.*OperatingEndDate* is NULL or Project.*OperatingEndDate* > 10/1/2012
  + Enrollment.*EntryDate* < Project.*OperatingEndDate* or *OperatingEndDate* is NULL
  + Exit*.ExitDate* > Enrollment.*EntryDate*
  + Exit*.ExitDate* > 10/1/2012
  + There is an EnrollmentCoC record where *InformationDate* <= *ExitDate* and *CoCCode* = ReportCoC
  + If Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3, there is at least one *BedNightDate* record > 10/1/2012
  + Household type (see next) matches tmp\_Household.**HHType** based on all enrollments with the same *HouseholdID* where *ExitDate* > 10/1/2012

#### Household Type for Qualifying Exit

Household type for the enrollment associated with the reportable qualifying exit is always the same as tmp\_Exit.HHType.

#### Household Type for Inactive Enrollments

Household type for inactive enrollments is calculated based on the ages of all household members with the same *HouseholdID* as of their own entry dates.

As is the case for active enrollments, all dates of birth must be validated; age must be handled as unknown if any of the following are true:

* *DOBDataQuality* is not ‘Full DOB reported’ (1) or ‘Approximate or partial DOB reported’ (2);
* *DOB* is missing or set to a system default;
* *DOB* + 105 years <= *EntryDate*;
* *DOB* > *EntryDate*; or
* *RelationshipToHoH* = 1 and *DOB* = *EntryDate*

For clients with valid dates of birth:

* If *DOB* + 18 years > *EntryDate*, client is a Child
* If *DOB* + 18 years <= *EntryDate*, client is an Adult

The criteria below are mutually exclusive; it is not necessary to apply them in priority order.

| # Adults | # Children | # Unknown Age | HHType | LSA Value |
| --- | --- | --- | --- | --- |
| >= 1 | 0 | 0 | AO (Adult-only) | 1 |
| >= 1 | >= 1 | (any) | AC (Adult-child) | 2 |
| 0 | >= 1 | 0 | CO (Child-only) | 3 |
| (any) | 0 | >= 1 | UN (Unknown) | 99 |
| 0 | (any) | >= 1 | UN (Unknown) | 99 |

#### Night-by-Night Shelters

For enrollments in night-by-night shelters (*ProjectType*= 1 and *TrackingMethod* = 3), only dates with a recorded bed night are counted as system use days. Creating a record in the sys\_Enrollment construct for these enrollments where *EntryDate* is null – regardless of bed nights – simplifies later steps.

#### ExitDate > OperatingEndDate

For any enrollment that remains open at the time a project ceases operation, the project’s *OperatingEndDate* is the effective *ExitDate*. Bed-nights and/or other dates after a project’s end date are not counted; references to sys\_Enrollment.**ExitDate** in subsequent steps assume this adjustment.

## Last Inactive Date for Exit Cohorts

### RelevantData

#### Source

|  |
| --- |
| **tmp\_Exit** |
| HoHID |
| HHType |
| EntryDate |
| **sys\_Enrollment** |
| HoHID |
| HHType |
| EntryDate |
| ExitDate |
| **hmis\_Services** |
| EnrollmentID |
| BedNightDate |

#### Target

|  |
| --- |
| **tmp\_Exit** |
| **LastInactive** |

### Logic

This step identifies, based on the qualifying exit and potentially relevant inactive enrollments from the previous step, the date immediately prior to the first day of continuous system engagement for exit cohort households – or the household’s last inactive date prior to the qualifying exit.

Specifically, this is the latest date in the most recent period of at least seven nights during which a household was not enrolled in a continuum ES, SH, TH, RRH, or PSH project. Enrollments in sys\_Enrollment that occurred after the last inactive date are part of the household’s **SystemPath**.

**LastInactive** is the later of 9/30/2012 and the most recent date where:

* [Date] < tmp\_Exit.**EntryDate**
* [Date] is not between a sys\_Enrollment.*BedNightDate* and (*BedNightDate* + 6 days); and
* [Date] is not between a sys\_Enrollment.**EntryDate** and the associated (**ExitDate** + 6 days)

## Set SystemPath for LSAExit

### Relevant Data

#### Source

|  |
| --- |
| **tmp\_Exit** |
| HoHID |
| HHType |
| LastInactive |
| **sys\_Enrollment** |
| HoHID |
| HHType |
| ProjectType |
| EntryDate |
| ExitDate |
| **hmis\_Services** |
| EnrollmentID |
| DateProvided |
| RecordType |

#### Target

|  |
| --- |
| **tmp\_Exit** |
| **SystemPath** |

### Logic

For any record in tmp\_Exit where **SystemPath** is NULL, set **SystemPath** based on the combination of ProjectTypes in sys\_Enrollment where *EntryDate* > tmp\_Exit.**LastInactive**:

|  |  |  |
| --- | --- | --- |
| SystemPath | SystemPath Project Types | Sys\_Enrollment ProjectType |
| 1 | ES/SH | in (1,8) and  not in (2,3,13) |
| 2 | TH | = 2 and  not in (1,3,8,13) |
| 3 | ES/SH + TH | = 2 and in (1,8) and  Not in (3,13) |
| 4 | RRH | = 13 and  not in (1,3,8,2) |
| 5 | ES/SH + RRH | = 13 and in (1,8) and  not in (2,3) |
| 6 | TH + RRH | = 2 and = 13 and  Not in (1,8,3) |
| 7 | ES/SH + TH + RRH | = 2 and in (1,8) and = 13 and  <> 3 |
| 8 | PSH | = 3 and  Not in (1,2,8,13) |
| 9 | ES/SH + PSH | = 3 and in (1,8) and  Not in (2,13) |
| 10 | ES/SH + RRH + PSH | In (1,8) and = 13 and = 3 |
| 11 | RRH + PSH | = 3 and = 13 and  Not in (1,2,8) |
| 12 | All other combinations | |

# HMIS Business Logic: Values for LSACalculated

## Get Average Days for Length of Time Homeless

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] where [Source Column] > 0, rounded to the nearest whole number.

| Report Row Category | Source Column | ReportRow |
| --- | --- | --- |
| Days in ES/SH | **ESDays** | 1 |
| Days in TH | **THDays** | 2 |
| Days in ES/SH or TH | **ESTDays** | 3 |
| Days in RRH/PSH pre-move-in (excluding those overlapping with ES/SH/TH days) | **RRHPSHPreMoveInDays** | 4 |
| Days documented in ES/SH/TH or RRH/PSH pre-move-in total | **SystemHomelessDays** | 5 |
| Days homeless self-reported in 3.917 (excluding those overlapping with ES/SH/TH or RRH/PSH pre-move-in days) | **Other3917Days** | 6 |
| Days homeless total | **TotalHomelessDays** | 7 |
| Days housed in RRH | **RRHHousedDays** | 8 |
| Days documented homeless or housed in RRH total (excluding self-reported time) | **SystemDaysNotPSHHoused** | 9 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 1-9 for each of the following populations and each of the household types listed in the HHType column.

* The ID column is the **Population** value for the LSA Calculated file.
* The Household Population column provides a brief description based on the population identifier set in LSAHousehold.
* The **HHType** column indicates the household types for which the population is relevant.
  + Zero (0) represents a count of all records that meet the criteria, regardless of household type.
* The Criteria column shows other column values required – in combination with the household type – to identify the population.

When a report row is required in LSACalculated for any given population, values should be produced for all household types listed in the **HHType** column for the population.

| ID | Household Population | HHType | LSAHousehold Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Unaccompanied Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Unaccompanied Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |
| 11 | AC Household with 3+ Children | 2 | **HHChild** = 3 |
| 12 | First Time Homeless | 0,1,2,3,99 | **Stat** = 1 |
| 13 | Return After Exit to PH | 0,1,2,3,99 | **Stat** = 2 |
| 14 | Move-In to PSH in Report Period | 0,1,2,3,99 | **PSHMoveIn** = 1 |
| 15 | White, non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 0 |
| 16 | White, Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 1 |
| 17 | Black or African American HoH | 0,1,2,3,99 | **HoHRace** = 2 |
| 18 | Asian HoH | 0,1,2,3,99 | **HoHRace** = 3 |
| 19 | American Indian/Alaska Native HoH | 0,1,2,3,99 | **HoHRace** = 4 |
| 20 | Native Hawaiian/Other Pacific Islander HoH | 0,1,2,3,99 | **HoHRace** = 5 |
| 21 | Multi-Racial HoH | 0,1,2,3,99 | **HoHRace** = 6 |
| 22 | Non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** = 0 |
| 23 | Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** =1 |
| 39 | Youth 18-21 - Disabled Adult/HoH | 1 | **HHAdultAge** = 18 and **HHDisability** = 1 |
| 40 | Youth 18-21 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 18 and **HHFleeingDV** = 1 |
| 41 | Youth 18-21 - First Time Homeless | 1 | **HHAdultAge** = 18 and **Stat** = 1 |
| 42 | Youth 18-21 - Returning after Exit to PH | 1 | **HHAdultAge** = 18 and **Stat** = 2 |
| 43 | Youth 18-21 - PSH Move-In During Report Period | 1 | **HHAdultAge** = 18 and **PSHMoveIn** = 1 |
| 44 | Youth 18-21 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 0 |
| 45 | Youth 18-21 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 1 |
| 46 | Youth 18-21 - Black or African American HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 2 |
| 47 | Youth 18-21 - Asian HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 3 |
| 48 | Youth 18-21 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 4 |
| 49 | Youth 18-21 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 5 |
| 50 | Youth 18-21 - Multi-Racial HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 6 |
| 51 | Youth 18-21 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** = 0 |
| 52 | Youth 18-21 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** =1 |
| 53 | Youth 22-24 - Disabled Adult/HoH | 1 | **HHAdultAge** = 24 and **HHDisability** = 1 |
| 54 | Youth 22-24 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 24 and **HHFleeingDV** = 1 |
| 55 | Youth 22-24 - First Time Homeless | 1 | **HHAdultAge** = 24 and **Stat** = 1 |
| 56 | Youth 22-24 - Returning after Exit to PH | 1 | **HHAdultAge** = 24 and **Stat** = 2 |
| 57 | Youth 22-24 - PSH Move-In During Report Period | 1 | **HHAdultAge** = 24 and **PSHMoveIn** = 1 |
| 58 | Youth 22-24 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 0 |
| 59 | Youth 22-24 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 1 |
| 60 | Youth 22-24 - Black or African American HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 2 |
| 61 | Youth 22-24 - Asian HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 3 |
| 62 | Youth 22-24 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 4 |
| 63 | Youth 22-24 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 5 |
| 64 | Youth 22-24 - Multi-Racial HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 6 |
| 65 | Youth 22-24 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** = 0 |
| 66 | Youth 22-24 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** =1 |
| 67 | Non-Veteran 25+ - Disabled Adult/HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHDisability** = 1 |
| 68 | Non-Veteran 25+ - Fleeing Domestic Violence | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHFleeingDV** = 1 |
| 69 | Non-Veteran 25+ - First Time Homeless | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 1 |
| 70 | Non-Veteran 25+ - Returning after Exit to PH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 2 |
| 71 | Non-Veteran 25+ - with PSH Move-In During Report Period | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **PSHMoveIn** = 1 |
| 72 | Non-Veteran 25+ - White, non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 0 |
| 73 | Non-Veteran 25+ - White, Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 1 |
| 74 | Non-Veteran 25+ - Black or African American HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 2 |
| 75 | Non-Veteran 25+ - Asian HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 3 |
| 76 | Non-Veteran 25+ - American Indian/Alaska Native HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 4 |
| 77 | Non-Veteran 25+ - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 5 |
| 78 | Non-Veteran 25+ - Multi-Racial HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 6 |
| 79 | Non-Veteran 25+ - Non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** = 0 |
| 80 | Non-Veteran 25+ - Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** =1 |
| 81 | Veteran - Disabled Adult/HoH | 0,1,2,99 | **HHVet** = 1 and **HHDisability** = 1 |
| 82 | Veteran - Fleeing Domestic Violence | 0,1,2,99 | **HHVet** = 1 and **HHFleeingDV** = 1 |
| 83 | Veteran - First Time Homeless | 0,1,2,99 | **HHVet** = 1 and **Stat** = 1 |
| 84 | Veteran - Returning after Exit to PH | 0,1,2,99 | **HHVet** = 1 and **Stat** = 2 |
| 85 | Veteran - PSH Move-In During Report Period | 0,1,2,99 | **HHVet** = 1 and **PSHMoveIn** = 1 |
| 86 | Veteran - White, non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 0 |
| 87 | Veteran - White, Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 1 |
| 88 | Veteran - Black or African American HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 2 |
| 89 | Veteran - Asian HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 3 |
| 90 | Veteran - American Indian/Alaska Native HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 4 |
| 91 | Veteran - Native Hawaiian/Other Pacific Islander HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 5 |
| 92 | Veteran - Multi-Racial HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 6 |
| 93 | Veteran - Non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** = 0 |
| 94 | Veteran - Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** =1 |
| 95 | Veteran 55+ | 0,1,2 | **HHVet** = 1 and **HHAdultAge** = 55 |
| 96 | Non-Veteran 55+ | 1 | **HHVet** = 0 and **HHAdultAge** = 55 |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is null.

## Get Average Days for Length of Time Homeless by System Path

### ReportRow, SystemPath, and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] where [Source Column] > 0, rounded to the nearest whole number.

The averages for LSACalculated are grouped by the **SystemPath** values from LSAHousehold.

| Report Row Category | Source Column | ReportRow |
| --- | --- | --- |
| Days in ES/SH | **ESDays**  where **SystemPath** in (1,3,5,7,9,10,12) | 1 |
| Days in TH | **THDays**  where **SystemPath** in (2,3,6,7,12) | 2 |
| Days in ES/SH or TH | **ESTDays**  where **SystemPath** in (3,7,12) | 3 |
| Days in RRH/PSH pre-move-in (excluding those overlapping with ES/SH/TH days) | **RRHPSHPreMoveInDays**  where **SystemPath** in (4,5,6,7,8,9,10,11,12) | 4 |
| Days documented in ES/SH/TH or RRH/PSH pre-move-in total | **SystemHomelessDays**  where **SystemPath** in (5,6,7,10,11,12) | 5 |
| Days homeless self-reported in 3.917 (excluding those overlapping with ES/SH/TH or RRH/PSH pre-move-in days) | **Other3917Days**  where **SystemPath** <> -1 | 6 |
| Days homeless total | **TotalHomelessDays**  where **SystemPath** <> -1 | 7 |
| Days housed in RRH | **RRHHousedDays**  where **SystemPath** in (4,5,6,7,10,11,12) | 8 |
| Days documented homeless or housed in RRH total (excluding self-reported time) | **SystemDaysNotPSHHoused**  where **SystemPath** in (4,5,6,7,10,11,12) | 9 |

### Population and HHType

Generate rows 1-9 for each of the following populations and each of the household types listed in the HHType column.

| ID | Household Population | HHType | LSAHousehold Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is null.

## Get Average Days for Cumulative Length of Time Housed in PSH

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column] where [Source Column] > 0, rounded to the nearest whole number.

| Report Row Category | Source Column | ReportRow |
| --- | --- | --- |
| Days housed in PSH – exited in report period | **PSHHousedDays**  (where **PSHMoveIn** in (1,2) and **PSHStatus** in (12,22)) | 10 |
| Days housed in PSH – housed at report end | **PSHHousedDays**  (where **PSHMoveIn** in (1,2) and **PSHStatus** in (11,21)) | 11 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 10-11 for each of the following populations and each of the household types listed in the HHType column.

| ID | Household Population | HHType | LSAHousehold Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is null.

## Get Average Days for Length of Time in RRH Projects

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** =the average of [Source Column] where [Source Column] > 0, rounded to the nearest whole number.

| Report Row Category | Source Column | ReportRow |
| --- | --- | --- |
| RRH start to exit for households not placed in PH before exiting | **RRHPreMoveInDays** where  **RRHStatus** in (12,22) and **RRHMoveIn** in = 0 | 12 |
| RRH start to report end for active households not yet placed in PH | **RRHPreMoveInDays** where  **RRHStatus** in (11, 21) and **RRHMoveIn** in = 0 | 13 |
| RRH start to move-in for all households placed in PH | **RRHPreMoveInDays** where **RRHMoveIn** in (1,2) | 14 |
| RRH move-in to exit for households placed before exiting | **RRHHousedDays** where **RRHStatus** in (12,22) and **RRHMoveIn** in (1,2) | 15 |
| RRH move-in to report end for active households placed in PH | **RRHHousedDays** where **RRHStatus** in (11,21) and **RRHMoveIn** in (1,2) | 16 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 12-16 for each of the following populations and each of the household types listed in the HHType column.

| ID | Household Population | HHType | LSAHousehold Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

For all LOTH averages, the value of **Cohort** is 1 and the value of **Universe** is -1.

**ProjectID** is null.

## Get Average Days to Return/Re-engage by Last Project Type

### ReportRow, SystemPath and Source Columns for Value

For each **ReportRow** listed below, **Value** = the average of [Source Column]where **ReturnTime** > 0, rounded to the nearest whole number.

| Report Row Category | Source Column | ReportRow |
| --- | --- | --- |
| Days to return after exit from ES | **ReturnTime** where **ExitFrom** = 2 | 18 |
| Days to return after exit from TH | **ReturnTime** where **ExitFrom** = 3 | 19 |
| Days to return after exit from SH | **ReturnTime** where **ExitFrom** = 4 | 20 |
| Days to return after exit from RRH | **ReturnTime** where **ExitFrom** = 5 | 21 |
| Days to return after exit from PSH | **ReturnTime** where **ExitFrom** = 6 | 22 |

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 18-22 for each of the following populations and each of the household types listed in the HHType column.

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

Rows 18-22 are required for exit cohorts -2, -1, and 0. Values used in LSACalculated are the same as the tmp\_Exit.**Cohort** column:

| Cohort | Category |
| --- | --- |
| -2 | Exit in period (StartDate - 2 years) to (EndDate - 2 years) |
| -1 | Exit in period (StartDate - 1 year) to (EndDate - 1 year) |
| 0 | Exit in first six months of current report period |

The value of **Universe** is based on LSAExit (tmp\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

**ProjectID** is null.

## Get Average Days to Return/Re-engage by Population

### ReportRow, SystemPath and Source Columns for Value

For **ReportRow** 23, **Value** =the average of **ReturnTime** where **ReturnTime** > 0, rounded to the nearest whole number.

The value of **SystemPath** should be -1 for these records.

### Population and HHType

Generate row 23 for each of the following populations and each of the household types listed in the HHType column. (Note: LSAExit does not include reporting on Households with a Chronically Homeless Adult/HoH or Households with Move-In to PSH in Report Period; associated population IDs (e.g., 6 and 43) are deliberately omitted from the list below.)

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |
| 11 | AC Household with 3+ Children | 2 | **AC3Plus** = 1 |
| 12 | First Time Homeless | 0,1,2,3,99 | **Stat** = 1 |
| 13 | Return After Exit to PH | 0,1,2,3,99 | **Stat** = 2 |
| 15 | White, non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 0 |
| 16 | White, Hispanic/Latino HoH | 0,1,2,3,99 | **HoHRace** = 1 |
| 17 | Black or African American HoH | 0,1,2,3,99 | **HoHRace** = 2 |
| 18 | Asian HoH | 0,1,2,3,99 | **HoHRace** = 3 |
| 19 | American Indian/Alaska Native HoH | 0,1,2,3,99 | **HoHRace** = 4 |
| 20 | Native Hawaiian/Other Pacific Islander HoH | 0,1,2,3,99 | **HoHRace** = 5 |
| 21 | Multi-Racial HoH | 0,1,2,3,99 | **HoHRace** = 6 |
| 22 | Non-Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** = 0 |
| 23 | Hispanic/Latino HoH | 0,1,2,3,99 | **HoHEthnicity** =1 |
| 39 | Youth 18-21 - Disabled Adult/HoH | 1 | **HHAdultAge** = 18 and **HHDisability** = 1 |
| 40 | Youth 18-21 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 18 and **HHFleeingDV** = 1 |
| 41 | Youth 18-21 - First Time Homeless | 1 | **HHAdultAge** = 18 and **Stat** = 1 |
| 42 | Youth 18-21 - Returning after Exit to PH | 1 | **HHAdultAge** = 18 and **Stat** = 2 |
| 44 | Youth 18-21 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 0 |
| 45 | Youth 18-21 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 1 |
| 46 | Youth 18-21 - Black or African American HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 2 |
| 47 | Youth 18-21 - Asian HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 3 |
| 48 | Youth 18-21 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 4 |
| 49 | Youth 18-21 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 5 |
| 50 | Youth 18-21 - Multi-Racial HoH | 1 | **HHAdultAge** = 18 and **HoHRace** = 6 |
| 51 | Youth 18-21 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** = 0 |
| 52 | Youth 18-21 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **HoHEthnicity** =1 |
| 53 | Youth 22-24 - Disabled Adult/HoH | 1 | **HHAdultAge** = 24 and **HHDisability** = 1 |
| 54 | Youth 22-24 - Fleeing Domestic Violence | 1 | **HHAdultAge** = 24 and **HHFleeingDV** = 1 |
| 55 | Youth 22-24 - First Time Homeless | 1 | **HHAdultAge** = 24 and **Stat** = 1 |
| 56 | Youth 22-24 - Returning after Exit to PH | 1 | **HHAdultAge** = 24 and **Stat** = 2 |
| 58 | Youth 22-24 - White, non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 0 |
| 59 | Youth 22-24 - White, Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 1 |
| 60 | Youth 22-24 - Black or African American HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 2 |
| 61 | Youth 22-24 - Asian HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 3 |
| 62 | Youth 22-24 - American Indian/Alaska Native HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 4 |
| 63 | Youth 22-24 - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 5 |
| 64 | Youth 22-24 - Multi-Racial HoH | 1 | **HHAdultAge** = 24 and **HoHRace** = 6 |
| 65 | Youth 22-24 - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** = 0 |
| 66 | Youth 22-24 - Hispanic/Latino HoH | 1 | **HHAdultAge** = 24 and **HoHEthnicity** =1 |
| 67 | Non-Veteran 25+ - Disabled Adult/HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHDisability** = 1 |
| 68 | Non-Veteran 25+ - Fleeing Domestic Violence | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HHFleeingDV** = 1 |
| 69 | Non-Veteran 25+ - First Time Homeless | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 1 |
| 70 | Non-Veteran 25+ - Returning after Exit to PH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **Stat** = 2 |
| 72 | Non-Veteran 25+ - White, non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 0 |
| 73 | Non-Veteran 25+ - White, Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 1 |
| 74 | Non-Veteran 25+ - Black or African American HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 2 |
| 75 | Non-Veteran 25+ - Asian HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 3 |
| 76 | Non-Veteran 25+ - American Indian/Alaska Native HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 4 |
| 77 | Non-Veteran 25+ - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 5 |
| 78 | Non-Veteran 25+ - Multi-Racial HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHRace** = 6 |
| 79 | Non-Veteran 25+ - Non-Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** = 0 |
| 80 | Non-Veteran 25+ - Hispanic/Latino HoH | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) and **HoHEthnicity** =1 |
| 81 | Veteran - Disabled Adult/HoH | 0,1,2,99 | **HHVet** = 1 and **HHDisability** = 1 |
| 82 | Veteran - Fleeing Domestic Violence | 0,1,2,99 | **HHVet** = 1 and **HHFleeingDV** = 1 |
| 83 | Veteran - First Time Homeless | 0,1,2,99 | **HHVet** = 1 and **Stat** = 1 |
| 84 | Veteran - Returning after Exit to PH | 0,1,2,99 | **HHVet** = 1 and **Stat** = 2 |
| 86 | Veteran - White, non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 0 |
| 87 | Veteran - White, Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 1 |
| 88 | Veteran - Black or African American HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 2 |
| 89 | Veteran - Asian HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 3 |
| 90 | Veteran - American Indian/Alaska Native HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 4 |
| 91 | Veteran - Native Hawaiian/Other Pacific Islander HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 5 |
| 92 | Veteran - Multi-Racial HoH | 0,1,2,99 | **HHVet** = 1 and **HoHRace** = 6 |
| 93 | Veteran - Non-Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** = 0 |
| 94 | Veteran - Hispanic/Latino HoH | 0,1,2,99 | **HHVet** = 1 and **HoHEthnicity** =1 |
| 95 | Veteran 55+ | 0,1,2 | **HHVet** = 1 and **HHAdultAge** = 55 |
| 96 | Non-Veteran 55+ | 1 | **HHVet** = 0 and **HHAdultAge** = 55 |
| 91 | Veteran - Native Hawaiian/Other Pacific Islander HoH | 1 | **HHAdultAge** = 18 and **HHDisability** = 1 |
| 92 | Veteran - Multi-Racial HoH | 1 | **HHAdultAge** = 18 and **HHFleeingDV** = 1 |
| 93 | Veteran - Non-Hispanic/Latino HoH | 1 | **HHAdultAge** = 18 and **Stat** = 1 |

### Cohort, Universe, and ProjectID

Row 23 is required for exit cohorts -2, -1, and 0. Values used in LSACalculated are the same as the tmp\_Exit.**Cohort** column:

| Cohort | Category |
| --- | --- |
| -2 | Exit in period (StartDate - 2 years) to (EndDate - 2 years) |
| -1 | Exit in period (StartDate - 1 year) to (EndDate - 1 year) |
| 0 | Exit in first six months of current report period |

The value of **Universe** is based on LSAExit (tmp\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

**ProjectID** is null.

## Get Average Days to Return/Re-engage by System Path

### ReportRow, SystemPath, and Source Column for Value

For each **ReportRow** listed below, **Value** = the average of **ReturnTime** where **ReturnTime** > 0 and **SystemPath** meets the listed criteria, rounded to the nearest whole number.

| Report Row Category | tmp\_Exit Values | ReportRow |
| --- | --- | --- |
| Days to return after ES/SH only path | **SystemPath** = 1 | 24 |
| Days to return after TH path | **SystemPath** = 2 | 25 |
| Days to return after ES/SH/TH path | **SystemPath** = 3 | 26 |
| Days to return after RRH only path | **SystemPath** = 4 | 27 |
| Days to return after ES/SH/RRH path | **SystemPath** = 5 | 28 |
| Days to return after TH/RRH path | **SystemPath** = 6 | 29 |
| Days to return after ES/SH/TH/RRH path | **SystemPath** = 7 | 30 |
| Days to return after PSH only path | **SystemPath** = 8 | 31 |
| Days to return after ES/SH/PSH path | **SystemPath** = 9 | 32 |
| Days to return after ES/SH/RRH/PSH path | **SystemPath** = 10 | 33 |
| Days to return after RRH/PSH path | **SystemPath** = 11 | 34 |
| Days to return after other path | **SystemPath** = 12 | 35 |
| Days to return after any system path | **SystemPath** = <> -1 | 36 |

### Population and HHType

Generate rows 24-36 for each of the following populations and each of the household types listed in the HHType column.

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

Rows 24-36 are required for exit cohorts -2, -1, and 0. Values used in LSACalculated are the same as the tmp\_Exit.**Cohort** column:

| Cohort | Category |
| --- | --- |
| -2 | Exit in period (StartDate - 2 years) to (EndDate - 2 years) |
| -1 | Exit in period (StartDate - 1 year) to (EndDate - 1 year) |
| 0 | Exit in first six months of current report period |

The value of **Universe** is based on LSAExit (tmp\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

**ProjectID** is null.

## Get Average Days to Return/Re-engage by Exit Destination

### ReportRow, SystemPath, and Source Column for Value

For each **ReportRow** listed below, **Value** = the average of **ReturnTime** where **ReturnTime** > 0 and tmp\_Exit.**ExitTo** meets the listed criteria, rounded to the nearest whole number.

The **ExitTo** column in tmp\_Exit determines the **ReportRow** and **Universe**, which distinguishes between permanent, temporary, and unknown destination types.

| Report Row Category | tmp\_Exit Identifiers | ReportRow | Universe |
| --- | --- | --- | --- |
| Days to return after PSH destination | **ExitTo** = 1 | 37 | 2 |
| Days to return after PH - rent with temp subsidy destination | **ExitTo** = 2 | 38 | 2 |
| Days to return after PH - rent/own with subsidy destination | **ExitTo** = 3 | 39 | 2 |
| Days to return after PH - rent/own no subsidy destination | **ExitTo** = 4 | 40 | 2 |
| Days to return after Family - permanent destination | **ExitTo** = 5 | 41 | 2 |
| Days to return after Friends - permanent destination | **ExitTo** = 6 | 42 | 2 |
| Days to return after Institutions - group/ assisted destination | **ExitTo** = 7 | 43 | 3 |
| Days to return after Institutions - medical destination | **ExitTo** = 8 | 44 | 3 |
| Days to return after Institutions - incarceration destination | **ExitTo** = 9 | 45 | 3 |
| Days to return after Temporary - not homeless destination | **ExitTo** = 10 | 46 | 3 |
| Days to return after Homeless - ES/SH/TH destination | **ExitTo** = 11 | 47 | 3 |
| Days to return after Homeless - Street destination | **ExitTo** = 12 | 48 | 3 |
| Days to return after Family - temporary destination | **ExitTo** = 13 | 49 | 3 |
| Days to return after Friends - temporary destination | **ExitTo** = 14 | 50 | 3 |
| Days to return after Deceased destination | **ExitTo** = 15 | 51 | 4 |
| Days to return after Unknown destination | **ExitTo** = 99 | 52 | 4 |

The value of LSACalculated.**SystemPath** should be -1 for these records.

### Population and HHType

Generate rows 37-52 for each of the following populations and each of the household types listed in the HHType column.

| ID | Household Population | HHType | LSAExit Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |

### Cohort, Universe, and ProjectID

Rows 37-52 are required for exit cohorts -2, -1, and 0. Values used in LSACalculated are the same as the tmp\_Exit.**Cohort** column:

| Cohort | Category |
| --- | --- |
| -2 | Exit in period (StartDate - 2 years) to (EndDate - 2 years) |
| -1 | Exit in period (StartDate - 1 year) to (EndDate - 1 year) |
| 0 | Exit in first six months of current report period |

Rows 37-45 are required for universe 2; Rows 43-50 are required for universe 3; Rows 51-52 are required for universe 4. The value of **Universe** is based on LSAExit (tmp\_Exit) **ExitTo**.

| Category | ExitTo | Universe |
| --- | --- | --- |
| Return 15-730 days after exit to permanent destination | **ExitTo** between 1 and 6 | 2 |
| Re-engage 15-730 days after exit to temporary destination | **ExitTo** between 7 and 14 | 3 |
| Re-engage 15-730 days after exit to unknown destination | **ExitTo** in (15,99) | 4 |

**ProjectID** is null.

The objective of this step is to calculate specified counts for various groups of households based on identifiers established in tmp\_Household.

## Get Dates for LSACalculated Counts by Project ID and Project Type (tmp\_CohortDates)

### Relevant Data

#### Source

|  |
| --- |
| **lsa\_report** |
| ReportStart |
| ReportEnd |

#### Target

|  |
| --- |
| **tmp\_CohortDates** |
| Cohort |
| CohortStart |
| CohortEnd |

### Logic

Counts of people and households by project and by project type are defined in sections 8.10 through 8.15. Counts for the report period as a whole are always required. In addition, point-in-time counts for each of the dates listed below if the date falls between ReportStart and ReportEnd.

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |
| Active in the three years ending on ReportEnd | 20 | [ReportEnd – 3 years] + 1 day | = ReportEnd |

## Get Counts of People by Project and Household Characteristics

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 53 counts people in households whose members have various characteristics.

The **Universe** for project-level counts is 10; all project-level counts must have a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of distinct **PersonalID***s* in active\_Enrollment, grouped by **ProjectID**, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

### Cohort

For each of the date ranges in tmp\_CohortDates, cohort members include people (distinct **PersonalID**s) in active\_Enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8,), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a **BedNightDate** between CohortStart and CohortEnd; and
* **ExitDate** is null or **ExitDate** > CohortStart.

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project; criteria are based on active\_Household values.

| ID | Household Population | HHType | active\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath

**SystemPath** is always -1 for counts of people by project.

## Get Counts of People by Project Type and Household Characteristics

### ReportRow, Universe, and Value

**ReportRow** 53 counts people in households whose members have various characteristics.

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16=ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of distinct **PersonalID***s* in active\_Enrollment, grouped by project type (**Universe**), with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

### Cohort

For each of the date ranges in tmp\_CohortDates, cohort members include people (distinct **PersonalID**s) in tmp\_Person with an active\_Enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8,), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a **BedNightDate** between CohortStart and CohortEnd; and
* **ExitDate** is null or **ExitDate** > CohortStart

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project types; criteria are based on active\_Household values.

| ID | Household Population | HHType | active\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath and ProjectID

**SystemPath** is always -1 and **ProjectID** is always NULL for counts of people by project type.

## Get Counts of Households by Project

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 54 counts households whose members have various characteristics.

The **Universe** for project-level counts is 10; all project-level counts must have a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of distinct **HoHID/HHType**s in active\_Household, grouped by ProjectID, with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

### Cohort

For each of the date ranges in tmp\_CohortDates, cohort members include households (distinct **HoHID**/**HHType**s) in tmp\_Household where the HoHID has an active\_Enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8,), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a **BedNightDate** between CohortStart and CohortEnd; and
* **ExitDate** is null or **ExitDate** > CohortStart

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project; criteria are based on active\_Household values.

| ID | Household Population | HHType | active\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath

**SystemPath** is always -1 for counts of households by project.

## Get Counts of Households by Project Type

### ReportRow, Universe, and Value

**ReportRow** 54 counts households whose members have various characteristics.

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16=ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of distinct **HoHID/HHType**s in active\_Household, grouped by project type (**Universe**), with one or more enrollments that meet the criteria for the **Cohort**, **HHType**, and **Population** for the report row.

Counts are unduplicated across projects, but not across project types.

* A household with overlapping enrollments in two emergency shelters on a given date should be counted once in ES and once in the combined ES/SH/TH project group.
* A household with overlapping enrollments in an emergency shelter and a Safe Haven should be counted once in ES, once in SH, and once in the combined ES/SH/TH project group.

### Cohort

For each of the date ranges in tmp\_CohortDates, cohort members include households (distinct **HoHID**/**HHType**s) in tmp\_Household where the HoHID has an active\_Enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8,), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a **BedNightDate** between CohortStart and CohortEnd; and
* **ExitDate** is null or **ExitDate** > CohortStart

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project types; criteria are based on active\_Household values.

| ID | Household Population | HHType | active\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |
| 3 | Veteran | 0,1,2,99 | **HHVet** = 1 |
| 4 | Non-Veteran 25+ | 1 | **HHVet** = 0 and **HHAdultAge** in (25,55) |
| 5 | Disabled Adult/HoH | 0,1,2,3,99 | **HHDisability** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **HHChronic** = 1 |
| 7 | Fleeing Domestic Violence | 0,1,2,3,99 | **HHFleeingDV** = 1 |
| 8 | Senior 55+ | 1 | **HHAdultAge** = 55 |
| 9 | Parenting Youth 18-24 | 2 | **HHParent** = 1 and **HHAdultAge** in (18,24) |
| 10 | Parenting Child | 3 | **HHParent** = 1 |

### SystemPath and ProjectID

**SystemPath** is always -1 and **ProjectID** is always NULL for counts of households by project type.

## Get Counts of People by Project and Personal Characteristics

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 55 counts people based on a combination of household characteristics and their own personal characteristics; for example, only veterans are included in the ‘Veteran’ count.

The **Universe** for project-level counts is 10; all project-level counts must have a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of distinct **PersonalID**s in tmp\_Person active in relevant projects (**ProjectID**)during the cohort period (**Cohort**) that meet the criteria for inclusion based on household type and personal characteristics in tmp\_Person.

### Cohort

For each of the date ranges in tmp\_CohortDates, cohort members include people (distinct **PersonalID**s) in tmp\_Person with an active\_Enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8,), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a **BedNightDate** between CohortStart and CohortEnd; and
* **ExitDate** is null or **ExitDate** > CohortStart

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### HouseholdType and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column.

| ID | Population | HHType | Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | tmp\_Person.**VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | tmp\_Person.**DisabilityStatus** = 1 and:   * **CHTime** = 365 and **CHTimeStatus** in (1,2); or * **CHTime** = 400 and **CHTimeStatus** = 2 |
| 145 | Age 18-21 in AO Youth Household | 1 | active\_Enrollment.**AgeGroup** = 18 |
| 146 | Age 22-24 in AO Youth Household | 1 | active\_Enrollment.**AgeGroup** = 24 |
| 147 | Age 18-21 in AC Parenting Youth Household | 2 | active\_Enrollment.**AgeGroup** = 18 and active\_Household.**HHParent** = 1 |
| 148 | Age 22-24 in AC Parenting Youth Household | 2 | active\_Enrollment.**AgeGroup** = 24 and active\_Household.**HHParent** = 1 |

### SystemPath

**SystemPath** is always -1 for counts of people by **ProjectID**.

## Get Counts of People by Project Type and Personal Characteristics

### Report Row, Universe, and Value

**ReportRow** 55 counts people based on their own personal characteristics; for example, only veterans are included in the ‘Veteran’ count. These counts are required in LSA Calculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16 = ES/SH/TH combined | **ProjectType** in (1,8,2) |

**Value** = a count of distinct **PersonalID**s in tmp\_Person active in relevant project types (**Universe**)during the cohort period (**Cohort**) that meet the criteria for based on household type and personal characteristics in tmp\_Person.

### Cohort

For each of the date ranges in tmp\_CohortDates, cohort members include people (distinct **PersonalID**s) in tmp\_Person with an active\_Enrollment where:

* **ProjectType** in (1,2,3,8,13); and
* If **ProjectType** in (3,13), **MoveInDate** <= CohortEnd (do not count people not in housing); and
* If **ProjectType** in (1,2,8,), **EntryDate** <= CohortEnd; and
* If **ProjectType**=1 and **TrackingMethod** = 3, there is a **BedNightDate** between CohortStart and CohortEnd; and
* **ExitDate** is null or **ExitDate** > CohortStart

| Category | Cohort | CohortStart | CohortEnd |
| --- | --- | --- | --- |
| Active in current report period | 1 | ReportStart | ReportEnd |
| Active October 31 | 10 | October 31 of ReportStart year | = CohortStart |
| Active January 31 | 11 | January 31 of ReportEnd year | = CohortStart |
| Active April 30 | 12 | April 30 of ReportEnd year | = CohortStart |
| Active July 31 | 13 | July 31 of ReportEnd year | = CohortStart |

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Criteria refer to columns in tmp\_Person unless otherwise specified.

| ID | Population | HHType | Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | **VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **DisabilityStatus** = 1 and:  **CHTime** = 365 and **CHTimeStatus** in (1,2); or  **CHTime** = 400 and **CHTimeStatus** = 2 |
| 15 | White, non-Hispanic/Latino | 0,1,2,3,99 | **Race** = 0 |
| 16 | White, Hispanic/Latino | 0,1,2,3,99 | **Race** = 1 |
| 17 | Black or African American | 0,1,2,3,99 | **Race** = 2 |
| 18 | Asian | 0,1,2,3,99 | **Race** = 3 |
| 19 | American Indian/Alaska Native | 0,1,2,3,99 | **Race** = 4 |
| 20 | Native Hawaiian/Other Pacific Islander | 0,1,2,3,99 | **Race** = 5 |
| 21 | Multi-Racial | 0,1,2,3,99 | **Race** = 6 |
| 22 | Non-Hispanic/Latino | 0,1,2,3,99 | **Ethnicity** = 0 |
| 23 | Hispanic/Latino | 0,1,2,3,99 | **Ethnicity** =1 |
| 24 | <1 year | 0,2,3,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 0 |
| 25 | 1 to 2 years | 0,2,3,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 2 |
| 26 | 3 to 5 years | 0,2,3,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 5 |
| 27 | 6 to 17 years | 0,2,3,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 17 |
| 28 | 18 to 21 years | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 21 |
| 29 | 22 to 24 years | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 24 |
| 30 | 25 to 34 years | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 34 |
| 31 | 35 to 44 years | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 44 |
| 32 | 45 to 54 years | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 54 |
| 33 | 55 to 64 years | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 64 |
| 34 | 65 and older | 0,1,2,99 | For latest relevant active\_Enrollment:  **AgeGroup** = 65 |
| 35 | Female | 0,1,2,3,99 | **Gender** = 1 |
| 36 | Male | 0,1,2,3,99 | **Gender** = 2 |
| 37 | Transgender | 0,1,2,3,99 | **Gender** = 3 |
| 38 | Gender non-conforming | 0,1,2,3,99 | **Gender** = 4 |
| 97 | Veteran - Female | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 1 |
| 98 | Veteran - Male | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 2 |
| 99 | Veteran - Transgender | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 3 |
| 100 | Veteran - Gender non-conforming | 0,1,2,99 | **VetStatus** = 1 and **Gender** = 4 |
| 101 | Veteran - White, non-Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Race** = 0 |
| 102 | Veteran - White, Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Race** = 1 |
| 103 | Veteran - Black or African American | 0,1,2,99 | **VetStatus** = 1 and **Race** = 2 |
| 104 | Veteran - Asian | 0,1,2,99 | **VetStatus** = 1 and **Race** = 3 |
| 105 | Veteran - American Indian or Alaska Native | 0,1,2,99 | **VetStatus** = 1 and **Race** = 4 |
| 106 | Veteran - Native Hawaiian / Other Pacific Islander | 0,1,2,99 | **VetStatus** = 1 and **Race** = 5 |
| 107 | Veteran - Multiple Races | 0,1,2,99 | **VetStatus** = 1 and **Race** = 6 |
| 108 | Veteran - Non-Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Ethnicity** = 0 |
| 109 | Veteran - Hispanic/Latino | 0,1,2,99 | **VetStatus** = 1 and **Ethnicity** = 1 |
| 110 | Veteran - Chronically Homeless | 0,1,2,99 | **VetStatus** = 1 and **DisabilityStatus** = 1 and  ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or  (**CHTime** = 400 and **CHTimeStatus** = 2)) |
| 111 | Veteran - Disabled | 0,1,2,99 | **VetStatus** = 1 and **DisabilityStatus** = 2 |
| 112 | Veteran - Fleeing Domestic Violence | 0,1,2,99 | **VetStatus** = 1 and **DVStatus** = 1 |
| 113 | Parenting Youth - Female | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshiptToHoH** = 1 and **Gender** = 1 |
| 114 | Parenting Youth - Male | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 2 |
| 115 | Parenting Youth - Transgender | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 3 |
| 116 | Parenting Youth - Gender non-conforming | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 4 |
| 117 | Parenting Youth - White, non-Hispanic/Latino | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 0 |
| 118 | Parenting Youth - White, Hispanic/Latino | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 1 |
| 119 | Parenting Youth - Black or African American | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 2 |
| 120 | Parenting Youth - Asian | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 3 |
| 121 | Parenting Youth - American Indian or Alaska Native | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 4 |
| 122 | Parenting Youth - Native Hawaiian / Other Pacific Islander | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 5 |
| 123 | Parenting Youth - Multiple Races | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 6 |
| 124 | Parenting Youth - Non-Hispanic/Latino | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Ethnicity** = 0 |
| 125 | Parenting Youth - Hispanic/Latino | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **Ethnicity** = 1 |
| 126 | Parenting Youth - Chronically Homeless | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **DisabilityStatus** = 1 and  ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or  (**CHTime** = 400 and **CHTimeStatus** = 2)) |
| 127 | Parenting Youth - Disabled | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **DisabilityStatus** = 1 |
| 128 | Parenting Youth - Fleeing Domestic Violence | 2 | active\_Household.**HHParent** = 1 and active\_Enrollment.**AgeGroup** in (21,24) and active\_Enrollment.**RelationshipToHoH** = 1 and **DVStatus** = 1 |
| 129 | Parenting Child - Female | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 1 |
| 130 | Parenting Child - Male | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 2 |
| 131 | Parenting Child - Transgender | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 3 |
| 132 | Parenting Child - Gender non-conforming | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Gender** = 4 |
| 133 | Parenting Child - White, non-Hispanic/Latino | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 0 |
| 134 | Parenting Child - White, Hispanic/Latino | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 1 |
| 135 | Parenting Child - Black or African American | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 2 |
| 136 | Parenting Child - Asian | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 3 |
| 137 | Parenting Child - American Indian or Alaska Native | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 4 |
| 138 | Parenting Child - Native Hawaiian / Other Pacific Islander | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 5 |
| 139 | Parenting Child - Multiple Races | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Race** = 6 |
| 140 | Parenting Child - Non-Hispanic/Latino | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Ethnicity** = 0 |
| 141 | Parenting Child - Hispanic/Latino | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **Ethnicity** = 1 |
| 142 | Parenting Child - Chronically Homeless | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **DisabilityStatus** = 1 and  ((**CHTime** = 365 and **CHTimeStatus** in (1,2)) or  (**CHTime** = 400 and **CHTimeStatus** = 2)) |
| 143 | Parenting Child - Disabled | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **DisabilityStatus** = 2 |
| 144 | Parenting Child - Fleeing Domestic Violence | 3 | active\_Household.**HHParent** = 1 and active\_Enrollment.**RelationshipToHoH** = 1 and **DVStatus** = 1 |
| 145 | Age 18-21 in AO Youth Household | 1 | active\_Household.**HHAdultAge** in (18,24) and active\_Enrollment.**AgeGroup** = 21 |
| 146 | Age 22-24 in AO Youth Household | 1 | active\_Household.**HHAdultAge** in (18,24) active\_Enrollment.**AgeGroup** = 24 |
| 147 | Age 18-21 in AC Parenting Youth Household | 2 | active\_Household.**HHParent** = 1 and and active\_Enrollment.**RelationshipToHoH** = 1 and active\_Enrollment.**AgeGroup** = 21 |
| 148 | Age 22-24 in AC Parenting Youth Household | 2 | active\_Household.**HHParent** = 1 and and active\_Enrollment.**RelationshipToHoH** = 1 and active\_Enrollment.**AgeGroup** = 24 |

### SystemPath and ProjectID

**SystemPath** is always -1 and **ProjectID** is always NULL for counts of people by project type.

## Get Counts of Bednights by Project and Household Characteristics

### ReportRow, Universe, ProjectID, and Value

**ReportRow** 56 counts bed nights in the LSA report period for people in households whose members have various characteristics, grouped by **ProjectID**.

These counts are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The **Universe** for project-level counts is 10; all project-level counts must have a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of the combination of [Date] and distinct **PersonalID**s in tmp\_Person that meet the criteria for inclusion in the cohort, universe, household type, and population, grouped by **ProjectID,** where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** in (3,13) | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* (hmis\_Services.*DateProvided* where *RecordType* = 200) | |

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project types; criteria are based on active\_Household values.

| ID | Household Population | HHType | active\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |

### SystemPath

**SystemPath** is always -1 for counts of bednights.

## Get Counts of Bednights by Project Type and Household Characteristics

### ReportRow, Universe, and Value

**ReportRow** 56 counts bed nights in the LSA report period for people in households whose members have various characteristics, grouped by **Universe**. These counts are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16=ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of the combination of [Date] and distinct **PersonalID**s in tmp\_Person active in relevant projects that meet the criteria for inclusion based on household type and personal characteristics in tmp\_Person, where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** in (3,13) | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* | |

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project types; criteria are based on active\_Household values.

| ID | Household Population | HHType | active\_Household Criteria |
| --- | --- | --- | --- |
| 0 | All | 0,1,2,3,99 | - |
| 1 | Youth 18-21 | 1 | **HHAdultAge** = 18 |
| 2 | Youth 22-24 | 1 | **HHAdultAge** = 24 |

### SystemPath and ProjectID

**SystemPath** is always -1 for counts of bednights; **ProjectID** should be NULL for counts by project type.

## Get Counts of Bednights by Project and Personal Characteristics

### ReportRow, Universe, ProjectID and Value

**ReportRow** 57 counts bed nights for people based on their own personal characteristics; for example, only veterans are included in the ‘Veteran’ count.

These counts are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The **Universe** for project-level counts is 10; all project-level counts must have a value in the **ProjectID** column that matches a record in Project.csv.

**Value** = a count of the combination of [Date] and distinct **PersonalID***s* in tmp\_Person active in relevant projects (**ProjectID**)that meet the criteria for inclusion based on household type and personal characteristics in tmp\_Person, grouped by **ProjectID,** where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** in (3,13) | **>=MoveInDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* | |

The value in the **ProjectID** column for these counts must match a record in Project.csv.

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project types; criteria are based on tmp\_Person values.

| ID | Household Population | HHType | tmp\_Person Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | **VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **DisabilityStatus** = 1 and:  **CHTime** = 365 and **CHTimeStatus** in (1,2); or  **CHTime** = 400 and **CHTimeStatus** = 2 |

### SystemPath

**SystemPath** is always -1 for counts of bednights.

## Get Counts of Bednights by Project Type and Personal Characteristics

### ReportRow, Universe, and Value

**ReportRow** 57 counts bed nights for people based on their own personal characteristics; for example, only bednights for veterans are included in the ‘Veteran’ count.

These counts are required in LSACalculated only if:

* ReportStart is October 1
* ReportEnd is September 30 of the following year
* LSAReport.**LSAScope** = 1

The value in the Project.csv **ProjectType** column for these counts determines the **Universe:**

| Universe | Active Enrollment |
| --- | --- |
| 11=ES project type | **ProjectType** = 1 |
| 12=SH project type | **ProjectType** = 8 |
| 13=TH project type | **ProjectType** = 2 |
| 14=Housed in RRH | **ProjectType** = 13 |
| 15=Housed in PSH | **ProjectType** = 3 |
| 16= ES/SH/TH unduplicated | **ProjectType** in (1,8,2) |

**Value** = a count of the combination of [Date] and distinct **PersonalID**s in tmp\_Person active in relevant projects that meet the criteria for inclusion based on household type and personal characteristics in tmp\_Person, where [Date] is between ReportStart and ReportEnd and:

| Project | [Date] | [Date] |
| --- | --- | --- |
| **ProjectType** in (3,13) | **>=MoveInDate** | <= (**ExitDate** – 1 day)or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** in (2,3,8) or **ProjectType** = 1 and **TrackingMethod** = 0 | **>=EntryDate** | <= (**ExitDate** – 1 day) or,  If **ExitDate** is null, ReportEnd |
| **ProjectType** = 1 and **TrackingMethod** = 3 | *=BedNightDate* | |

### Cohort

The count of bed nights is for the active cohort (**Cohort** = 1).

### Household Type and Population

Generate these counts for each of the following populations and each of the household types listed in the HHType column. Populations for these counts are specific to the relevant project types; criteria are based on tmp\_Person values.

| ID | Household Population | HHType | tmp\_Person Criteria |
| --- | --- | --- | --- |
| 3 | Veteran | 0,1,2,99 | **VetStatus** = 1 |
| 6 | Chronically Homeless Adult/HoH | 0,1,2,3,99 | **DisabilityStatus** = 1 and:  **CHTime** = 365 and **CHTimeStatus** in (1,2); or  **CHTime** = 400 and **CHTimeStatus** = 2 |

### SystemPath and ProjectID

**SystemPath** is always -1 for counts of bednights; **ProjectID** should be NULL for counts by project type.

## Data Quality – Get Counts of Enrollments Active After Project Operating End Date by Project

### ReportRow

**ReportRow** 58 counts enrollments without an *ExitDate* in continuum ES/SH/TH/RRH/PSH projects that have an *OperatingEndDate* between CohortStart and CohortEnd.

**ReportRow** 59 counts enrollments with an *ExitDate* from a continuum ES/SH/TH/RRH/PSH project where *OperatingEndDate* is between CohortStart and CohortEnd and *ExitDate* > *OperatingEndDate*.

### Cohort

**Cohort** = 20 for these counts.  The cohort for these counts is all clients in continuum ES/SH/TH/RRH/PSH projects with enrollments active in the three years ending on ReportEnd.

The cohort date range is:

CohortStart = [ReportEnd – 3 years] + 1 day

CohortEnd = ReportEnd

### Universe, ProjectID, and Value

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***, and may include ProjectIDs that are not included in Project.csv.

**Value** = a count of distinct *EnrollmentID*s in hmis\_Enrollment where:

* Project.*OperatingEndDate* between CohortStart and CohortEnd
* Project.*ProjectType* in (1,2,3,8,13)
* Project.*ContinuumProject* = 1
  + Exit.*ExitDate* is NULL (**ReportRow** 58); or
  + Exit.ExitDate > Project. *OperatingEndDate* (**ReportRow** 59)
* There is an EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC

### Household Type, Population, and SystemPath

**HHType** and **Population** for these counts is always 0.

**SystemPath** is always -1.

## Data Quality – Get Counts of Night-by-Night Enrollments by Project

### ReportRow, Universe, and ProjectID

**ReportRow** 60 counts enrollments without an *ExitDate* in continuum night-by-night ES projects that have no record of a bednight in the 90 days ending on ReportEnd.

**ReportRow** 61 counts enrollments with an *ExitDate* in continuum night-by-night ES projects between CohortStart and CohortEnd and where there is no record of a bed night on [*ExitDate* – 1 day].

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***, and may include ProjectIDs that are not included in Project.csv.

### Cohort

**Cohort** = 20 for these counts.  The cohort for these counts is all clients in continuum night-by-night ES projects enrollments active in the three years ending on ReportEnd.

The cohort date range is:

CohortStart = [ReportEnd – 3 years] + 1 day

CohortEnd = ReportEnd

### Value

**Value** = a count of distinct *EnrollmentID*s in hmis\_Enrollment where:

* Project.*ProjectType* = 1 and Project.*TrackingMethod* = 3
* Project.*ContinuumProject* = 1
* There is an EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and *CoCCode* = ReportCoC
  + Exit.*ExitDate* is NULL and **LastBednight** <= [CohortEnd – 90 days](**ReportRow** 60); or
  + Exit.*ExitDate* between CohortStart and CohortEnd and **LastBednight** <> *ExitDate* – 1 day] (**ReportRow** 61)

In this context, **LastBednight** is the most recent bednight for the enrollment on or before ReportEnd.

### Household Type, Population, and SystemPath

**HHType** and **Population** for these counts is always 0.

**SystemPath** is always -1.

## Data Quality – Get Counts of Enrollments with no Enrollment CoC Record by Project

### ReportRow, Universe, and ProjectID

**ReportRow** 62 counts *HouseholdID*s in continuum ES/SH/TH/RRH/PSH projects without a valid *EnrollmentCoC*.

The **Universe** for project-level counts is 10.

These counts are grouped by ***ProjectID***; they are limited to *ProjectID*s listed in Project.csv.

### Cohort

**Cohort** = 1 for these counts – they are limited to household enrollments active in the report period.  However, they do not include any *HouseholdID* in active\_Enrollment – they are counting enrollments that may have been excluded from the LSA erroneously because of missing *3.16 Client Location* data.

### Household Type and Value

The counts are grouped by **HHType** for all household members with the same *HouseholdID* with enrollments active in the report period as of the later of their own *EntryDate* or ReportStart. The logic associated is identical to that for active households; see section [5.4 Set Household Type for Active HouseholdIDs](#_Toc29188104).

**Value** = a count of distinct *HouseholdID*s in hmis\_Enrollment where:

* The *ProjectID* meets the selection criteria for lsa\_Project and *ProjectType* is not in (9,10):
  + Project.*ProjectType* in (1,2,3,8,13)
  + Project.*ContinuumProject* = 1
  + Project.*OperatingEndDate* is NULL or Project.OperatingEndDate >= ReportStart
  + ProjectCoC.*CoCCode* = ReportCoC
* Enrollment.*EntryDate* <= ReportEnd
* Exit.*ExitDate* is NULL or
  + Exit*.ExitDate* >= ReportStart; and
  + Exit*.ExitDate* > Enrollment.*EntryDate*
* There is no EnrollmentCoC record for the *HouseholdID* where *InformationDate* <= ReportEnd and ReportCoC is not NULL

### Population and SystemPath

**Population** for these counts is always 0.

**SystemPath** is always -1.

# HMIS Business Logic: Values for LSAReport

**Note:** data quality is assessed systemwide at a much broader level than actual LSA reporting. For example, the data quality columns look at race, ethnicity, etc. for children who are not heads of household. This is done to get a sense of systemwide data quality.

## Set LSAReport Data Quality Values for Report Period

### UnduplicatedClient1

A count of distinct **PersonalID**s in active\_Enrollment.

### UnduplicatedAdult1

A count of distinct **PersonalID**s in active\_Enrollment where **AgeGroup** between 21 and 65.

### AdultHoHEntry1

A count of distinct **EnrollmentID**s in active\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1.

### ClientEntry1

A count of distinct **EnrollmentID**s in active\_Enrollment.

### ClientExit1

A count of distinct **EnrollmentID**s in active\_Enrollment where **ExitDate** between ReportStart and ReportEnd.

### Household1

A count of distinct **HouseholdID**s in active\_Enrollment.

### HoHPermToPH1

A count of distinct **EnrollmentID**s in active\_Enrollment where heads of household served in RRH or PSH projects exited to a permanent housing destination:

|  |  |
| --- | --- |
| active\_Enrollment\* | **Condition** |
| **RelationshipToHoH** | 1 |
| **ExitDate** | is not null |
| lsa\_Project | **Condition** |
| **ProjectType** | in (3,13) |
| hmis\_Exit | **Condition** |
| *Destination* | Permanent - in (3,31,19,20,21,26,28,10,11,22,23) |

\* Throughout the data quality section, the dark purple rows starting with “active\_,” “lsa\_” and “dq\_” refer to LSA column or construct sources. The light green shaded rows starting with ”hmis\_” refer to HMIS sources.

### NoCoC

A count of distinct *EnrollmentID*s in hmis\_Enrollment for continuum projects that operate in the ReportCoC where there is no value for *EnrollmentCoC*.

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *RelationshipToHoH* | 1 |
| *EntryDate* | <= ReportEnd |
| hmis\_Exit | **Condition** |
| *ExitDate* | >= ReportStart or NULL |
| hmis\_Project | **Condition** |
| *ProjectType* | in (1,2,3,8,13) |
| *ContinuumProject* | 1 |
| hmis\_ProjectCoC | **Condition** |
| *CoCCode* | ReportCoC |
| hmis\_EnrollmentCoC | **Condition** |
| *CoCCode* | is null |

### DOB1

A count of distinct **PersonalID**s in active\_Enrollment where:

|  |  |
| --- | --- |
| active\_Enrollment | **Condition** |
| **AgeGroup** | in (98,99) |

### Gender1

A count of distinct **PersonalID**s in active\_Enrollment – including children not served as head of household – where:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *Gender* | Not between 0 and 4 |

### Race1

A count of distinct **PersonalID**s in active\_Enrollment – including children not served as head of household – where:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *Race* | in (98,99) |

### Ethnicity1

A count of distinct **PersonalID**s in active\_Enrollment – including children not served as head of household – where:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *Ethnicity* | not in (0,1) |

### VetStatus1

A count of distinct **PersonalID**s in active\_Enrollment where:

|  |  |
| --- | --- |
| active\_Enrollment | **Condition** |
| **AgeGroup** | Between 21 and 65 |
| hmis\_Client | **Condition** |
| **VeteranStatus** | Not in (0,1) or is null |

### RelationshipToHoH1

A count of distinct **EnrollmentID**s in active\_Enrollment where:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *RelationshipToHoH* | Not between 1 and 5 |

### DisablingCond1

A count of distinct **EnrollmentID**s in active\_Enrollment – including children not served as head of household – where:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *DisablingCondition* | not in (0,1) |

### LivingSituation1

A count of distinct **EnrollmentID**s in active\_Enrollment – including adults not served as head of household – where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *LivingSituation* | in (8,9,99) or is null |

### LengthOfStay1

A count of distinct **EnrollmentID**s in active\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *LengthOfStay* | in (8,9,99) or is null |

### HomelessDate1

A count of distinct **EnrollmentID**s in active\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and the record meets any of the four conditions below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hmis\_Enrollment | **Condition 1** | **Condition 2** | **Condition 3** | **Condition 4** |
| *DateToESSHStreet* | > *EntryDate* | null | null | null |
| *LivingSituation* | -- | in (1,16,18,27) | -- | in (4,5,6,7,15,24) |
| *LengthOfStay* | -- | -- | in (10,11) | in (2,3) |
| *PreviousStreetESSH* | -- | -- | 1 or is null | 1 or is null |

### TimesHomeless1

A count of distinct **EnrollmentID**s in active\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

|  |  |  |  |
| --- | --- | --- | --- |
| hmis\_Enrollment | **Condition 1** | **Condition 2** | **Condition 3** |
| *TimesHomeless* | Not between 1 and 4 | Not between 1 and 4 | Not between 1 and 4 |
| *LivingSituation* | in (1,16,18,27) | -- | in (4,5,6,7,15,24) |
| *LengthOfStay* | -- | in (10,11) | in (2,3) |
| *PreviousStreetESSH* | -- | 1 | 1 |

### MonthsHomeless1

A count of distinct **EnrollmentID**s in active\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

|  |  |  |  |
| --- | --- | --- | --- |
| hmis\_Enrollment | **Condition 1** | **Condition 2** | **Condition 3** |
| *TimesHomeless* | Not between 101 and 113 | Not between 101 and 113 | Not between 101 and 113 |
| *LivingSituation* | in (1,16,18,27) | -- | in (4,5,6,7,15,24) |
| *LengthOfStay* | -- | in (10,11) | in (2,3) |
| *PreviousStreetESSH* | -- | 1 | 1 |

### DV1

A count of distinct **EnrollmentID**s in active\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

There is no associated record of DE *4.11 DomesticViolence* with a *DataCollectionStage* = 1; or:

|  |  |  |
| --- | --- | --- |
| hmis\_HealthAndDV | **Condition 1** | **Condition 2** |
| *DataCollectionStage* | 1 | 1 |
| *DomesticViolenceVictim* | in (8,9,99) or is null | 1 |
| *CurrentlyFleeing* | (any) | in (8,9,99) or is null |

### Destination1

A count of distinct **EnrollmentID**s in active\_Enrollment where **ExitDate** between ReportStart and ReportEnd and:

|  |  |
| --- | --- |
| hmis\_Exit | **Condition** |
| *Destination* | in (8,9,17,30,99) |

### NotOneHoH1

A count of distinct **HouseholdID**s in active\_Enrollment where there is no designated head of household or where there is more than one designated head of household:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *RelationshipToHoH* | 1 |
| COUNT (distinct *EnrollmentID)* | <>1 |

### MoveInDate1

A count of distinct **EnrollmentID**s in active\_Enrollment where heads of household served in RRH or PSH projects exited to a permanent housing destination and **MoveInDate** is null or **MoveInDate** not between **EntryDate** and **ExitDate**.

|  |  |
| --- | --- |
| active\_Enrollment | **Condition** |
| **RelationshipToHoH** | 1 |
| **ExitDate** | is not null |
| **MoveInDate** | is null or not between **EntryDate** and **ExitDate** |
| lsa\_Project | **Condition** |
| **ProjectType** | in (3,13) |
| hmis\_Exit | **Condition** |
| *Destination* | Permanent - in (3,31,19,20,21,26,28,10,11,22,23) |

## Get Relevant Enrollments for Three-Year Data Quality Checks

### Relevant Data

#### Target

|  |  |
| --- | --- |
| dq\_Enrollment | **Column Description** |
| EnrollmentID | Distinct *EnrollmentIDs* active in the three years between (ReportStart – 2 years) and ReportEnd; foreign key for HMIS enrollment records. |
| PersonalID | Foreign key – hmis\_Client. |
| HouseholdID | From enrollment. |
| RelationshipToHoH | From enrollment. |
| ProjectType | From hmis\_Project. |
| EntryDate | *EntryDate* for the enrollment. |
| MoveInDate | *MoveInDate* for RRH/PSH enrollments, if any. |
| ExitDate | *ExitDate* for the EnrollmentID, if any. |
| Adult | In relation to the later of *EntryDate* or ReportStart-2 years: 0 (no, child), 1 (yes), 99 (unknown). |
| SSNValid | 0 (no, does not meet checked criteria), 1 (meets checked criteria). |

### Logic

The inclusion criteria for dq\_Enrollment are similar to – but less stringent– than those used to identify clients active in the report period:

* *EntryDate* <= ReportEnd
* *ExitDate* is NULL or *ExitDate* >= (ReportEnd – 3 years)
* *ProjectType* in (1,2,3,8,13)
* ContinuumProject = 1
* There is a record where *EnrollmentCoC* = ReportCoC dated on or before ReportEnd associated with any *EnrollmentID* that shares the same *HouseholdID*

#### Adult

An individual’s status as adult, child, or unknown is based on *DOBDataQuality* and *DOB* in relation to the later of *EntryDate* or ReportStart-2 years*.*

| Priority | Condition | Adult |
| --- | --- | --- |
| 1 | *DOBDataQuality* in (8,9) | 99 |
| 2 | *DOBDataQuality* not in (1,2) | 99 |
| 3 | *DOB* is missing or set to a system default | 99 |
| 4 | *DOB* *> EntryDate* | 99 |
| 5 | *RelationshipToHoH* = 1 and *DOB* *= EntryDate* | 99 |
| 5 | [*DOB* *+* 105 years] *<=* **AgeDate** | 99 |
| 6 | [*DOB* *+* 18 years] *<=* **AgeDate** | 1 |
| 7 | (other) | 0 |

#### SSNValid

**SSNValid** = 0 for any *SSN* where:

* Length(*SSN*) <> 9; or
* *SSN* is null or set to system default; or
* *SSN* begins with ‘000’, ‘666’, or ‘9’; or
* *SSN* middle 2 digits are ‘00’ (e.g. 999-00-9999); or
* *SSN* last 4 digits are ‘0000’; or
* *SSN* contains any character other than 0-9; or
* *SSN* in ('111111111', '222222222', '333333333', '444444444', '555555555', '777777777', '888888888')

Otherwise, **SSNValid** = 1. (These checks will not catch every invalid SSN, but those that meet the criteria will be assumed to be valid.)

## Set LSAReport Data Quality Values for Three-Year Period

### UnduplicatedClient3

A count of distinct **PersonalID**s in dq\_Enrollment.

### UnduplicatedAdult3

A count of distinct **PersonalID**s in dq\_Enrollment where **Adult** = 1.

### AdultHoHEntry3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **Adult** = 1 or **RelationshipToHoH** = 1.

### ClientEntry3

A count of distinct **EnrollmentID**s in dq\_Enrollment.

### ClientExit3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **ExitDate** between (ReportStart – 2 years) and ReportEnd.

### Household3

A count of distinct **HouseholdID**s in dq\_Enrollment.

### HoHPermToPH3

A count of distinct **EnrollmentID**s in dq\_Enrollment where heads of household served in RRH or PSH projects exited to a permanent housing destination:

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **RelationshipToHoH** | 1 |
| **ExitDate** | is not null |
| **ProjectType** | in (3,13) |
| hmis\_Exit | **Condition** |
| *Destination* | Permanent - in (3,31,19,20,21,26,28,10,11,22,23) |

### SSNNotProvided

A count of distinct **PersonalID**s in dq\_Enrollment where the client either did not know or refused to provide a Social Security number:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *SSNDataQuality* | in (8,9) |

### SSNMissingOrInvalid

A count of distinct **PersonalID**s in dq\_Enrollment where the SSN is not consistent with Social Security Administration guidelines for a valid SSN and the **PersonalID** was not counted in **SSNNotProvided**.

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **SSNValid** | 0 |
| hmis\_Client | **Condition** |
| *SSNDataQuality* | NOT in (8,9) or is null |

### ClientSSNNotUnique

A count of distinct **PersonalID**s in dq\_Enrollment that have the same (apparently valid) hmis\_Client.*SSN* as one or more other **PersonalID**s that appear in dq\_Enrollment:

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **SSNValid** | 1 |
| hmis\_Client | **Condition** |
| *SSNDataQuality* | In (1,2) |
| *SSN* | Not in the SSN values counted in **SSNMissingOrInvalid** |
| *SSN* | = hmis\_Client.*SSN* where *PersonalID* <> dq\_Enrollment.**PersonalID** |

### DistinctSSNValueNotUnique

A count of distinct (apparently valid) *SSN*values in hmis\_Client which are shared by more than one dq\_Enrollment.**PersonalID**:

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **SSNValid** | 1 |
| hmis\_Client | **Condition** |
| *PersonalID* | in dq\_Enrollment.**PersonalID** |
| Count (distinct *PersonalID*) | >1 |

### DOB3

A count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **Adult** | 99 |

### Gender3

A count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *Gender* | not between 0 and 4 or is null |

### Race3

A count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *Race* | in (8,9,99) or is null |

### Ethnicity3

A count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| hmis\_Client | **Condition** |
| *Ethnicity* | not in (0,1) or is null |

### VetStatus3

A count of distinct **PersonalID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **Adult** | 1 |
| hmis\_Client | **Condition** |
| *VeteranStatus* | not in (0,1) or is null |

### RelationshipToHoH3

A count of distinct **EnrollmentID**s in dq\_Enrollment where:

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **RelationshipToHoH** | not between 1 and 5 or is null |

### DisablingCond3

A count of distinct **EnrollmentID**s in dq\_Enrollment – including children not served as head of household – where:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *DisablingCondition* | not in (0,1) or is null |

### LivingSituation3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *LivingSituation* | in (8,9,99) or is null |

### LengthOfStay3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **AgeGroup** between 21 and 65 or **RelationshipToHoH** = 1 and:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *LengthOfStay* | in (8,9,99) or is null |

### HomelessDate3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **Adult** = 1 or **RelationshipToHoH** = 1 and the record meets any of the four conditions below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hmis\_Enrollment | **Condition 1** | **Condition 2** | **Condition 3** | **Condition 4** |
| *DateToESSHStreet* | > *EntryDate* | null | null | null |
| *LivingSituation* | -- | in (1,16,18,27) | -- | in (4,5,6,7,15,24) |
| *LengthOfStay* | -- | -- | in (10,11) | in (2,3) |
| *PreviousStreetESSH* | -- | -- | 1 or is null | 1 or is null |

### TimesHomeless3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **Adult** = 1 or **RelationshipToHoH** = 1 and:

|  |  |  |  |
| --- | --- | --- | --- |
| hmis\_Enrollment | **Condition 1** | **Condition 2** | **Condition 3** |
| *TimesHomeless* | Not between 1 and 4 | Not between 1 and 4 | Not between 1 and 4 |
| *LivingSituation* | in (1,16,18,27) | -- | in (4,5,6,7,15,24) |
| *LengthOfStay* | -- | in (10,11) | in (2,3) |
| *PreviousStreetESSH* | -- | 1 | 1 |

### MonthsHomeless3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **Adult** = 1 or **RelationshipToHoH** = 1 and:

|  |  |  |  |
| --- | --- | --- | --- |
| hmis\_Enrollment | **Condition 1** | **Condition 2** | **Condition 3** |
| *TimesHomeless* | Not between 101 and 113 | Not between 101 and 113 | Not between 101 and 113 |
| *LivingSituation* | in (1,16,18,27) | -- | in (4,5,6,7,15,24) |
| *LengthOfStay* | -- | in (10,11) | in (2,3) |
| *PreviousStreetESSH* | -- | 1 | 1 |

### DV3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **Adult** = 1 or **RelationshipToHoH** = 1 and:

There is no associated record of DE *4.11 DomesticViolence* with a *DataCollectionStage* = 1; or the record meets either of the two conditions below:

|  |  |  |  |
| --- | --- | --- | --- |
| hmis\_HealthAndDV | **Condition 1** | **OR** | **Condition 2** |
| *DataCollectionStage* | 1 | | 1 |
| *DomesticViolenceVictim* | in (8,9,99) or is null | | 1 |
| *CurrentlyFleeing* | (any) | | in (8,9,99) or is null |

### Destination3

A count of distinct **EnrollmentID**s in dq\_Enrollment where **ExitDate** between ReportStart and ReportEnd and:

|  |  |
| --- | --- |
| hmis\_Exit | **Condition** |
| *Destination* | in (8,9,17,30,99) |

### NotOneHoH3

A count of distinct **HouseholdID**s in dq\_Enrollment where there is no designated head of household or where there is more than one designated head of household:

|  |  |
| --- | --- |
| hmis\_Enrollment | **Condition** |
| *RelationshipToHoH* | 1 |
| Count (distinct *EnrollmentID)* | <>1 |

### MoveInDate3

A count of distinct **EnrollmentID**s in dq\_Enrollment where heads of household served in RRH or PSH projects exited to a permanent housing destination and **MoveInDate** is null or **MoveInDate** not between **EntryDate** and **ExitDate**.

|  |  |
| --- | --- |
| dq\_Enrollment | **Condition** |
| **RelationshipToHoH** | 1 |
| **ExitDate** | is not null |
| **MoveInDate** | is null or not between **EntryDate** and **ExitDate** |
| **ProjectType** | in (3,13) |
| hmis\_Exit | **Condition** |
| *Destination* | Permanent - in (3,31,19,20,21,26,28,10,11,22,23) |

# Export LSA Files

## Set LSAReport ReportDate

Set LSAReport.**ReportDate** = the system date/time when all data required to produce the LSA CSV files has been generated.

## LSAPerson

LSAPerson includes 55 columns. **RowTotal** is a count of distinct **PersonalID**s in tmp\_Person, grouped by values in all of the columns below. The data type for every column in LSAPerson is integer; no value may be null.

| # | Column Name |
| --- | --- |
| 1 | **RowTotal** |
| 2 | **Gender** |
| 3 | **Race** |
| 4 | **Ethnicity** |
| 5 | **VetStatus** |
| 6 | **DisabilityStatus** |
| 7 | **CHTime** |
| 8 | **CHTimeStatus** |
| 9 | **DVStatus** |
| 10 | **ESTAgeMin** |
| 11 | **ESTAgeMax** |
| 12 | **HHTypeEST** |
| 13 | **HoHEST** |
| 14 | **AdultEST** |
| 15 | **HHChronicEST** |
| 16 | **HHVetEST** |
| 17 | **HHDisabilityEST** |
| 18 | **HHFleeingDVEST** |
| 19 | **HHAdultAgeAOEST** |
| 20 | **HHAdultAgeACEST** |
| 21 | **HHParentEST** |
| 22 | **AC3PlusEST** |
| 23 | **AHAREST** |
| 24 | **AHARHoHEST** |
| 25 | **RRHAgeMin** |
| 26 | **RRHAgeMax** |
| 27 | **HHTypeRRH** |
| 28 | **HoHRRH** |
| 29 | **AdultRRH** |
| 30 | **HHChronicRRH** |
| 31 | **HHVetRRH** |
| 32 | **HHDisabilityRRH** |
| 33 | **HHFleeingDVRRH** |
| 34 | **HHAdultAgeAORRH** |
| 35 | **HHAdultAgeACRRH** |
| 36 | **HHParentRRH** |
| 37 | **AC3PlusRRH** |
| 38 | **AHARRRH** |
| 39 | **AHARHoHRRH** |
| 40 | **PSHAgeMin** |
| 41 | **PSHAgeMax** |
| 42 | **HHTypePSH** |
| 43 | **HoHPSH** |
| 44 | **AdultPSH** |
| 45 | **HHChronicPSH** |
| 46 | **HHVetPSH** |
| 47 | **HHDisabilityPSH** |
| 48 | **HHFleeingDVPSH** |
| 49 | **HHAdultAgeAOPSH** |
| 50 | **HHAdultAgeACPSH** |
| 51 | **HHParentPSH** |
| 52 | **AC3PlusPSH** |
| 53 | **AHARPSH** |
| 54 | **AHARHoHPSH** |
| 55 | **ReportID** |

## LSAHousehold

LSAHousehold includes 45 columns. **RowTotal** is a count of distinct combinations of **HoHID** and **HHType** from tmp\_Household, grouped by the values in all other columns.

In tmp\_Household, the following columns are populated with actual counts of days because they are needed to generate averages for LSACalculated:

|  |  |  |
| --- | --- | --- |
| **ESDays** | **RRHPreMoveInDays** | **SystemHomelessDays** |
| **THDays** | **RRHPSHPreMoveInDays** | **Other3917Days** |
| **ESTDays** | **RRHHousedDays** | **TotalHomelessDays** |
| **SystemDaysNotPSHHoused** |  |  |

For export, the actual counts are grouped into categories as shown below.

| Value | System Use/Homeless Days | Criteria |
| --- | --- | --- |
| 0 | 0 days | [Days] = 0 |
| 7 | 1-7 days | [Days] between 1 and 7 |
| 30 | 8-30 days | [Days] between 8 and 30 |
| 60 | 31-60 days | [Days] between 31 and 60 |
| 90 | 61-90 days | [Days] between 61 and 90 |
| 180 | 91-180 days | [Days] between 91 and 180 |
| 365 | 181-365 days | [Days] between 181 and 365 |
| 547 | 366-547 days | [Days] between 366 and 547 |
| 730 | 548-730 days | [Days] between 548 and 730 |
| 1094 | 731-1094 days | [Days] between 731 and 1094 |
| 1095 | 1095 days+ | [Days] > 1094 |

Actual values in the **PSHHousedDays** column also have to be grouped into upload categories; the groupings differ from those used for the other columns of system use days:

| Value | Time Housed in PSH | Criteria |
| --- | --- | --- |
| 0 | None | **PSHMoveIn** not in (1,2) |
| 3 | Up to 3 months | **PSHHousedDays** between 1 and 90 |
| 6 | 3-6 months | **PSHHousedDays** between 91 and 180 |
| 12 | 6-12 months | **PSHHousedDays** between 181 and 365 |
| 24 | 12-24 months | **PSHHousedDays** between 366 and 180 |
| 36 | 25-36 months | **PSHHousedDays** between 731 and 730 |
| 48 | 37-48 months | **PSHHousedDays** between 1096 and 1460 |
| 60 | 49-60 months | **PSHHousedDays** between 1461and 1825 |
| 84 | 5-7 years | **PSHHousedDays** between 1826 and 2555 |
| 120 | 8-10 years | **PSHHousedDays** between 2556 and 3650 |
| 121 | 10+ years | **PSHHousedDays** > 3650 |

All of the columns in LSAHousehold are integers; none may be null.

| # | Column Name |
| --- | --- |
| 1 | **RowTotal** |
| 2 | **Stat** |
| 3 | **ReturnTime** |
| 4 | **HHType** |
| 5 | **HHChronic** |
| 6 | **HHVet** |
| 7 | **HHDisability** |
| 8 | **HHFleeingDV** |
| 9 | **HoHRace** |
| 10 | **HoHEthnicity** |
| 11 | **HHAdult** |
| 12 | **HHChild** |
| 13 | **HHNoDOB** |
| 14 | **HHAdultAge** |
| 15 | **HHParent** |
| 16 | **ESTStatus** |
| 17 | **ESTGeography** |
| 18 | **ESTLivingSit** |
| 19 | **ESTDestination** |
| 20 | **RRHStatus** |
| 21 | **RRHMoveIn** |
| 22 | **RRHGeography** |
| 23 | **RRHLivingSit** |
| 24 | **RRHDestination** |
| 25 | **RRHPreMoveInDays** |
| 26 | **PSHStatus** |
| 27 | **PSHMoveIn** |
| 28 | **PSHGeography** |
| 29 | **PSHLivingSit** |
| 30 | **PSHDestination** |
| 31 | **PSHHousedDays** |
| 32 | **ESDays** |
| 33 | **THDays** |
| 34 | **ESTDays** |
| 35 | **RRHPSHPreMoveInDays** |
| 36 | **RRHHousedDays** |
| 37 | **SystemDaysNotPSHHoused** |
| 38 | **SystemHomelessDays** |
| 39 | **Other3917Days** |
| 40 | **TotalHomelessDays** |
| 41 | **SystemPath** |
| 42 | **ESTAHAR** |
| 43 | **RRHAHAR** |
| 44 | **PSHAHAR** |
| 45 | **ReportID** |

## LSAExit

LSAExit includes 17 columns. **RowTotal** is a count of distinct combinations of **Cohort, HoHID** and **HHType** from tmp\_Exit, grouped by the values in all other columns.

In tmp\_Exit, **ReturnTime** is populated with actual counts of days because they are needed to generate averages for LSACalculated. For export, the actual counts are grouped into categories as shown below.

| Value | Return Time | From | To |
| --- | --- | --- | --- |
| -1 | Not applicable | -1 | -1 |
| 30 | 15-30 days | 15 | 30 |
| 60 | 31-60 days | 31 | 60 |
| 90 | 61-90 days | 61 | 90 |
| 180 | 91-180 days | 91 | 180 |
| 365 | 181-365 days | 181 | 365 |
| 547 | 366-547 days | 366 | 547 |
| 730 | 548-730 days | 548 | 730 |

All of the columns in LSAExit are integers; none may be null.

| # | Column Name |
| --- | --- |
| 1 | **RowTotal** |
| 2 | **Cohort** |
| 3 | **Stat** |
| 4 | **ExitFrom** |
| 5 | **ExitTo** |
| 6 | **ReturnTime** (group as shown above) |
| 7 | **HHType** |
| 8 | **HHVet** |
| 9 | **HHDisability** |
| 10 | **HHFleeingDV** |
| 11 | **HoHRace** |
| 12 | **HoHEthnicity** |
| 13 | **HHAdultAge** |
| 14 | **HHParent** |
| 15 | **AC3Plus** |
| 16 | **SystemPath** |
| 17 | **ReportID** |

## LSACalculated

LSACalculated has nine columns. With the exception of **ProjectID,** the datatype for all columns is integer and none may be null.

The data type for the **ProjectID** column is an alphanumeric string of no more than 32 characters.

* If **Universe** <> 10, **ProjectID** must be null.
* If **Universe** = 10, **ProjectID** must match a record in Project.csv.

| # | Column Name |
| --- | --- |
| 1 | **Value** |
| 2 | **Cohort** |
| 3 | **Universe** |
| 4 | **HHType** |
| 5 | **Population** |
| 6 | **SystemPath** |
| 7 | **ProjectID** |
| 8 | **ReportRow** |
| 9 | **ReportID** |

## LSAReport

LSAReport has 61 columns; none may be null. Data types are shown below.

| # | Column Name | Data Type |
| --- | --- | --- |
| 1 | **ReportID** | Integer |
| 2 | **ReportDate** | Date/time |
| 3 | **ReportStart** | Date |
| 4 | **ReportEnd** | Date |
| 5 | **ReportCoC** | 6 character string (XX-999) |
| 6 | **SoftwareVendor** | String; up to 50 characters or ‘n/a’ |
| 7 | **SoftwareName** | String; up to 50 characters or ‘n/a’ |
| 8 | **VendorContact** | String; up to 50 characters or ‘n/a’ |
| 9 | **VendorEmail** | String; up to 50 characters or ‘n/a’ |
| 10 | **LSAScope** | Integer |
| 11 | **UnduplicatedClient1** | Integer |
| 12 | **UnduplicatedClient3** | Integer |
| 13 | **UnduplicatedAdult1** | Integer |
| 14 | **UnduplicatedAdult3** | Integer |
| 15 | **AdultHoHEntry1** | Integer |
| 16 | **AdultHoHEntry3** | Integer |
| 17 | **ClientEntry1** | Integer |
| 18 | **ClientEntry3** | Integer |
| 19 | **ClientExit1** | Integer |
| 20 | **ClientExit3** | Integer |
| 21 | **Household1** | Integer |
| 22 | **Household3** | Integer |
| 23 | **HoHPermToPH1** | Integer |
| 24 | **HoHPermToPH3** | Integer |
| 25 | **NoCoC** | Integer |
| 26 | **SSNNotProvided** | Integer |
| 27 | **SSNMissingOrInvalid** | Integer |
| 28 | **ClientSSNNotUnique** | Integer |
| 29 | **DistinctSSNValueNotUnique** | Integer |
| 30 | **DOB1** | Integer |
| 31 | **DOB3** | Integer |
| 32 | **Gender1** | Integer |
| 33 | **Gender3** | Integer |
| 34 | **Race1** | Integer |
| 35 | **Race3** | Integer |
| 36 | **Ethnicity1** | Integer |
| 37 | **Ethnicity3** | Integer |
| 38 | **VetStatus1** | Integer |
| 39 | **VetStatus3** | Integer |
| 40 | **RelationshipToHoH1** | Integer |
| 41 | **RelationshipToHoH3** | Integer |
| 42 | **DisablingCond1** | Integer |
| 43 | **DisablingCond3** | Integer |
| 44 | **LivingSituation1** | Integer |
| 45 | **LivingSituation3** | Integer |
| 46 | **LengthOfStay1** | Integer |
| 47 | **LengthOfStay3** | Integer |
| 48 | **HomelessDate1** | Integer |
| 49 | **HomelessDate3** | Integer |
| 50 | **TimesHomeless1** | Integer |
| 51 | **TimesHomeless3** | Integer |
| 52 | **MonthsHomeless1** | Integer |
| 53 | **MonthsHomeless3** | Integer |
| 54 | **DV1** | Integer |
| 55 | **DV3** | Integer |
| 56 | **Destination1** | Integer |
| 57 | **Destination3** | Integer |
| 58 | **NotOneHoH1** | Integer |
| 59 | **NotOneHoH3** | Integer |
| 60 | **MoveInDate1** | Integer |
| 61 | **MoveInDate3** | Integer |

1. Data for dependent fields *3.917B.2A Did you stay less than 90 days?* and *3.917B.2B Did you stay less than 7 nights?* may conflict with and will always be redundant to *LengthOfStay*. Data for these two dependent fields are specifically excluded from LSA business logic; use of *LengthOfStay* is required. [↑](#footnote-ref-2)
2. [↑](#footnote-ref-3)
3. ‘Interim housing’ (27) was a valid response category for *3.917A/B Living Situation* prior to 10/1/2019, the effective date of the FY2020 HMIS Data Standards. In case any records are still stored with this value, we are retaining this as a valid report category for the LSA, regardless of entry/exit dates. [↑](#footnote-ref-4)