

# CSI Demographic Dashboard Methodology

Update Date: 8/20/2020

## CSI Demographic Dashboard:

The Client Services Information (CSI) Demographic Dashboard provides an overview of persons receiving one or more publicly funded Specialty Mental Health Services by fiscal year. A person is counted as being served during a fiscal year if one or more of their CSI service dates fall within the fiscal year. The CSI system reflects Medi-Cal clients, non-Medi-Cal clients, and services provided in County, City/Mental Health Plan programs (excluding CONREP services). Not all persons in CSI are receiving MHPA funded services.

The dashboard contains three sections: (1) an overview section that looks at aggregated data for all CSI clients by fiscal year, (2) a regional section that looks at aggregated data by for CSI clients by age group, region, fiscal year and demographic category, and (3) a regional section that looks at aggregated data by for CSI clients by age group, county, fiscal year and demographic category. Data is presented for the percentage of the total population represented by the chosen demographic category. Users can hover over an individual bar to see the person count and a time-series line graph for that particular category.

## Methodology:

### Base Dataset

County submitted client and service data from the Client Services Information (CSI) System tool is used for this dashboard. The data is acquired by MHPA via a download from the Department of Health Care Services (DHCS). Demographic data is pulled from the CSI Client table while service data is pulled from the CSI Service Fact table.

Data is aggregated by fiscal year based on the July-June fiscal year used for most public California statewide data. A person has a row for a fiscal if one or more of their CSI service dates fall within the fiscal year. An individual person id (Universal\_ID) is calculated by MHPA to link different partnerships that belong to the same person. This is calculated using a linkage methodology originally developed by MH Data for MHPA, though some changes have been made in later program iterations.

MHPA base DCR and CSI are updated every six months via a feed from DHCS. Dashboards will be updated based on the new feed each time in full. This may create some subtle changes in numbers for all fiscal years, not just the most recent ones if there were data changes at DHCS related to those years.

## Data Aggregation

Aggregates are presented for demographic related data categories: (1) Race/Ethnicity, (2) Sex, (3) Language, (4) Birth Place, (5) Reported Trauma. Presentation is related to the percentage of the total FSP population in the chosen group in each category. In addition to Demographic Category, data is aggregated, and can be view by, various combinations of Fiscal Year, Area/County, and Age Group. Data is presented in three dashboards reachable by buttons: (1) [Overview](#), (2) [Region](#), and (3) [County](#). A fourth button, [Export PDF](#) exports the visible dashboard to a PDF file.

## Reporting Categories

The [Overview](#) button contains statewide data and provides total counts of partnerships and persons and two figures related to person level data, a bar chart that shows statewide percentages by age group and a map that shows the total FSP population in each county.

The [Region](#) button contains data by five California regions defined in previous MHSOAC reporting. See the grid below for regional definitions. The user chooses a combination of demographic items and a bar chart shows the percentage breakdown for those choices. Individual level time series data can be found by hovering over a bar in the chart.

### FSP Regions

Region	County List
Bay Area Counties	Alameda, Berkeley City, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma
Central Counties	Alpine, Amador, Calaveras, El Dorado, Fresno, Inyo, Kings, Madera, Mariposa, Merced, Mono, Placer, Sacramento, San Joaquin, Stanislaus, Sutter/Yuba, Tulare, Tuolumne, Yolo
Los Angeles Region	Los Angeles
Southern Counties	Imperial, Kern, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Tri-City, Ventura
Superior Counties	Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama, Trinity

The [County](#) button contains data by California county. It also includes a “California” total and data for Berkeley City and Tri-City. Sutter and Yuba county are also combined in FSP reporting. Like the Region button, the user chooses a combination of demographic items and a bar chart shows the percentage breakdown for those choices. Individual level time series data can be found by hovering over a bar in the chart.

The [Export PDF](#) button exports whatever window the user is on to a PDF, providing a more usable format than print screen to download the charts.

## Selection Categories

### Year

Data is available from FY 2010-11 through the most recently available fiscal year. New data will be added roughly one year after fiscal year end, depending on when data is received from DHCS.

### Area/Region/County

Data is reported for the county where the partner is enrolled in an FSP. County data is aggregated to a Regional level based on the grid above.

### Demographic

Five different Demographic Categories are available:

1. **Race/Ethnicity** – 7 race categories are presented based on self-reported race in the CSI:

American Indian/Alaska Native  
Asian/Pacific Islander  
Black/African American  
Latino/a  
White/Caucasian  
Multiracial  
Other  
Unknown

The race category is calculated using the self-reported Eth\_A\_Code, Eth\_B\_Code, Race1 and Race2 variables and the CSI\_HISP\_IND flag in the CSI client file.

The value is calculated using the following set of rules:

- a. If a partner ever self-reported American Indian or Alaska Native then the partner is flagged as American Indian or Alaska Native.
- b. Else if a partner ever self-reported as “Hispanic” in Eth\_A\_Code or Eth\_B\_Code or has a CSI\_HISPANIC\_IND = ‘Y’ then the partner is flagged as Latino.
- c. Else if a client has different non-null/unknown values in more than one of Eth\_A\_Code, Eth\_B\_Code, Race1 and Race2 they are flagged as “Multiracial”.
- d. Otherwise the value is flagged as reported.

For unique person level reporting predefined race categories at the partner level go through the process outlined above.

2. **Sex** – Sex is reported as Male, Female, or Unknown based on self-reported CSI client file data.
3. **Language** – The language column is based on the primary language field reported in the CSI client file. We currently report data based on English, Spanish, and Other. This is done because the count of languages in the “Other” category represent very small numbers. A more detailed variable is under development.
4. **Place of Birth** – Place of Birth is calculated from the COUNTRY\_NAME and the STATE\_NAME variables self-reported in the CSI client file. Reported groups are California Born, Other US State Born, Foreign Born, Unknown.
5. **Trauma** – The trauma column is calculated based on the Yes/No Trauma Flag reported in the CSI Service Fact table. This is a broad measure based on a Trauma ever being reported in the CSI data. The trauma could have happened before or during the partners enrollment period.

## Age Group

Age is calculated based on the Partner’s age as of the first day of the fiscal year (July 1). The age groups presented are based on the age categories reported in the DCR (a “Total” value is also presented):

Children 0-15

Transitional Age Youth (TAY) 16=25

Adult 26-59

Older Adult 60 Plus

## Data Suppression

Any cell with a count of less than 11 will be suppressed any MHSOAC Dashboard. Cells with no data in the raw data will have a value of 0 in the dashboard. If only a single cell in a demographic group has a count less than 11 then the next lowest cell, or 0 count cell, will also be suppressed. The algorithm searches for a 0 count cell first to suppress and then moves to the next lowest cell size for suppression. This is done so that the suppressed cell value cannot be backed into using the remaining data.

## Base Dataset as of Date

MHSOAC receives updated data from DHCS every six months. Our most recent update is as of 7/7/2020.