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MR. MARTIN HOSHINO Administrative Director, Judicial Council

## JUDICIAL COUNCIL OF CALIFORNIA

April 26, 2021

Ms. Cara L. Jenkins Legislative Counsel State Capitol, Room 3021 Sacramento, California 95814

Ms. Erika Contreras Secretary of the Senate State Capitol, Room 400 Sacramento, California 95814

Ms. Sue Parker Chief Clerk of the Assembly State Capitol, Room 3196 Sacramento, California 95814

Re: Disposition of Criminal Cases According to the Race and Ethnicity of the Defendant: 2020 Report to the California Legislature as Required by Penal Code Section 1170.45

Dear Ms. Jenkins, Ms. Contreras, and Ms. Parker:

Attached is the Judicial Council report on criminal dispositions according to the race and ethnicity of the defendant, as required under Penal Code section 1170.45. Since 2001, the Judicial Council has produced this report by analyzing the disposition of felony arrests using data provided by the California Department of Justice.

The 2020 report indicates that legal factors such as prior criminal record and features of the current offense are the primary drivers of disposition outcomes. Demographic factors including age, gender, and race/ethnicity also had a significant impact on conviction, level of conviction offense, and sentencing. The largest difference among racial/ethnic groups was in the rate of prison sentencing. Ms. Cara L. Jenkins Ms. Erika Contreras Ms. Sue Parker April 26, 2021 Page 2

If you have any questions related to this report, please contact Ms. Shelley Curran, Director, Criminal Justice Services, at 415-865-4013 or <u>shelley.curran@jud.ca.gov</u>.

Sincerely,

Martin Hoshino Administrative Director Judicial Council

#### MH/SC/sl

Attachment

cc: Eric Dang, Policy Consultant, Office of Senate President pro Tempore Toni G. Atkins Amy Alley, Policy Advisor, Office of Senate President pro Tempore Toni G. Atkins Alf Brandt, Senior Counsel, Office of Assembly Speaker Anthony Rendon Gabrielle Zeps, Policy Consultant, Office of Assembly Speaker Anthony Rendon Anita Lee, Principal Fiscal and Policy Analyst, Legislative Analyst's Office Gabriel Petek, Legislative Analyst, Legislative Analyst's Office Jessie Romine, Budget Analyst, Department of Finance Margie Estrada, Chief Counsel, Senate Judiciary Committee Mary Kennedy, Chief Counsel, Senate Public SafetyCommittee Eric Csizmar, Consultant, Senate Republican Policy Office Morgan Branch, Consultant, Senate Republican Policy Office Alison Merrilees, Chief Counsel, Assembly Judiciary Committee Gregory Pagan, Chief Counsel, Assembly Public Safety Committee Jennifer Kim, Consultant, Assembly Budget Committee Lyndsay Mitchell, Consultant, Assembly Republican Office of Policy & Budget Gary Olson, Consultant, Assembly Republican Office of Policy & Budget Daryl Thomas, Consultant, Assembly Republican Office of Policy & Budget Amy Leach, Minute Clerk, Office of Assembly Chief Clerk Cory T. Jasperson, Director, Governmental Affairs, Judicial Council Jenniffer Herman, Administrative Coordinator, Governmental Affairs, Judicial Council



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MR. MARTIN HOSHINO Administrative Director, Judicial Council

## JUDICIAL COUNCIL OF CALIFORNIA

Report title: Disposition of Criminal Cases According to the Race and Ethnicity of the Defendant: 2020 Report to the California Legislature as Required by Penal Code Section 1170.45

Statutory citation: Penal Code section 1170.45

Date of report: April 23, 2021

The Judicial Council has submitted a report to the Legislature in accordance with Penal Code section 1170.45, which requires an annual report on the statewide disposition of criminal cases according to defendants' race and ethnicity.

The following summary of the report is provided under the requirements of Government Code section 9795.

The Judicial Council's Criminal Justice Services office analyzed felony arrest disposition data from 2019 for this report.

This report presents findings based on four case disposition outcome measures: conviction rates, conviction offense level, prison sentencing rates, and prison sentence length. This report describes patterns seen in these disposition outcomes by race/ethnicity, both overall and when comparing defendants who are similarly situated in terms of available legal and demographic factors.

Although legal factors such as prior criminal record and features of the current offense were found to primarily drive disposition outcomes, race/ethnicity also had a significant impact on conviction, level of conviction offense, and prison sentencing rates, but not prison sentence length. The largest difference was found in sentencing: relative to similarly situated white individuals, on average Hispanic and black individuals were respectively 10 percent and 5.3 percent more likely to receive a prison sentence.

The full report can be accessed here: <u>www.courts.ca.gov/7466.htm</u>.

A printed copy of the report may be obtained by calling 415-865-4559.



# Disposition of Criminal Cases According to the Race and Ethnicity of the Defendant

2020 REPORT TO THE CALIFORNIA LEGISLATURE AS REQUIRED BY PENAL CODE SECTION 1170.45



JUDICIAL COUNCIL OF CALIFORNIA Judicial Council of California Operations and Programs Division Criminal Justice Services 455 Golden Gate Avenue San Francisco, California 94102-3688

This report has been prepared and submitted to the California Legislature as required by Penal Code section 1170.45.

This report is also available on the California Courts website at www.courts.ca.gov.

#### JUDICIAL COUNCIL OF CALIFORNIA

**Hon. Tani G. Cantil-Sakauye** *Chief Justice of California and Chair of the Judicial Council* 

Martin Hoshino Administrative Director Judicial Council

## **OPERATIONS & PROGRAMS DIVISION Robert Oyung** *Chief Operating Officer*

### **CRIMINAL JUSTICE SERVICES Shelley Curran** *Director*

### Sal Lempert

Senior Analyst and Primary Author of Report

### Background

This report examines the disposition of criminal cases across racial/ethnic groups as required by Penal Code section 1170.45.<sup>1</sup> To identify patterns by race/ethnicity, it also analyzes the impact of age, gender, and legal predictors—including criminal history and current charges—on disposition outcomes. This report fulfills the legislative mandate by identifying criminal case disposition outcomes broken out by race/ethnicity based on four distinct outcome measures: conviction rates, level of conviction offense (i.e., felony versus misdemeanor), prison sentencing rates, and length of prison sentences.

## Source of Data

The data used in this report originates from the California Department of Justice (DOJ) Automated Criminal History System (ACHS), which is comprised of information reported to the DOJ by law enforcement agencies, prosecutors, and courts through fingerprint cards (FD-249) and *Adult Disposition of Arrest and Court Action* (JUS 8715) forms, on paper or electronically. The extract used for this report includes all available data on individuals with an adult felony arrest with a final disposition in 2019.<sup>2</sup> The unit of analysis for this report is a unique person and disposition date combination, where the final disposition date was in 2019 and the arrest charges included at least one felony offense. Arrests that occurred before 2019 are included if their final disposition date was in 2019. Data related to prior dispositions was summarized into criminal history indicators.

Figure 1 shows the number of dispositions at distinct case processing stages for all ACHS felony arrest dispositions in 2019. The entry point for cases analyzed in this report is a felony arrest. ACHS recorded 112,481 final dispositions of adult felony arrests in calendar year 2019. Of these cases, 18 percent were dropped by law enforcement or prosecution before being filed with the court. An arresting agency or the prosecutor may dispose of the case for multiple reasons including insufficient or inadmissible evidence, lack of probable cause, or absence of a witness. The remaining 82 percent (91,687) of cases proceeded to a court disposition. The race/ethnicity breakdown for filed cases closely resembles that of all felony arrest cases. This report focuses on felony defendants with final court dispositions; thus, all data and analyses presented in the remainder of the report include only filed cases.<sup>3</sup>

## Analysis

This report presents findings based on four case disposition outcome measures:

- Conviction rates—whether a case results in a conviction or alternatively in a dismissal or acquittal;
- Conviction offense level—whether the case resulted in a felony or misdemeanor conviction;
- Type of sentence—whether the defendant was sentenced to prison or received a lesser sentence; and

<sup>&</sup>lt;sup>1</sup> See Appendix A.

<sup>&</sup>lt;sup>2</sup> The production and publication of this report was delayed due to the COVID-19 pandemic.

<sup>&</sup>lt;sup>3</sup> For summary statistics of felony defendants, see Appendix B, table B1.

• Sentence length—the length of the sentenced prison term for defendants who were sentenced to prison.

For each outcome, descriptive information is presented on patterns seen in the data. In addition to looking at the breakdown of the data by race/ethnicity, several other legal and demographic features that may relate to outcomes are also described and analyzed, including gender, age, prior criminal history, and features of the current offense or offenses. Next, statistical testing is used to determine whether race/ethnicity plays a role in predicting disposition outcomes above and beyond differences across groups in these other relevant legal and demographic factors (see Appendix B for detail).

### Limitations

This report does not address differences in the disposition of misdemeanor arrests by race/ethnicity. The ACHS extract is not a complete record of all felony arrests in the state, but rather the subset of those with final dispositions in 2019 reported to the DOJ—estimated by the Criminal Justice Statistics Center to be about 65 to 75 percent of all felony arrests disposed in an average calendar year, though 2019 was noted to have an unusually low number of felony arrest dispositions reported to the DOJ.

None of the results found in this report can be taken as causal evidence of discrimination or bias at any point in the system. The analyses presented here are correlational, and any correlations between race and outcomes could be the result of more detailed case information not contained in ACHS. Additionally, each outcome discussed is reached through the interaction of many actors and structural elements within the system, and so cannot be attributed to any single actor. It is important to note that approximately 97 percent of convictions are a result of plea bargain agreements in which both the prosecutor and defense agree to the terms prior to judicial action.

#### Figure 1: Numbers of Dispositions at Distinct Case Processing Stages in ACHS Felony Dispositions Extract (2019)



### **Demographics of Felony Defendants**

### Gender

Males made up 81.6 percent of the defendants reported to have received a court disposition in 2019; females made up 18.4 percent. Compared to the state as a whole, in which males are 49.4 percent of the population,<sup>4</sup> felony defendants are disproportionately male (81.6 percent).

## Age

Relative to the state's population, felony defendants are more concentrated between the ages of 20–39 years of age (figure 2).<sup>5</sup> Compared to the California population, defendants ages 20–29 (37.9 percent) and 30–39 (31.8 percent) were arrested for felony-level offenses at disproportionately high rates, those ages 40–49 (15 percent) at slightly lower rates, and those ages 18–19 (5.0 percent) at slightly higher rates.<sup>6</sup> Defendants ages 60 or older (2.3 percent) were arrested at disproportionately lower rates relative to the state's population, and those ages 50–59 (8.1 percent) at somewhat lower rates.<sup>7</sup>



## Race/ethnicity

As with age and gender, the racial and ethnic makeup of felony defendants differs from the general adult population (figure 3). Black individuals make up 20.2 percent of felony defendants and 5.7 percent of the total California adult population. Asian/Pacific Islander (PI)

<sup>&</sup>lt;sup>4</sup> Data on gender/sex is based on the California Department of Finance's total state population estimate for 2019, <u>www.dof.ca.gov/Forecasting/Demographics/Projections/</u>.

<sup>&</sup>lt;sup>5</sup> The ACHS file contains the age at time of arrest for each felony defendant. This information was classified into the following age categories: ages 18–19, 20–29, 30–39, 40–49, 50–59, and 60 or older.

<sup>&</sup>lt;sup>6</sup> ACHS also includes 162 dispositions of individuals under the age of 18 at the time of arrest; due to small numbers, these individuals are not shown in figure 2. These individuals are not included in the later analyses.

<sup>&</sup>lt;sup>7</sup> Age data was drawn from the California Department of Finance's total state population estimate for 2019, <u>www.dof.ca.gov/Forecasting/Demographics/Projections/</u>.

individuals make up 2.9 percent of felony defendants compared to 16 percent of the general adult population. Hispanic individuals make up 42.3 percent of felony defendants and 35.7 percent of the overall state adult population, and white individuals represent 31.5 percent of felony defendants and 39.5 percent of the general population.<sup>8</sup>



#### Prior criminal record

The majority of felony cases in the data set involved defendants who already had a criminal record (figure 4). Around one fifth (20.7 percent) of felony defendants had no identified prior convictions in California<sup>9</sup>. A quarter (25.1 percent) had one or more identified prior prison commitments, 37.1 percent of defendants had a prior criminal history including prior jail but no prior prison commitment, and 17.1 percent of defendants had a prior criminal history not involving incarceration in jail or prison.

<sup>&</sup>lt;sup>8</sup> Race/ethnicity data was drawn from the American Community Survey's adult state population estimate for 2019, <u>https://data.census.gov/</u>. Due to low numbers in American Indian and Other/Unknown categories, these groups were not included in the main analyses.

<sup>&</sup>lt;sup>9</sup> Data are from the CA DOJ and only include California-based criminal history. Defendants may have other prior criminal records not captured in this dataset from other locales, including other states or the federal system.

## Figure 4: Prior Record of Felony Defendants



#### Arrest offense type

The largest proportion of felony defendants in ACHS were arrested for violent crimes (33.9 percent), followed by defendants arrested for property offenses (32.1 percent) and other felony offenses (22 percent) (figure 5). Defendants arrested for drug offenses (12 percent) comprised the smallest group in this data set for calendar year 2019.<sup>10</sup>



<sup>&</sup>lt;sup>10</sup> Categories are based on those used by the Bureau of Justice Statistics. Violent offenses include homicide, rape, robbery, and assault. Property offenses include burglary, theft, forgery, and arson. Drug offenses include all felony-level drug offenses. Other felony offenses include all weapons offenses and a range of other offenses such as vandalism and driving under the influence of drugs or alcohol. For the purposes of creating an offense category, only felony-level arrest offenses were used, and violent offenses were prioritized, followed by property offenses, drug offenses, and other offenses. Later analyses allow for multiple categories of offenses to be accounted for.

## Outcomes

This report presents findings based on four case outcomes:

- Conviction rates—whether a case results in a conviction or alternatively in a dismissal or acquittal;
- Conviction offense level—whether the case resulted in a felony or misdemeanor conviction;
- Type of sentence—whether the defendant was sentenced to prison or received a lesser sentence; and
- Length of sentence—the sentence length for defendants who were sentenced to prison.

The construction of each outcome from the ACHS data set is described briefly below.

## **Conviction Versus Acquittal/Dismissal**

Once a case has been filed with the court, the case may result in either a conviction or alternatively in a dismissal or acquittal.<sup>11</sup> Dismissal and acquittal are combined into a single category in the following analyses.<sup>12</sup> The vast majority of convictions (97 percent for felony cases) are achieved by plea bargaining deals that are negotiated between the prosecution and defense prior to judicial decisionmaking.<sup>13</sup>

## **Felony Versus Misdemeanor Conviction**

Although all arrest charges in the ACHS data set are felony-level arrests, a reduction in charges may occur by plea deal or dismissal of the primary felony charge, resulting in conviction on a secondary misdemeanor charge or an infraction.<sup>14</sup> Overall, felony convictions made up 54.2 percent and misdemeanors 45.8 percent of convictions with a known conviction level.<sup>15</sup> In this report, the term "felony conviction rate" is used to refer to the percentage of defendants whose conviction was for a felony-level offense as opposed to a lesser offense.

<sup>&</sup>lt;sup>11</sup> Cases filed with no known filing offense levels (n = 3,238) were removed for analysis of all outcomes.

<sup>&</sup>lt;sup>12</sup> The small number of cases in this data set resulting solely in an acquittal (n = 232) were combined with the dismissed category because there were too few to analyze acquittals as its own category.

<sup>&</sup>lt;sup>13</sup> The ACHS extract used for this report does not have a data field for whether a case was resolved by plea or by trial, so it is impossible to analyze these outcomes separately. The percentage of convictions achieved by plea deal were calculated from Judicial Council of California, 2020 Court Statistics Report: Statewide Caseload Trends 2009–2010 Through 2018–2019, <u>www.courts.ca.gov/documents/2020-Court-Statistics-Report.pdf</u>. This is comparable to the proportion of convictions achieved by plea found in other states (95 percent of felony convictions; data on all convictions for felony cases not available). Bureau of Justice Statistics, State Court Sentencing of Convicted Felons 2004, <u>www.bjs.gov/content/pub/html/scscf04/tables/scs04401tab.cfm</u>.

<sup>&</sup>lt;sup>14</sup> The small number of cases in this data set resulting solely in an infraction conviction (n = 150) were included in the misdemeanor category because there were too few to analyze infractions as its own category.

<sup>&</sup>lt;sup>15</sup> Convictions with no known conviction offense levels (n = 3,136) were removed for analysis of conviction offense level and sentencing outcomes.

#### **Prison Versus Intermediate Sentence**

Sentencing is the final disposition stage analyzed in this report.<sup>16</sup> This report looks at sentencing through two separate analyses: prison versus intermediate sentencing, and length of sentence for those sentenced to prison. Prison sentences are on average longer, and are considered the more severe sentencing category in this report. All nonprison sentencing options are categorized in this report as "intermediate sentences."<sup>17</sup> Prison sentences that have had the imposition suspended are not counted as prison sentences for the purpose of this analysis.

Because convictions below the felony level are categorically ineligible for prison sentences, analyses of prison versus intermediate sentences are restricted to defendants convicted of a felony. Further restriction to prison-eligible felony crimes is challenging: although criminal justice realignment shifted sentencing such that in some cases sentences that previously would have been served in state prison are now served in county jail, the many exceptions based on criminal history and other factors make it difficult to achieve categorical separation among felonies.<sup>18</sup> Therefore, all felony-level convictions are included in the analyses. The "prison sentence rate" discussed in the following analyses represents the proportion of all felony-level convictions receiving a prison sentence.

#### **Prison Sentence Length**

Sentence length is analyzed only for those sentenced to prison on a felony conviction. Prison sentences that have had the imposition suspended are not counted as prison sentences for the purpose of this analysis. While the other outcomes analyzed in this report are all expressed as rates, sentence length is analyzed and expressed in terms of years sentenced to prison on a continuous scale that includes fractions of years.

## **Observed Disposition Outcomes**

#### **Prior Criminal Record**

Prior criminal record has significant impact on whether a defendant is convicted, receives a felony or misdemeanor conviction, and, if convicted of a felony, receives a prison sentence. Figure 6 arrays each outcome (rows) by prior criminal record, arrest offense, and race/ethnicity (columns). The first column shows that the effect of prior criminal history is consistent for these three outcomes. For example, the conviction rate ranges from a low of 82.2 percent for those with no prior convictions to a high of over 88 percent for those with a prior jail or prison record. Similarly, the share of those convicted of a felony versus a misdemeanor ranges from 45.8 percent for those with no prior convictions to 65.1 percent for those with a prior prison record. The share of convicted felons sentenced to prison was 18.8

<sup>&</sup>lt;sup>16</sup> Plea deals represent approximately 97 percent of convictions in felony cases in California and may impact sentencing outcomes. See footnote 13.

<sup>&</sup>lt;sup>17</sup> Other sentencing options in ACHS include jail, probation, combined probation and jail, and fines.

<sup>&</sup>lt;sup>18</sup> Assem. Bill 109 ([Comm. on Budget]; Stats. 2011, ch. 15).

percent for those without prior convictions and 53.8 percent for those with a prior prison record.

Prior criminal record also impacts sentence length for those sentenced to prison. Those sentenced to prison with no prior convictions received an average sentence length of 11.2 years, while those with priors ranged from 5.5 to 5.9 years sentence on average. While it may seem counterintuitive that individuals with no prior convictions receive longer sentences, these numbers are without controlling for any other variables.

## **Arrest Offense**

Arrest offense type also has significant impact on whether a defendant is convicted, receives a felony or misdemeanor conviction, and, if convicted of a felony, receives a prison sentence. However, the pattern varies based on the outcome. For example, figure 6 (second column) illustrates the percentage of defendants convicted versus dismissed/acquitted by arrest offense type. The highest conviction rates (row 1) are for property offenses (89 percent), and the lowest for drug offenses (83.6 percent). The felony conviction rate (row 2) for violent crime is 53.2 percent, while for drug crimes the felony conviction rate is 55.6 percent and property crimes 59 percent. Prison sentencing rates (row 3) range from 22.7 percent for property and drug crimes to 41.3 percent for violent crimes.

Arrest offense type also impacts sentence length for those sentenced to prison. Violent crimes receive the longest prison terms, 8.6 years on average, while drug crimes (4.8 years) and property crimes (4.2 years) receive shorter average prison terms.

## **Race/Ethnicity**

The percentage of individuals convicted versus dismissed/acquitted by race/ethnicity without taking any other factors into account is also presented in figure 6 (third column). For all racial/ethnic groups, conviction rates are high (83–88 percent). They range from a low of 83.6 percent for the Asian/PI group to a high of 88.8 percent for the Hispanic group. Felony conviction rates range from a low of 46.2 percent for the Asian/PI group to a high of 57.6 percent for the black group. The percentage of individuals who received a sentence to prison as opposed to an intermediate sentence shows that prison sentences were less frequent for white (26.4 percent) and Asian/PI (25.7 percent) groups, and more frequent for black (34.6 percent) and Hispanic (33.7 percent) groups.

Sentence length for individuals sentenced to prison ranged from an average of 5.6 years for white defendants to 6.6 years for black defendants, 6.5 years for Hispanic defendants, and 6.8 years for Asian/PI defendants.

## Figure 6: Observed Outcomes by Prior Criminal History, Arrest Offense Type, and Race/Ethnicity



Note: These graphs show the overall percentages, not controlling for other factors.

## Figure 6 (continued)



## **Outcomes for Similarly Situated Defendants**

The last column in figure 6 illustrates that Hispanic defendants have conviction rates of 88.8 percent, compared to white defendants at 86.2 percent, black defendants at 83.6 percent, and Asian/PI defendants at 84.8 percent. Asian/PI (46.2 percent) have a lower rate of felony convictions relative to white defendants (53.2 percent), Hispanic defendants (54.1 percent), and black defendants (57.6 percent). When convicted of a felony, black (34.6 percent) and Hispanic defendants (33.7 percent) receive prison sentences more often than white (26.4 percent) and Asian/PI defendants (25.7 percent).

When sentenced to prison, white defendants are sentenced to fewer years (5.6) on average than black (6.6), Hispanic (6.5), and Asian/PI (6.8) defendants. However, the differences between racial/ethnic groups in these outcomes are confounded by the differences between groups in criminal history, features of the current offense or offenses, county-specific practices, gender, and age. For racial/ethnic differences in these characteristics, see Appendix B, table B1. The following section controls for these differences in order to compare outcomes for defendants who are similarly situated in terms of age, gender, county, and legal factors available through ACHS.<sup>19</sup>

## **Conviction Rates for Similarly Situated Defendants by Race/Ethnicity**

It is possible to focus on the impact of race/ethnicity in convictions of felony arrests by using statistical methods that control for the confounding effects of other observable differences between groups: age, gender, county, and legal factors. This type of analysis estimates whether white defendants with the same age, gender, county, and legal factors as black, Hispanic, or Asian defendants would have the same conviction rates.

Hispanic defendants were estimated to be on average 1.5 percent (1.015 times) more likely to receive a conviction than white defendants.<sup>20</sup> If the available factors other than race/ethnicity (age, gender, county, and legal factors) accounted for all of the differences in conviction rates, the estimation would be 0 percent instead of 1.5 percent. That is, if race/ethnicity played no role in conviction rates, then both white and Hispanic defendants with otherwise the same characteristics would have the same conviction rate.

Using this same statistical method, black defendants were on average 1.3 percent (0.987 times) less likely to be convicted than white defendants with the same age, gender, county, and legal factors. Asian/PI individuals were on average 1.5 percent (1.015 times) more likely

<sup>&</sup>lt;sup>19</sup> Defendants may not be similarly situated based on other unobserved variables; "similarly situated" is an approximation based on available data.

<sup>&</sup>lt;sup>20</sup> This is expressed as *relative risk* (risk is a technical term that refers to the likelihood of a given outcome such as conviction), indicating that on average the risk of a Hispanic defendant being convicted is 1.015 times the risk of a white defendant being convicted, controlling for legal factors, age, gender, and county. The impact of relative risk on the expected difference in outcome between similarly situated individuals across groups depends on the overall risk of the outcome, among other factors. For example, a 10% difference in relative risk across groups for an outcome with an average risk of 80% would be expected to correspond to an average difference across groups in the approximate range of eight percentage points. However, if the average risk is 20%, the average expected difference across groups would be in the approximate range of two percentage points.

to be convicted than similarly situated whites, though this difference was not statistically significant.

## Felony Versus Misdemeanor Conviction Rate for Similarly Situated Defendants by Race/Ethnicity

The effect of race/ethnicity on felony conviction rate was estimated using the same technique described above. The statistical method estimated that felony conviction was on average 3.1 percent (0.969 times) less likely for black individuals as compared to whites with the same age, gender, county, and legal factors. Hispanic individuals were estimated to be 1 percent (1.01 times) more likely to receive a felony conviction and Asian/PI individuals 3.8 percent (0.962 times) less likely as compared to similarly situated whites. The difference for Hispanic individuals was not statistically significant.

## Sentencing for Similarly Situated Individuals by Race/Ethnicity

Again, using the same technique described above, the statistical method estimated that prison sentencing was on average 10 percent (1.1 times) more likely for Hispanic individuals and 5.3 percent (1.053 times) more likely for black individuals as compared to whites with the same age, gender, county, and legal factors. Asian/PI individuals were estimated to be 2 percent (0.98 times) less likely to receive a prison sentence as compared to whites, but this difference was not statistically significant.

## Prison Sentence Length for Similarly Situated Defendants by Race/Ethnicity

The effect of race/ethnicity on prison sentence length was estimated using a slightly different statistical technique appropriate for the estimation of continuous variables. A statistical test found that adding race as a predictor of sentence length did not improve the predictions. When controlling for age, gender, county, and legal factors, differences in prison sentence lengths across racial groups were not significant.

## **Summary of Findings**

Legal factors such as features of the current offense and the defendant's prior criminal record, as well as jurisdiction, exerted the strongest influence on conviction rate, felony versus misdemeanor conviction, and sentencing to prison.<sup>21</sup> More serious offenses and prior records were both associated with higher conviction rates, more felony versus misdemeanor convictions, and more prison sentences. Legal factors, particularly those related to the current crime, also exerted the strongest influence on prison sentence length.<sup>22</sup>

After accounting for differences in outcomes that can be explained by legal factors such as charge type and criminal history and county variation such as conviction rates and demographics, the study found that defendant characteristics such as race/ethnicity, gender, and age are still significantly associated with rates of conviction, rates of felony versus misdemeanor convictions, and imposition of a prison sentence versus an intermediate sentence. After controlling for legal factors and county, the study found that age and race/ethnicity of the defendant were not significantly associated with prison sentence length, while gender was still significantly associated for this outcome.

Accounting for differences mentioned above in all available legal and demographic factors:

- Relative to white defendants, Hispanic defendants were more likely and black defendants less likely to be convicted rather than be acquitted or have their cases dismissed;
- White defendants were more likely to receive a felony versus a misdemeanor conviction when compared to black and Asian/PI defendants;
- Relative to white individuals, black and Hispanic individuals convicted of a felony were more likely to receive a sentence to prison rather than a lesser sentence; and
- Prison sentence length did not differ significantly between racial groups.

Although a more detailed data set was used, these findings are generally consistent with prior years' reports in that race differences persisted after controlling for all available legal and demographic factors.<sup>23</sup>

<sup>&</sup>lt;sup>21</sup> As determined by a comparison of McFadden pseudo R-squared values, which estimate the relative contribution of each predictor to the overall predictive power of the statistical model. See Appendix B for more detail.

<sup>&</sup>lt;sup>22</sup> As determined by a comparison of R-squared values.

<sup>&</sup>lt;sup>23</sup> See Appendix C for trends over time. See Appendix B for a description of available controls.

## **Appendix A**

Penal Code section 1170.45:

The Judicial Council shall collect data on criminal cases statewide relating to the disposition of those cases according to the race and ethnicity of the defendant, and report annually thereon to the Legislature beginning no later than January 1, 1999. It is the intent of the Legislature to appropriate funds to the Judicial Council for this purpose.

## Appendix B

This appendix contains a table (table B1) of the characteristics of felony defendants in the ACHS database and the regression results referred to in this report. Regression is a statistical process of determining the relationship between an outcome of interest and a set of predictors. The mathematical equation that is used to determine this relationship contains the predictors being examined and is referred to as a "model."

For all outcomes, the prior criminal history items included in the model were:

- Years prior prison;
- Years prior jail;
- Number of prior sentences to probation;
- Number of prior convictions including a violent felony (summary code);
- Number of prior convictions including a violent misdemeanor (summary code);
- Number of prior convictions including a property felony (summary code);
- Number of prior convictions including a property misdemeanor (summary code);
- Number of prior convictions including a drug felony (summary code);
- Number of prior convictions including a drug misdemeanor (summary code);
- Number of prior convictions including another sex felony (summary code);
- Number of prior convictions including another sex misdemeanor (summary code);
- Number of prior convictions including another felony (summary code);
- Number of prior convictions including another misdemeanor (summary code);
- Number of prior convictions including a violent felony (statutory);
- Number of prior convictions including a serious felony (statutory);
- Number of prior convictions including a sexual offense;
- Number of prior convictions including a domestic violence offense;
- Number of prior convictions including a DUI offense;
- Whether the defendant was on probation at the time of the current arrest;
- The highest hierarchy value for any prior conviction offense; and
- Years since the most recent conviction (ceiling, and inverted).

For all outcomes, the demographic and location items included in the model were:

- Age;
- Gender;
- Race; and
- County.

For conviction rate and level of conviction offense, the current offense items included in the model were:

- Whether the filed charges included a violent felony charge (summary code);
- Whether the filed charges included a violent misdemeanor charge (summary code);
- Whether the filed charges included a property felony charge (summary code);
- Whether the filed charges included a property misdemeanor charge (summary code);

- Whether the filed charges included a drug felony charge (summary code);
- Whether the filed charges included a drug misdemeanor charge (summary code);
- Whether the filed charges included another sex felony charge (summary code);
- Whether the filed charges included another sex misdemeanor charge (summary code);
- Whether the filed charges included another felony charge (summary code);
- Whether the filed charges included another misdemeanor charge (summary code);
- Whether the filed charges included a violent felony (statutory);
- Whether the filed charges included a serious felony (statutory);
- Whether the filed charges included a sex offense;
- Whether the filed charges included a domestic violence offense;
- Whether the filed charges included a DUI offense;
- The highest DOJ offense hierarchy value for filed charges (scaled);
- The number of filed felony charges;
- The number of filed misdemeanor charges; and
- The number of arrests involved in the current disposition.

For prison sentencing and prison sentence length, the current offense items included in the model were:

- Whether the convicted charges included a violent felony charge (summary code);
- Whether the convicted charges included a violent misdemeanor charge (summary code);
- Whether the convicted charges included a property felony charge (summary code);
- Whether the convicted charges included a property misdemeanor charge (summary code);
- Whether the convicted charges included a drug felony charge (summary code);
- Whether the convicted charges included a drug misdemeanor charge (summary code);
- Whether the convicted charges included another sex felony charge (summary code);
- Whether the convicted charges included another sex misdemeanor charge (summary code);
- Whether the convicted charges included another felony charge (summary code);
- Whether the convicted charges included another misdemeanor charge (summary code);
- Whether the convicted charges included a violent felony (statutory);
- Whether the convicted charges included a serious felony (statutory);
- Whether the convicted charges included a sex offense;
- Whether the convicted charges included a domestic violence offense;
- Whether the convicted charges included a DUI offense;
- The highest DOJ offense hierarchy value for convicted charges (scaled);
- The number of convicted felony charges;
- The number of convicted misdemeanor charges; and
- The number of arrests involved in the current disposition.

For the three rate outcomes, Poisson regression was used with robust standard errors<sup>24</sup>. Poisson regression is a specific type of regression ideal for estimating relative risk (the ratio of the probability of an outcome for one group over another), and robust standard errors ensure that the significance of the results can be accurately assessed. For prison sentence length, linear regression was used, with robust standard errors.

A likelihood ratio test was used to compare the model strength for each model with and without race/ethnicity. These tests demonstrate that a model that includes race as a predictor is significantly more predictive than a model without race for felony conviction rate and prison sentencing rate.<sup>25</sup> For prison conviction rate and sentence length, the test indicated that the model was not significantly more predictive with race as a predictor.

<sup>&</sup>lt;sup>24</sup> See Zou, G. (2004). A modified poisson regression approach to prospective studies with binary data. *American journal of epidemiology*, *159*(7), 702-706.

 $<sup>^{25}</sup>$  For each of these outcomes p < 0.05, indicating it is unlikely to observe this difference by chance if the two models were equally predictive.

	Total %	Asian/PI %	Black %	Hispanic %	White %
All defendants		3.0	20.6	43.7	32.6
<b>Outcome Variables</b>					
Case Outcome					
Acquittal or Dismissal	13.2	15.2	16.4	11.2	13.8
Conviction	86.8	84.8	83.6	88.8	86.2
Conviction type (among conviction	ıs)				
Misdemeanor	45.8	53.8	42.4	46.0	46.8
Felony	54.2	46.2	57.6	54.0	53.2
Sentence Outcome (among felonie.	s)				
Intermediate Sentence	68.7	74.3	65.4	66.4	73.6
Prison	31.3	25.7	34.6	33.6	26.4
Sentence Length (prison sentences	)				
Average years	6.3	6.8	6.6	6.5	5.6
Situational Variables					
Arrest Offense Type					
Violent	34.5	32.1	42.2	34.8	29.5
Property	32.1	33.1	28.8	30.6	35.9
Drug	11.9	16.3	8.5	11.8	13.9
Other	21.5	18.5	20.5	22.8	20.6
Arrest Offense DOJ Hierarchy*					
Average hierarchy value	0.0595	0.0632	0.0993	0.0588	0.0342
Prior Record					
No prior convictions	20.4	34.4	19.1	21.8	18.1
Prior conviction (no prior jail)	17.2	15.2	14.7	19.8	15.5
Prior jail (no prior prison)	37.4	33.0	33.7	35.7	42.6
Prior prison	24.9	17.5	32.6	22.7	23.8
Defendant Characteristics					
Gender					
Male	81.6	80.3	81.5	84.6	77.8
Female	18.4	19.7	18.5	15.4	22.2
Average Age (years)	33.6	35.5	33.6	31.5	36.0
Number of Cases	85,732 <sup>†</sup>	2,585	17,665	37,504	27,978

## **Table B1: Characteristics of felony defendants**

\* The DOJ produces a hierarchy of criminal codes with values representing the severity of crimes. The variable has been scaled for ease of interpretability so that the overall mean hierarchy value is 0, and the standard deviation is 1. Positive values represent average hierarchy values more severe than the mean. Total average hierarchy is not equal to 0 because the variable was scaled for all dispositions, and this table only includes those with court dispositions.

<sup>†</sup> Excluding those with race other than white, black, Hispanic, or Asian/PI; genders other than male or female; age less than 18; and cases with no known offense level.

## Table B2: Robust Poisson regression predicting conviction versusdismissal/acquittal

Torm	octimato	std orror	n voluo <sup>†</sup>		rolativo risk
				***	
(Intercept)	-0.5134690	0.0154245	0.0000000		0.5984
years_prior_prison	-0.0001910	0.0003491	0.5844212		0.9998
years_prior_jail	0.0000719	0.0000511	0.1595244	***	1.0001
prior_sent_probation_tiag_count	0.0025748	0.0007276	0.0004022		1.0026
prior_conviction_summ_f_violent_flag_count	-0.0082736	0.0033800	0.0143744	*	0.9918
prior_conviction_summ_m_violent_flag_count	0.0002190	0.0013011	0.8663357		1.0002
prior_conviction_summ_t_property_flag_count	-0.0003345	0.0011522	0.7715792	مادماد	0.9997
prior_conviction_summ_m_property_flag_count	0.0037490	0.0014395	0.0092024	**	1.0038
prior_conviction_summ_f_drug_flag_count	0.0004940	0.0013028	0.7045613	dadada	1.0005
prior_conviction_summ_m_drug_flag_count	0.0031866	0.0006520	0.0000010	***	1.0032
prior_conviction_summ_f_other_sex_flag_count	0.0026964	0.0066017	0.6829544		1.0027
prior_conviction_summ_m_other_sex_flag_count	-0.0020642	0.0033804	0.5414325		0.9979
prior_conviction_summ_f_other_flag_count	-0.0014979	0.0020701	0.4693145		0.9985
prior_conviction_summ_m_other_flag_count	-0.0016860	0.0008805	0.0555253		0.9983
prior_conviction_violent_felony_flag_count	0.0029671	0.0065098	0.6485464		1.0030
prior_conviction_serious_felony_flag_count	0.0072387	0.0050358	0.1505923		1.0073
prior_conviction_sex_flag_count	0.0055941	0.0079870	0.4836804		1.0056
prior_conviction_dv_flag_count	0.0054019	0.0018494	0.0034911	**	1.0054
prior_conviction_dui_flag_count	0.0023037	0.0022035	0.2958141		1.0023
on_prob	0.0268182	0.0029048	0.0000000	***	1.0272
prior_max_conv_hier_scaled	0.0022955	0.0083086	0.7823383		1.0023
inv_yrs_since_prior_conv	0.0619016	0.0041115	0.0000000	***	1.0639
court_summ_f_violent_flag	-0.0315312	0.0060362	0.0000002	***	0.9690
court_summ_m_violent_flag	0.0803238	0.0033327	0.0000000	***	1.0836
court_summ_f_property_flag	0.0059323	0.0043582	0.1734574		1.0059
court_summ_m_property_flag	0.0811439	0.0036936	0.0000000	***	1.0845
court_summ_f_drug_flag	-0.0387856	0.0060902	0.0000000	***	0.9620
court_summ_m_drug_flag	0.0155787	0.0034832	0.0000077	***	1.0157
court_summ_f_other_sex_flag	0.0216569	0.0122563	0.0772287		1.0219
court_summ_m_other_sex_flag	0.0401606	0.0119481	0.0007759	***	1.0410
court_summ_f_other_flag	-0.0033902	0.0036654	0.3549948		0.9966
court summ m other flag	0.0953030	0.0030806	0.0000000	***	1.1000
court violent felony flag	-0.0122728	0.0066065	0.0632123		0.9878
court serious felony flag	0.0061116	0.0057019	0.2837812		1.0061
court sex flag	0.0313393	0.0120674	0.0094037	**	1.0318
court dv flag	-0.0355593	0.0048370	0.0000000	***	0.9651
court dui flag	0.1021404	0.0041075	0.0000000	***	1.1075
max court hier scaled	0.5636162	0.0287826	0.0000000	***	1.7570
filed fcharge count	0.0089580	0.0007662	0.0000000	***	1.0090
filed mcharge count	-0.0030322	0.0008770	0.0005454	***	0.9970
combined cycles count	0.0088745	0.0015789	0.0000000	***	1.0089
age	-0.0005206	0.0001545	0.0007536	***	0.9995
genderF	-0.0259504	0.0036857	0.0000000	***	0.9744
raceAsian/PI	0.0150181	0.0084307	0.0748547	_	1.0151
raceBlack	-0.0133756	0.0041791	0.0013713	**	0.9867
raceHispanic	0.0146069	0.0031100	0.0000026	***	1 0147
County fixed effects <sup>‡</sup>	‡	\$10001100	\$.0000020	‡	+

Term	estimate	std.error	p-value <sup>†</sup>	relative_risk

#### n = 85,732

Excluding those with race other than white, black, Hispanic, or Asian/PI; genders other than male or female; age less than 18; and cases with no known filing offense level.

\* p<0.05; \*\* p<0.01; \*\*\* p<0.001

<sup>†</sup> P-values represent the probability that these results could be obtained by chance if that predictor did not have any predictive value. P-values below 0.05 are typically viewed as representing a "significant" result— that the estimate is unlikely to have occurred by chance if there were no true effect.

‡ County included as a categorical variable; individual county fixed effects not shown. Many counties significantly differed; relative risk varied.

## Table B3: Pseudo R-squared results for model predicting conviction versus dismissal/acquittal

Contribution for each variable calculated by taking the McFadden pseudo R-squared value for the full model and subtracting the McFadden pseudo R-squared value for a model without that variable. McFadden pseudo R-squared values are difficult to interpret individually, but the relative values give information about the relative contribution of each predictor to the overall predictive power of the model.



## Table B4: Robust Poisson regression predicting felony versusmisdemeanor conviction

(Intercept)         -4.8859179         0.0572675         0.0000000         ***         0.0987           years_prior_prison         -0.0013299         0.0004777         0.0053664         ***         0.9987           prior_sent_probation_flag_count         0.00055163         0.0016471         0.0084706         0.00987           prior_conviction_summ_f_violent_flag_count         0.0053329         0.0030395         0.073403         1.0053           prior_conviction_summ_m_roperty_flag_count         0.0041807         0.0032566         0.0000029         1.0115           prior_conviction_summ_m_roperty_flag_count         0.00481807         0.0032567         0.00000291         ***         1.0429           prior_conviction_summ_f_other_sex_flag_count         0.0030989         0.0037541         0.11552         1.0047           prior_conviction_summ_f_other_flag_count         0.0030989         0.0037541         0.115528         1.0051           prior_conviction_summ_f_other_flag_count         0.0030989         0.0037541         0.115528         1.0031           prior_conviction_summ_f_other_flag_count         0.0030989         0.0037541         0.115528         1.0039           prior_conviction_summ_f_other_flag_count         0.0249421         0.01037541         0.115524         1.0243           prior_co	Term	estimate	std.error	p-value <sup>†</sup>		relative_risk
years_prior_jrison         -0.0013299         0.0004277         0.000364         ***         0.9997           years_prior_jail         -0.002876         0.0004251         0.4987066         0.9997           prior_sent_probation_flag_count         0.0055163         0.0016473         0.0008121         ***         1.0055           prior_conviction_summ_t_iorenty_flag_count         0.0014521         0.0020855         0.0000000         ***         1.0115           prior_conviction_summ_f_drug_flag_count         0.0048964         0.0024026         0.0000002         ***         0.9911           prior_conviction_summ_f_drug_flag_count         0.0048964         0.0024026         0.0000022         ***         0.9911           prior_conviction_summ_f_other_sex_flag_count         0.0049900         0.001897         0.0000022         ***         0.9911           prior_conviction_summother_flag_count         0.0059084         0.0037541         0.1155228         1.0059           prior_conviction_seric_floor_flag_count         0.0043581         0.008910         0.6244009         1.0244           prior_conviction_serin_floor_flag_count         0.0213280         0.0013561         0.02777         1.9214           prior_conviction_sering         flag_count         0.024381         0.00022         ***	(Intercept)	-4.8859179	0.0572675	0.0000000	***	0.0076
years_prior_jail         -0.0002876         0.0004251         0.4987066         0.9997           prior_sent_probation_flag_count         0.0055163         0.0016473         0.0008121         ****           prior_conviction_summ_t_violent_flag_count         0.0053329         0.0030743         0.0001021         0.1413949         1.0031           prior_conviction_summ_t_property_flag_count         0.014807         0.002355         0.000000         ****         1.0082           prior_conviction_summ_t_drug_flag_count         0.00481807         0.0032526         0.0118993         *         1.0082           prior_conviction_summ_t_drug_flag_count         0.0049944         0.0032565         0.599793         1.0439           prior_conviction_summ_t_other_sex_flag_count         0.003989         0.0037541         0.1552303         *         1.0339           prior_conviction_summ_ther_flag_count         0.0059092         0.003741         0.1155228         1.09941           prior_conviction_sex_flag_count         0.0024458         0.0038716         *         0.9941           prior_conviction_sex_flag_count         0.0024581         0.000001         *         1.0234           prior_conviction_sex_flag_count         0.0247346         0.000741         0.17257         1.0214           prior_convictio	years_prior_prison	-0.0013299	0.0004777	0.0053664	**	0.9987
prior_sent_probation_flag_count         0.0055163         0.0016173         0.0008121         ***         1.0055           prior_conviction_summ_f_violent_flag_count         0.005329         0.0030395         0.0030395         1.0053           prior_conviction_summ_f_property_flag_count         0.0045324         0.0024026         0.0080000         ***         1.0015           prior_conviction_summ_f_drug_flag_count         0.0045964         0.0024026         0.056223         1.0047           prior_conviction_summ_f_drug_flag_count         0.0045964         0.000022         ***         0.9911           prior_conviction_summ_f_other_sex_flag_count         0.0045964         0.000022         ***         0.9911           prior_conviction_summ_f_other_flag_count         0.0053998         0.000617         **         0.9911           prior_conviction_summ_m_other_flag_count         0.0053992         0.0020458         0.0038716         **         0.9941           prior_conviction_sertiflag_count         0.00132180         0.002458         0.0038716         **         0.9941           prior_conviction_sertiflag_count         0.00132180         0.002458         0.0038716         **         0.941           prior_conviction_sertiflag_count         0.0012821         0.004381         0.0024909         1.0243	years_prior_jail	-0.0002876	0.0004251	0.4987066		0.9997
prior_conviction_summ_f_violent_flag_count         0.003743         0.0061021         0.6143449         1.0031           prior_conviction_summ_f_orperty_flag_count         0.0053329         0.003035         0.00793403         1.0015           prior_conviction_summ_f_orperty_flag_count         0.0048964         0.0020855         0.00118937         1.0082           prior_conviction_summ_m_drug_flag_count         0.0048964         0.0020855         0.0000001         ***         1.0439           prior_conviction_summ_m_other_sex_flag_count         0.003990         0.003165         0.5599733         1.0031           prior_conviction_summ_m_other_flag_count         0.0059044         0.003561         0.028375         1.0539           prior_conviction_summ_m_other_flag_count         0.0059042         0.0037641         0.1155228         1.0059           prior_conviction_sering_flag_count         0.023561         0.025303         *         0.234           prior_conviction_sering_flag_count         0.0211919         0.0157064         0.1772570         1.0214           prior_conviction_dui_flag_count         0.0249018         0.0060001         ***         0.9987           prior_conviction_dui_flag_count         0.0273346         0.0060000         ***         1.0244           prior_conviction_dui_flag         0.238	prior_sent_probation_flag_count	0.0055163	0.0016473	0.0008121	***	1.0055
prior_conviction_summrolent_flag_count         0.0053329         0.0030395         0.0793403         1.0053           prior_conviction_summropperty_flag_count         0.0048167         0.0002526         0.000000         ***         1.0053           prior_conviction_summropperty_flag_count         0.0048167         0.0032526         0.0000022         ***         0.9911           prior_conviction_summrother_sex_flag_count         0.0049942         0.0000621         ***         0.9911           prior_conviction_summother_sex_flag_count         0.003998         0.00053165         0.5599733         1.0031           prior_conviction_summother_flag_count         0.0059092         0.0020458         0.0038716         **         0.9911           prior_conviction_summother_flag_count         0.0213180         0.0035616         0.0255303         *         1.0234           prior_conviction_serious_felony_flag_count         0.0213280         0.000001         ***         1.0244           prior_conviction_dv_flag_count         0.0213280         0.000001         ***         1.0243           prior_conviction_dv_flag_count         0.024048         0.000000         ***         1.0243           prior_conviction_dv_flag_count         0.024083         0.0000001         ***         1.0243	prior_conviction_summ_f_violent_flag_count	0.0030743	0.0061021	0.6143949		1.0031
prior_conviction_summ_f_property_flag_count         0.0114521         0.0020855         0.000000         ****         1.0115           prior_conviction_summ_f_oruperty_flag_count         0.0048964         0.0024226         0.0168933         1.0042           prior_conviction_summ_f_other_sex_flag_count         0.004964         0.000022         ****         0.9911           prior_conviction_summ_m_other_sex_flag_count         0.0429421         0.0107908         0.000022         ****         0.9911           prior_conviction_summ_m_other_flag_count         0.003998         0.0003761         0.155228         1.0059           prior_conviction_summ_m_other_flag_count         0.0059084         0.003761         0.155283         1.0234           prior_conviction_serious_floory_flag_count         0.0024280         0.003761         0.0255303         1.0234           prior_conviction_ser,flag_count         0.0211919         0.0177064         0.1772570         1.0214           prior_conviction_dui_flag_count         0.0240018         0.0000002         ****         1.0263           prior_conviction_dui_flag_count         0.0247346         0.0000001         ****         1.0244           prior_conviction_dui_flag         0.027346         0.0000002         ****         1.0243           prior_conviction_gumm_flog	prior conviction summ m violent flag count	0.0053329	0.0030395	0.0793403		1.0053
prior_conviction_summ_m_property_flag_count         0.0081807         0.0032526         0.0118993         *         1.0082           prior_conviction_summ_f_drug_flag_count         0.0048964         0.0024026         0.050233         1.0047           prior_conviction_summ_m_other_sex_flag_count         0.0049900         0.0010897         0.000002         ***         0.9911           prior_conviction_summ_m_other_sex_flag_count         0.0039089         0.0053165         0.5599733         1.0039           prior_conviction_summ_m_other_flag_count         0.0039084         0.0037541         0.1155228         1.0059           prior_conviction_sum_m_enther_flag_count         0.00231280         0.0103661         0.0255033         *         1.0234           prior_conviction_sex_flag_count         0.00213816         0.0038716         0.772570         1.0214           prior_conviction_du_flag_count         0.024364         0.0049280         0.0000011         ***         1.0243           prior_conviction_du_flag_count         0.024018         0.0049280         0.0000001         ***         1.0247           prior_conviction_du_flag_count         0.024018         0.0000000         ***         1.0247           prior_conviction_du_flag         0.1659645         0.0150882         0.000000         *** <t< td=""><td>prior conviction summ f property flag count</td><td>0.0114521</td><td>0.0020855</td><td>0.0000000</td><td>***</td><td>1.0115</td></t<>	prior conviction summ f property flag count	0.0114521	0.0020855	0.0000000	***	1.0115
prior_conviction_summ_f_drug_flag_count         0.0046964         0.0024026         0.0506233         1.0047           prior_conviction_summ_m_drug_flag_count         0.0089900         0.0018887         0.000022         ****         0.9911           prior_conviction_summ_m_other_sex_flag_count         0.0030980         0.0037641         0.1155228         1.0031           prior_conviction_summ_m_other_flag_count         0.0059092         0.0024456         0.003716         ***         0.9941           prior_conviction_serious_felony_flag_count         0.0031980         0.0103561         0.2255303         *1.0234           prior_conviction_du_flag_count         0.0231280         0.0103561         0.2255307         1.0214           prior_conviction_du_flag_count         0.0241018         0.0042949         0.6244009         1.0044           prior_conviction_du_flag_count         0.024018         0.0042940         0.030000         ***         1.0243           on_prob         0.0273346         0.057709         0.000000         ***         1.0263           our_ysinc_prior_convicting_flag         0.2359757         0.010461         0.000000         ***         1.0261           court_summ_m_orberty_flag         0.333774         0.0104560         0.0000000         ***         1.4060	prior conviction summ m property flag count	0.0081807	0.0032526	0.0118993	*	1.0082
prior_conviction_summ_m_drug_flag_count         -0.0089900         0.0018987         0.0000022         ****         0.9911           prior_conviction_summ_f_other_sex_flag_count         0.0429421         0.0107908         0.0000691         ****         1.0439           prior_conviction_summ_m_other_flag_count         0.0059084         0.0037541         0.1155228         1.0059           prior_conviction_summ_m_other_flag_count         0.0059092         0.002458         0.0038716         **         0.9941           prior_conviction_serous_felony_flag_count         0.0043681         0.0035610         0.6224009         1.0044           prior_conviction_du_flag_count         0.004381         0.008010         0.6244009         1.0044           prior_conviction_du_flag_count         0.00210821         0.0042949         0.7653077         1.0214           prior_conviction_du_flag_count         0.0240018         0.0097790         0.000000         ***         1.0277           prior_max_conv_hier_scaled         0.1659645         0.0150822         0.000000         ***         1.2661           court_summ_f_violent_flag         0.2359757         0.0106461         0.0000000         ***         1.4806           court_summ_m_other_sex_flag         0.2764813         0.0000000         ***         1.4866	prior conviction summ f drug flag count	0.0046964	0.0024026	0.0506233		1.0047
prior_conviction_summ_f_other_sex_flag_count         0.0429421         0.0107908         0.0000691         ****         1.0439           prior_conviction_summother_flag_count         0.0039089         0.0037541         0.1155228         1.0059           prior_conviction_summother_flag_count         0.0039084         0.0037541         0.1155228         1.0059           prior_conviction_summ_m_other_flag_count         0.0231280         0.0103561         0.025303         **         1.0234           prior_conviction_sex_flag_count         0.0211919         0.0157064         0.1772570         1.0214           prior_conviction_du_flag_count         0.024018         0.0049280         0.0000002         ***         1.0243           on_prob         0.0273346         0.0057799         0.000002         ****         1.0243           prior_conviction_du_flag_count         0.0680833         0.0080613         0.000000         ****         1.0643           inv_yrs_since_prior_conv         0.0680833         0.0080613         0.000000         ****         1.2661           court_summ_f_violent_flag         0.333774         0.016461         0.000000         ****         1.4986           court_summ_f_other_sex_flag         0.176455         0.000000         ****         1.4986	prior conviction summ m drug flag count	-0.0089900	0.0018987	0.0000022	***	0.9911
prior_conviction_summother_sex_flag_count         0.0030989         0.0053165         0.5599793         1.0031           prior_conviction_summother_flag_count         0.0059084         0.0037541         0.1155228         1.0059           prior_conviction_summother_flag_count         0.0231280         0.010361         0.025303         *         0.034           prior_conviction_serious_felony_flag_count         0.0211280         0.010361         0.025303         *         1.0234           prior_conviction_serious_felony_flag_count         0.0211919         0.0167064         0.1772570         1.0214           prior_conviction_du_flag_count         0.024018         0.0049280         0.0000002         ****         1.0243           on_prob         0.0273346         0.0057799         0.0000002         ****         1.0274           prior_conviction_du_flag_count         0.02359757         0.0166613         0.000000         ****         1.2661           court_summproperty_flag         0.444068         0.0082472         0.000000         ****         1.2661           court_summother_fag         0.1310694         0.0105644         0.000000         ****         1.4986           court_summother_fag         0.333335         0.0130642         0.000000         ****         <	prior conviction summ f other sex flag count	0.0429421	0.0107908	0.0000691	***	1.0439
prior_conviction summ_f_other_flag_count         0.0059084         0.0037541         0.1155228         1.0059           prior_conviction_violent_felony_flag_count         0.0059092         0.002458         0.0038716         **         0.9941           prior_conviction_violent_felony_flag_count         0.0043581         0.0089010         0.62244009         1.0044           prior_conviction_serous_felony_flag_count         0.0012821         0.0042949         0.7653077         0.9987           prior_conviction_dv_flag_count         0.0024018         0.0049280         0.000001         ****         1.0243           prior_conviction_du_flag_count         0.0240018         0.0049280         0.000001         ****         1.0243           on_prob         0.0270346         0.0057709         0.000000         ****         1.1805           inv_yrs_since_prior_conv         0.0680833         0.0080613         0.000000         ****         1.4986           court_summ_m_violent_flag         0.2353757         0.016461         0.000000         ***         1.4986           court_summ_m_orperty_flag         0.4045068         0.0082472         0.000000         ***         1.4986           court_summ_m_orber_flag         0.2766518         0.000000         ***         1.4986	prior conviction summ m other sex flag count	0.0030989	0.0053165	0.5599793		1.0031
prior_conviction summ_m_other_flag_count         -0.0059092         0.0020458         0.0038716         **         0.9941           prior_conviction_violent_felony_flag_count         0.0231280         0.0103561         0.0255303         *         1.0234           prior_conviction_sex_flag_count         0.0043581         0.0089010         0.6244009         1.0044           prior_conviction_dv_flag_count         0.021181         0.0042949         0.7653077         0.9887           prior_conviction_dui_flag_count         0.0240018         0.0049280         0.0000011         ****         1.0243           on_prob         0.0273346         0.0057709         0.000002         ***         1.0277           prior_conv_hier_scaled         0.1659645         0.0150882         0.000000         ***         1.2661           court_summ_f_violent_flag         0.2359757         0.0166461         0.000000         ***         1.4866           court_summ_f_drug_flag         0.435383         0.0130498         0.000000         ***         1.4986           court_summ_f_drug_flag         0.1310694         0.015644         0.000000         ***         1.4400           court_summ_drug_flag         0.276233         0.0098602         0.000000         ***         1.4363	prior conviction summ f other flag count	0.0059084	0.0037541	0.1155228		1.0059
prior_conviction_violent_felony_flag_count         0.0231280         0.0103561         0.0255303         *         1.0234           prior_conviction_serious_felony_flag_count         0.0043581         0.0089010         0.6244009         1.0044           prior_conviction_ser_flag_count         0.0012821         0.0049249         0.7653077         1.0214           prior_conviction_du_flag_count         0.0240018         0.0049249         0.7653077         0.9867           on_prob         0.0273346         0.0057709         0.0000002         ***         1.0277           prior_conviction_du_flag_count         0.0280513         0.0000000         ***         1.0243           on_prob         0.0273346         0.0057709         0.000000         ***         1.0277           prior_conv         0.6680833         0.0080613         0.0000000         ***         1.2661           court_summ_f_violent_flag         0.2359757         0.0116451         0.0000000         ***         1.2661           court_summ_f_orberty_flag         0.3533835         0.0130488         0.0000000         ***         1.4806           court_summ_f_drug_flag         0.1310694         0.0115644         0.000000         ***         1.8303           court_summ_f_other_sex_flag         0.274816	prior conviction summ m other flag count	-0.0059092	0.0020458	0.0038716	**	0.9941
prior_conviction_serious_felony_flag_count         0.0043581         0.0089010         0.6244009         1.0044           prior_conviction_sex_flag_count         0.0211919         0.0157064         0.1772570         1.0214           prior_conviction_du_flag_count         0.0240018         0.0049280         0.0000011         1***         1.0243           prior_conviction_du_flag_count         0.0240018         0.0049280         0.0000001         1***         1.0243           on_prob         0.0273346         0.0057709         0.0000002         1***         1.0277           prior_conviction_scaled         0.1659645         0.0150882         0.000000         1.1805           inv_yrs_since_prior_conv         0.0680833         0.0080613         0.000000         1.2661           court_summ_f_violent_flag         0.2359757         0.016466         0.000000         1.2661           court_summ_m_oriolent_flag         0.4045068         0.0082472         0.000000         1.4886           court_summ_f_oring_flag         0.171668         0.000000         1.41400         0.016644         0.000000         1.41400           court_summ_m_other_sex_flag         0.2764332         0.0088602         0.000000         1.3163           court_summ_f_other_flag         0.2704332	prior conviction violent felony flag count	0.0231280	0.0103561	0.0255303	*	1.0234
prior_conviction_sex_flag_count         0.0211919         0.0157064         0.1772570         1.0214           prior_conviction_du_flag_count         0.0240018         0.0042949         0.7653077         0.9987           prior_conviction_du_flag_count         0.024346         0.0057709         0.000000         ***         1.0243           on_prob         0.0273346         0.0157082         0.000000         ***         1.0275           court_summ_f_violent_flag         0.2359757         0.0106461         0.000000         ***         1.4661           court_summ_f_oroperty_flag         0.353835         0.0130498         0.000000         ***         1.4986           court_summ_f_orug_flag         0.1752293         0.0098602         0.000000         ***         1.3163           court_summ_m_other_sex_flag         0.2748163         0.0176455         0.000000         ***         1.5385           court_summ_m_other_flag         0.2704332	prior conviction serious felony flag count	0 0043581	0.0089010	0 6244009		1 0044
prior_conviction_du_flag_count         -0.0012821         0.0042949         0.7653077         0.9987           prior_conviction_dui_flag_count         0.0240018         0.0049280         0.0000011         ****         1.0243           on_prob         0.0273346         0.0057709         0.0000002         ****         1.0273           prior_conviction_dui_flag_count         0.0273346         0.0057709         0.0000000         ****         1.0273           prior_max_conv_hier_scaled         0.1659645         0.0150882         0.0000000         ****         1.2661           court_summ_f_violent_flag         0.2359757         0.0104560         0.000000         ****         1.4261           court_summ_m_oroperty_flag         0.4045068         0.082472         0.000000         ****         1.4986           court_summ_m_oroperty_flag         0.1752293         0.098602         0.000000         ****         1.4400           court_summ_m_other_sex_flag         0.2748163         0.0176455         0.000000         ****         1.3163           court_summ_m_other_flag         0.2704332         0.0088602         0.000000         ****         1.3163           court_summ_m_other_flag         0.2704332         0.0085855         0.0000000         *****         1.363	prior conviction sex flag count	0.0211919	0.0157064	0.1772570		1.0214
proj conviction_dui_flag_count         0.0240018         0.0049280         0.000001         ****         1.0243           on_prob         0.0273346         0.0057709         0.0000002         ****         1.0277           prior_conv_hier_scaled         0.1659645         0.0150882         0.0000000         ****         1.1805           inv_yrs_since_prior_conv         0.0680833         0.008013         0.000000         ****         1.2661           court_summ_f_violent_flag         0.2359757         0.01066461         0.000000         ****         1.4886           court_summ_m_violent_flag         0.4045068         0.0082472         0.000000         ****         0.7023           court_summ_m_property_flag         0.1310694         0.0105644         0.000000         ****         0.7023           court_summ_m_drug_flag         0.1752293         0.0098602         0.000000         ****         0.8393           court_summ_m_other_flag         0.2764313         0.0016544         0.000000         ****         0.7833           court_summ_m_other_flag         0.2704323         0.0085855         0.000000         ****         0.7630           court_sex_flag         0.2774332         0.0085885         0.000000         ****         0.7630	prior conviction dv flag count	-0 0012821	0 0042949	0 7653077		0 9987
non_prob       0.0273346       0.0057709       0.000002       ****       1.0277         prior_max_conv_hier_scaled       0.1659645       0.0150882       0.000000       ****       1.805         inv_yrs_since_prior_conv       0.0680833       0.0080613       0.000000       ****       1.705         court_summ_f_violent_flag       0.2359757       0.0104560       0.000000       ****       1.4865         court_summ_m_violent_flag       0.4045068       0.0082472       0.000000       ****       1.4986         court_summ_m_poperty_flag       0.3533835       0.0130498       0.000000       ****       1.4986         court_summ_m_drug_flag       0.1310694       0.0105644       0.000000       ****       1.400         court_summ_m_other_sex_flag       0.2748163       0.017655       0.000000       ****       1.4896         court_summ_m_other_flag       0.2704332       0.0088602       0.000000       ****       1.5835         court_sering       0.2704332       0.008585       0.000000       ****       1.5835         court_sering       0.0143083       0.0190525       0.000000       ****       1.6844         court_sering       0.0143083       0.0140635       0.0000000       ****       1.8845<	prior conviction dui flag count	0 0240018	0 0049280	0.0000011	***	1 0243
Disploy         Disploy <t< td=""><td>on prob</td><td>0 0273346</td><td>0.0057709</td><td>0.0000022</td><td>***</td><td>1 0277</td></t<>	on prob	0 0273346	0.0057709	0.0000022	***	1 0277
inv_yrs_since_prior_conv       0.0680833       0.0080613       0.000000       ****       1.0705         court_summ_f_violent_flag       0.2359757       0.0106461       0.000000       ****       1.2661         court_summ_f_violent_flag       0.3331774       0.0104560       0.000000       ****       1.4986         court_summ_f_property_flag       0.4045068       0.0082472       0.000000       ****       1.4986         court_summ_f_drug_flag       0.1310694       0.0105644       0.000000       ****       1.4986         court_summ_m_drug_flag       0.1310694       0.0105644       0.000000       ****       0.7023         court_summ_f_other_sex_flag       0.1752293       0.0098602       0.000000       ****       0.8393         court_summ_m_other_sex_flag       0.2748163       0.0176455       0.000000       ****       0.8393         court_summ_f_other_flag       0.426839       0.417816       0.000000       ****       0.8393         court_summ_f_other_flag       0.2704332       0.0085885       0.000000       ****       0.7630         court_serious_felony_flag       -0.0579141       0.0084905       0.000000       ****       0.8437         court_dui_flag       0.0143083       0.017964       0.42580	prior max conv hier scaled	0 1659645	0.0150882	0 0000000	***	1 1805
court_summ_f_violent_flag       0.2359757       0.0106461       0.000000       ****       1.2661         court_summ_f_violent_flag       0.3331774       0.0104560       0.000000       ****       0.7166         court_summ_f_property_flag       0.4045068       0.0082472       0.000000       ****       1.4986         court_summ_f_orporety_flag       0.3533835       0.0130498       0.000000       ****       1.4986         court_summ_f_drug_flag       0.1310694       0.0105644       0.000000       ****       1.4400         court_summ_m_drug_flag       0.1752293       0.0098602       0.000000       ****       1.8383         court_summ_f_other_sex_flag       0.2704332       0.008585       0.000000       ****       0.8393         court_summ_f_other_flag       0.2704332       0.0085855       0.000000       ****       0.7630         court_violent_felony_flag       -0.2704332       0.0085855       0.000000       ****       0.7112         court_serious_felony_flag       -0.0579141       0.0084905       0.000000       ****       0.8844         court_dv_flag       0.0143083       0.014277       0.000000       ****       1.258.2000         court_dii_flag       0.0031943       0.0014063       0.0231219 </td <td>inv vrs since prior conv</td> <td>0.0680833</td> <td>0.0080613</td> <td>0 0000000</td> <td>***</td> <td>1 0705</td>	inv vrs since prior conv	0.0680833	0.0080613	0 0000000	***	1 0705
court_summ_m_violent_flag       -0.3331774       0.0104560       0.0000000       ***       0.7166         court_summ_f_property_flag       -0.3533835       0.0130498       0.000000       ***       1.4986         court_summ_f_drug_flag       -0.3131764       0.0104560       0.000000       ***       1.4986         court_summ_f_drug_flag       -0.3533835       0.0130498       0.000000       ***       0.7023         court_summ_f_drug_flag       -0.1752293       0.0098602       0.000000       ***       0.8393         court_summ_f_other_sex_flag       0.2748163       0.0176455       0.000000       ***       1.3163         court_summ_m_other_sex_flag       -0.2060839       0.0417816       0.000000       ***       1.5385         court_summ_m_other_flag       -0.2704332       0.0085885       0.000000       ***       0.7630         court_serious_felony_flag       -0.3408083       0.009525       0.000000       ***       0.9437         court_dui_flag       -0.1228363       0.014277       0.000000       ***       0.8844         court_dui_flag       -0.1228363       0.014277       0.000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.000000 <td< td=""><td>court summ f violent flag</td><td>0 2359757</td><td>0.0106461</td><td>0 0000000</td><td>***</td><td>1 2661</td></td<>	court summ f violent flag	0 2359757	0.0106461	0 0000000	***	1 2661
court_summ_f_property_flag         0.4045068         0.0082472         0.0000000         ****         1.4986           court_summ_f_drug_flag         0.3533835         0.0130498         0.0000000         ****         1.4986           court_summ_f_drug_flag         0.1310694         0.0105644         0.0000000         ****         1.4986           court_summ_m_drug_flag         0.1752293         0.0098602         0.0000000         ****         0.8393           court_summ_f_other_sex_flag         0.2748163         0.0176455         0.000000         ****         0.8393           court_summ_f_other_sex_flag         0.2060839         0.0417816         0.000000         ****         0.8138           court_summ_m_other_flag         0.2704332         0.0085885         0.000000         ****         0.7630           court_violent_felony_flag         -0.3408083         0.017964         0.4258050         1.0144           court_serious_felony_flag         -0.1228363         0.0140277         0.000000         ****         0.8844           court_dui_flag         -0.1228363         0.014277         0.000000         ****         0.8844           court_dui_flag         -0.1228363         0.014277         0.000000         ****         0.8844 <td< td=""><td>court summ m violent flag</td><td>-0.3331774</td><td>0.0104560</td><td>0.0000000</td><td>***</td><td>0 7166</td></td<>	court summ m violent flag	-0.3331774	0.0104560	0.0000000	***	0 7166
court_summ_m_property_flag       -0.3533835       0.0130498       0.000000       ***       0.7023         court_summ_f_drug_flag       -0.1752293       0.0098602       0.000000       ***       1.1400         court_summ_f_other_sex_flag       -0.1752293       0.0098602       0.000000       ***       0.8333         court_summ_f_other_sex_flag       -0.2748163       0.0176455       0.000000       ***       0.8138         court_summ_m_other_sex_flag       -0.2060839       0.0417816       0.000000       ***       0.8138         court_summ_f_other_flag       -0.2704332       0.0085885       0.000000       ***       0.7630         court_violent_felony_flag       -0.3408083       0.0090525       0.000000       ***       0.7121         court_serious_felony_flag       -0.1228363       0.014277       0.000000       ***       0.8844         court_dv_flag       -0.1228363       0.014277       0.000000       ***       1.888         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ***       0.9848         combined_cycles_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       0.002385       0.000200       ****	court summ f property flag	0 4045068	0.0082472	0.0000000	***	1 4986
court_summ_f_drug_flag         0.1310694         0.0105644         0.0000000         ****         1.1400           court_summ_m_drug_flag         0.1752293         0.0098602         0.0000000         ****         0.8393           court_summ_f_other_sex_flag         0.2748163         0.0176455         0.000000         ****         0.8138           court_summ_m_other_sex_flag         0.2060839         0.0417816         0.000000         ****         0.8138           court_summ_m_other_flag         0.4308103         0.0063518         0.000000         ****         0.8138           court_summ_m_other_flag         0.2704332         0.0085885         0.000000         ****         0.7630           court_violent_felony_flag         -0.270432         0.0085885         0.000000         ****         0.7112           court_serious_felony_flag         -0.0579141         0.0084905         0.000000         ****         0.8844           court_du_flag         -0.1228363         0.014277         0.000000         ****         0.8844           court_du_flag         -0.0153190         0.0030887         0.000000         ****         0.8844           court_du_flag         -0.0153190         0.0030887         0.000000         ****         0.9848	court summ m property flag	-0 3533835	0.0130498	0 0000000	***	0 7023
court_summ_m_drug_flag       -0.1752293       0.0008602       0.0000000       ***       0.8393         court_summ_f_other_sex_flag       0.2748163       0.0176455       0.0000000       ***       1.3163         court_summ_m_other_sex_flag       0.2708839       0.0417816       0.0000000       ***       0.8138         court_summ_m_other_flag       0.4308103       0.0063518       0.0000000       ***       1.5385         court_summ_m_other_flag       -0.2704332       0.0085885       0.0000000       ***       0.7630         court_serious_felony_flag       -0.3408083       0.0090525       0.0000000       ***       0.9437         court_serious_felony_flag       -0.1228363       0.014277       0.000000       ***       0.8844         court_dv_flag       -0.1228363       0.014277       0.0000000       ***       1.888         max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ***       1.9848         combined_cycles_count       0.01031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       0.1003124       0.0046929       0.000000       ****       0.9848         combined_cycles_count       0.1003124       0.002881       0.000000 <t< td=""><td>court summ f drug flag</td><td>0 1310694</td><td>0 0105644</td><td>0 0000000</td><td>***</td><td>1 1400</td></t<>	court summ f drug flag	0 1310694	0 0105644	0 0000000	***	1 1400
court_summ_f_orter_sex_flag       0.2748163       0.0176455       0.000000       ****       1.3163         court_summ_m_other_sex_flag       0.2060839       0.0417816       0.000000       ****       0.8138         court_summ_f_other_flag       0.4308103       0.0063518       0.0000000       ****       1.5385         court_summ_m_other_flag       -0.2704332       0.0085885       0.000000       ****       0.7630         court_violent_felony_flag       -0.3408083       0.0090525       0.000000       ****       0.9437         court_serious_felony_flag       -0.0579141       0.0084905       0.000000       ****       0.9437         court_dv_flag       -0.1228363       0.014277       0.000000       ****       1.8884         court_du_flag       -0.1228363       0.014277       0.000000       ****       1.888         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ****       1.258.2000         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         ge       -0.0020385       0.0002881       0.000000       ****       0.9848         combined_cycles_count       0.1003124       0.0046929       0.000000       **** <td< td=""><td>court summ m drug flag</td><td>-0 1752293</td><td>0.0098602</td><td>0 0000000</td><td>***</td><td>0 8393</td></td<>	court summ m drug flag	-0 1752293	0.0098602	0 0000000	***	0 8393
court_summ_mother_sex_flag       -0.2060839       0.0417816       0.000008       ***       0.8138         court_summ_f_other_flag       0.4308103       0.0063518       0.000000       ***       1.5385         court_summ_mother_flag       -0.2704322       0.0085885       0.000000       ***       0.7630         court_violent_felony_flag       -0.3408083       0.0090525       0.000000       ***       0.7112         court_serious_felony_flag       -0.0579141       0.0084905       0.000000       ***       0.9437         court_dv_flag       -0.1228363       0.014277       0.000000       ***       0.8844         court_dui_flag       -0.1228363       0.0145860       0.000000       ***       1.888         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ***       1.888         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ***       1.9848         combined_cycles_count       0.1003124       0.0046929       0.000000       ***       0.9980         ge       -0.020385       0.0002881       0.000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.000000       ***       0.9376	court summ f other sex flag	0 2748163	0.0176455	0.0000000	***	1 3163
court_summ_f_other_flag         0.4308103         0.0063518         0.0000000         ***         1.5385           court_summ_m_other_flag         -0.2704332         0.0085885         0.000000         ***         0.7630           court_violent_felony_flag         -0.3408083         0.0090525         0.000000         ***         0.9437           court_serious_felony_flag         -0.0579141         0.0084905         0.000000         ***         0.9437           court_sex_flag         0.0143083         0.0179664         0.4258050         1.0144           court_dv_flag         -0.1228363         0.0104277         0.000000         ***         0.8844           court_dui_flag         0.0851084         0.0145860         0.000000         ***         1.0888           max_court_hier_scaled         7.1374374         0.1027793         0.000000         ***         1.0888           max_court_hier_scaled         7.1374374         0.1027793         0.000000         ***         1.0888           combined_cycles_count         0.0153190         0.0030887         0.000000         ***         1.0924           ge         -0.0020385         0.0002881         0.000000         ***         0.9980           genderF         -0.0644346	court summ m other sex flag	-0 2060839	0.0417816	0.0000008	***	0.8138
court_summ_m_other_flag       -0.2704332       0.0085885       0.0000000       ****       0.7630         court_violent_felony_flag       -0.3408083       0.0090525       0.0000000       ****       0.7112         court_serious_felony_flag       -0.0579141       0.0084905       0.0000000       ****       0.9437         court_sex_flag       0.0143083       0.0179664       0.4258050       1.0144         court_dv_flag       -0.1228363       0.0104277       0.0000000       ****       0.8844         court_dui_flag       0.0851084       0.0145860       0.0000000       ****       1.258.2000         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       0.1003124       0.0046929       0.0000000       ****       0.9848         combined_cycles_count       0.1003124       0.0046929       0.0000000       ****       1.055         age       -0.0644346       0.0074721       0.0000000       ****       0.9376         raceAsian/PI       -0.0315735       0.0075348       0.0000279       ****       0.9620         raceBlack       -0.0315735       0.0075348       0.0000279       ****       0.9689	court summ f other flag	0 4308103	0.0063518	0.0000000	***	1 5385
court_violent_felony_flag       -0.3408083       0.0090525       0.0000000       ****       0.7112         court_serious_felony_flag       -0.0579141       0.0084905       0.0000000       ****       0.9437         court_sex_flag       0.0143083       0.0179664       0.4258050       1.0144         court_dv_flag       -0.1228363       0.0104277       0.0000000       ****       0.8844         court_dui_flag       0.0851084       0.0145860       0.0000000       ****       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ****       1.0322         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       0.1003124       0.0046929       0.0000000       ****       0.9848         combined_cycles_count       0.1003124       0.0046929       0.0000000       ****       0.9980         genderF       -0.0644346       0.0074721       0.000000       ****       0.9376         raceAsian/Pl       -0.0387814       0.0179215       0.0304670       *       0.9620         raceBlack       -0.0315735       0.0075348       0.000279       ****       0.9689	court_summ_m_other_flag	-0 2704332	0.0085885	0.0000000	***	0 7630
court_serious_felony_flag       -0.0579141       0.0084905       0.0000000       ***       0.9437         court_sex_flag       0.0143083       0.0179664       0.4258050       1.0144         court_dv_flag       -0.1228363       0.0104277       0.0000000       ***       0.8844         court_dui_flag       0.0851084       0.0145860       0.0000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ***       1.0838         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.000000       ***       1.0828         filed_ncharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       0.1003124       0.0046929       0.000000       ***       0.9848         combined_cycles_count       0.1003124       0.002881       0.000000       ***       0.9376         age       -0.0644346       0.0074721       0.0000000       ***       0.9376         raceAsian/Pl <td>court_violent_felony_flag</td> <td>-0.3408083</td> <td>0.0090525</td> <td>0.0000000</td> <td>***</td> <td>0 7112</td>	court_violent_felony_flag	-0.3408083	0.0090525	0.0000000	***	0 7112
court_sex_flag       0.0143083       0.0179664       0.4258050       1.0144         court_dv_flag       -0.1228363       0.0104277       0.0000000       ***       0.8844         court_dui_flag       0.0851084       0.0145860       0.0000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ***       1.082         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       0.0103124       0.0046929       0.000000       ****       0.9848         combined_cycles_count       0.1003124       0.0046929       0.000000       ****       0.9848         ge       -0.0020385       0.0002881       0.000000       ****       0.9848         genderF       -0.0644346       0.0074721       0.000000       ****       0.9376         raceAsian/PI       -0.0387814       0.0179215       0.0304670       *       0.9620         raceBlack       -0.0315735       0.0075348       0.000279       ***       0.9689	court serious felony flag	-0.0579141	0.0084905	0.0000000	***	0.9437
court_dv_flag       -0.1228363       0.0104277       0.0000000       ***       0.8844         court_dui_flag       0.0851084       0.0145860       0.000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ***       1258.2000         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       -0.0153190       0.0030887       0.0000007       ***       0.9848         combined_cycles_count       0.1003124       0.0046929       0.000000       ***       1.1055         age       -0.0020385       0.0002881       0.0000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.000000       ***       0.9376         raceAsian/Pl       -0.0387814       0.0179215       0.0304670       *       0.9620         raceBlack       -0.0315735       0.0075348       0.000279       ***       0.9689	court sex flag	0.0143083	0.0179664	0 4258050		1 0144
court_dui_flag       0.0851084       0.0145860       0.0000000       ***       1.0888         max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ***       1258.2000         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       -0.0153190       0.0030887       0.000000       ***       0.9848         combined_cycles_count       0.1003124       0.0046929       0.000000       ***       1.1055         age       -0.0020385       0.0002881       0.000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.000000       ***       0.9376         raceAsian/Pl       -0.0387814       0.0179215       0.0304670       *       0.9620         raceBlack       -0.0315735       0.0075348       0.000279       ***       0.9689	court dv flag	-0 1228363	0.0104277	0.0000000	***	0 8844
max_court_hier_scaled       7.1374374       0.1027793       0.0000000       ***       1258.2000         filed_fcharge_count       0.0031943       0.0014063       0.0231219       *       1.0032         filed_mcharge_count       -0.0153190       0.0030887       0.0000000       ***       0.9848         combined_cycles_count       0.1003124       0.0046929       0.0000000       ***       1.1055         age       -0.0020385       0.0002881       0.0000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.0000000       ***       0.9376         raceAsian/Pl       -0.0387814       0.0179215       0.0304670       *       0.9689         raceBlack       -0.0315735       0.0075348       0.000279       ***       0.9689	court_dui_flag	0.0851084	0.0145860	0.0000000	***	1 0888
filed_fcharge_count       0.0031943       0.0014063       0.0231219 *       1.0032         filed_mcharge_count       -0.0153190       0.0030887       0.0000007 ***       0.9848         combined_cycles_count       0.1003124       0.0046929       0.0000000 ***       1.1055         age       -0.0020385       0.0002881       0.000000 ***       0.9980         genderF       -0.0644346       0.0074721       0.0000000 ***       0.9376         raceAsian/PI       -0.0387814       0.0179215       0.0304670 *       0.9620         raceBlack       -0.0315735       0.0075348       0.0000279 ***       0.9689	max court hier scaled	7 1374374	0 1027793	0.0000000	***	1258 2000
filed_mcharge_count       -0.0153190       0.0030887       0.0000007       ***       0.9848         combined_cycles_count       0.1003124       0.0046929       0.0000000       ***       1.1055         age       -0.0020385       0.0002881       0.0000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.0000000       ***       0.9376         raceAsian/PI       -0.0387814       0.0179215       0.0304670       *       0.9629         raceBlack       -0.0315735       0.0075348       0.000279       ***       0.9689	filed fcharge count	0.0031943	0.0014063	0.0231219	*	1 0032
combined_cycles_count       0.1003124       0.0046929       0.0000000       ***       1.1055         age       -0.0020385       0.0002881       0.0000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.0000000       ***       0.9376         raceAsian/PI       -0.0315735       0.0075348       0.000279       ***       0.9689	filed_mcharge_count	-0.0153190	0.0030887	0.0000007	***	0 9848
age       -0.0020385       0.0002881       0.000000       ***       0.9980         genderF       -0.0644346       0.0074721       0.000000       ***       0.9376         raceAsian/PI       -0.0387814       0.0179215       0.0304670       *       0.9689         raceBlack       -0.0315735       0.0075348       0.0000279       ***       0.9689	combined cycles count	0 1003124	0.0046929	0.0000000	***	1 1055
genderF         -0.0644346         0.0074721         0.000000         ***         0.9376           raceAsian/PI         -0.0387814         0.0179215         0.0304670         *         0.9620           raceBlack         -0.0315735         0.0075348         0.0000279         ***         0.9689		-0.0020385	0.0002881	0.0000000	***	0.9980
raceBlack -0.0315735 0.0075348 0.0000279 *** 0.9689	denderF	-0.0644346	0.0074721	0.0000000	***	0.9376
raceBlack -0.0315735 0.0075348 0.0000279 *** 0.9689	raceAsian/Pl	-0 0387814	0.0179215	0.0304670	*	0.9620
	raceBlack	-0 0315735	0.0175213	0.000-070	***	0.3020
raceHispanic () () () () () () () () () () () () ()	raceHispanic	0.0010700	0.0073340	0.0000279		1 0007
County fixed effects <sup>‡</sup> $t$ $t$ $t$ $t$ $t$ $t$	County fixed effects <sup>‡</sup>	t-000000	t	+	t	+

Term	estimate	std.error	p-value <sup>†</sup>	relative_risk
n = 71,362				
Excluding those with race other than white, black, female; age less than 18; and cases with no known	Hispanic, or Asian conviction offen	an/PI; genders o se level.	other than male	or
* p<0.05; ** p<0.01; *** p<0.001				
<sup>†</sup> P-values represent the probability that these result have any predictive value. P-values below 0.05 are result—that the estimate is unlikely to have occur	lts could be obtai e typically viewed red by chance if th	ned by chance i l as representing nere were no tru	f that predictor g a "significant le effect.	did not "
‡ County included as a categorical variable; indiv significantly differed; relative risk varied.	idual county fixed	l effects not sho	wn. Many cour	nties

## Table B5: Pseudo R-squared results for model predicting felony versusmisdemeanor conviction



## Table B6: Robust Poisson regression predicting prison sentence versus intermediate sentence

Term	estimate	std.error	p-value		relative_risk
(Intercept)	-2.7071008	0.1799236	0.0000000	***	0.0667
years_prior_prison	0.0061926	0.0012379	0.0000006	***	1.0062
years_prior_jail	-0.0031502	0.0027787	0.2569104		0.9969
prior_sent_probation_flag_count	-0.0289675	0.0042690	0.0000000	***	0.9714
prior_conviction_summ_f_violent_flag_count	0.1214742	0.0132064	0.0000000	***	1.1292
prior_conviction_summ_m_violent_flag_count	0.0236815	0.0072243	0.0010453	**	1.0240
prior_conviction_summ_f_property_flag_count	0.0779918	0.0055712	0.0000000	***	1.0811
prior_conviction_summ_m_property_flag_count	-0.0093970	0.0095668	0.3259768		0.9906
prior conviction summ f drug flag count	0.0177194	0.0067843	0.0090067	**	1.0179
prior_conviction_summ_m_drug_flag_count	0.0176754	0.0050836	0.0005072	***	1.0178
prior conviction summ f other sex flag count	0.1429982	0.0235514	0.0000000	***	1.1537
prior conviction summ m other sex flag count	0.0219510	0.0194136	0.2581789		1.0222
prior conviction summ f other flag count	0.1164410	0.0083173	0.0000000	***	1.1235
prior conviction summ m other flag count	0.0107913	0.0052213	0.0387547	*	1.0108
prior conviction violent felony flag count	0.0859971	0.0218112	0.0000805	***	1.0898
prior conviction serious felony flag count	0.1615908	0.0183264	0.0000000	***	1.1754
prior conviction sex flag count	-0.0141078	0.0326457	0.6656343		0.9860
prior conviction dv flag count	0 0130124	0 0101847	0 2013764		1 0131
prior conviction dui flag count	0 0080341	0.0126140	0 5241767		1 0081
on prob	0.0117259	0.0154540	0 4479940		1 0118
prior max conv hier scaled	1 3772611	0.0509062	0.000000	***	3 9640
inv vrs since prior conv	-0 1444991	0.0221312	0.0000000	***	0.8655
conviction summ f violent flag	0.2959135	0.0287050	0.0000000	***	1 3444
conviction_summ_m_violent_flag	-0 0197545	0.02070000	0.5511237		0 9804
conviction_summ_f_property_flag	-0.0690090	0.0001400	0.0085887	**	0.0004
conviction_summ_m_property_hag	-0.0050050	0.0202001	0.0653067		0.0000
conviction_summ_f_drug_flag	-0.0632821	0.0328147	0.0537966	•	0.0000
conviction_summ_m_drug_flag	-0.0002021	0.0020147	0.0007300	***	0.3307
conviction_summ f other sex flag	0.1301131	0.0445120	0.0000100	***	1 6097
conviction_summ_m_other_sex_flag	-0.0555726	0.0403473	0.0000000		0.9459
conviction_summ_f_other_flag	0.0000720	0.1000100	0.00000000	***	1 /51/
conviction_summ_m_other_flag	-0.0086222	0.0227004	0.0000000	**	0 0061
conviction_summ_m_other_mag	0.3036535	0.0323040	0.0027240	***	1 3822
conviction_violent_leiony_liag	0.3230333	0.0200072	0.0000000	***	1 3022
conviction_sex_flag	0.5307003	0.0221030	0.0000000	***	1.3321
conviction_sex_liag	0.3423734	0.0401203	0.0000000	***	0.9470
conviction_dvi_flag	-0.1049404	0.0313300	0.0000002		1 0818
max_conv_bior_scaled	1 11010742	0.0413141	0.0009047	• ***	2 02/7
	0.06/6823	0.2233403	0.0000007	***	1 0668
convicted_icitalge_count	0.0040023	0.0077400	0.0000000		1.0000
convicted_incharge_count	0.0041005	0.0137134	0.7049275	*	1.0041
	0.0200000	0.0090040	0.0310795	***	1.0200
aye	-0.0100040	0.0009330	0.0000000	***	0.9041
	-0.5210555	0.0312905	0.0000000		0.5939
	-0.0203226	0.0528311	0.7004814	*	0.9799
racebiack	0.0514964	0.021//46	0.0180313	***	1.0528
	0.0955247	0.0183412	0.0000002		1.1002
County fixed effects+	<b>‡</b>	‡	‡	Ŧ	‡

Term	estimate	std.error	p-value	relative_risk
n = 38,698				
Excluding those with race other than white, black, Hispanic, or age less than 18; and cases with conviction level other than fel	: Asian/PI; gen ony.	ders other than	male or female;	
* p<0.05; ** p<0.01; *** p<0.001				
<sup>†</sup> P-values represent the probability that these results could be obtained by chance if that predictor did not have any predictive value. P-values below 0.05 are typically viewed as representing a "significant" result—that the estimate is unlikely to have occurred by chance if there were no true effect.				
‡ County included as a categorical variable; individual county significantly differed; relative risk varied.	fixed effects n	ot shown. Man	y counties	

## Table B7: Pseudo R-squared results for model predicting prison versus intermediate sentence

![](_page_30_Figure_2.jpeg)

Table B8: Robust Line	ar regression	predicting pris	son sentence length
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Term	estimate	std.error	p-value <sup>†</sup>	
(Intercept)	-293.230327	295.144200	0.3204798	
years_prior_prison	9.986605	4.839275	0.0390726	*
years_prior_jail	-7.997907	3.440834	0.0201210	*
prior_sent_probation_flag_count	-31.529830	16.238771	0.0522053	
prior_conviction_summ_f_violent_flag_count	-170.028150	52.358293	0.0011680	**
prior_conviction_summ_m_violent_flag_count	8.264397	24.265324	0.7334225	
prior_conviction_summ_f_property_flag_count	38.842378	18.210982	0.0329533	*
prior conviction summ m property flag count	5.778309	34.249649	0.8660266	
prior_conviction_summ_f_drug_flag_count	-31.099623	29.472714	0.2913559	
prior conviction summ m drug flag count	26.277026	17.895280	0.1420292	
prior conviction summ f other sex flag count	-52.805344	103.884075	0.6112455	
prior conviction summ m other sex flag count	-44.899448	78.853793	0.5690950	
prior conviction summ f other flag count	32.549529	31.909735	0.3077262	
prior conviction summ m other flag count	-2.086817	19.298280	0.9138906	
prior conviction violent felony flag count	189.422836	160.459930	0.2378262	
prior conviction serious felony flag count	680.841746	124.955659	0.0000001	***
prior conviction sex flag count	166.878958	213.066385	0.4335111	
prior conviction dv flag count	8.632605	37.051890	0.8157757	
prior conviction dui flag count	86.600624	66.672752	0.1940075	
on prob	-85,790013	74.282017	0.2481460	
prior max conv hier scaled	762.649794	301.953318	0.0115595	*
inv vrs since prior conv	-831.861715	96.544279	0.0000000	***
conviction summ f violent flag	1018.917272	236.235691	0.0000162	***
conviction summ m violent flag	147.761448	208.064168	0.4776116	
conviction summ f property flag	-93,750031	208,788453	0.6534263	
conviction summ m property flag	-207.776281	230.830685	0.3680731	
conviction summ f drug flag	-122.354469	182.524475	0.5026510	
conviction summ m drug flag	-244.089936	139.273371	0.0796981	
conviction summ f other sex flag	480.025805	349.493806	0.1696273	
conviction summ m other sex flag	-1420.137831	542,365869	0.0088456	**
conviction summ f other flag	122.978481	183.353652	0.5024141	
conviction summ m other flag	-197.316278	135.253250	0.1446296	
conviction violent felony flag	2557.598581	223.400322	0.0000000	***
conviction serious felony flag	-478.646789	163.977312	0.0035186	**
conviction sex flag	1387.098952	385.014625	0.0003162	***
conviction dv flag	-479.135799	213.269238	0.0246830	*
conviction dui flag	-24.037493	118.460711	0.8392048	
max conv hier scaled	199.287204	303.195931	0.5110086	
convicted fcharge count	1414.692697	114.868863	0.0000000	***
convicted mcharge count	-47.629768	68,149505	0.4846280	
combined cvcles count	-291.081632	57,256561	0.0000004	***
age	-4.555773	4.136476	0.2707606	
genderF	-392.265105	81.005953	0.0000013	***
raceAsian/PI	-76.873642	168.229583	0.6477108	
raceBlack	103.424183	115.840051	0.3719729	
raceHispanic	90.358612	89.795718	0.3143076	
County fixed effects <sup>‡</sup>	+	‡	‡	‡

Term	estimate	std.error	p-value <sup>†</sup>
n = 12,126			
Prison sentence length represented in days			
Excluding those with race other than white, black, Hispa female; age less than 18; and cases with conviction level	anic, or Asian/Pl l other than felo	; genders othe ny.	r than male or
* p<0.05; ** p<0.01; *** p<0.001			
<sup>†</sup> P-values represent the probability that these results council not have any predictive value. P-values below 0.05 are t "significant" result—that the estimate is unlikely to have effect.	uld be obtained by ypically viewed e occurred by ch	by chance if th as representin ance if there v	at predictor did g a vere no true
‡ County included as a categorical variable; individual of significantly differed; relative risk varied.	county fixed effe	ects not shown	. Many counties

![](_page_32_Figure_1.jpeg)

Table B9: R-squared results for model predicting prison sentence length

## **Appendix C**

Descriptive data from previous years' reports<sup>26</sup> (compiled in figures C1 and C2) suggests that the trends found in this year's report are consistent with that of prior years.<sup>27</sup> Additional research is needed to gain a clearer understanding of what is driving these trends.

![](_page_33_Figure_2.jpeg)

Note: These graphs show overall percentages, not controlling for prior record, offense features, age, or gender. Data not available for calendar year 2011.

<sup>&</sup>lt;sup>26</sup> For figure C2, the prison sentence rate is out of all convicted defendants, not solely those charged with felonies, in order to be consistent with previous years' analyses.

<sup>&</sup>lt;sup>27</sup> Felony versus misdemeanor conviction charge is not graphed because prior years' reports did not analyze this outcome.

## Appendix D

The analyses presented in this report represent average differences across each racial/ethnic group. The following charts show the more nuanced patterns of outcomes broken down by race/ethnicity, prior criminal record, and arrest offense type. Since the numbers for Asian/PI defendants are comparatively small, caution should be used in interpreting the subsetted percentages visualized below.

These graphs show the observed percentages, not controlling for prior record, arrest offense, number of arrest charges, age, or gender. "Other felony" type is not shown due to the lack of interpretability of such a broad category of offenses.

![](_page_35_Figure_0.jpeg)

### **Figure D1:** *Percent convicted by race, prior criminal record, and felony arrest offense type*

## Figure D2:

Percent of convicted defendants with felony conviction by race, prior criminal record, and felony arrest type

![](_page_36_Figure_2.jpeg)

## Figure D3:

Percent of felony-convicted defendants given a prison sentence by race, prior criminal record, and felony arrest type

![](_page_37_Figure_2.jpeg)

## Figure D4:

*Prison sentence length for those sentenced to prison by race, prior criminal record, and felony arrest type* 

![](_page_38_Figure_2.jpeg)

## Appendix E

ACHS data was received in raw, long format with one row per event. Data contained all criminal offender record information (CORI) on all persons with a disposition in 2019 of a felony arrest, as identified by the California DOJ in their DALA extract.

Data was collapsed to the level of each distinct person and disposition date combination, using flags and sums to keep relevant information. This level was selected because sometimes multiple cycles (collections of events initiated by an arrest event) were rolled into a single disposition date. Sentences with suspended imposition were accounted for at the level of each count.

For each person-disposition, all prior criminal history data was cumulatively summarized and appended. The final data set was filtered to only include dispositions of felony arrests in 2019.

The code is available upon request.