# **CHILD WELFARE COUNCIL**

# **OUT-OF-COUNTY MENTAL HEALTH SERVICES WORK GROUP**

DATA LINKAGE AND INFORMATION SHARING COMMITTEE

# DATA MINING PROJECT

IN AND OUT-OF-COUNTY FOSTER CARE PLACEMENTS AND RECEIPT OF MENTAL HEALTH SERVICES

STATE FISCAL YEAR 2008/09

October 2011

**FINAL REPORT** 

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# **DEFINITIONS AND ABBREVIATIONS**

# Term <u>Meaning</u>

ADHD	Attention Deficit Hyperactivity Disorder
AMD	Average Monthly Days
CDS	Client Discharge System
CMH	Community Mental Health
CMHDA	County Mental Health Directors Association
CSI	Client and Service Information
CSSR	Center for Social Services Research
CWC	Child Welfare Council
CWDA	County Welfare Directors Association
DMH	Department of Mental Health
DSS	Department of Social Services
FY	Fiscal Year
HWDC	Health and Welfare Data Center
IC	In-County
MAE	Mean Absolute Error
MH	Mental Health
MHODS	Mental Health Outpatient or Day Services
000	Out-of-County
PLC	Foster Care Placement Dataset
PTSD	Post Traumatic Stress Disorder
SACWIS	State Automated Child Welfare Information System
TBS	Therapeutic Behavioral Services
VCGCB	Victims Compensation Government Claims Board

WIC California Welfare and Institution Code

# **PROJECT INFORMATION**

# **PROJECT DATES**

Date Project Started	May 26, 2011
Date of Data Exchange from DSS to DMH	July 14, 2011
Date of Data Return/Destroy from DMH to DSS	July 25, 2011
Date of Transfer of all Project Files from DMH to DSS	August 3, 2001
Date of Draft Report for Discussion	August 2, 2011
Date of Draft Report for Discussion	October 3, 2011
Date of Final Report	October 25, 201

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# **EXECUTIVE SUMMARY**

At the request of the California Child Welfare Council (CWC), a workgroup was created to examine the extent to which foster children living outside their county of jurisdiction received medically needed mental health services. This workgroup – the Out-of-County Mental Health Services Workgroup – collaborated with members of the CWC's Data Linkage and Information Sharing Committee and created the Out-of-County Data Mining Project. This report features an analysis of linked child welfare and mental health data. The analysis examines characteristics of foster children who received mental health services and details differences among children placed in and outside of their county of jurisdiction. This undertaking was significant in that it is the first time that the two databases have been linked. Furthermore, such linking represents a milestone toward achieving the Data Committee's goal of sharing and linking data related to children in the Child Welfare System.

Data Mining Project members framed the following two questions for the study:

**Question 1:** What are the characteristics of the placements for children in which <u>any</u> community Mental Health or Outpatient Day Service (MHODS) was received during placement? Did the proportion with services differ by in- or out-of-county placement?

**Question 2:** For children who <u>did receive</u> community MHODS service in the year prior or the year during the analysis period, how did the level of service during placement differ based on placement/child characteristics? Did the level of service differ by in- or out-of-county placement?

The report examined placements, or portions of placements, that occurred in fiscal year 2008/09 (FY2008/2009).

# <u>Key Findings</u>

1. Many children placed in foster care in California do receive mental health services, although there was considerable variability across counties.

- Among the 105,483 unique foster children examined in this analysis, 56,339 children (53.4%) were linked to mental health services data in fiscal years 2007/08 and 2008/09.
- Among the 173,965 foster placements examined in the Question 1 analysis, 34.7% included at least one mental health service during the analysis period. (Note: Mental health case management and medication support were not counted as services.)
- Among the 100,826 placements included in the Question 2 analysis, 59.8% included at least one mental health service during the analysis period. The average days per month in which mental health services were provided was 2.8 days.

2. In-County foster youth received greater access to services and higher intensity of care on average than out-of-county foster youth.

- Overall, for the Question 1 population, out-of-county foster placements statewide were about 10% less likely to receive at least one mental health service than in-county placements (36.1% in-county vs. 32.4% out-of-county).
- There was considerable variation among counties both in terms of percentages of foster children receiving mental health services overall and in percentages of foster children receiving these services in- or out-of-county.
- For the Question 2 population, out-of-county placements were about 15% less likely on average to include any mental health service (63.1% in-county vs. 53.9% out-of-county).
- If access to services had been equally provided for in- and out-of-county placements, between 1,183 (Question 1 pop.) and 1,756 (Question 2 pop.) additional out-of-county placements would have received at least one mental health service during the analysis period.
- For the Question 2 population, in-county placements received approximately 26% more days
  of service per month on average than out-of-county placements (2.9 days in-county vs. 2.3
  days out-of county).

# 3. Placement in- or out-of-county was not the strongest predictor of whether or not children received mental health services, but systematic differences were observed.

- Differences included apparent greater need for services ("demand" for services), as well as lower access to services and lower intensity of care ("supply" of services).
- Discrepancies in access to mental health services were identified that need to be addressed for children placed out-of-county.
- In addition, significant issues were identified that further refine the problem statement in terms
  of sub-populations of youth who require focused attention, including probation youth and youth

in congregate care, and the wide differences among counties in providing mental health services to foster youth.

4. This study highlights characteristics of youth placed out-of-county that warrant careful consideration from a policy and system design perspective, including the need to engage juvenile probation in the development and implementation of improvements to the current system.

- Regarding demand for services, out-of-county placements (as compared to in-county placements):
  - Were for older youth
  - Were more likely for youth who were in care longer
  - Were more likely to be a repeat in-care episodes
  - Were more likely to be the second or greater placement
  - Were far less likely to be foster family homes or guardian homes
  - Were more likely to be group homes
  - Had much greater likelihood to be probation supervised than child welfare
  - Were more likely to have youth diagnosed with a serious mental health disorder in nine of eleven reported categories
- Regarding supply of services, out-of-county placements both received less care and less intensive treatment, on average, than in-county placements. More specifically, out-of-county placements:
  - Were less likely to be placements that served children at any age, and received lower intensity services at all ages except 1 to 2 years; the disparity in access to services increased with age, from age 11 on.
  - Were 34% percent more likely to be a group home, but 21% percent less likely to receive any care there; and for those placements receiving care, there were 38% percent fewer days of service per month.
  - Were over 2.5 times as likely to be probation placements but half as likely to receive any mental health service; when served, such placements received 54% of the days of service incounty placements received.
  - Received 10% to 30% fewer days of service in every category of mental health disorder reported.

# 5. The data indicate that factors such as type of placement, age, and county of origin have a strong impact on access to and delivery of mental health services for in- and out-of-county foster placements.

- The age of children in placement had the strongest correlation to receipt to mental health services in the model. For placements with children 11-15 years of age, county of origin was the best predictor of mental health service receipt. The variation across counties was larger than any other factor considered.
- Controlling for other factors, placement type was the strongest predictor of the level of mental health services children would receive. Average monthly days of service ranged from 1.1 days for children in pre-adoptive homes to 5.5 days for children placed in congregate care. Children placed in kinship foster care received a monthly average of 1.6 days of service.

There are a number of limitations to this report:

- → While the foster care data extracted for the study period are generally assumed to be reasonably accurate, the mental health data used relies on monthly reporting from counties, and a review of the data suggests that there may be reporting issues in some counties.
- → Children who appear to receive no services or minimal mental health services in the database used for this report may be receiving services other than those reported here.

Appendices A and B contain Question 1 and 2 results by factors included in the model. Appendices C and D contain Question 1 and 2 results by county.

# **ISSUE STATEMENT**

Previous studies have indicated that foster care children placed out-of-county (OOC) may receive disparate mental health services when compared to those placed in-county (IC). This report serves both to identify the profiles of foster children placed out-of-county by comparing the level of mental health services they receive with the level received by foster children placed in-county and also to quantify any disparity.

# BACKGROUND

Over time, the California Child Welfare Council (CWC) has been concerned about the extent to which foster children<sup>1</sup> living outside their county of jurisdiction receive medically needed mental health services. At its December 9, 2010 meeting, the CWC unanimously endorsed elements two through five of an Action Plan developed by the County Mental Health Directors Association (CMHDA) and the County Welfare Directors Association (CWDA) as a viable framework. The Council also stipulated that operational details and funding implications be addressed separately in a Work Plan to be developed by a designated workgroup. Specific details that should be fleshed out in the Work Plan include: (1) a fiscal analysis; (2) recommendations around screening and assessment; and (3) criteria for when a child placed out-of-county would receive needed mental health services from the county of residence (host county) and criteria for receiving needed mental health services from the county of jurisdiction (county of origin).

The CWC formed an Out-of-County Mental Health Services Workgroup to develop the three elements of the Work Plan with the goal of establishing clear and consistent practices for counties to follow that will result in foster children receiving mental health services quickly and easily.

The task of developing criteria to determine which county would provide needed mental health services was sequenced ahead of the other two tasks since this decision will drive the fiscal analysis and screening and assessment recommendations. The Workgroup proposed that decisions as to who will provide foster children with needed mental health service should be made by a collaborative team on a child-by-child basis, with team members consisting of the social worker or probation officer, mental health social worker, caregivers, birthparents and others who would be involved in supporting implementation of the mental health services plan.

To aid the Workgroup in its analysis of the problem, members of the CWC's Data Linkage and Information Sharing Committee with access to child welfare data collaborated with a DMH analyst with access to mental health data to provide an analysis. The Out-of-County Data Mining Project provides a substantial level of detail regarding who has access to what services and the extent to which being placed out-of-county may disadvantage foster children who need mental health services.

<sup>&</sup>lt;sup>1</sup> "Foster children" is defined as children who are placed by Juvenile Court orders in out-of-home care as Dependents of the Court under Welfare and Institutions Code Section 300 or as Wards of the Court under Welfare and Institutions Code Section 601 or 602.

# **O**BJECTIVES

The goals of the Data Mining Project include merging data sources from the Department of Social Services (DSS) and the Department of Mental Health (DMH) in order to investigate the profiles of foster care placements of children who are receiving mental health outpatient or day services (MHODS) while placed in- or out-of-county. This study proposes to answer the following questions:

**Question 1:** What are the characteristics of the placements in which <u>any</u> community MHODS was received during placement? Did the proportion with services differ by in- or out-of-county placement?

**Question 2:** For children who <u>did receive</u> community MHODS service in the year prior or the year during the analysis period, how did the level of service during the placement differ based on placement characteristics? Did the level of service differ by in- or out-of-county placement?

# METHODOLOGY

Through a collaborative effort including DMH, DSS, and CSSR, this project utilized a data mining technique to analyze data collected by two separate data systems for children in foster care during the state fiscal year of 2008/09 (FY2008/09). Because this project included the entire population of foster child placements for FY2008/09 and not a sample, recursive partitioning was chosen as a powerful method to visualize real patterns in the data. Recursive partitioning is a data mining technique in which the population is repeatedly split into smaller subpopulations based on relevant foster care placement characteristics. Key portions of the resulting classification tree are displayed as dendrograms in this report. The real strength of this technique is that the results are not estimates, but are true averages of subpopulations of real children in similar circumstances in their foster care placements.

An understanding about the level of community mental health (CMH) service provided during placements of children in foster care required the project to link a data file from DSS containing the foster care placement characteristics (DSS-PLC) to a dataset from DMH containing CMH Client Services Information (DMH-CSI). The project identified the most recent year of complete DMH and DSS data – FY2008/09 – as the focus of the investigation. A FY2008/09 DSS-PLC file was transferred to DMH for linkage to the DMH-CSI files of FY2007/08 and FY2008/09 data. The purpose of linking both the analysis year (FY2008/09) and the prior year (FY2007/08) of DMH-CSI data was to identify the population of children who were currently receiving or had recently received services via CMH for a diagnosis which would be noted in DMH-CSI. A basic description of the project dataset attributes are noted in Table 2.

# Overview of DMH-CSI Data System

WIC §5610 required counties to report data to the DMH for non-duplicative client-based information including all information necessary to meet federal Medicaid reporting requirements, as well as any other state requirements established by law.

The current client-based information system, CSI, began July 1, 1998, and replaced the Client Discharge System (CDS). The DMH CSI System collects data pertaining to mental health clients and the services those clients receive at the county level. A basic principle of the CSI system is that it reflects both Medi-Cal and non-Medi-Cal clients as well as services provided in the County/City/Mental Health Plan program. In county-staffed providers, all clients and services must be reported. In contract providers, those clients and services provided under the contract with the county mental health program must be reported. This data is processed and stored on a database at the Health and Welfare Data Center (HWDC). Counties send a CSI submission file to DMH monthly and are required to submit data no later than 60 days after the end of the month in which the services were provided.

# Overview of DSS Foster Care Placement Data System

Through an interagency agreement with DSS, the Center for Social Services Research receives quarterly extracts from CWS/CMS, California's State Automated Child Welfare Information System (SACWIS). CSSR staff created an analysis file that contained one record for each placement where at least one day was in state FY 2008/09 for the purpose of this report.

Only the data required for this analysis were included, and several variables (e.g., placement type) were grouped in ways consistent with those currently used by CSSR and DSS. The analysis file contained only non-informative, encrypted identifiers. This file was shared with DSS, where confidential identifiers needed for linkage were added. The file was then shared with DMH for linkage and analysis.

# Data Linkage

Before a linkage between DSS-PLC and DMH-CSI systems was performed, link analysis was performed within the DMH-CSI database to create a universal identifier. The universal identifier created a link between records of the same DMH-CSI client who may have received different client identifiers between counties. In other words, each year, about 7% (45,000) extra client identifiers are generated when a client crosses county lines for service. The client is given a new client number in each county, which have historically been tracked as additional clients.

The universal identifier for DMH-CSI allowed clients to be tracked across and between counties, which had not been possible before. This DMH-CSI link analysis also permitted a link between DMH-CSI and DSS-PLC to be performed in a one-to-one client fashion, which was more efficient than a many-to-one linkage undertaking.

For linkage between the DMH-CSI dataset and the DSS-PLC dataset, a hierarchical deterministic linkage algorithm was constructed. The algorithm utilized four sets of field combinations in which few duplicate records existed within a data source. Each unique combination of fields was assigned a matching level (one to four). Matching on combinations of fields that were least likely to result in duplicates (e.g., such as social security number and birth date) were used for matching at a higher level before matching on combinations of fields in which several clients might contain the same values for all fields (e.g., first name and last name and birth date).

Before matching at each level was performed, any records within a file that contained the same values as another record within that same file for all fields to be matched were removed and not used for that

level of matching. Any records excluded at one level due to nonspecific values were later eligible for all other levels of matching.

Matching for all of the fields selected for the match level was performed between data sources. The match was checked for any ambiguous matches, and there were no instances in which one record from one data source matched to multiple records from the other data source. After the match was completed at each level, all matched records from each file (DSS-PLC and DMH-CSI files) were removed from any further levels of matching.

The next level of matching was performed with all records from the original file except the already successfully matched records. Any records that had been removed from the previous matching level due to duplication of values in all matching fields were used for subsequent matching levels. Each match was identified with an ID that signified the level at which the match was made. The match level field combinations and the resulting records matched at each level are detailed in Table 3.

A final dataset for analysis was created with all DSS-PLC placement records, matched or unmatched; where matched, the records also contained relevant DMH-CSI information about the mental health services received during the placement.

# Inclusion Criteria

This project included all foster care placements whose span overlapped with FY2008/09. DSS and DMH both agreed on the unit of evaluation at the placement level such that each placement could be categorized as IC or OOC and such that the maximum amount of information and data (every placement existing in the year of interest) could be included in the evaluation. All placements that existed in FY2008/09 were included in the study, accounting for those that: 1) started and ended in FY2008/09; 2) started before but ended in FY2008/09; 3) started in but ended after FY2008/09; and 4) started before and ended after FY2008/09. This means that one child may have had several placements included in the analysis both as potential IC or OOC placements.

To identify the CMH service received by a foster child during a placement, MHODS was defined as any form of outpatient (collateral, professional inpatient visit-collateral, mental health outpatient services, professional inpatient visit, therapeutic behavioral services (TBS), crisis intervention, professional inpatient visit – crisis intervention) or day service (crisis stabilization – emergency room, crisis stabilization – urgent care, vocational services, socialization, day treatment intensive – half/full day, day treatment rehabilitation – half/full day), excluding case management and medication support services as delivered through the CMH system.

# Analysis Methods for Question 1

In order to address the question, "What are the characteristics of the placements in which any community MHODS was received during placement, and did the proportion with services differ by IC or OOC placement?", a recursive partitioning technique using logistic regression was used to identify the characteristics that most significantly influenced the proportion of children who received at least one MHODS during a placement within the analysis period.

All placements that existed during FY2008/09 were included in the analysis (n=173,965), and the response variable was identified as occurrence of at least one day of MHODS service during the placement in the analysis period of FY2008/09.

# Response Variable:

# MHODS Service During Placement\* Yes or No

\*Note: MHODS does not include case management or medication support services.

A classification tree was developed to identify the most predictive factors influencing the proportion of placements with MHODS. To build the classification tree, the model considered the seventeen demographic factors and foster care placement characteristics detailed in Table 1. This model did not include mental health service factors.

SAS 9.2 PROC GENMOD logit model, with binomial distribution and the client identification number as the repeated measure, was used to test each of the seventeen predictors individually against the response variable. The best predictor of MHODS was identified by the model with the minimum mean absolute error (MAE). The classification tree was then split by the best predictor. At each node of the classification tree, proportion of placements which received MHODS were stratified by IC or OOC placement, and all nodes with a statistically significant difference between IC and OOC placements were highlighted green on the tree. This method allowed the profiles of individuals in placements receiving disparate services IC or OOC to be quickly identified and tracked through the classification tree. The final subpopulations of individuals in placements were determined by the factors that best predicted which placements received MHODS. The test of significance of difference in proportions served for IC or OOC placements was performed as a post-test to the analysis. The post-test was not performed when there were less than 100 placements OOC for a subpopulation due to small cell size. In these cases, the classification tree nodes indicate a gray "n/a" P-Value result.

In this model, time in service was important in the classification tree. In cases where the best predictor of the model was a variable based on time, the results were displayed. In those cases, the next most predictive factor was considered while ignoring the best predictor in order to identify other patterns in the data, and to provide further insight toward answering the project question. These second best predictors were identified from models with the second least MAE.

# Analysis Methods for Question 2

In order to address the question, "For children who did receive community MHODS service in the year prior or the year during the analysis period, how did the level of service during the placement differ based on placement characteristics, and did the level of service differ by IC or OOC placement?", a recursive partitioning technique using ordinal regression was used to identify the characteristics that most significantly influenced the average monthly days (AMD) of MHODS during a placement within the analysis period.

The analysis included all children in the CMH system the year of or the year before the analysis period. As identified via the DSS-PLC to DMH-CSI data linkage, there were 56,339 children who received a CMH service in the year prior or the year during the analysis period. These children were considered the population of foster care children in the community health system during the period surrounding the placement analysis period. There were then 100,826 foster care placements in FY2008/09 that were

associated with this population of foster care children in the CMH system. This analysis excluded any children that never received services via community mental health during those years, although they may have received other services in the CMH system or elsewhere. Since this analysis looks only at the population of foster children matriculating through CMH, additional patient characteristics, such as diagnosis, substance abuse and medication were included in the analysis. This analysis considered all 33 factors described in Table 1.

The response variable was identified as the AMD of MHODS. This value was calculated as follows: the number of days in which a client received MHODS within FY2008/09 for a placement divided by the days a client was in placement within the FY2008/09, multiplied by a factor of 30 (= average per month).

# **Response Variable:**

# Average Monthly Days of MHODS\*: <u>Days of Service<sup>ab</sup></u> x 30 Days of Placement<sup>b</sup>

<sup>a</sup> Restricted to days of service that occurred during the time of the placement

<sup>b</sup> Restricted to days between July 1, 2008, and June 30, 2009, (FY2008/09)

\* Note: MHODS does not include case management or medication support services.

A "Day of Service" was counted for each day during placement in which a client received any MHODS. If multiple services were rendered on one day, then the day was still only counted once. "Days of Placement" included only those days in the placement that existed between July 1, 2008, and June 30, 2009, which might have been only a portion of time of the total placement if the placement started or ended outside FY2008/09.

As an example for AMD of MHODS, consider the following:

- Child A is removed from home and placed with a foster family for 30 days. The child enters CMH, is diagnosed with post-traumatic stress disorder, and receives four services during the placement. This placement would have 4.0 AMD.
- Child A is then moved to a placement OOC for kinship care, and the placement home has trouble finding an avenue to get services for the child. The child does not receive services. The child acts out and is moved after 30 days. This placement would have 0.0 AMD.
- Child A is then moved to a placement OOC for congregate care (group home) for 90 days, where the child receives 15 services. This placement would have 5.0 AMD.

A classification tree was developed to identify the most predictive factors influencing the AMD of MHODS. To build the classification tree, the model considered all 33 factors detailed in Table 1. (Note: County of Placement and County of Origin were included as individual counties when the sample size allowed, otherwise they were included as grouped quintiles).

Although the response variable resembled exponential distribution, it did not fit exponential distribution, and therefore the average days of MHODS was categorized for ordinal analysis. The categories included: 1) No MHODS; 2) 0 to <1 days of MHODS; 3) 1 to <4 days of MHODS; and 4) >4 days of MHODS. SAS 9.2 PROC GENMOD cumlogit model, with multinomial distribution and the client identification number as the repeated measure, was used to test each of the 33 predictors individually against the response variable. Since multinomial models do not produce residuals to calculate MAE, the best predictor of MHODS was identified by the model with the most significant type 3 statistical test and the greatest spread of predicted model probabilities between groups of the prediction variable.

The classification tree was then split by the best predictor. At each node of the classification tree, average days of MHODS were stratified by IC or OOC placement. The final subpopulations of individuals in placements were determined by the factors that best predicted average days of MHODS. The stratification of AMD of MHODS by IC or OOC placements was performed as a post-analysis.

In cases where the best predictor of the model was a county of origin or county of placement, the tree could not be split any further. In that case, the results were displayed. In those cases, the next most predictive factors were considered while ignoring the best predictor in order to identify other patterns in the data and to provide further insight toward answering the project question.

Name	Criteria (if applicable)	Possible Values
Demographic Factors (From DSS	S-PLC)	
Age	As of first day of placement during analysis period	0 - 24
Race	Standard DSS Categories	DSS categories
Gender		Male/Female
Mental Health Service Factors (F	rom DMH-CSI)	
Psychotic Disorders		Yes/No
Bipolar Disorder		Yes/No
Anxiety Disorder		Yes/No
Depressive Disorder		Yes/No
Substance-Related Disorder		Yes/No
Adjustment Disorder		Yes/No
ADHD		Yes/No
Disruptive Behavior Disorder	Client was treated with this noted at any service during analysis	Yes/No
Post-Traumatic Stress Disorder	year (FY2008/09) or in the one year prior (FY2007/08)	Yes/No
Other Disorders Usually		Yes/No
Diagnosed in Childhood		
Other Disorders		Yes/No
Trauma Event		Yes/No
Substance Abuse		Yes/No
Medication Support for Mental		Yes/No
Health		
Any Previous MHODS	Counted only as 'yes' if client received MHODS in the 365 days	Yes/No
Treatment	prior to the first point in time in this analysis of placement (July 1,	
Faster Care Discoment Characte	ristice (From DSS DLC)	
Foster Care Flacement Characte		Number
Discoment Counter		Number
Placement Counter		Number
First Time in Foster Care	Yes if Episode Counter=1 and Placement Counter=1	Yes/No
Removal Reason		Neglect, Physical abuse, etc.
Placement Type		Group Home, Relatives, etc.
Total Placement Length up to	Total length from first date of placement to the last point in time of	0 – 14 Days; 15 - 30 Days; 31 – 180 Days;
June 30, 2009	the placement for this analysis (placement exit date or June 30,	181+ Days
	2009, whichever is earlier)	
Short Stay Flag	A flag for when placement length used in the analysis was less	Yes/No
	than 2 weeks	
Lime in Foster Care Before	I otal length from first date of foster care episode to the first point	0 – 30 Days; 31 – 180 Days; 181 – 730
Analysis Period	in time of placement in this analysis (July 1, 2008 or placement	Days;
	date, whichever is later)	730+ Days
County of Origin - Individual		Fresno, Orange, etc. + State and Unknown

# Table 1: Factors Considered in Analysis

Name	Criteria (if applicable)	Possible Values
County of Origin - Groups	County of Origin was grouped into quintiles based on lowest to highest of overall % served with MHODS. Identified in App. A	Q1; Q2; Q3; Q4; Q5 (used only when pop. size too small to support individual)
County of Placement - Individual		Fresno, Orange, etc. + State and Unknown
County of Placement - Groups	County of Placement was grouped into quintiles based on lowest to highest of overall AMD of MHODS. Identified in App. D	QA; QB; QC; QD; QE (used only when pop. size too small to support individual)
In- or Out-of-County Placement	Was placement outside of county of responsibility?	IC; OOC; Unknown
Placement County Indicator	This provides more granularity on location of in- or out-of-county placement if the out-of-county placement was in an adjacent county	IC; OOC, Adjacent; OOC, Non Adjacent; Unknown
Placement End Reason	Either the Exit reason if episode end date was populated or the placement exit reason otherwise	Still in placement, reunification, etc.
Agency		Child Welfare, Probation, Other
Placement Span	This is an indicator identifying placements that either start before or end after year of analysis. This variable is a model validation variable.	Started and ended in FY2008/09; Started before and ended in FY2008/09; Started in and ended after FY2008/09; Started before and ended after FY2008/09

# RESULTS

# Linkage Results

The DSS-PLC contained 174,086 placement records that existed in FY2008/09 for 105,483 unique foster children, as noted in Table 2. The linkage found that 56,339 (53.4%) of the children had at least one MH service in the DMH-CSI database in the years of FY2007/08 or FY2008/09. After excluding 121 (0.1%) records due to data issues, there were 173,965 placement records for analysis with Question 1, and there were 100,826 placement records for which DMH-CSI information were available for analysis with Question 2.

# Table 2: Project Dataset Attributes

Attribute	Count	%
Unique Clients in DSS-PLC File	105,483	100.0%
Unique Clients Matched between DSS-PLC and DMH-CSI	56,339	53.4%
Placement Records in DSS-PLC File	174,086	100.0%
Placement Records Excluded from Project Due to Data Issues	121	0.1%
Placement Records Included in Project	173,965	99.9%
Placement Records with Both DSS-PLC and DMH-CSI Information	100,826	58.0%

# Table 3: DSS-PLC to DMH-CSI Linkage Results

		Before Matching Matched		
Level	Match Variables	DSS Clients Unmatched	Matched by Level	Total % Matched
1	<ul> <li>Social Security Number</li> <li>Date of Birth</li> </ul>	105,483	49,983	47.4%
2	<ul> <li>Social Security Number</li> <li>First Name (First 9 Letters)</li> </ul>	55,500	919	0.9%
3	<ul> <li>Date of Birth</li> <li>First Name (Removed punctuation and spaces)</li> <li>Last Name (Removed punctuation and spaces)</li> </ul>	54,581	5,078	4.8%
4	<ul> <li>Date of Birth</li> <li>If standardized First Name (Removed punctuation, spaces, double consonants and vowels) was found within standardized First Name</li> <li>If standardized Last Name (Removed punctuation, spaces, double consonants and vowels) was found within standardized Last Name</li> </ul>	49,503	359	0.3%
Final		49,144	56,339	53.4%

# **RESULTS FOR QUESTION 1**

What are the characteristics of the placements in which <u>any</u> community MHODS was received during placement? Did the proportion of placements with services differ by in- or out-of-county placement?

# Question 1 Descriptive Statistics Results

Table 4 displays the general descriptive statistics of the dataset used for Question 1 analysis. Of the 173,965 placements included in the analysis, 34.7% had MHODS and 65.3% had no MHODS during the analysis period. A total of 36.1% of IC placements had MHODS, as compared to 32.4% of OOC placements. The time in placement during the analysis period included most placements which were longer than 1 month (73.7%) with 15.3% that were 1-14 days and 11.0% that were 15-30 days. An additional flag (short placement time) was included in the analysis to assure that those 15.3% of short placement periods were not disproportionally predictive of MHODS.

The proportion of IC placements (as compared to OOC placements) was larger for children with younger ages (9.1% IC vs. 4.8% OOC for <1 year; 13.5% IC vs. 10.4% OOC for 1-2 years) and smaller for children with older ages (26.6% IC vs. 31.5% OOC for 11-15 years; 14.8% IC vs. 19.5% OOC for 16-17 years). The greatest difference in IC or OOC placement by race was for placements of Hispanic children (47.1% IC vs. 42.3% OOC), followed by placements of Black children (24.9% IC vs. 27.2% OOC).

For most children in placements in this analysis, this was the first episode of foster care (72.6%), as it was for both IC and OOC placements (73.6% and 68.5%, respectively). However, only 36.4% of placements were for the first placement of the episode overall, with IC and OOC placements differing in proportion of first placements for the episode (39.0% and 24.1%, respectively). 27.1% of placements represented the child's first episode and first placement, considered the first time in foster care. Again, the proportion was higher for IC vs. OOC placements (29.5% vs. 16.1%).

The reason a child was removed and placed into foster care did not differ greatly between IC and OOC placements, with most children being removed due to neglect (75.3% overall, 78.0% IC, 76.0% OOC). Placement type varied between IC and OOC placements, with the largest differences occurring between licensed foster family home (14.0% IC vs. 2.7% OOC), followed by congregate care (14.8% IC vs. 19.9% OOC), and foster home certified by foster family agency (32.8% IC vs. 37.2% OOC).

The total placement length included the time in placement before and during the analysis year. The proportion of IC placements (as compared to OOC placements) was larger for children with short stays of 1-14 days (14.3% IC vs. 9.5% OOC) and smaller for children with long stays of more than 6 months (43.0% IC vs. 49.0% OOC). The same trend was seen when looking at length of time in foster care episode before the analysis year. There were fewer IC placements with a long episode length of more than 2 years (27.6% IC vs. 42.2% OOC) as compared to OOC placements.

Placement ended for reasons of reunification for a larger proportion of IC vs. OOC placements (20.2% vs. 14.5%, respectively), and the placements ended for reasons of behavioral factors for a smaller proportion of IC placements than OOC placements (19.3% vs. 23.9%, respectively).

Probation supervision, as compared to child welfare supervision, was less likely in IC placements than OOC placements (2.8% vs. 7.4%, respectively).

Table 4:	Question 1 - Characteristics of Foster Care Placements In- or Out-Of-County for
	All Placements That Existed in Fiscal Year 2008/09

All         In-County         Out-of- County         Un-Sourty         Un-Sourty <t< th=""><th></th><th colspan="4">COUNTY OF PLACEMENT</th><th></th></t<>		COUNTY OF PLACEMENT							
All         Dir.Curty         Courty         Unk.overn           All Placements That Existed in Fiscal Year 2008/09         173,965         100.0         132,888         100.0         1,000         9,00         100.0           NO         113,669         65.3         84,853         63.9         21,617         72,47         72,40         72,41         73,42         74,41         74,41         73,42         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45         74,41         74,45 <t< th=""><th></th><th colspan="2"></th><th></th><th></th><th colspan="2">Out-of-</th><th></th><th></th></t<>						Out-of-			
N         %         N		All		In-County		County		Unkr	nown
AII Placements That Existed in Fiscal Year 2008/09       173,965       100.0       312,888       100.0       31,968       100.0       9,108       100.0         HAD COMMUNITY MHODS       113,669       65.3       84,853       63.9       21,612       67.6       7,204       79.1         Yes       60,296       34.7       48,035       61.1       10.537       32.4       19.04       20         TOTAL PLACEMENT TIME DURING ANALYSIS PERIOD       26,661       15.3       21,756       16.4       3,752       11.7       1,053       11.6         15-30 Days       19,103       11.0       15.068       11.3       3,262       10.2       87.3       9.6         16-Months       71.1561       41.1       53.849       40.5       13.573       42.5       41.29       45.3         SHORT PLACEMENT TIME (<=14 Days)       10.1       10.0       82.6       22.175       11.4       11.132       83.6       28.5       88.4         Yes       20,661       15.3       21,756       16.4       3,752       11.7       10.33       11.6         Les than 1 Year       13.756       12.1       11.132       83.6       28.65       88.4       752       15.7       75.01		N	%	Ν	%	Ν	%	Ν	%
HAD COMMUNITY MHODS         113.669         65.3         84.853         63.9         21.612         67.204         72.1           Yes         60.296         3.7.7         48.033         36.1         10.357         32.4         1,904         20.9           TOTAL PLACEMENT TIME DURING ANALYSIS PERIOD         26.561         15.3         21.726         16.4         3,752         11.7         1.035         33.4         1,904         20.9           TOTAL PLACEMENT TIME COUNTING ANALYSIS PERIOD         1.0         15.06         11.3         3,252         10.2         87.3         45.5         41.29         45.3         50.5         11.6         1.0.5         11.6         1.0.5         1.5.3         42.5         4.129         45.3         3.0.5         80.5	All Placements That Existed in Fiscal Year 2008/09	173,965	100.0	132,888	100.0	31,969	100.0	9,108	100.0
No         113,669         65.3         84,835         63.9         21,612         67.6         7,204         79.1           Yes         60,296         34.7         48,035         36.1         10,357         32.4         1,904         20.9           1-14 Days         26,661         15.3         21,756         16.4         3,752         11.7         1,053         28.73         9.6           1-6 Months         71,551         41.1         53,494         40.5         13,573         42.5         4,129         45.3           > 6 Months         56,660         32.6         42.15         31.8         13,322         10.6         83.055         88.4           Yes         28,661         15.3         21,756         16.4         3,752         11.7         10.55         11.4           AGE         20,801         15.3         11.7         10.53         11.6         11.1         1.53         11.7         10.53         11.6         11.7         1.053         11.6         1.0         11.0         1.0         1.0         11.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.1         1.0         1.0         1.0	HAD COMMUNITY MHODS								
Yes         60.296         34.7         48.035         36.1         10.357         32.4         1,904         20.9           TOTAL PLACEMENT TIME DURING ANALYSIS PERIOD         1.14         0.357         32.4         1,904         20.9           1-14 Days         26,561         15.3         21,756         16.4         3,752         11.7         1,053         11.6           1-50 Days         19,193         11.0         15.068         11.3         3,252         10.2         873         9.6           1-6 Months         71,151         11.1         13,849         40.5         15,73         25,63         30.53         33.5           SHORT PLACEMENT TIME (<=14 Days)         147,404         8.7         11.1,132         83.6         28.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.6         8.0         58.7         18.7         10.5         13.5         2.9.2	Νο	113,669	65.3	84,853	63.9	21,612	67.6	7,204	79.1
TOTAL PLACEMENT TIME DURING ANALYSIS PERIOD         2         6         15.3         21.75         16.4         3.752         11.7         1.053         11.6           15-30 Days         19.193         11.0         15.068         11.3         3.252         10.2         873         9.6           1-6 Months         71.551         11.1         53.849         40.5         13.573         42.5         4.129         45.3           5 Months         56.660         32.6         42.215         11.8         13.922         35.6         3.053           SHORT PLACEMENT TIME (<=14 Days)         11.7404         84.7         111.132         83.6         26.217         83.8         8.055         88.4           Yes         26.561         15.3         21.765         16.4         3.752         11.7         1.053         11.6           Less than 1 Year         13.746         7.9         12.114         9.1         1.94         8.1         11.2         1.0         1.0         1.59         48.13         1.0         1.0         1.0         1.57         3.021         10.4         521         5.7           Less than 1 Year         23.034         13.7         19.225         14.5         40.21	Yes	60,296	34.7	48,035	36.1	10,357	32.4	1,904	20.9
1-14 Days       26,661       15.3       21,766       16.4       3,752       11.7       1,053       11.6         15-30 Days       19,193       11.0       15,068       11.3       3,252       10.2       873       9.6         1-6 Months       71,551       14.1       15,3849       40.5       13,573       42.5       41.29       45.3         > 6 Months       56,660       32.6       42.215       31.8       11.392       35.6       30.03       33.5         SHORT PLACEMENT TIME (<=14 Days)       147,404       84.7       111,132       83.6       28.58       88.4       80.65       88.4         Yes       26,561       15.3       21,756       16.4       3,752       11.7       1.053       11.6         AGE       28.561       15.3       21,756       16.4       3,752       11.7       1.053       11.6         AGE       28.561       15.3       21,756       16.4       3,752       11.7       1.053       11.6         Less than 1 Year       13,716       7.9       12,114       9.1       1,151       2.4       2.15       67.6       10.7       13,650       13,57       2.16,70       16.7       14.5       40.02	TOTAL PLACEMENT TIME DURING ANALYSIS PERIOD								
15-30 Days       19,193       11.0       15.068       11.3       3.252       10.2       873       9.6         1-6 Months       71,551       41.1       53,849       40.5       13,573       42.5       4,129       45.3       33.5         SHORT PLACEMENT TIME (<=14 Days)       147,404       84.7       111,132       83.6       28,217       88.3       8.055       88.4         Yes       25,561       15.3       21,756       16.4       3,752       11.7       10.053       11.7       10.051       11.7       10.53       31.1       11.1       10.55       84.4       11.1       11.1       11.1       11.1       11.1       11.1       11.5       11.7       10.53       11.7       10.53       31.5       11.6       15.5       21.756       16.4       3,752       14.8       11.1       1.2       11.7       10.53       11.5       10.62       11.7       10.55       32.1       11.6       15.7       22.57       13.7       13.5       3.221       14.8       11.1       1.2       11.5       11.5       12.5       17.9       14.8       11.1       1.2       2.56       12.5       1.5       11.5       11.5       11.5       11.5       10.	1-14 Days	26,561	15.3	21,756	16.4	3,752	11.7	1,053	11.6
1-6 Months       71,551       41.1       53,849       40.5       13,773       42.5       41.29       45.3         > 6 Months       56,600       32.6       42.215       31.8       11.392       35.6       30.303       33.5         SHORT PLACEMENT TIME (<=14 Days)       147,404       84.7       111,132       83.6       28.217       88.3       8.055       88.4         Yes       20,561       15.3       21,756       16.4       3,752       11.7       1.033       11.6         AGE       13,746       7.9       12,114       9.1       1,519       4.8       113       1.2         Less than 1 Year       21,765       12.5       17,923       13.5       3,321       10.4       521       5.7         1 to 2 Years       32,573       18.7       25,720       19.4       5,880       18.4       973       10.7         1 to 15 Years       48,313       27.8       35,286       16.6       10.065       31.5       2,962       2.5         RACE       41,24       2.4       2.955       2.2       940       2.9       2.9       2.9       2.0       18.2       2.0         Black       94.72       2.4.94	15-30 Days	19,193	11.0	15,068	11.3	3,252	10.2	873	9.6
> 6 Months       56,660       32.6       42.215       31.8       11,392       35.6       3.053       33.5         SHORT PLACEMENT TIME (<=14 Days)       147,404       64.7       111,132       83.6       28.217       88.3       8.055       88.4         Yes       26,561       15.3       21.756       16.4       3.752       11.7       1.053       11.6         AGE       26,561       15.3       21.756       16.4       3.752       11.7       1.053       11.6         AGE       23,834       13.7       19.251       14.5       40.02       12.5       607       6.7         6 to 1 Years       23,834       13.7       19.255       14.5       4.002       12.5       607       6.7       6.7       6.1       5.0       11.4       5.0       6.0       10.4       5.0       14.7       4.002       12.5       607       6.7       6.7       6.1       14.005       11.5       2.962       32.5       7       10.5       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0       7.0	1-6 Months	71,551	41.1	53,849	40.5	13,573	42.5	4,129	45.3
SHORT PLACEMENT TIME (<=14 Days)	> 6 Months	56,660	32.6	42,215	31.8	11,392	35.6	3,053	33.5
No         147,404         84.7         111,132         83.6         28.217         88.3         80.55         88.4           Yes         26,561         15.3         21,756         16.4         3,752         11.7         1,053         11.6           Less than 1 Year         13,746         7.9         12,114         9.1         1,519         4.8         113         1.2           1 to 2 Years         21,765         12.5         17.923         13.5         3,321         10.4         521         5.7           3 to 5 Years         23,834         13.7         19,225         14.5         4,002         12.5         60.7         6.7           6 to 10 Years         32,573         18.7         25,720         19.4         5,880         18.4         973         10.7           11 to 15 Years         48,313         27.8         35,286         26.6         10.065         31.5         2,922         22.5           RACE	SHORT PLACEMENT TIME (<=14 Days)								
Yes       26,561       15.3       21,756       16.4       3,752       11.7       1,053       11.6         AGE       13,746       7.9       12,114       9.1       1,519       4.8       11.3       1.2         1 to 2 Years       21,765       12.5       17,923       13.5       3,321       10.4       521       5.7         3 to 5 Years       23,834       13.7       19,225       14.5       4,002       12.5       607       6.7         6 to 10 Years       32,573       18.7       25,720       19.4       5.806       18.4       97.3       10.7         11 to 15 Years       29,610       17.0       19.665       14.8       6.242       19.5       3.703       40.7         18 + Years       29,610       17.0       19.665       14.8       6.242       19.5       3.703       40.7         18 + Years       41,124       2.4       2.955       2.2       9.40       2.9	Νο	147,404	84.7	111,132	83.6	28,217	88.3	8,055	88.4
AGE       13,746       7.9       12,114       9.1       1,519       4.8       11.3       1.2         Less than 1 Year       13,746       17,923       13.5       10.4       521       5.77         3 to 5 Years       23,834       13.7       19,225       14.5       4.002       12.5       607       6.7         6 to 10 Years       23,834       13.7       19,225       14.5       4.002       12.5       607       6.7         6 to 10 Years       23,573       18.7       25,720       19.4       5.800       18.4       9.73       10.7         11 to 15 Years       49,010       17.0       19,665       14.8       6.242       19.5       3.703       40.7         18 + Years       4,124       2.4       2.955       2.2       940       2.9       229       2.5         RACE        41,224       2.445       5.4.3       3.312       24.9       8.689       27.2       2.445       2.6.8         Black       44,259       25.4       3.125       24.9       8.689       27.2       2.445       2.6.9         Missing       30.5       0.2       101       0.1       2.2       0.1       182 </th <th>Yes</th> <th>26,561</th> <th>15.3</th> <th>21,756</th> <th>16.4</th> <th>3,752</th> <th>11.7</th> <th>1,053</th> <th>11.6</th>	Yes	26,561	15.3	21,756	16.4	3,752	11.7	1,053	11.6
Less than 1 Year       13,746       7.9       12,114       9.1       1,519       4.8       113       1.2         1 to 2 Years       21,765       12.5       77,923       13.5       3,321       10.4       521       5.7         3 to 5 Years       23,834       13.7       19,225       14.5       4,002       12.5       607       6.7         6 to 10 Years       32,573       18.7       25,720       19.4       5,880       18.4       973       10.7         11 to 15 Years       48,313       27.8       35,286       26.6       10.065       31.5       2,962       32.5         16 to 17 Years       29,610       17.0       19,665       14.8       6,242       19.5       3,703       40.7         13 to 5 Years       4,124       2.4       2,955       2.2       940       2.9       2.9       2.5         RACE       13.6       305       0.2       10.1       12.2       0.1       182       2.0         Missing       305       0.2       10.1       1.2       0.1       182       2.0         Mate       442,59       25.4       33,152       24.9       8.689       27.2       2.445       2	AGE								
1 to 2 Years       21,765       12.5       17,923       13.5       3,321       10.4       521       5.7         3 to 5 Years       23,834       13.7       19,225       14.5       4,002       12.5       607       6.7         6 to 10 Years       32,573       18.7       25,720       19.4       5,880       18.4       973       10.7         1 to 15 Years       49,313       27.8       35,286       26.6       10.065       31.5       2,962       32.5         16 to 17 Years       29,610       17.0       19,665       14.8       6,242       19.5       3,703       40.7         18 Years       4,124       2.4       2,955       2.2       940       2.9       229       2.5         Missing       305       0.2       101       0.1       22       0.1       182       2.0         Black       44,259       25.4       33,125       24.9       8,669       27.2       2.445       26.8         White       42,967       24.7       31,809       24.0       8,316       26.0       2.76       30.3       3.62       2.7       932       2.9       2.8       2.9       2.9       2.9       2.9       <	Less than 1 Year	13,746	7.9	12,114	9.1	1,519	4.8	113	1.2
3 to 5 Years       23,834       13.7       19,225       14.5       4,002       12.5       607       6.7         6 to 10 Years       32,673       18.7       25,720       19.4       5,880       18.4       973       10.7         11 to 15 Years       48,313       27.8       35,286       26.6       10,065       31.5       2,962       32.5         16 to 17 Years       29,610       17.0       19,665       14.8       6,242       19.5       3,703       40.7         18 + Years       4,124       2.4       2,955       2.2       940       2.9       229       2.5         RACE	1 to 2 Years	21,765	12.5	17,923	13.5	3,321	10.4	521	5.7
6 to 10 Years       32,573       18.7       25,720       19.4       5,880       18.4       973       10.7         11 to 15 Years       48,813       27.8       35,286       26.6       10.065       31.5       2,962       32.5         16 to 17 Years       29,610       17.0       19,665       14.8       6,242       19.5       3,703       40.7         18 Years       4,124       2.4       2,955       2.2       940       2.9       229       225       5         RACE	3 to 5 Years	23,834	13.7	19,225	14.5	4,002	12.5	607	6.7
11 to 15 Years       48,313       27.8       35,286       26.6       10,065       31.5       2,962       32.5         16 to 17 Years       29,610       17.0       19,665       14.8       6,242       19.5       3,703       40.7         18+ Years       4,124       2.4       2,955       2.2       940       2.9       229       2.5         Missing       305       0.2       101       0.1       22       0.1       182       2.0         Black       44,259       25.4       33,125       24.9       8,689       27.2       2,445       26.8         White       42,967       24.7       31,890       24.0       8,314       2.0       2.9       239       2.6         Native American       79,523       45.7       62,623       47.1       13,538       42.3       3,62       36.9       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER	6 to 10 Years	32,573	18.7	25,720	19.4	5,880	18.4	973	10.7
16 to 17 Years       29,610       17.0       19,665       14.8       6,242       19.5       3,703       40.7         18 Years       4,124       2.4       2,955       2.2       940       2.9       229       2.5         RACE       305       0.2       10       0.1       22       0.1       182       2.0         Black       44,259       25.4       33,125       24.9       8,689       27.2       2,445       26.8         White       42,967       24.7       31,890       24.0       8,316       26.0       2,761       30.3         Hispanic       79,523       45.7       62,623       47.1       13,538       42.3       3,362       36.9         Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       47.2       1.5       119       1.3         GENDER       Female       89,184       51.3       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,671       50.2       15,19       9,7	11 to 15 Years	48,313	27.8	35,286	26.6	10,065	31.5	2,962	32.5
18+ Years       4,124       2.4       2,955       2.2       940       2.9       229       2.5         RACE       305       0.2       101       0.1       22       0.1       182       2.0         Black       44,259       25.4       33,125       24.9       8,689       27.2       2,445       26.8         White       42,967       24.7       31,890       24.0       8,316       26.0       2,761       30.3         Hispanic       79,523       45.7       62,623       47.1       13,538       42.3       3,362       36.9         Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER       6       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,206       49.8       16,768       52.5       6,210       68.2         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE	16 to 17 Years	29,610	17.0	19,665	14.8	6,242	19.5	3,703	40.7
RACE         305         0.2         101         0.1         22         0.1         182         2.0           Black         44,259         25.4         33,125         24.9         8,689         27.2         2,445         26.8           White         42,967         24.7         31,890         24.0         8,316         26.0         2,761         30.3           Hispanic         79,523         45.7         62,623         47.1         13,538         42.3         3,362         36.9           Asian/Pacific Islander         4,796         2.8         3,625         2.7         9.39         2.6           Native American         2,115         1.2         1,524         1.1         472         1.5         119         1.3           GENDER	18+ Years	4,124	2.4	2,955	2.2	940	2.9	229	2.5
Missing       305       0.2       101       0.1       22       0.1       182       2.0         Black       44,259       25.4       33,125       24.9       8,689       27.2       2,445       26.8         White       42,967       24.7       31,890       24.0       8,316       26.0       2,761       30.3         Hispanic       79,523       45.7       62,623       47.1       13,538       42.3       3,362       36.9         Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       2.19       1.5       1.19       1.5       1.9       1.5       1.9       <	RACE								
Black       44,259       25.4       33,125       24.9       8,689       27.2       2,445       26.8         White       42,967       24.7       31,890       24.0       8,316       26.0       2,761       30.3         Hispanic       79,523       45.7       62,623       47.1       13,538       42.3       3,362       36.9         Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER       2,115       1.2       1,524       1.1       47.5       2,892       31.8         Male       89,184       51.3       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,671       50.2       15,199       47.5       2,892       31.8         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8	Missing	305	0.2	101	0.1	22	0.1	182	2.0
White       42,967       24.7       31,890       24.0       8,316       26.0       2,761       30.3         Hispanic       79,523       45.7       62,623       47.1       13,538       42.3       3,362       36.9         Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER        84,762       48.7       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,206       49.8       16,768       52.5       6,210       68.2         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2.822       8.8 <th>Black</th> <th>44,259</th> <th>25.4</th> <th>33,125</th> <th>24.9</th> <th>8,689</th> <th>27.2</th> <th>2,445</th> <th>26.8</th>	Black	44,259	25.4	33,125	24.9	8,689	27.2	2,445	26.8
Hispanic       79,523       45.7       62,623       47.1       13,538       42.3       3,362       36.9         Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER       84,762       48.7       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,206       49.8       16,768       52.5       6,210       68.2         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       72.2       8,940       6.7       2,822       88       72.8         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768	White	42,967	24.7	31,890	24.0	8,316	26.0	2,761	30.3
Asian/Pacific Islander       4,796       2.8       3,625       2.7       932       2.9       239       2.6         Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER       2,115       1.2       1,524       1.1       472       1.5       119       1.3         Female       84,762       48.7       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,206       49.8       16,768       52.5       6,210       68.2         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768 </th <th>Hispanic</th> <th>79,523</th> <th>45.7</th> <th>62,623</th> <th>47.1</th> <th>13,538</th> <th>42.3</th> <th>3,362</th> <th>36.9</th>	Hispanic	79,523	45.7	62,623	47.1	13,538	42.3	3,362	36.9
Native American       2,115       1.2       1,524       1.1       472       1.5       119       1.3         GENDER       84,762       48.7       66,671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,0671       50.2       15,199       47.5       2,892       31.8         Male       89,184       51.3       66,206       49.8       16,768       52.5       6,210       68.2         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       10       7,754       44.6       57,972       43.6       15,311       47.9       4,271       46.9         First       63,353       36.4       51,875       39.0       7,710       24.1 </th <th>Asian/Pacific Islander</th> <th>4,796</th> <th>2.8</th> <th>3,625</th> <th>2.7</th> <th>932</th> <th>2.9</th> <th>239</th> <th>2.6</th>	Asian/Pacific Islander	4,796	2.8	3,625	2.7	932	2.9	239	2.6
GENDER         Image: Note of the state of the stat	Native American	2,115	1.2	1,524	1.1	472	1.5	119	1.3
Female84,76248.766,67150.215,19947.52,89231.8Male89,18451.366,20649.816,76852.56,21068.2Unknown190.0110.020.060.1EPISODE COUNTER126,36772.697,83273.621,90168.56,63472.8Second35,11120.226,11619.77,24622.71,74919.2Three or More12,4877.28,9406.72,8228.87258.0PLACEMENT COUNTER63,35336.451,87539.07,71024.13,76841.4Two - Four77,55444.657,97243.615,31147.94,27146.9First TIME IN FOSTER CARE126,84872.993,67870.526,80883.96,36269.9Yes47,11727.139,21029.55,16116.12,74630.1	GENDER								
Male       89,184       51.3       66,206       49.8       16,768       52.5       6,210       68.2         Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768       41.4         Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Firest TIME IN FOSTER CARE       23,041       17.3       8,948       28.0       1,069       11.7         Firest       126,848       72.9       93,678       70.5       26,808       83.9       6,362       69.9         Yes       47.117       27.1       39,210       29.5       5,161       16.1       2,746	Female	84,762	48.7	66,671	50.2	15,199	47.5	2,892	31.8
Unknown       19       0.0       11       0.0       2       0.0       6       0.1         EPISODE COUNTER       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         First       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768       41.4         Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Five or More       33,058       19.0       23,041       17.3       8,948       28.0       1,069       11.7         FIRST TIME IN FOSTER CARE       126,848       72.9       93,678       70.5       26,808       83.9       6,362       69.9         Yes       47,117       27.1       39,210       29.5       5,161	Male	89,184	51.3	66,206	49.8	16,768	52.5	6,210	68.2
EPISODE COUNTER         I26,367         72.6         97,832         73.6         21,901         68.5         6,634         72.8           Second         35,111         20.2         26,116         19.7         7,246         22.7         1,749         19.2           Three or More         12,487         7.2         8,940         6.7         2,822         8.8         725         8.0           PLACEMENT COUNTER         63,353         36.4         51,875         39.0         7,710         24.1         3,768         41.4           Two - Four         77,554         44.6         57,972         43.6         15,311         47.9         4,271         46.9           Five or More         33,058         19.0         23,041         17.3         8,948         28.0         1,069         11.7           FIRST TIME IN FOSTER CARE         No         126,848         72.9         93,678         70.5         26,808         83.9         6,362         69.9           Yes         47,117         27.1         39,210         29.5         5,161         16.1         2,746         30.1	Unknown	19	0.0	11	0.0	2	0.0	6	0.1
First       126,367       72.6       97,832       73.6       21,901       68.5       6,634       72.8         Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768       41.4         Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Five or More       33,058       19.0       23,041       17.3       8,948       28.0       1,069       11.7         FIRST TIME IN FOSTER CARE       126,848       72.9       93,678       70.5       26,808       83.9       6,362       69.9         Yes       47,117       27.1       39,210       29.5       5,161       16.1       2,746       30.1	EPISODE COUNTER								
Second       35,111       20.2       26,116       19.7       7,246       22.7       1,749       19.2         Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768       41.4         Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Five or More       33,058       19.0       23,041       17.3       8,948       28.0       1,069       11.7         FIRST TIME IN FOSTER CARE       126,848       72.9       93,678       70.5       26,808       83.9       6,362       69.9         Yes       47,117       27.1       39,210       29.5       5,161       16.1       2,746       30.1	First	126,367	72.6	97,832	73.6	21,901	68.5	6,634	72.8
Three or More       12,487       7.2       8,940       6.7       2,822       8.8       725       8.0         PLACEMENT COUNTER       63,353       36.4       51,875       39.0       7,710       24.1       3,768       41.4         Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Five or More       33,058       19.0       23,041       17.3       8,948       28.0       1,069       11.7         FIRST TIME IN FOSTER CARE       126,848       72.9       93,678       70.5       26,808       83.9       6,362       69.9         Yes       47,117       27.1       39,210       29.5       5,161       16.1       2,746       30.1	Second	35,111	20.2	26,116	19.7	7,246	22.7	1,749	19.2
PLACEMENT COUNTER         63,353         36.4         51,875         39.0         7,710         24.1         3,768         41.4           First         63,353         36.4         51,875         39.0         7,710         24.1         3,768         41.4           Two - Four         77,554         44.6         57,972         43.6         15,311         47.9         4,271         46.9           Five or More         33,058         19.0         23,041         17.3         8,948         28.0         1,069         11.7           FIRST TIME IN FOSTER CARE         126,848         72.9         93,678         70.5         26,808         83.9         6,362         69.9           Yes         47,117         27.1         39,210         29.5         5,161         16.1         2,746         30.1	Three or More	12,487	7.2	8,940	6.7	2,822	8.8	725	8.0
First       63,353       36.4       51,875       39.0       7,710       24.1       3,768       41.4         Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Five or More       33,058       19.0       23,041       17.3       8,948       28.0       1,069       11.7         FIRST TIME IN FOSTER CARE       126,848       72.9       93,678       70.5       26,808       83.9       6,362       69.9         Yes       47,117       27.1       39,210       29.5       5,161       16.1       2,746       30.1	PLACEMENT COUNTER								
Two - Four       77,554       44.6       57,972       43.6       15,311       47.9       4,271       46.9         Five or More       33,058       19.0       23,041       17.3       8,948       28.0       1,069       11.7         FIRST TIME IN FOSTER CARE       Image: Comparison of the state of the sta	First	63,353	36.4	51,875	39.0	7,710	24.1	3,768	41.4
Five or More         33,058         19.0         23,041         17.3         8,948         28.0         1,069         11.7           FIRST TIME IN FOSTER CARE         126,848         72.9         93,678         70.5         26,808         83.9         6,362         69.9           Yes         47,117         27.1         39,210         29.5         5,161         16.1         2,746         30.1	Two - Four	77,554	44.6	57,972	43.6	15,311	47.9	4,271	46.9
FIRST TIME IN FOSTER CARE         126,848         72.9         93,678         70.5         26,808         83.9         6,362         69.9           Yes         47,117         27.1         39,210         29.5         5,161         16.1         2,746         30.1	Five or More	33,058	19.0	23,041	17.3	8,948	28.0	1,069	11.7
No         126,848         72.9         93,678         70.5         26,808         83.9         6,362         69.9           Yes         47,117         27.1         39,210         29.5         5,161         16.1         2,746         30.1	FIRST TIME IN FOSTER CARE								
Yes   47,117 27.1 39,210 29.5 5,161 16.1 2,746 30.1	No	126,848	72.9	93,678	70.5	26,808	83.9	6,362	69.9
	Yes	47,117	27.1	39,210	29.5	5,161	16.1	2,746	30.1

Table 4:	Question 1 - Characteristics of Foster Care Placements In- or Out-Of-County for
	All Placements That Existed in Fiscal Year 2008/09 (Cont.)

			COUNTY OF PLACEMENT					
					Out-of-			
	All		In-County		County		Unknown	
	N	%	N	%	N	%	N	%
All Placements That Existed in Fiscal Year 2008/09	173,965	100.0	132,888	100.0	31,969	100.0	9,108	100.0
REMOVAL REASON								
Neglect	130,999	75.3	103,627	78.0	24,301	76.0	3,071	33.7
Physical Abuse	16,402	9.4	13,303	10.0	2,814	8.8	285	3.1
Sexual Abuse	5,118	2.9	4,106	3.1	945	3.0	67	0.7
Other	19,672	11.3	10,415	7.8	3,635	11.4	5,622	61.7
Missing	1,774	1.0	1,437	1.1	274	0.9	63	0.7
PLACEMENT TYPE								
Pre Adoptive	10,132	5.8	7,102	5.3	2,256	7.1	774	8.5
Kinship Foster Care	45,184	26.0	33,713	25.4	9,013	28.2	2,458	27.0
Licensed Foster Family Home	19,582	11.3	18,610	14.0	873	2.7	99	1.1
Foster Home Certified by Foster Family Agency	55,771	32.1	43,623	32.8	11,901	37.2	247	2.7
Court Specified Home	768	0.4	304	0.2	83	0.3	381	4.2
Congregate Care	30,943	17.8	19,610	14.8	6,370	19.9	4,963	54.5
Legal Guardian	11,584	6.7	9,925	1.5	1,473	4.6	186	2.0
		0.0	1	0.0	0	0.0	0	0.0
101AL PLACEMENT LENGTH UP TO JUNE 30, 2009		40.4	40.050	44.0	0.050			0.5
1-14 Days	22,868	13.1	18,953	14.3	3,052	9.5	863	9.5
15-30 Days	10,939	9.2	12,001	9.0	2,010	0.2	2 269	25.0
> 6 Months	77 148	44.3	57 175	43.0	15 656	49.0	3,200	47.4
TIME IN FOSTER CARE EPISODE BEFORE ANALYSIS PERIOD	11,110	11.0	01,110	10.0	10,000	10.0	1,011	
< 1 Month	46 705	26.8	40 815	30.7	5 258	16.4	632	69
1 - 6 Months	28 750	16.5	21 890	16.5	4 560	14.3	2 300	25.3
6 Months to 2 Years	45,783	26.3	33,502	25.2	8.674	27.1	3.607	39.6
> 2 Years	52,727	30.3	36,681	27.6	13,477	42.2	2,569	28.2
PLACEMENT END REASON								
Still in Placement	21,092	12.1	15,569	11.7	4,278	13.4	1,245	13.7
Reunification linked	33,052	19.0	26,812	20.2	4,634	14.5	1,606	17.6
Other Permanency Linked	40,610	23.3	31,729	23.9	7,215	22.6	1,666	18.3
Emancipation/Aged Out	7,768	4.5	5,603	4.2	1,622	5.1	543	6.0
Behavioral Factors	36,376	20.9	25,677	19.3	7,656	23.9	3,043	33.4
Stressful Moves	2,487	1.4	1,943	1.5	515	1.6	29	0.3
Other Moves	32,580	18.7	25,555	19.2	6,049	18.9	976	10.7
AGENCY	1							
Child Welfare	162,327	93.3	129,119	97.2	29,576	92.5	3,632	39.9
Probation	11,568	6.6	3,716	2.8	2,381	7.4	5,471	60.1
	70	0.0	55	0.0	12	0.0	5	0.1
PLACEMENT SPAN	04.745	07.0	54.400	00 F	40 407	00.7	0.050	
Started before and ended in EV2009/09	64,/15	37.2	51,189	38.5	10,467	32.7	3,059	33.6
Started in and ended after EV2002/09	40,704	20.3 22.1	30,928	20.0 22.7	9,105	20.7	2,071	29.3
Started before and ended after FY2008/09	23 355	13.4	17 561	13.2	4,717	23.0 14.8	2,301	20.0
		.0.1	,001	.0.2	.,, /	.4.0	.,517	. 1.5
	132 880	76 /	132 880	100.0		0.0	0	0.0
Out-of-County, Adjacent	19 962	11.5	132,000	0.0	19,962	62.4	0	0.0
Out-of-County, Nonadiacent	12 007	6.9	0	0.0	12,007	37.6	0	0.0
Unknown	9.108	5.2	0	0.0	0	0.0	9,108	100.0
	5,.00	U	Ŭ	0.0	, v	0.0	-,	

# Question 1 Data Mining Results

Note: See Appendix A for % Served by all Question 1 Model Factors.

Dendrogram 1.1 demonstrates that the best predictor of the proportion served with MHODS to be children's age groups. The youngest age group of less than 1 year had 8.6% served with no significant difference between IC and OOC placements. The percent served then increased from 10.5% for placements with children 1-2 years of age to a maximum of 48.3% for placements with children 11-15 years of age. With the exception of children <1 years, all age groups demonstrated a significant difference between proportions of children served with MHODS for IC vs. OOC placements.

Dendrogram 1.2 focused on the subpopulation of placements of children who were <1 year of age. Of those children, the most significant predictor of percent served with MHODS was total placement length. Only the placements of >6 months had a significant difference between IC and OOC placements (12.0% IC vs. 9.1% OOC).

Since total placement length would be an obvious predictor for this age group, Dendrogram 1.3 diagramed the second best predictor of percent served with MHODS to be placement type. Although there were no significant differences between IC and OOC for any placement types for this age group, a third level of tree was assessed for kinship foster care as it had a difference (9.8% IC vs. 7.6% OOC) that trended toward significance (P-Value 0.08). The best predictor of percent served with MHODS for this subpopulation was county of origin, which was tested in groups of quintiles. The Quintile 4 group of counties had a significant difference between percent served IC and OOC (10.8% IC vs. 5.6% OOC). The percent served for individual counties of origin and quintile assignment can be seen in Appendix C.

Dendrogram 1.4 showed a similar pattern in the data for placements with children 1-2 years of age. Kinship foster care had the most significant difference in percent served with MHODS between IC and OOC placements (13.5% vs. 9.7%, respectively). Further enumeration on this group showed that county of origin as groups was again the best predictor of percent served with MHODS, with only Quintile 4 having a significant difference between IC and OOC placements (15.6% vs. 8.8%, respectively).

Dendrogram 1.5 isolated placements with children aged 3-5. Again, county of origin was the most significant predictor of percent served. In this analysis, the population of 3-5 year olds was large enough to support testing of individual counties. The level of percent served ranged from 6.1% for the 12 counties in quintile 1 to 44.0% for counties in quintile 5. The range in percent served with MHODS among county of origin (44.0% - 6.1% = 33.9%) greatly surpassed the largest range between IC and OOC placements for any of the individual quintiles (quintile 4 had largest difference, at 32.0% IC - 21.8% OOC = 10.2%). The post-analysis of IC vs. OOC placements determined that there was a significant difference in IC vs. OOC placements for all county quintiles except quintile 2.

Dendrogram 1.6 demonstrates that total placement length was the best predictor of percent served for placements of 6- to 10-year olds. Again, as expected, children in longer placements were more likely to have been served by CMH, and there was a significant difference between IC and OOC for the placements with longer placement lengths. Since the best predictor of percent served for placements with 6- to 10-year olds was based on time, the project evaluated the second best predictor of percent served for this subpopulation, as displayed in Dendrogram 1.7. The next best predictor was county of origin analyzed as individual counties. Quintiles 4 and 5 demonstrated a significant difference between IC and OOC placements. Again, however, the range of percent served between county quintiles

(35.6%) surpassed the largest range of percent served between IC and OOC placements (13.9%) within quintiles.

Dendrogram 1.8 showed that county of origin, analyzed as individual counties, was also the best predictor of percent served by MHODS for placements of children 11-15 years of age. The range of percent served between counties was 35.9% (63.7% Q5 - 27.8% Q1 = 35.9%,). The largest difference between IC vs. OOC placements was for quintile 4 (57.3% IC - 41.6% OOC = 15.7%).

Dendrogram 1.9 also showed that county of origin, analyzed as individual counties, was the best predictor of percent served by MHODS for placements of children 16-17 years of age. The range of percent served between counties was 31.3% (56.6% Q5 - 25.3% Q1 = 31.3%). The largest difference between IC vs. OOC placements was for quintile 5 (62.0% IC - 47.8% OOC = 14.2%).

Dendrogram 1.10 illustrated that placement type was the best predictor of percent served with MHODS for placements of youth 18+ years of age. There were 786 placements in congregate care, which was the only placement type with a significant difference between IC and OOC placements (52.1% IC vs. 33.0% OOC).

### Dendrogram 1.1: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 First Level of Classification Tree Best Predictor of % Served



Dendrogram 1.2: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 Second Level of Classification Tree Less Than 1 Year of Age - Best Predictor of % Served



Dendrogram 1.3: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09

Question 1 Second Level of Classification Tree

Less Than 1 Year of Age - Second Best Predictor of % Served



Dendrogram 1.4: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09

Question 1 Second Level of Classification Tree

1 to 2 Years of Age - Best Predictor of % Served



Dendrogram 1.5: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 Second Level of Classification Tree 3 - 5 Years of Age - Best Predictor of % Served



Dendrogram 1.6: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 Second Level of Classification Tree 6 - 10 Years of Age - Best Predictor of % Served



Dendrogram 1.7: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09

Question 1 Second Level of Classification Tree

6 - 10 Years of Age - Second Best Predictor of % Served



# Dendrogram 1.8: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 Second Level of Classification Tree 11 - 15 Years of Age - Best Predictor of % Served



Dendrogram 1.9: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 Second Level of Classification Tree 16 - 17 Years of Age - Best Predictor of % Served



### OUT-OF-COUNTY DATA MINING PROJECT REPORT Dendrogram 1.10: Proportion of Placements Receiving MHODS in Fiscal Year 2008/09 Question 1 Second Level of Classification Tree

18+ Years - Best Predictor of % Served



# **RESULTS FOR QUESTION 2**

For children who did receive community MHODS service in the year prior or the year during the analysis period, how did the level of service during the placement differ based on placement characteristics? Did the level of service differ by in- or out-of-county placement?

## **Question 2 Descriptive Statistics Results**

Table 5 displays the general descriptive statistics of the dataset used for Question 2 analysis. Placements in this analysis included children who received CMH MHODS at least one time in FY2007/08 or FY2008/09, referred to as children in the CMH system. Of the 100,826 placements included in this analysis, 59.8% had MHODS, and 40.2% had no MHODS during the analysis period. A total of 63.1% of IC placements had MHODS, as compared to 53.9% of OOC placements. The AMD of MHODS was 2.8 days per month overall, with 2.9 days for IC placements and 2.3 days for OOC placements.

Most placements in this analysis were longer than 1 month (74.0%) with 15.0% that were 1-14 days and 11.0% that were 15-30 days. An additional flag (short placement time) was included in the analysis to assure that those 15.0% of short placement periods were not disproportionally predictive of level of MHODS.

The proportion of IC placements with children in the CMH system was larger for younger-aged children, as compared to OOC placements (2.6% IC vs. 1.4% OOC for <1 year; 5.6% IC vs. 3.7% OOC for 1-2 years) and smaller for older-aged children, as compared to OOC placements (35.6% IC vs. 39.7% OOC for 11-15 years; 19.4% IC vs. 24.2% OOC for 16-17 years). The greatest racial differences between IC and OOC placements was for placements of Hispanic children (44.9% IC vs. 39.1% OOC) followed by placements of White children (23.9% IC vs. 26.8% OOC).

For most children in placements in this analysis, this was the first episode of foster care (66.5%), as it was for both IC and OOC placements (67.3% and 62.4%, respectively). However, only 30.0% of placements represented the first placement of the episode overall, with IC and OOC placements differing in proportion of first placements for the episode (31.1% and 20.7%, respectively). 20.2% of placements overall represented the child's first episode and first placement, considered as the first time in foster care. Again, the proportion was higher for IC vs. OOC placements (21.3% IC vs. 12.5% OOC).

The reason a child was removed and placed into foster care did not differ greatly between IC and OOC placements, with most children being removed due to neglect (70.1% overall, 73.7% IC, 71.7% OOC). Placement type varied between IC and OOC placements, with the largest differences occurring between licensed foster family home (11.6% IC vs. 2.3% OOC), followed by congregate care (22.0% IC vs. 29.6% OOC), and foster home certified by foster family agency (33.6% IC vs. 37.9 OOC).

Total placement length included the time in placement before and during the analysis year. There were more IC placements with short stays of 1-14 days (13.4% IC vs. 10.6% OOC) and fewer IC placement with long stays of more than 6 months (42.8% IC vs. 45.0% OOC), as compared to OOC placements. The same trend was seen when looking at length of time in foster care before the analysis year. There were fewer IC placements with a long episode length of more than 2 years (31.9% IC vs. 43.6 OOC), as compared to OOC placements.

Placements ended for reasons of reunification for a larger proportion of IC vs. OOC placements (17.1% vs. 13.3%, respectively) and ended for reasons of behavioral factors for a smaller proportion of for IC placements vs. OOC placements (25.9% vs. 32.2%, respectively).

Probation supervision, as compared to child welfare supervision, was less likely in IC placements than OOC placements (4.6% vs. 10.9%, respectively).

84.2% of placements in this analysis received previous MHODS within the 365 days before placement. (Note: since foster children in CMH system in FY2007/08 or FY2008/09 could have had more than one

placement in this analysis, some placements may have had previous MHODS, and others may have not. However, all children must have had at least one service in FY2007/08 or FY2008/09 and a foster care placement in FY2008/09 to be included in this analysis.)

For placements with children diagnosed in the CMH system, the greatest difference in service provision between IC and OOC placements was for children diagnosed with post-traumatic stress disorder (PTSD) at 16.9% IC vs. 23.0% OOC. For other placements with children diagnosed and served by the CMH system, 16.2% of placements were for children with a bipolar disorder, with 15.3% of IC placements and 18.4% of OOC placements noting the same disorder. There were 31.1% of placements with children served in the CMH system for depressive disorder, with 30.3% placed IC and 33.1% placed OOC. Attention deficit hyperactivity disorder (ADHD) was noted in service records for 21.0% of placements overall, with 20.0% of placements served IC and 24.8% of children served OOC. Disruptive behavior disorder was noted in service records for 34.0% of placements overall, with 32.1% of children placed IC and 35.8% placed OOC. In all of the diagnostic categories mentioned above, OOC exceeded IC placements in percentages of diagnosed youth.

There was less difference between placements IC and OOC for children diagnosed with psychotic disorder (2.9% overall), anxiety disorder (overall 7.8%), and substance-related disorder (8.5% overall). For children diagnosed with adjustment disorder (41.3% overall), IC placements exceeded OOC in percentage of diagnosed youth.

There were larger proportions of placements OOC for children who were noted to have experienced a traumatic event (38.5% IC vs. 49.3% OOC), have a substance abuse issue (8.7% IC vs. 13.2% OOC), and require medication support (38.8% IC vs. 41.4% OOC), as compared to placements of children IC.

Table 5:	Question 2 - Characteristics of Foster Care Placements In- or Out-Of-County for
	Clients in the CMH System in FY2007/08 or FY2008/09

		COUNTY OF PLACEMENT						
	AL	L	In-Co	unty	Out-of-C	County	Unkn	own
	Mean I	Days	Mean I	Days	Mean I	Days	Mean [	Days
Average Monthly Days (AMD) of MHODS	2.8	3	2.9	9	2.3	3	1.8	3
	N	0/	N	0/	N	0/	N	0/
Placements for DMH CSI Matched Clients	100.926	70	76.069	70	10 109	100.0	IN	70
	100,020	100.0	70,000	100.0	19,190	100.0	5,500	100.0
	40 500	40.0	00.000	20.0	0.044	10.1	2 050	05.0
NO	40,530	40.2 50.8	20,033	30.9 63.1	0,041	40.1 53.0	3,000	00.0 34.2
	00,200	55.0	+0,000	00.1	10,007	00.0	1,504	0 <del>1</del> .2
DATS OF MHODS DURING ANALTSIS PERIOD	40 520	40.2	20 022	26.0	0 0 4 4	46.1	2 656	65.0
0 4 44 Davia	40,000	40.2	20,033	30.9	0,041	40.1	3,000	00.0
1-14 Days	10 39,434	10.3	9 571	40.7	1,007	30.0	1,309	25.0
15-50 Days	0.991	10.5	8 021	10.5	1,505	0.2	250	4.1
S Months	9,001	9.0	0,021	10.5	1,004	0.4	200	4.0
	001	0.0	400	0.0	115	0.0	20	0.0
1 14 Dava	15 002	15.0	11 040	15.6	2 4 2 1	10.7	010	146
1-14 Days	11 134	11.0	8 4 2 0	10.0	2,431	12.7	6/1	14.0
15-50 Days	12 919	11.0	21 7/2	11.1	2,004	10.0	2 7 2 2	11.5
S Months	42,010	42.0	24 047	41.7 31.6	6 361	43.0	2,733	49.Z
	01,702	51.5	24,047	51.0	0,001	00.1	1,074	24.1
SHORT PLACEWENT TIME (~- 14 Days)	05 724	95.0	64 210	011	16 767	07.2	1 710	0E /
	00,734	00.0 15.0	11 8/0	04.4	2/31	07.3 12.7	4,740	00.4 14.6
	15,052	15.0	11,043	15.0	2,431	12.7	012	14.0
AGE	0.050	2.2	1 077	2.6	267	1.4	0	0.0
Less tildi i fedi	2,203	Z.Z 5.0	1,977	2.0	207	1.4	9	0.2
2 to 5 Veers	3,024	0.0 10.6	4,200	0.0 11.0	1 679	3.7 0 7	117	1.1
3 to 5 Years	21 520	21.4	0,939	11.0	2 910	0.7	261	2.1
6 to 10 Years	21,000	21.4	27.072	22.0	3,019	19.9	2 0 9 2	27.4
11 to 15 fears	22 244	22.1	14 764	10.4	1,015	24.2	2,002	50.8
16 to 17 fears	22,244	22.1	1 7 1 0 4	19.4	4,055	24.2	2,027	1.8
	2,211	2.0	1,710	2.2	-00	2.7	101	1.0
Missing	102	0.2	40	0.1	10	0.1	121	2.4
Black	28 176	27.9	20 896	27.5	5 673	29.5	1 607	2.4
White	24,170	24.7	18 156	27.0	5 153	26.8	1,007	20.0
Hiononio	/3 711	13.1	34 174	44.0	7 512	20.0	2 0 2 5	20.2
	2 7 2 7	2.7	1 085	2.6	575	3.0	2,020	3.0
Native American	1 153	2.7	1,303	2.0	275	1.0	63	1.1
CENDER	1,100		010		210			
Female	48 305	47 9	38 000	50.0	8 874	46.2	1 4 3 1	25.7
Male	52 508	52.1	38,060	50.0	10,323	53.8	4 125	74.2
Unknown	13	0.0	8	0.0	10,020	0.0	4	0.1
EPISODE COUNTER	-							-
First	67 064	66.5	51 216	67.3	11 974	62.4	3 874	697
Second	24 200	24.0	17 973	23.6	5 050	26.3	1 177	21.2
Three or More	9.562	9.5	6.879	9.0	2.174	11.3	509	9.2
PLACEMENT COUNTER	- ,		- ,		,			-
First	30 225	30.0	23 685	31.1	3 974	20.7	2 566	46.2
Two - Four	44.092	43.7	33,399	43.9	8,307	43.3	2,386	42.9
Five or More	26.509	26.3	18.984	25.0	6.917	36.0	608	10.9
FIRST TIME IN FOSTER CARE	.,		,,		.,			
No	80 445	79 R	59 902	78 7	16 790	87 5	3 744	67.3
Yes	20.381	20.2	16.166	21.3	2.399	12.5	1.816	32.7
			.,	-	,	-	,	

	12001/							
				COL	JNTY OF F	PLACEME	ENT	
	AL	L	In-Co	unty	Out-of-0	County	Unkn	own
	N	%	N	%	N	%	N	%
Placements for DMH-CSI Matched Clients	100,826	100.0	76,068	100.0	19,198	100.0	5,560	100.0
REMOVAL REASON								
Neglect	70,685	70.1	56,048	73.7	13,764	71.7	873	15.7
Physical Abuse	10,333	10.2	8,448	11.1	1,779	9.3	106	1.9
Sexual Abuse	3,640	3.6	2,979	3.9	635	3.3	26	0.5
Other	14,979	14.9	7,566	9.9	2,865	14.9	4,548	81.8
Missing	1,189	1.2	1,027	1.4	155	0.8	7	0.1
PLACEMENT TYPE								
Pre Adoptive	3,644	3.6	2,760	3.6	737	3.8	147	2.6
Kinship Foster Care	22,551	22.4	17,383	22.9	4,359	22.7	809	14.6
Licensed Foster Family Home	9,360	9.3	8,859	11.6	444	2.3	57	1.0
Foster Home Certified by Foster Family Agency	33,026	32.8	25,573	33.6	7,282	37.9	171	3.1
Court Specified Home	429	0.4	193	0.3	44	0.2	192	3.5
Congregate Care	26,556	26.3	16,732	22.0	5,683	29.6	4,141	74.5
Legal guardian	5,260	5.2	4,568	6.0	649	3.4	43	0.8
TOTAL PLACEMENT LENGTH UP TO JUNE 30, 2009								
1-14 Days	12,902	12.8	10,173	13.4	2,027	10.6	702	12.6
15-30 Days	9,155	9.1	6,944	9.1	1,695	8.8	516	9.3
1-6 Months	35,603	35.3	26,417	34.7	6,834	35.6	2,352	42.3
> 6 Months	43,166	42.8	32,534	42.8	8,642	45.0	1,990	35.8
TIME IN FOSTER CARE EPISODE BEFORE								
ANALYSIS PERIOD								
< 1 Month	21,423	21.2	18,216	23.9	2,752	14.3	455	8.2
1 - 6 Months	17,654	17.5	13,000	17.1	2,850	14.8	1,804	32.4
6 Months to 2 Years	28,238	28.0	20,620	27.1	5,222	27.2	2,396	43.1
> 2 Years	33,511	33.2	24,232	31.9	8,374	43.6	905	16.3
PLACEMENT END REASON								
Still in Placement	9,317	9.2	7,185	9.4	1,825	9.5	307	5.5
Reunification linked	16,735	16.6	13,038	17.1	2,547	13.3	1,150	20.7
Other Permanency Linked	18,647	18.5	14,764	19.4	3,290	17.1	593	10.7
Emancipation/Aged Out	4,235	4.2	3,122	4.1	843	4.4	270	4.9
Behavioral Factors	28,460	28.2	19,718	25.9	6,184	32.2	2,558	46.0
Stressful Moves	1,638	1.6	1,238	1.6	377	2.0	23	0.4
Other Moves	21,794	21.6	17,003	22.4	4,132	21.5	659	11.9
AGENCY								
Child Welfare	90,667	89.9	72,516	95.3	17,097	89.1	1,054	19.0
Probation	10,135	10.1	3,532	4.6	2,100	10.9	4,503	81.0
Other	24	0.0	20	0.0	1	0.0	3	0.1
PLACEMENT SPAN								
Started and ended in FY2008/09	39,062	38.7	29,820	39.2	6,913	36.0	2,329	41.9
Started before and ended in FY2008/09	26,584	26.4	19,912	26.2	5,244	27.3	1,428	25.7
Started in and ended after FY2008/09	22,936	22.7	16,800	22.1	4,602	24.0	1,534	27.6
Started before and ended after FY2008/09	12,244	12.1	9,536	12.5	2,439	12.7	269	4.8
PLACEMENT COUNTY INDICATOR								
In-County	76,068	75.4	76,068	100.0	0	0.0	0	0.0
Out-of-County, Adjacent	12,234	12.1	0	0.0	12,234	63.7	0	0.0
Out-of-County, Nonadjacent	6,964	6.9	0	0.0	6,964	36.3	0	0.0
Unknown	5,560	5.5	0	0.0	0	0.0	5,560	100.0

# Table 5: Question 2 - Characteristics of Foster Care Placements In- or Out-Of-County for Clients in the CMH System in FY2007/08 or FY2008/09 (Cont.)

			COUNTY OF PLACEMENT					
	AL	L	In-Co	unty	Out-of-C	County	Unkn	own
	N	%	N	%	N	%	N	%
Placements for DMH-CSI Matched Clients	100,826	100.0	76,068	100.0	19,198	100.0	5,560	100.0
ANY PREVIOUS MHODS TREATMENT								
Νο	15 960	15.8	13 062	17.2	2 462	12.8	436	78
Yes	84,866	84.2	63,006	82.8	16,736	87.2	5,124	92.2
PSYCHOTIC DISORDERS								
No	97,898	97.1	73,973	97.2	18,566	96.7	5,359	96.4
Yes	2,928	2.9	2,095	2.8	632	3.3	201	3.6
BIPOLAR DISORDER								
No	84,519	83.8	64,429	84.7	15,673	81.6	4,417	79.4
Yes	16,307	16.2	11,639	15.3	3,525	18.4	1,143	20.6
ANXIETY DISORDER								
Νο	93,005	92.2	70,104	92.2	17,674	92.1	5,227	94.0
Yes	7,821	7.8	5,964	7.8	1,524	7.9	333	6.0
DEPRESSIVE DISORDER								
No	69,512	68.9	53,003	69.7	12,845	66.9	3,664	65.9
Yes	31,314	31.1	23,065	30.3	6,353	33.1	1,896	34.1
SUBSTANCE-RELATED DISORDER								
No	92,298	91.5	70,609	92.8	17,446	90.9	4,243	76.3
Yes	8,528	8.5	5,459	7.2	1,752	9.1	1,317	23.7
ADJUSTMENT DISORDER								
No	59,142	58.7	43,772	57.5	11,337	59.1	4,033	72.5
Yes	41,684	41.3	32,296	42.5	7,861	40.9	1,527	27.5
ADHD								
No	79,613	79.0	60,875	80.0	14,440	75.2	4,298	77.3
Yes	21,213	21.0	15,193	20.0	4,758	24.8	1,262	22.7
DISRUPTIVE BEHAVIOR DISORDER								
No	66,544	66.0	51,673	67.9	12,331	64.2	2,540	45.7
Yes	34,282	34.0	24,395	32.1	6,867	35.8	3,020	54.3
POST TRAUMATIC STRESS DISORDER								
Νο	82,882	82.2	63,226	83.1	14,782	77.0	4,874	87.7
Yes	17,944	17.8	12,842	16.9	4,416	23.0	686	12.3
CHILDHOOD								
No	67,016	66.5	49,121	64.6	13,316	69.4	4,579	82.4
Yes	33,810	33.5	26,947	35.4	5,882	30.6	981	17.6
OTHER DISORDERS								
No	92,273	91.5	70,039	92.1	17,359	90.4	4,875	87.7
Yes	8,553	8.5	6,029	7.9	1,839	9.6	685	12.3
TRAUMA EVENT								
No	59,526	59.0	46,768	61.5	9,739	50.7	3,019	54.3
Yes	41,300	41.0	29,300	38.5	9,459	49.3	2,541	45.7
SUBSTANCE ABUSE								
No	89,516	88.8	69,461	91.3	16,673	86.8	3,382	60.8
Yes	11,310	11.2	6,607	8.7	2,525	13.2	2,178	39.2
MEDICATION SUPPORT FOR MENTAL HEALTH								
No	60,460	60.0	46,524	61.2	11,254	58.6	2,682	48.2
Yes	40,366	40.0	29,544	38.8	7,944	41.4	2,878	51.8

# Table 5: Question 2 - Characteristics of Foster Care Placements In- or Out-Of-County for Clients in the CMH System in FY2007/08 or FY2008/09 (Cont.)

## Question 2 Data Mining Results

Note: See Appendix B for AMD of MHODS by Question 2 Model Factors.

Dendrogram 2.1 identified the best predictor for AMD of MHODS to be the county of placement, analyzed as individual counties. The AMD of MHODS for individual counties of placement and quintile assignment can be seen in Appendix D. In addition, the next best predictor for AMD of MHODS was sought.

Dendrogram 2.2 identified the second best predictor for AMD of MHODS to be a child's county of origin, analyzed as individual counties. The AMD of MHODS for individual counties of placement and quintile assignment can be seen in Appendix C. The AMD of MHODS ranged from 1.7 days for the 12 counties in quintile 1 to 3.7 days for counties in quintile 5. The range in AMD of MHODS between counties of origin (3.7 days - 1.7 days = 2.0 days) surpassed the largest difference between IC and OOC placements for any of the quintiles (quintile 4 and quintile 5 demonstrated differences of 1 day between IC and OOC placements). Since data mining analysis of question 1 revealed a similar pattern, the third best predictor for AMD of MHODS was evaluated as well.

Dendrogram 2.3 identified placement type as the third best predictor for AMD of MHODS. Placements with children in congregate care had the greatest AMD of MHODS at 5.5 days per month (6.8 days IC vs. 4.2 days OOC). Licensed foster families had the next greatest AMD of MHODS at 2.3 days per month with no difference between IC and OOC placements, followed by foster homes certified by a foster family agency at 1.9 days per month with little difference between IC and OOC placements. Kinship foster care, with a large number of placements (n=22,551), showed a lower AMD of MHODS at 1.6 days per month overall (1.7 days IC vs. 1.3 days OOC). Legal guardianship, with few placements (n=5,260), also showed a similar pattern with 1.7 days overall (1.8 IC vs. 1.3 OOC). Placements with the two largest populations, and the greatest variation between IC and OOC, were chosen to examine a third level of the classification tree.

The best predictor for AMD of MHODS for the subpopulation of children placed in kinship foster care was whether the child in placement was receiving medication support services. (Note: MHODS does not count visits of medication support services toward MHODS.). Differences in AMD of MHODS between children placed IC vs. OOC was greater for placements with children on medication support (3.0 days IC vs. 2.4 days OOC) than those for placements with children who were not on medication support (1.3 days IC vs. 1.0 days OOC).

The best predictor for AMD of MHODS for the subpopulation of children placed in congregate care was IC vs. OOC placement. Over any other of the remaining 30 predictors for the model, IC vs. OOC placement was the best predictor of level of service for these children. For children placed in-county, the AMD of service was 6.8 days, compared to 4.2 days of service for children placed out-of-county.



# Dendrogram 2.1: Average Monthly Days of MHODS During Placements in Fiscal Year 2008/09 Question 2 First Level of Classification Tree



# Dendrogram 2.2: Average Monthly Days of MHODS During Placements in Fiscal Year 2008/09



# CONCLUSIONS

Appendices A and B contain Question 1 and 2 results by factors included in the model. Appendices C and D contain Question 1 and 2 results by county.

Overall, 34.7% of the placements in this report included at least one mental health service. In-county foster youth placements received greater access to care than out-of-county youth placements. Differences between in- and out-of-county placements varied from about 10% (Question 1) to 15% (Question 2) less access for out-of-county foster youth placements on average statewide. If out-of-county placements had received equal access to care during the study period, between 1,183 and 1,756 more out-of-county placements would have received at least one mental health service.

Differences existed in child welfare and mental health characteristics between in- and out-of-county children in placements that tend to reflect greater service needs for out-of-county foster youth. On average, out-of-county placements served children that were older, in care longer, had more care episodes and placements, were less likely be in a foster family home or guardian home, more likely to be in a group home, and much more likely to be supervised by probation than child welfare.

There is wide variation among California counties in both the proportion of children served and in the difference between in- and out-of-county placements regarding service. Data mining techniques also revealed large differences associated with child age and placement characteristics. Controlling for other factors, the age of a child in placement was the strongest predictor of service receipt, and approximately half of placements of children 11-15 years of age included at least one mental health service. This conclusion was true whether or not children were placed in- or out-of-county.

For children who did receive some service during the study period, and who were in placement during the study year, out-of-county placements overall both received less care and less intensive treatment, on average, than what was provided in in-county placements. As compared with in-county placements, youth in out-of-county placements were less likely to receive services at any age, and received lower intensity services at all ages except 1 to 2 years. Although more likely to be in a group home, they were 21% less likely to receive any care there. For those that did receive care, they received 38% fewer days of service per month. Out-of county placements, as compared to in-county placements, were also characterized by the following: more than twice as likely to be probation supervised; half as likely to receive any mental health service; and when served, received approximately half as many days of service. Finally, out-of-county placements received 10% to 30% fewer days of service in every category of mental health disorder reported.

These data suggest that many children placed in foster care in California do receive mental health services. Whether a child is placed in- or out-of-county is not the single most important factor driving service receipt. However, there are systemic differences in access to care for the two different placements. In particular, data mining revealed the following regarding placements with services: whether a congregate care placement was in-county or out-of-county was a strong predictor of the amount of service a child received, with 6.8 days per month in-county vs. 4.2 days per month out-of-county.

There are a number of limitations to this report.

 While the foster care data extracted from CWS/CMS for the study period are generally assumed to be reasonably accurate, the DMH-CSI system relies on monthly reporting from counties to DMH, and a review of the data in Appendix A suggests that there may be reporting issues in some counties. 2) Children who appear to receive no services or minimal mental health services in the database used for this report may be receiving services other than those reported here.

This undertaking was significant in that it is the first time that the statewide DMH and DSS databases have been linked in this manner., As such, this database linking represents a major milestone in achieving the CWC Data Committee's goal of sharing and linking data related to children in the Child Welfare System.

The following key factors led to the success of the data linkage project:

- Database specialists, with intimate knowledge of each database, had previously cleaned and organized the reported data. In the case of the DMH-CSI database, this project represents the first analysis to use a universal identifier for client records across counties. In the case of DSS-PLC, CSSR had created cleaned datasets for previous projects;
- 2) Before linkage, database specialists for each department database prepared a project-specific, cleaned, and concise dataset from their own respective database. The DMH-CSI and the DSS-PLC datasets contained one record per analysis unit (placement) with all properly calculated category groupings for each variable to be analyzed. The linkage proceeded using the prepared datasets, with the goal of creating one final linked dataset. As a result, no one needed to be trained on a database with which they were unfamiliar in order for the project to be completed;
- 3) Database specialists were included as collaborators in the study such that analytical solutions could address some subject matter experts' concerns;
- 4) An intermediary project coordinator from neither department was able to provide objective insight to address concerns from each department and keep the project moving forward passed potential hurdles.

Future studies will build upon the successful collaborative framework developed through this project.

# APPENDIX A: PERCENT SERVED BY QUESTION 1 MODEL FACTORS

		COUNT	Y OF PLAC	EMENT		COUNT	Y OF PLAC	EMENT
			Out-of-				Out-of-	
	ALL	In-County	County	Unknown	ALL	In-County	County	Unknown
	Total N	Total N	Total N	Total N	% Served	% Served	% Served	% Served
All	173,965	132,888	31,969	9,108	34.7	36.1	32.4	20.9
PLACEMENT DAYS DURING ANALYSIS								
PERIOD								
1-14 Days	26,561	21,756	3,752	1,053	17.6	17.7	18.2	15.0
15-30 Days	19,193	15,068	3,252	873	27.5	27.8	27.2	22.8
1-6 Months	71,551	53,849	13,573	4,129	36.7	38.8	32.1	24.8
> 6 Months	56,660	42,215	11,392	3,053	42.5	45.3	38.9	17.2
SHORT PLACEMENT TIME (<=14 Days)								
Νο	147,404	111,132	28,217	8,055	37.7	39.8	34.3	21.7
Yes	26,561	21,756	3,752	1,053	17.6	17.7	18.2	15.0
PLACEMENT DAYS DURING ANALYSIS								
PERIOD								
Less than 1 Year	13,746	12,114	1,519	113	8.6	8.7	7.9	2.7
1 to 2 Years	21,765	17,923	3,321	521	10.5	11.1	8.6	1.3
3 to 5 Years	23,834	19,225	4,002	607	25.9	27.3	22.3	5.8
6 to 10 Years	32,573	25,720	5,880	973	43.1	45.5	38.6	7.5
11 to 15 Years	48,313	35,286	10,065	2,962	48.3	51.7	43.1	25.7
16 to 17 Years	29,610	19,665	6,242	3,703	41.1	45.3	36.2	27.0
18+ Years	4,124	2,955	940	229	26.2	29.0	21.0	12.2
RACE								
Missing	305	101	22	182	22.3	19.8	9.1	25.3
Black	44,259	33,125	8,689	2,445	38.8	40.6	36.9	22.4
White	42,967	31,890	8,316	2,761	34.2	35.7	33.6	19.2
Hispanic	79,523	62,623	13,538	3,362	32.7	34.2	28.9	21.2
Asian/Pacific Islander	4,796	3,625	932	239	33.5	34.6	33.2	16.7
Native American	2,115	1,524	472	119	33.0	35.2	28.6	23.5
GENDER								
Female	84,762	66,671	15,199	2,892	34.7	35.8	33.0	18.2
Male	89,184	66,206	16,768	6,210	34.6	36.5	31.9	22.2
Unknown	19	11	2	6	36.8	54.5	0.0	16.7
EPISODE COUNTER								
First	126,367	97,832	21,901	6,634	31.7	33.1	29.5	19.7
Second	35,111	26,116	7,246	1,749	41.3	43.7	37.2	22.6
Three or More	12,487	8,940	2,822	725	45.4	47.7	42.9	27.9
PLACEMENT COUNTER								
First	63,353	51,875	7,710	3,768	28.4	28.6	27.4	28.1
Two - Four	77,554	57,972	15,311	4,271	33.7	36.2	28.7	17.0
Five or More	33,058	23,041	8,948	1,069	48.9	52.9	43.1	11.3
FIRST TIME IN FOSTER CARE								
Νο	126,848	93,678	26,808	6,362	37.9	40.5	34.0	17.8
Yes	47,117	39,210	5,161	2,746	25.8	25.9	24.3	28.1

		COUNT	Y OF PLAC	EMENT		COUNT	Y OF PLAC	EMENT
			Out-of-				Out-of-	
	ALL	In-County	County	Unknown	ALL	In-County	County	Unknown
	Total N	Total N	Total N	Total N	% Served	% Served	% Served	% Served
All	173,965	132,888	31,969	9,108	34.7	36.1	32.4	20.9
REMOVAL REASON								
Neglect	130,999	103,627	24,301	3,071	32.7	33.7	31.5	6.4
Physical Abuse	16,402	13,303	2,814	285	39.3	40.6	36.6	5.6
Sexual Abuse	5,118	4,106	945	67	44.9	47.0	38.6	3.0
Other	19,672	10,415	3,035	5,622	40.3	48.2	33.7	30.0
	1,774	1,437	274	63	47.0	52.5	32.1	3.2
	10 100	7 100	0.056	774	10.0	15.0	10.0	1.0
Fie Adoptive	10,132	23 713	2,200	2 458	30.4	10.0	27.0	1.9
Liconsod Eostor Eamily Homo	19 582	18 610	9,013 873	2,430	29.7	20.8	27.0	28.3
Easter Home Cortified by Easter Family	10,002	10,010	070		20.1	20.0	21.0	20.0
Agency	55.771	43.623	11.901	247	34.7	35.0	33.7	32.4
Court Specified Home	768	304	83	381	20.1	41.1	16.9	3.9
Congregate Care	30,943	19,610	6,370	4,963	52.5	59.8	47.2	30.9
Legal guardian	11,584	9,925	1,473	186	31.0	31.9	27.8	8.6
Other	1	1	0	0	0.0	0.0	0.0	0.0
TOTAL PLACEMENT LENGTH UP TO								
JUNE 30, 2009								
1-14 Days	22,868	18,953	3,052	863	17.9	17.8	19.7	15.5
15-30 Days	15,939	12,661	2,618	660	26.9	26.9	27.5	24.7
1-6 Months	58,010	44,099	10,643	3,268	37.5	39.3	33.3	27.2
> 6 Months	77,148	57,175	15,656	4,317	39.1	41.9	35.1	16.7
SHORT STAY FLAG								
No	147,404	111,132	28,217	8,055	37.7	39.8	34.3	21.7
Yes	26,561	21,756	3,752	1,053	17.6	17.7	18.2	15.0
TIME IN FOSTER CARE EPISODE								
BEFORE ANALYSIS PERIOD								
< 1 Month	46,705	40,815	5,258	632	28.0	27.7	29.6	33.7
1 - 6 Months	28,750	21,890	4,560	2,300	37.0	39.2	30.7	29.0
6 Months to 2 Years	45,783	33,502	8,674	3,607	34.7	37.1	30.6	22.4
	52,727	36,681	13,477	2,569	39.2	42.8	35.2	8.4
	100.000	100.000	0	0	26.4	26.4		0.0
In-County Out of County Adjacent	10 062	132,888	10.062	0	30.1	30.1	0.0	0.0
Out-of-County Nonadiacent	12 007	0	12 007	0	30.0	0.0	30.0	0.0
Unknown	9 108	0	12,007	9 108	20.9	0.0	0.0	20.9
PLACEMENT END REASON	0,100	0	•	0,100	20.0	0.0	0.0	20.0
Still in Placement	21.092	15,569	4 278	1,245	26.5	29.1	22.7	5.8
Reunification linked	33,052	26,812	4,634	1,606	31.6	32.3	29.8	26.3
Other Permanency Linked	40,610	31,729	7,215	1,666	27.8	29.4	25.5	8.7
Emancipation/Aged Out	7,768	5,603	1,622	543	31.8	34.1	27.4	20.3
Behavioral Factors	36,376	25,677	7,656	3,043	43.9	46.0	42.6	29.0
Stressful Moves	2,487	1,943	515	29	44.3	42.7	50.1	44.8
Other Moves	32,580	25,555	6,049	976	41.2	42.9	36.4	26.7
AGENCY								
Child Welfare	162,327	129,119	29,576	3,632	34.1	35.3	32.3	6.0
Probation	11,568	3,716	2,381	5,471	42.3	64.9	33.3	30.8
Other	70	53	12	5	24.3	28.3	0.0	40.0
PLACEMENT SPAN								
Started and ended in FY2008/09	64,715	51,189	10,467	3,059	31.8	32.1	31.7	27.3
Started before and ended in FY2008/09	45,764	33,928	9,165	2,671	33.3	35.7	29.0	17.1
Started in and ended after FY2008/09	40,131	30,210	7,620	2,301	37.4	39.3	34.3	21.7
Started before and ended after FY2008/09	23,355	17,561	4,717	1,077	40.7	43.3	37.7	10.3

# APPENDIX B: AMD OF MHODS BY QUESTION 2 MODEL FACTORS

		COUNT	Y OF PLAC	EMENT		COUNT	Y OF PLAC	EMENT
			Out-of-				Out-of-	
	ALL	In-County	County	Unknown	ALL	In-County	County	Unknown
	Total N	Total N	Total N	Total N	AMD	AMD	AMD	AMD
All	100,826	76,068	19,198	5,560	2.8	2.9	2.3	1.8
PLACEMENT DAYS DURING ANALYSIS								
PERIOD								
1-14 Days	15,092	11,849	2,431	812	3.3	3.5	3.0	1.9
15-30 Days	11,134	8,429	2,064	641	3.0	3.1	2.5	1.9
1-6 Months	42,818	31,743	8,342	2,733	2.8	3.0	2.3	1.9
> 6 Months	31,782	24,047	6,361	1,374	2.4	2.5	2.1	1.6
SHORT PLACEMENT TIME (<=14 Days)								
Νο	85,734	64,219	16,767	4,748	2.7	2.8	2.3	1.8
Yes	15,092	11,849	2,431	812	3.3	3.5	3.0	1.9
PLACEMENT DAYS DURING ANALYSIS								
PERIOD								
Less than 1 Year	2,253	1,977	267	9	0.8	0.9	0.7	0.2
1 to 2 Years	5,024	4,255	706	63	0.9	0.9	0.9	0.0
3 to 5 Years	10,734	8,939	1,678	117	1.6	1.7	1.2	0.4
6 to 10 Years	21,530	17,350	3,819	361	2.5	2.6	1.9	0.4
11 to 15 Years	36,770	27,073	7,615	2,082	3.4	3.7	2.8	1.9
16 to 17 Years	22,244	14,764	4,653	2,827	3.3	3.7	2.8	2.1
18+ Years	2,271	1,710	460	101	2.2	2.4	1.9	0.9
RACE								
Missing	183	42	10	131	2.8	4.2	1.1	2.5
Black	28,176	20,896	5,673	1,607	3.0	3.2	2.7	2.0
White	24,876	18,156	5,153	1,567	2.8	3.0	2.3	1.8
Hispanic	43,711	34,174	7,512	2,025	2.6	2.8	2.1	1.8
Asian/Pacific Islander	2,727	1,985	575	167	2.7	2.9	2.5	1.4
Native American	1,153	815	275	63	3.0	3.5	2.0	1.9
GENDER								
Female	48,305	38,000	8,874	1,431	2.8	2.8	2.6	1.7
Male	52,508	38,060	10,323	4,125	2.8	3.1	2.1	1.9
Unknown	13	8	1	4	0.6	0.9	0.0	0.2
EPISODE COUNTER								
First	67,064	51,216	11,974	3,874	2.6	2.8	2.3	1.8
Second	24,200	17,973	5,050	1,177	2.9	3.2	2.3	1.7
Three or More	9,562	6,879	2,174	509	3.3	3.5	2.8	2.2
PLACEMENT COUNTER								
First	30,225	23,685	3,974	2,566	2.9	2.9	2.7	2.4
Two - Four	44,092	33,399	8,307	2,386	2.3	2.5	1.9	1.5
Five or More	26,509	18,984	6,917	608	3.4	3.8	2.7	0.8
FIRST TIME IN FOSTER CARE								
No	80,445	59,902	16,799	3,744	2.8	3.0	2.3	1.5
Yes	20,381	16,166	2,399	1,816	2.8	2.8	2.7	2.6

		COUNT	Y OF PLAC	EMENT		COUNT	Y OF PLAC	EMENT
			Out-of-				Out-of-	
	ALL	In-County	County	Unknown	ALL	In-County	County	Unknown
	Total N	Total N	Total N	Total N	AMD	AMD	AMD	AMD
All	100,826	76,068	19,198	5,560	2.8	2.9	2.3	1.8
REMOVAL REASON								
Neglect	70,685	56,048	13,764	873	2.5	2.6	2.1	0.4
Physical Abuse	10,333	8,448	1,779	106	2.9	3.1	2.5	0.5
Sexual Abuse	3,640	2,979	635	26	3.3	3.4	2.6	0.0
Other	14,979	7,566	2,865	4,548	3.9	5.1	3.5	2.2
Missing	1,189	1,027	155	7	3.3	3.5	1.6	0.1
PLACEMENT TYPE								
Pre Adoptive	3,644	2,760	737	147	1.1	1.3	0.8	0.2
Kinship Foster Care	22,551	17,383	4,359	809	1.6	1.7	1.3	0.5
Licensed Foster Family Home	9,360	8,859	444	57	2.3	2.3	2.3	2.2
Foster Home Certified by Foster Family	· · ·							
Agency	33,026	25,573	7,282	171	1.9	1.9	1.8	2.0
Court Specified Home	429	193	44	192	1.7	3.3	1.9	0.1
Congregate Care	26,556	16,732	5,683	4,141	5.5	6.8	4.2	2.2
Legal guardian	5,260	4,568	649	43	1.7	1.8	1.3	0.5
TOTAL PLACEMENT LENGTH UP TO	,							
JUNE 30, 2009								
1-14 Davs	12.902	10.173	2.027	702	3.4	3.6	3.1	1.9
15-30 Davs	9,155	6,944	1,695	516	2.9	3.1	2.6	1.9
1-6 Months	35.603	26.417	6.834	2.352	2.9	3.1	2.4	2.0
> 6 Months	43,166	32,534	8,642	1,990	2.5	2.6	2.1	1.7
SHORT STAY FLAG	-,	- ,	- , -	,				
No	85 734	64 219	16 767	4 748	27	28	23	18
Yes	15.092	11.849	2.431	812	3.3	3.5	3.0	1.9
TIME IN FOSTER CARE EPISODE	,	,	_,					
BEFORE ANALYSIS PERIOD								
<pre>&lt; 1 Month</pre>	21.423	18.216	2.752	455	2.9	2.9	2.7	2.5
1 - 6 Months	17,654	13,000	2,850	1,804	2.8	3.0	2.3	2.2
6 Months to 2 Years	28,238	20,620	5,222	2,396	2.6	2.8	2.1	1.8
> 2 Years	33,511	24,232	8,374	905	2.9	3.1	2.4	0.9
PLACEMENT COUNTY INDICATOR	,	,	,					
In-County	76.068	76.068	0	0	2.9	2.9	0.0	0.0
Out-of-County, Adiacent	12,234	0	12,234	0	2.3	0.0	2.3	0.0
Out-of-County, Nonadjacent	6,964	0	6,964	0	2.4	0.0	2.4	0.0
Unknown	5,560	0	0	5,560	1.8	0.0	0.0	1.8
PLACEMENT END REASON								
Still in Placement	9,317	7,185	1,825	307	1.8	2.0	1.5	0.6
Reunification linked	16,735	13,038	2,547	1,150	2.8	2.9	2.6	2.3
Other Permanency Linked	18,647	14,764	3,290	593	1.8	1.9	1.4	0.9
Emancipation/Aged Out	4,235	3,122	843	270	2.2	2.4	1.7	1.7
Behavioral Factors	28,460	19,718	6,184	2,558	3.2	3.4	2.8	2.0
Stressful Moves	1,638	1,238	377	23	3.5	3.4	3.9	1.0
Other Moves	21,794	17,003	4,132	659	3.5	3.8	2.6	1.9
AGENCY								
Child Welfare	90,667	72,516	17,097	1,054	2.6	2.7	2.2	0.3
Probation	10,135	3,532	2,100	4,503	4.3	7.2	3.9	2.2
Other	24	20	1	3	5.5	6.1	0.0	3.1
PLACEMENT SPAN								
Started and ended in FY2008/09	39,062	29,820	6,913	2,329	3.1	3.3	2.6	2.0
Started before and ended in FY2008/09	26,584	19,912	5,244	1,428	2.7	2.8	2.2	1.8
Started in and ended after FY2008/09	22,936	16,800	4,602	1,534	2.7	2.9	2.3	1.6
Started before and ended after FY2008/09	12,244	9,536	2,439	269	2.2	2.3	1.9	1.5
				-				

		COUNT	Y OF PLAC	EMENT		COUNT	Y OF PLAC	EMENT
			Out-of-				Out-of-	
	ALL	In-County	County	Unknown	ALL	In-County	County	Unknown
	Total N	Total N	Total N	Total N	AMD	AMD	AMD	AMD
All	100,826	76,068	19,198	5,560	2.8	2.9	2.3	1.8
ANY PREVIOUS MHODS TREATMENT								
Νο	15,960	13,062	2,462	436	1.3	1.3	0.9	1.4
Yes	84,866	63,006	16,736	5,124	3.1	3.3	2.6	1.9
PSYCHOTIC DISORDERS								
Νο	97,898	73,973	18,566	5,359	2.7	2.8	2.3	1.8
Yes	2,928	2,095	632	201	6.3	7.0	5.0	3.2
BIPOLAR DISORDER								
Νο	84,519	64,429	15,673	4,417	2.3	2.4	1.9	1.5
Yes	16,307	11,639	3,525	1,143	5.4	5.9	4.4	3.1
ANXIETY DISORDER								
No	93,005	70,104	17,674	5,227	2.7	2.9	2.3	1.8
Yes	7,821	5,964	1,524	333	3.5	3.8	2.9	2.1
DEPRESSIVE DISORDER								
No	69,512	53,003	12,845	3,664	2.2	2.4	1.8	1.3
Yes	31,314	23,065	6,353	1,896	4.1	4.3	3.5	2.9
SUBSTANCE-RELATED DISORDER								
No	92,298	70,609	17,446	4,243	2.6	2.7	2.1	1.6
Yes	8,528	5,459	1,752	1,317	4.9	5.6	4.6	2.7
ADJUSTMENT DISORDER								
No	59,142	43,772	11,337	4,033	2.7	2.9	2.3	1.9
Yes	41,684	32,296	7,861	1,527	2.9	3.0	2.4	1.8
ADHD	70.040	00.075	44.440	4 000	0.5		0.4	4 7
NO	79,613	60,875	14,440	4,298	2.5	2.6	2.1	1.7
	21,213	15,193	4,758	1,202	3.9	4.3	3.0	2.4
	00 544	F4 070	40.004	0.540	0.0	0.0	4.0	1.0
NO	66,544	51,673	12,331	2,540	2.2	2.3	1.8	1.2
	34,202	24,395	0,007	3,020	4.0	4.4	3.3	2.4
POST TRAUMATIC STRESS DISORDER	00.000	00.000	44 700	4.074	0.5	0.7	4.0	4 7
NO	82,882	03,220	14,782	4,874	2.5	2.1	1.9	1.7
	17,944	12,042	4,410	000	4.1	4.3	3.0	2.0
DIAGNOSED IN CHILDHOOD								
Νο	67,016	49,121	13,316	4,579	2.6	2.8	2.2	1.9
Yes	33,810	26,947	5,882	981	3.1	3.2	2.6	1.7
OTHER DISORDERS								
No	92,273	70,039	17,359	4,875	2.6	2.7	2.1	1.8
Yes	8,553	6,029	1,839	685	5.0	5.5	4.2	2.5
TRAUMA EVENT								
Νο	59,526	46,768	9,739	3,019	2.5	2.7	1.9	1.5
Yes	41,300	29,300	9,459	2,541	3.2	3.4	2.8	2.3
SUBSTANCE ABUSE								
Νο	89,516	69,461	16,673	3,382	2.6	2.7	2.2	1.4
Yes	11,310	6,607	2,525	2,178	4.2	5.1	3.4	2.5
MEDICATION SUPPORT FOR MENTAL								
HEALTH						_		
NO	60,460	46,524	11,254	2,682	1.6	1.7	1.4	0.9
Yes	40,366	29,544	7,944	2,878	4.5	4.9	3.7	2.8

# APPENDIX C: COUNTY MEASURES BY COUNTY OF ORIGIN

### **COUNTY OF ORIGIN - % SERVED**

(NOTE: COUNTIES ARE INCLUDED INDIVIDUALLY IN THE ANALYSIS, UNLESS NOTED OTHERWISE. COUNTIES ARE DISPLAYED IN QUINTILE GROUPS FOR EASE OF READING.)

% SERVED\* TOTAL PLACED IN- PLACED OUT-TOTAL PLACEMENTS COUNTY NAME PLACEMENTS SENT OOC ALL COUNTY OF-COUNTY QUINTILE Alameda 5.264 56.6 59.2 55.6 2,418 48 Amador 106 18.9 28.6 8.3 <u>1,935</u> 353 Butte 25.6 26.7 23.2 2 202 68 28.2 25.6 33.8 2 Calaveras Colusa 94 65 25.5 20.7 27.7 2 3,016 775 39.7 40.3 39.7 Contra Costa 4 Del Norte 267 53 24.0 27.0 17.0 2 276 El Dorado 882 32.3 35.0 29.0 3 5,824 589 33.1 33.4 32.4 Fresno 3 88 266 29.8 227 Glenn 222 2 Humboldt 578 61 30.8 31.0 34.4 3 Imperial 1,135 234 16.8 14.2 27.8 1 17 41.4 60.0 35.3 29 5 Inyo 6,203 392 16.9 16.7 22.2 Kern 1 17.8 17.0 Kings 827 263 20.5 1 Lake 462 154 34.0 39.5 24.0 3 183 61 40.4 43.2 37.7 4 Lassen Los Angeles 54,024 8,108 39.4 42.0 29.0 4 32.3 33.1 Madera 684 301 31.6 3 Marin 160 30 25.0 28.0 16.7 2 94 34 Mariposa 35.1 38.2 294 4 Mendocino 750 201 41.5 43.0 39.8 5 1,705 7.2 226 Merced 349 10.3 1 Modoc 37 10 35.1 40.0 30.0 4 92.3 Mono 22 9 72.7 44.4 5 946 193 62.1 Monterey 60.5 59.6 5 254 68 Napa 32.3 33.1 33.8 3 Nevada 163 50 31.9 34.5 26.0 3 Orange 7,571 1,725 46.6 50.0 38.9 5 330 28.3 29.6 27.0 863 Placer 2 Plumas 166 59 38.0 37.5 40.7 4 11,375 2,013 Riverside 24.6 24.3 28.7 11,602 2,154 34.0 35.6 29.2 4 Sacramento 165 12.9 132 317 127 San Benito 1 9,041 2,056 28.9 27.9 35.1 San Bernardino 2 13,480 830 38.3 40.3 29.8 San Diego 4 3,261 1,831 39.7 45.3 37.4 4 San Francisco San Joaquin 3,193 564 25.6 27.1 20.2 2 1,017 206 44.7 49.0 31.6 San Luis Obispo 5 San Mateo 837 314 53.5 58.3 49.7 5 Santa Barbara 1,676 332 27.6 26.2 33.4 2 Santa Clara 4,493 1,076 15.1 15.3 15.7 1 766 134 56.7 60.0 47.8 Santa Cruz Shasta 1,565 268 29.3 29.1 33.2 3 30 27 40.0 Sierra 0.0 44.4 4 442 116 36.2 41.5 24.1 4 Siskiyou 1,000 208 32.3 33.4 30.3 Solano 3 1,152 240 31.2 31.5 31.7 Sonoma 3 1,396 284 39.8 40.3 39.4 Stanislaus 4 16 75.0 State (primarily adoptions) 16 n/a n/a 5 Sutter 370 193 21.6 26.1 19.2 1 Tehama 595 153 23.7 22.8 26.8 2 Trinity 92 59 42.4 24.2 52.5 5 2,391 357 31.1 30.8 35.0 Tulare 3 Tuolumne 264 83 13.3 13.2 14.5 1 Unknown 5,872 30.3 n/a n/a n/a 3 Ventura 1,668 159 40.7 41.4 44.7 5 541 12.9 Yolo 947 17.6 21.6 1 Yuba 439 208 16.6 16.7 16.8 1 173,965 31,969 34.7 36.1 32.4 Total n/a Total (Excluding L.A.) 119,941 23,861 32.5 33.2 32.2 n/a

\* Percent served by unknown in- or out-of-county placement type not shown

COUNTY OF ORIGIN - AVERAGE MONTHLY DAYS OF MHODS\* (NOTE: COUNTES ARE INCLUDED INDIVIDUALLY IN THE ANALYSIS, UNLESS NOTED OTHERWISE. COUNTES ARE DISPLAYED IN QUINTLE GROUPS FOR EASE OF READING.)

	TOTAL PLACEMENTS	TOTAL	AVERAGE DA	YS OF MHODS	PER MONTH*	
COUNTY NAME	FOR KIDS IN CMH	PLACEMENTS SENT OOC	ALL	PLACED IN- COUNTY	PLACED OUT- OF-COUNTY	QUINTILE
Alameda	3,980	1,904	4.7	5.3	4.1	5
Amador	48	19	0.8	1.2	0.1	1
Butte	928	174	1.9	2.1	1.4	2
Calaveras	93	40	1.5	1.8	1.1	2
Colusa	46	36	2.6	1.2	2.9	2
Contra Costa	1,785	525	3.6	3.7	3.3	4
Del Norte	121	33	1.2	1.5	0.4	2
El Dorado	476	157	2.7	3.0	2.3	3
Fresno	3,723	395	1.1	1.1	1.1	3
Glenn	88	32	2.7	3.0	2.2	2
Humboldt	317	42	3.5	3.9	1.1	3
Imperial	394	131	1.5	1.6	1.2	1
Inyo	20	13	1.8	3.7	0.8	5
Kern	1,999	194	1.5	1.4	2.3	1
Kings	293	127	0.8	0.8	0.7	1
Lake	228	82	3.3	3.1	3.7	3
Lassen	117	38	2.3	2.7	1.8	4
Los Angeles	32,846	4,707	3.2	3.4	2.4	4
Madera	347	167	1.8	2.2	1.4	3
Marin	74	10	2.7	2.3	<u>6.1</u>	2
Mariposa	47	17	1.4	1.5	1.5	4
Mendocino	471	144	5.8	7.3	2.6	5
Merced	449	144	1.1	0.5	2.2	1
Modoc	23	6	2.2	2.4	1.6	4
Mono	19	7	5.4	6.3	3.9	5
Monterey	823	174	2.1	2.1	2.1	5
Napa	121	35	2.2	2.4	1.9	3
Nevada	74	25	2.7	3.2	1.5	3
Orange	5,740	1,286	2.6	3.0	1.3	5
Placer	401	148	3.0	2.8	3.5	2
Plumas	97	35	1.8	1.8	1.8	4
Riverside	5,423	1,149	1.2	1.1	1.8	2
Sacramento	0,704	1,275	2.1	2.1	1.9	4
San Dernito	91	1 227	1.1	0.0	1.0	2
San Demardino	4,023	1,227	1.4	1.1	2.2	2
San Erancisco	9,041	1 1 4 1	4.0	4.2	1.9	4
San Joaquin	2,013	1,141	3.3	3.9	2.0	4
San Luis Obispo	652	120	1.3	1.0	3.4	5
San Mateo	665	2/17	4.5	4.0	2.4	5
Santa Barbara	780	180	27	27	2.5	2
Santa Clara	1 283	376	31	38	16	1
Santa Cruz	576	108	5.4	6.0	3.3	5
Shasta	787	173	1.9	20	18	3
Sierra	16	15	2.4	0.0	2.5	4
Siskiyou	261	71	2.4	2.8	1.2	4
Solano	593	132	1.7	1.7	2.0	3
Sonoma	587	134	4.4	4.5	4.1	3
Stanislaus	952	207	1.6	1.6	1.6	4
State	13	13	4.6	n/a	n/a	5
Sutter	163	79	1.2	1.4	1.1	1
Tehama	256	69	1.0	0.9	1.5	2
Trinity	59	46	2.2	1.8	2.3	5
Tulare	1,161	213	2.0	1.8	2.7	3
Tuolumne	98	40	0.7	0.9	0.5	1
Unknown	4,564	n/a	2.2	n/a	n/a	3
Ventura	899	105	5.0	4.9	5.9	5
Yolo	355	238	1.2	0.9	1.4	1
Yuba	182	98	0.7	0.8	0.6	1
Total	100,826	19,198	2.8	2.9	2.3	n/a
Total (Excluding L.A.)	67,980	14,491	2.5	2.7	2.3	n/a

\* Percent served by unknown in- or out-of-county placement type not shown

# APPENDIX D: COUNTY MEASURES BY COUNTY OF PLACEMENT

### COUNTY OF PLACEMENT - % SERVED

(NOTE: COUNTIES ARE INCLUDED INDIVIDUALLY IN THE ANALYSIS, UNLESS NOTED OTHERWISE. COUNTIES ARE DISPLAYED IN QUINTILE GROUPS FOR EASE OF READING.)

		τοτοι				
COUNTY NAME	TOTAL PLACEMENTS	PLACEMENTS FROM OOC	ALL	FROM IN- COUNTY	FROM OUT-OF- COUNTY	QUINTILE
Alameda	3,881	946	53.5	59.2	34.2	E
Alpine	9	8	22.2	0.0	25.0	В
Amador	141	83	27.0	28.6	25.3	В
Butte	1,866	308	26.6	26.7	26.6	С
Calaveras	564	225	14.9	25.6	14.7	А
Colusa	74	43	16.2	20.7	14.0	А
Contra Costa	3,714	1,466	44.7	40.3	52.0	E
Del Norte	230	16	27.8	27.0	18.8	В
El Dorado	978	309	31.1	35.0	26.9	С
Fresno	6,638	1,064	31.6	33.4	27.0	А
Glenn	228	86	26.8	29.8	24.4	С
Humboldt	579	55	30.2	31.0	29.1	D
Imperial	1,004	91	17.4	14.2	34.1	В
Inyo	23	9	47.8	60.0	44.4	D
Kern	6,346	525	18.0	16.7	29.0	В
Kings	758	204	20.7	17.0	30.4	А
Lake	432	127	37.0	39.5	30.7	D
Lassen	218	66	45.4	43.2	48.5	D
Los Angeles	46,999	1.839	41.8	42.0	34.7	D
Madera	765	299	29.7	33.1	291	B
Marin	284	158	44 7	28.0	58 2	E
Mariposa	84	25	34.5	38.2	28.0	A
Mendocino	848	202	39.2	43.0	30.2	E
Merced	2 012	643	12.8	72	24.4	
Modoc	97	28	19.6	40.0	10.7	A
Mono	17	4	70.6	92.3	0.0	F
Monterev	944	192	56.5	62.1	33.3	
Nana	307	132	31.6	33.1	30.0	
Nevada	316	174	48.1	34.5	52.3	F
Orange	7 079	1 212	40.1	50.0	12.0	
Diange	1,019	1,212	20.2	20.6	42.2	C
Plumas	1,000	421	29.2	29.0	30.6	B
Pivorsido	12 995	4 202	26.7	24.2	21.1	
Sacramonto	11 185	4,392	20.7	24.0	30.0	
Saciamenio San Banita	210	1,340	33.1	12.0	30.9	
San Bernardina	12 050	6 202	20.9	13.2	34.4	D
San Diena	13,030	0,302	20.7	21.9	29.3	D
San Francisco	1 740	042	39.1 46.4	40.3	30.0	
San Francisco	1,749	203	40.4	40.0	44.2	C
San Juayum San Luis Obiene	4,118	1,304	29.5	21.1	34.8	
San Luis Obispo	997	107	40.1	49.0	33.1	
Santa Barbarr	1,120	547	4/.1	58.3	39.1	D
Santa Darbara	1,560	137	27.3	26.2	30.7	D
Santa Ciara	3,986	434	10.5	15.3	28.6	U -
Sania Uluz	815	190	54.0	0.00	34.2	E
Sinta	1,/81	366	28.7	29.1	33.3	0
Sielria	8	5	25.0	0.0	40.0	<u> </u>
SISKIYOU	374	45	39.8	41.5	26.7	<u> </u>
Sulano	1,872	1,036	38.8	33.4	44.2	<u> </u>
Sonoma	1,295	256	30.3	31.5	30.5	<u> </u>
Stanislaus	2,353	1,119	32.0	40.3	24.9	B
State	1	n/a	n/a	n/a	n/a	A
Sutter	525	358	20.4	26.1	17.9	A
Tehama	698	244	25.5	22.8	31.1	В
Trinity	47	13	27.7	24.2	30.8	С
Tulare	2,742	471	29.2	30.8	24.8	В
Tuolumne	222	45	14.4	13.2	17.8	А
Unknown	3,514	n/a	4.0	n/a	n/a	А
Ventura	1,979	430	39.0	41.4	30.5	E
Yolo	725	330	22.5	12.9	34.2	D
Yuba	592	362	17.7	16.7	18.5	A
Total (Evoluding LA)	173,965	31,969	34.7	36.1	32.4	n/a
TOTAL LEXCLUDING L.A.I	120,900	30.130	32.0		32.3	11/2

\* Percent served by unknown in- or out-of-county placement type not shown

COUNTY OF PLACEMENT - AVERAGE MONTHLY DAYS OF MHODS\* (NOTE: COUNTIES ARE INCLUDED INDIVIDUALLY IN THE ANALYSIS, UNLESS NOTED OTHERWISE. COUNTIES ARE DISPLAYED IN QUINTILE GROUPS FOR EASE OF READING.)

	TOTAL PLACEMENTS	TOTAL	AVERAGE DA	PER MONTH*		
COUNTY NAME	FOR KIDS IN CMH	PLACEMENTS FROM OOC	ALL	FROM IN- COUNTY	FROM OUT-OF	QUINTILE
Alameda	2,747	526	5.0	5.3	3.2	E
Alpine	4	3	1.4	0.0	1.9	В
Amador	65	35	1.7	1.2	2.1	В
Butte	902	150	2.1	2.1	2.3	С
Calaveras	325	139	0.5	1.8	0.4	A
Colusa	27	17	0.8	1.2	0.6	A
Contra Costa	2,329	1,055	4.0	3.7	4.3	E
Del Norte	105	7	1.7	1.5	1.6	В
El Dorado	551	173	2.2	3.0	1.4	С
Fresno	4,298	659	1.1	1.1	1.1	A
Glenn	108	46	2.1	3.0	1.2	С
Humboldt	299	24	3.8	3.9	2.8	D
Imperial	333	46	1.6	1.6	0.9	В
Inyo	1/	/	3.1	3.7	3.9	D
Kern	2,136	292	1.4	1.4	1.1	В
rvings Lako	270	100	1.1	0.8	1.6	A
Lake	226	/9	2.7	3.1	1.8	
	147	1 101	2.8	2.1	1.8	
Madera	29,193	1,101	3.5 1 4	3.4 30	3.9	R
Marin	182	120	59	2.2	7.8	F
Marinosa	46	16	1.0	15	0.3	A
Mendocino	561	142	4.8	7.3	1.4	F
Merced	644	329	1.0	0.5	1.4	A
Modoc	83	26	0.7	2.4	0.1	A
Mono	12	0	6.3	6.3	0.0	E
Monterey	758	101	2.6	2.1	4.3	D
Napa	155	69	2.0	2.4	1.6	С
Nevada	194	117	7.0	3.2	7.3	E
Orange	5,266	770	3.6	3.0	7.5	D
Placer	510	219	2.1	2.8	1.7	С
Plumas	97	30	1.8	1.8	2.1	В
Riverside	7,127	2,664	1.1	1.1	1.2	A
Sacramento	6,663	787	2.1	2.1	2.0	С
San Benito	135	97	1.5	0.8	1.8	В
San Bernardino	8,087	3,932	1.2	1.1	1.4	В
San Diego	8,930	382	4.1	4.2	3.2	E
San Francisco	1,168	202	4.2	3.9	4.6	E
San Joaquin	2,251	818	1.8	1.6	2.4	С
San Luis Obispo	648	80	4.1	4.6	2.0	E
San Mateo	821	356	3.2	4.0	2.4	<u>D</u>
Santa Darbara	/55	91	2.7	2.7	2.7	
Santa Cruz	1,283	200	3.1	3.8	1.9	F
Shacta	035	224	3.4	0.0	2.1	C
Sierra	933	224	2.2	2.0	3.5	C C
Siskiyou	221	25	2.0	2.0	0.8	
Solano	1 164	663	2.0	1 7	29	C C
Sonoma	701	158	4.0	4.5	30	F
Stanislaus	1.453	604	1.0	1.0	13	В
State	1	n/a	0.0	n/a	n/a	A
Sutter	237	153	1.0	1.4	0.9	A
Tehama	321	132	1.1	0.9	1.3	В
Trinity	19	5	2.3	1.8	2.8	С
Tulare	1,369	239	1.5	1.8	0.8	В
Tuolumne	77	18	0.9	0.9	0.4	А
Unknown	1,230	n/a	0.2	n/a	n/a	A
Ventura	1,090	230	4.2	4.9	2.5	E
Yolo	318	201	3.0	0.9	4.3	D
Yuba	228	142	1.0	0.8	1.1	A
Total	100,826	19,198	2.8	2.9	2.3	n/a
Total (Excluding L.A.)	71,633	18,097	2.5	2.7	2.3	n/a

 Total (Excluding L.A.)
 71,633
 18,097

 \* Percent served by unknown in- or out-of-county placement type not shown