



Work Session

WS

Milwaukie City Council

COUNCIL WORK SESSION

City Hall Council Chambers, 10501 SE Main Street
 & Zoom Video Conference (www.milwaukieoregon.gov)

AGENDA

FEBRUARY 6, 2024

Council will hold this meeting in-person and through video conference. The public may attend the meeting by coming to City Hall or joining the Zoom webinar, or watch the meeting on the [city’s YouTube channel](#) or Comcast Cable channel 30 in city limits. For Zoom login visit <https://www.milwaukieoregon.gov/citycouncil/city-council-work-session-342>.

To participate in this meeting by phone dial 1-253-215-8782 and enter Webinar ID 898 6111 0639 and Passcode: 063156. To raise hand by phone dial *9.

Written comments may be delivered to City Hall or emailed to ocr@milwaukieoregon.gov. Council may take limited verbal comments.

Note: agenda item times are estimates and are subject to change.

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|---|------------------|
| <p>1. 2023 Criminal Justice Commission STOP Data – Report (4:00 p.m.)
 Staff: Luke Strait, Police Chief, and
 Ryan Burdick, Police Captain</p> | <p>1</p> |
| <p>2. Houseless Support Services Update – Report (4:30 p.m.)
 Staff: Ann Ober, City Manager</p> | <p>65</p> |
| <p>3. Adjourn (5:00 p.m.)</p> | |

Executive Session. After the work session Council will meet in executive session pursuant to Oregon Revised Statute (ORS) 192.660 (2)(h) to consult with counsel concerning the legal rights and duties of a public body with regard to current litigation or litigation likely to be filed.

Meeting Accessibility Services and Americans with Disabilities Act (ADA) Notice

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Servicios de Accesibilidad para Reuniones y Aviso de la Ley de Estadounidenses con Discapacidades (ADA)

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Executive Sessions

The City Council may meet in executive session pursuant to Oregon Revised Statute (ORS) 192.660(2); all discussions are confidential; news media representatives may attend but may not disclose any information discussed. Final decisions and actions may not be taken in executive sessions.

COUNCIL STAFF REPORT

To: Mayor and City Council
Ann Ober, City Manager

Date Written: Jan. 26, 2024

Reviewed: Ann Ober, City Manager, and
Justin Gericke, City Attorney

From: Ryan Burdick, Police Captain

Subject: **Criminal Justice Commission STOP Data- 2023 Report**

ACTION REQUESTED

Council is asked to receive a briefing from the Oregon Criminal Justice Commission (CJC) on annual Statistical Transparency of Police (STOP) data and provide feedback.

HISTORY OF PRIOR ACTIONS AND DISCUSSIONS

[July 14, 2020](#): Council discussed a proposed resolution in support of diversity, equity, and inclusion (DEI) and the Black, Indigenous, and People of Color (BIPOC) community crafted by Mayor Gamba and Councilor Hyzy.

[August 4, 2020](#): Council requested a resolution be added to the Aug. 18, 2020, agenda to change the existing community engagement goal to equity, inclusion, and justice.

[August 18, 2020](#): Council approved a resolution adopting an equity, inclusion, and justice goal.

[September 15, 2020](#): Council heard an update on the equity, inclusion, and justice goal, including a STOP data briefing from the acting director of the CJC, Ken Sanchagrin.

[December 21, 2021](#): Council heard an annual briefing on STOP data from the director of the CJC, Ken Sanchagrin.

[April 4, 2023](#): Council received an annual STOP data briefing.

BACKGROUND

The STOP data program was developed through Oregon House Bill (HB) 2355 from the 2017 legislative session. The CJC began collecting and analyzing all discretionary police stops in Oregon. The CJC collects data annually from July 1 through June 30. July 2020 marked the end of the first year of reporting. The CJC publishes an annual report and data each year on December 1. The most recent report can be found in attachment 1.

With multiple years of data collection now complete, the 2023 report provides additional data regarding stops by the Milwaukie Police Department (MPD). Below are the data tables from the report for Milwaukie PD:

MPD Race/Ethnicity Reporting for Tier 2 Agencies for All Reported Stops- Year 5

Asian	Black	Latino	Middle E.	Native	White	Total
142	307	398	74	6	3,076	4,003
3.5%	7.6%	9.9%	1.8%	.01%	77%	

MPD Agency STOPS by Type: Traffic vs. Pedestrian -Year 5

Milwaukie	Traffic	Traffic	Pedestrian	Pedestrian	Total
	3,916	97.8%	87	2.2%	4,003

MPD Agency-Level Decision to Stop Analysis- Year 5

Agency	Asian/ PI	Black	Latinx	Middle East.	Native American
Milwaukie PD	—	1.11	.81	—	—

- A number close to 1 indicates no difference in the rate of stopped drivers for a specific ethnicity from daylight to darkness. This statistical number is often referred to as the “Veil of Darkness” test. This data point assumes that it is easier for an officer to discern race/ethnicity during the day when it is light versus nighttime when it is dark. This analysis compares stop rates for minority individuals to those of white individuals. If, as demonstrated by the statistics that result from the Decision to Stop analysis, minority individuals are more likely to be stopped in the daylight when race/ethnicity is easier to detect, then there is evidence of a disparity. For Milwaukie, there was an insufficient number of stops to determine this number for people of Asian/Pacific Islander, Middle Eastern, or Native American descent, and no statistical disparity noted in the Black or Latino groups.

Efforts Related to Bias-Free Policing

Staff knows that bias is present in all individuals. In recognition of this, staff accepts the responsibility to be proactive in their efforts to minimize bias in the delivery of police services. Some of the things MPD has done in the recent past include:

- Conducted listening sessions with our BIPOC community.
- Worked on relationship building with Milwaukie’s BIPOC residents.
- Implemented a BIPOC review group for police policies and the police contract.
- Provided in-person and virtual training on bias through Fair and Impartial Policing (FIP) in 2020 and 2022.
- Provided collaborative community session on bias in 2022.
- Brought BIPOC community members to meet with police staff to discuss these challenges and their experiences.
- Emphasized equity goals in recruitment, selection, hiring, and on-boarding.
- Including BIPOC community members in a collaborative on-boarding process. Created an [Equity in Policing webpage](#) for data and information.

MPD recognizes there is still very important work to do in this area. The department looks forward to working closely with the city’s equity manager and members of Milwaukie’s BIPOC community to continue to guide our future equity work.

BUDGET & CLIMATE IMPACTS

None.

WORKLOAD IMPACT

Consistently striving to provide bias-free police services has been and will continue to be a significant undertaking. Staff recognizes the importance of this and embraces this responsibility.

COORDINATION, CONCURRENCE, OR DISSENT

None.

STAFF RECOMMENDATION

Staff recognizes how critically important it is to provide bias-free police services. Staff will examine data and information provided by CJC and continue to work closely with the city's equity manager and the CJC to identify future steps to continue to promote bias-free policing.

ALTERNATIVES

Not applicable.

ATTACHMENTS

1. [STOP_Report_2023](#)

STOP REPORT 2023
Per House Bill 2355 (2017)

December 1, 2023



Oregon Criminal Justice Commission

Ken Sanchagrin
Executive Director

The mission of the Oregon Criminal Justice Commission is to improve the legitimacy, efficiency, and effectiveness of state and local criminal justice systems.

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Executive Summary

House Bill 2355 (2017) mandates all Oregon law enforcement agencies to submit data regarding officer-initiated traffic and pedestrian stops to the Oregon Criminal Justice Commission (CJC), so the CJC can analyze the submitted data for evidence of racial or ethnic disparities on an annual basis. The Oregon Statistical Transparency of Policing (STOP) Program, housed at the CJC, was created along with the Oregon State Police and the Oregon Department of Public Safety Standards and Training (DPSST). This is the fifth annual report to the Oregon Legislature by the STOP Program examining data received pursuant to HB 2355.

Table E.1. Descriptive Statistics for Aggregate Year 5 Stop Data

Variable	Tier 1	Tier 2	Tier 3
Traffic Stop	99.2%	98.9%	99.1%
Race/Ethnicity			
Asian/PI	3.4%	2.8%	2.2%
Black	5.0%	3.3%	2.0%
Latinx	16.1%	14.3%	13.0%
Middle Eastern	1.5%	1.0%	0.8%
Native American	0.5%	0.3%	0.4%
White	72.9%	78.2%	80.1%
Gender			
Male	66.9%	64.4%	63.5%
Female	32.9%	35.4%	33.9%
Nonbinary	0.2%	0.2%	1.9%
Age			
Under 21	10.4%	12.0%	11.9%
21-29	22.8%	21.2%	20.0%
30-39	25.2%	25.1%	23.6%
40-49	17.4%	18.5%	17.0%
50 and Older	23.4%	23.0%	26.0%
Stop Disposition			
None	2.9%	7.5%	4.5%
Warning	60.1%	59.5%	67.1%
Citation	34.7%	29.8%	23.0%
Juvenile Summons	0.0%	0.0%	0.0%
Arrest	2.2%	2.3%	4.9%
Search Conducted	1.5%	1.3%	0.7%

Since the passage of HB 2355, the STOP Program has developed a standardized method for data collection as well as data collection software offered free of charge to all state law enforcement agencies. As of December 2023, the STOP Program has received data from 148 law enforcement agencies in the state and analyses using those data are presented in this report. This is the second STOP report to analyze two years of data from all Tier 1, Tier 2, and Tier 3 agencies.

Table E.1. reports descriptive statistics for the combined Tier 1, Tier 2, and Tier 3 data, which represents stops made from July 1, 2022 through June 30, 2023. The majority of stops in Oregon involved white individuals, which, in and of itself, is not surprising given the demographic makeup of Oregon as a whole.

Overall, a little over one-quarter of Tier 1 stops and close to one-fifth of Tier 2 and Tier 3 stops involved Asian or Pacific Islander, Black, Latinx, Middle Eastern, or Native American individuals in Oregon. Once the stop had been initiated, stopped individuals either were subject to no further action or merely given a warning in a little over 60 percent of stops for Tier 1, a little under 70 percent of stops for Tier 2, and a little over 70 percent of stops for Tier 3. Tier 3 agencies made more stops of nonbinary individuals than Tier 1 and Tier 2, which is attributable to a data issue from a few Tier 3 agencies that reported a high proportion of stops for nonbinary individuals. This issue has improved from the previous year of reporting, with overall Tier 3 nonbinary stops being reduced from a little under 9 percent in last year's report to a little under 2 percent in this year of reporting.

To examine the traffic and pedestrian stop data acquired by the STOP Program for racial/ethnic disparities, STOP Program researchers utilized three methods. The first method, which is used to examine the initial decision to stop an individual, was the Decision to Stop analysis. This analysis takes advantage of natural variations in daylight and darkness throughout the year, and is based on the assumption that it is easier for an officer to discern the race/ethnicity of an individual during the day when it is light versus the night when it is dark. Accordingly, the analysis compares stop rates for minority individuals to those for white individuals during the time windows surrounding sunrise and sunset. If, as demonstrated by the statistics that result from the Decision to Stop analysis, minority individuals are more likely to be stopped in the daylight when race/ethnicity is easier to detect, then there would be evidence of a disparity.

The second analytical method employed by the STOP Program is the Stop Outcomes analysis, which examines matched groups using a statistical technique called propensity score analysis to explore whether disparities exist in stop outcomes (i.e., citations, searches, or arrests). If, after matching on all available data points in the stop data (e.g., time of day and day of the week the stop was made, reason for the stop, gender, age), minority individuals are either cited, searched, or arrested more often than similarly situated white individuals, then there would be evidence of a disparity.

Finally, the STOP Program utilized the Search Findings analysis, which compares relative rates of successful searches (i.e., those resulting in the seizure of contraband) across racial/ethnic groups. It is based on the assumption that if search decisions by officers are made based on race/ethnicity neutral criteria, then success rates should be similar, if not identical, across different racial/ethnic categories. If, however, search success rates differ and the search success rates for minority individuals are significantly lower than those reported for white individuals, then there would be evidence of a disparity.

To determine if disparities identified in this report warrant additional in-depth analysis and/or technical assistance from the DPSST, STOP Program researchers reviewed the results of each of the three analyses conducted on the STOP Program data. For each individual analysis, an estimated disparity must meet the 95 percent confidence level for it to be statistically significant. Further, following best practices, for a law enforcement agency to be identified as one requiring further analysis as well as DPSST technical assistance, it must be identified as having a statistically significant disparity in at least two of the three analytical tests performed on the STOP data. However, DPSST has and will continue to provide technical assistance to any agency, regardless of the number of analyses that are statistically significant. No agency was identified as having a statistically significant disparity in two or more tests performed on the STOP data this year. Therefore, no agency is referred to receive technical assistance from DPSST in this report. However, that does not mean that the results for any agencies should be ignored or are not close to the threshold of identification. Regardless of whether an agency is officially referred to DPSST, the CJC urges each agency to scrutinize their full set of results and engage with DPSST on any results that show a statistically significant disparity.

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1. Background

This is the fifth annual report from the Oregon Statistical Transparency of Policing (STOP) Program. In 2017, the Oregon Legislature mandated that by July 2020 all Oregon law enforcement agencies were to collect data concerning all officer-initiated traffic and pedestrian stops. The mandate also required that the Oregon Criminal Justice Commission (CJC) analyze the collected data to determine whether racial disparities exist in the treatment of Oregonians by law enforcement. To implement this mandate, the Legislature required the largest agencies to collect data first, followed by medium and smaller agencies in the intervening years. In December 2019, the CJC published its first annual STOP report, which contained data and analyses for the 12 largest law enforcement agencies in the state. In December 2020, the CJC published its second report, which included an additional 39 mid-sized police agencies. The third annual STOP report, released in December 2021, included all agencies in the state. This report builds on the first three by including analyses that incorporate two years of data for agencies of all sizes. The inclusion of two full years of data in these analyses means that this report analyzes stops from 148 law enforcement agencies in the state¹.

1.1. House Bill (HB) 2355 (2017)

Efforts by the State of Oregon to collect data regarding stops of individuals made by law enforcement began with the passage of HB 2433 in 1997, which mandated that law enforcement agencies develop written policies related to traffic stop data collection. Following the passage of HB 2433, the Governor's Public Safety Policy and Planning Council recommended that a full statewide data collection effort be initiated legislatively. It was not until 2001, however, that the Legislature again considered the collection of police stop data. In Senate Bill (SB) 415 (2001), the Legislature created the Law Enforcement Contacts Policy & Data Review Committee (LECC), which provided for the voluntary collection of stop data by law enforcement agencies, and for analysis of collected data by the LECC.

Apart from a brief hiatus from 2003 to 2005, the LECC engaged with law enforcement agencies throughout the 2000s and 2010s to examine stop data. During this period, however, challenges were encountered related to the creation of a comprehensive database of stops, given that few agencies in Oregon collected stop data and/or elected to partner with the LECC for data analysis. As a remedy, the Legislature passed HB 2355 in 2017, which led to the creation of the STOP Program. The STOP Program represents the culmination of the process started in 1997 and is the first statewide data collection and analysis program focused on traffic and pedestrian stops in Oregon.

HB 2355, which is codified in ORS 131.930 et seq., created a statewide data collection effort for all officer-initiated traffic² and pedestrian³ stops that are not associated with calls for service. The aim of HB 2355 was to collect data regarding discretionary stops, as opposed to stops where discretion was absent. The CJC, in partnership with the Oregon State Police and the Department of Justice, worked to develop a standardized method for collecting the data elements required by statute, which include data regarding both the stop itself as well as demographic characteristics of the stopped individual (for a description of

¹ For a full list of agencies see Appendix A, and for reporting rates by agency see Appendix B – Data Audit.

² Officer initiated traffic stops are defined as any “detention of a driver of a motor vehicle by a law enforcement officer, not associated with a call for service, for the purpose of investigating a suspected violation of the Oregon Vehicle Code” (ORS 131.930 § 4). Included with traffic stops are stops made of individuals operating bicycles. Stops involving operators of watercraft, however, are not included in the stop database, as watercraft violations fall outside the Oregon Vehicle Code (see ORS Chapter 830).

³ Officer initiated pedestrian stops are defined as “a detention of a pedestrian by a law enforcement officer that is not associated with a call for service. The term does not apply to detentions for routine searches performed at the point of entry to or exit from a controlled area” (ORS 131.930 § 3).

the STOP Program data elements utilized in this report, see Section 2.3.1.).

To implement the STOP Program, HB 2355 established a three-Tiered approach, whereby the largest law enforcement agencies in the state would begin to collect data and report in the first year, followed by medium and small agencies in the next two years, respectively. Table 1.1. reports the inclusion criteria for each Tier as well as the data collection and reporting dates. A full list of agencies broken down by Tier can be found in Appendix A.

Table 1.1. Three-Tier Reporting Approach in HB 2355 (2017)

Tier	Number of Officers per Agency	Data Collection Began	Reporting Began
Tier 1	100+	July 1, 2018	July 1, 2019
Tier 2	25-99	July 1, 2019	July 1, 2020
Tier 3	1-24	July 1, 2020	July 1, 2021

In the development of the standardized data collection method, the primary goals of the STOP Program were to ensure that (1) all data collected are as accurate and complete as possible, (2) data collection methods are minimally

impactful to each agency’s workload and free or affordable for each agency, and (3) data collection methods are minimally impactful on law enforcement personnel to ensure that officer safety is not negatively impacted during the data collection process. As such, the STOP Program contracted with a technology vendor to develop software that could both collect and receive stop data via multiple submission methods.

The STOP Program software solution includes three methods of data collection/input. First, the software can receive data from local agencies’ records management systems. Under this approach, an agency with the ability to collect stop data through its own preexisting systems can integrate stop data collection requirements into their in-car or e-ticketing system, recording the data internally before submitting the required data fields to the STOP Program in electronic format via a secure data connection. Second, for agencies that either cannot or choose not to integrate the required stop data fields into their preexisting systems, the STOP Program provides a free web application that can be loaded on officers’ in-car computers (or other similar devices, like iPads) and used when a stop is made that requires data collection under the requirements of HB 2355. Third, the STOP Program provides mobile applications free of charge for both iPhones and Android phones through which officers can submit stop data for qualifying police-citizen interactions under HB 2355.

2. Methodological Approach

2.1. Background

The formal examination of police traffic and pedestrian stop data began in the U.S. in the mid-1990s. Advocacy groups have long cited anecdotal evidence supporting the notion that law enforcement applies different standards to minority drivers and pedestrians. Specific and systematic measurement of police practices during citizen stops, however, did not occur until court cases alleging racial bias in policing were filed (see *Wilkins v. Maryland State Police* (1995) and *State of New Jersey v. Soto et al.* (1996)). Building on this foundation, the US Department of Justice and several other organizations began hosting conferences related to the improvement of police-community relationships with a specific focus on the collection, analysis, and public reporting of traffic and pedestrian stop data. In response, many states mandated the collection of traffic stop data. In states that had yet to require data collection, many local jurisdictions and departments started collecting and analyzing stop data on their own.

During the approximately three decades that stop data have been studied, the majority of analyses have relied on population-based benchmarks. This approach compares the demographic breakdown of stopped individuals to residential census data. Benchmarks are both intuitive and relatively simple to calculate, but

the comparisons that result are overly simplistic and often biased or invalid (see Neil and Winship 2018). The concerns regarding population-based benchmarks are many and discussed at length in academic research as well as in a companion research brief released by the STOP Program in 2018⁴. The central thrust of these critiques is that the driving population in a given area (which forms the pool of individuals at risk for being stopped) is often unrelated to the residential population of that area. There are myriad reasons for this (e.g., commuting patterns and tourism), all of which lead to a disjuncture between residential demographics and driving population demographics in a given area.

2.2. Oregon STOP Program Analyses

To address the shortcomings of population-based benchmark analyses, researchers and statisticians have developed several statistical approaches that allow for more precise and less biased estimates of disparities in stop data. The STOP Program relies on three of these analyses. The decision to utilize multiple tests was based on two factors.

First, there are multiple opportunities within a police-community member interaction where disparate treatment may be present. Initially, it is tempting to view a stop as a single instance of law enforcement-citizen contact that can be assessed for the presence or absence of discriminatory behavior by a law enforcement agent. Race/ethnicity could be a factor in each decision to stop, search, cite, and/or arrest an individual. This distinction is critical, because both the data and analytical techniques required to analyze the various decision points found in a single stop differ. STOP Program researchers address each of these decision points separately.

Second, while the statistical tests utilized by the STOP Program represent the gold standard⁵ in law enforcement stop data analyses, the application of multiple tests is also necessary to address the possibility that any single analysis could produce false positives or false negatives. Statistics are estimates and some degree of error could influence results, whether stemming from data collection practices, errors in reporting, or the like. The three analyses utilized by the STOP Program are⁶:

Decision to Stop Analysis. The Decision to Stop analysis takes advantage of natural variations in daylight and darkness throughout the year to examine the initial decision to stop an individual. Based on the assumption that it is easier for an officer to discern race/ethnicity during the day when it is light than during the night when it is dark, this analysis compares stop rates for minority individuals to those for white individuals during the time windows surrounding sunrise and sunset. If, as demonstrated by the statistics that result from the Decision to Stop analysis, minority individuals are more likely to be stopped in the daylight when race/ethnicity is easier to detect, then there is evidence of a disparity.

Stop Outcomes Analysis. The Stop Outcomes analysis examines matched groups using a statistical technique called propensity score analysis to explore whether disparities exist in stop outcomes (i.e., citations, searches, or arrests). This test matches stop data between two groups based on all available characteristics, only allowing race/ethnicity to vary between the two groups being compared. This means that the analysis compares white and Black groups, for example, who have identical proportions of gender, age, stop time of the day, stop day of the week, reason for the stop, season of the year, whether the stop was made in the daylight, and agency and county stop volumes. The test determines whether one

⁴ See STOP Program Research Brief: Analytical Approaches to Studying Stops Data (October 2018), which can be found at [Traffic Stop Research Memo Final Draft-10-16-18.pdf \(oregon.gov\)](#).

⁵ The analytical approach utilized by the STOP Program is based on the work conducted by the Connecticut Racial Profiling Prohibition Project, which employs research and analytical techniques that have been peer reviewed by academics who specialize in the study of racial/ethnic disparities in law enforcement contacts.

⁶ More detailed and technical descriptions of these analyses can be found in Appendices E, F, and G.

group is cited more often, searched more often, or arrested more often. If, after matching on all the factors listed above and further controlling for these factors with regression analysis, minority individuals are either cited, searched, or arrested more often than similarly situated white individuals, then there is evidence of a disparity.

Search Findings Analysis. The Search Findings analysis compares relative rates of successful searches (i.e., those resulting in the seizure of contraband) across racial/ethnic groups. It is based on the assumption that if search decisions by officers are based on race/ethnicity neutral criteria, then search success rates should be similar, if not identical, across different racial/ethnic categories. If, however, search success rates differ and the search success rates for minority individuals are significantly lower than those reported for white individuals, then there is evidence of a disparity.

2.3. Analytical Sample

2.3.1. Data Elements

A total of 521,870 records were submitted by 144 Tier 1, Tier 2, and Tier 3 agencies during the fifth year of data collection. As required by HB 2355 (2017), agencies submit numerous data points, including information regarding the stop itself as well as information regarding the stopped individual. While HB 2355 is clear regarding the data elements the STOP Program is required to collect, it did not define these elements. To fill this gap, the Oregon State Police assembled a group of stakeholders, which included representatives from law enforcement, community groups, state agencies, and the Oregon Legislature, to formally define the following data elements required for submission by the statute:

Date and Time the Stop Occurred. Law enforcement personnel are required to record the date (month/day/year) and time that the stop occurred. The data is further categorized into day of the week and season. Stop times are recorded on a 24-hour clock (“military time”) and converted to 12-hour clock time for this report.

Type of Stop. As required by HB 2355, both traffic and pedestrian stops are reported by law enforcement. Included in the database is a binary variable denoting whether the record is for a traffic or pedestrian stop. During the analysis of this data element, it was discovered that in a number of cases, stops were coded as “pedestrian” that were clearly for moving or other traffic violations. Similarly, some stops were coded as “traffic” that were clearly violations by pedestrians. These stops were recoded by STOP Program researchers to the appropriate categories⁷.

Perceived Race/Ethnicity of Subject. Law enforcement officers are required by HB 2355 to record their perception of a subject’s race/ethnicity (only the perceived race/ethnicity of the driver, not the passenger(s), is reported for traffic stops). The categories included in the data collection are: white, Black, Latinx, Asian or Pacific Islander (hereinafter, Asian/PI), Native American, and Middle Eastern. The STOP data solution combines race and ethnicity into a single variable, and allows for one option to be selected. This differs from defined Census categories⁸, and doesn’t account for the additional nuance of multiple races and individuals who are not white and Latinx. However, to simplify the data collection process and in recognition of the challenges for law enforcement officers to record perceived race/ethnicity, a single combined variable is available.

⁷ For instance, 161 Year 5 stops were labeled as traffic stops, but the citation code was ORS 814.070, which refers to a pedestrian improperly proceeding along a highway. These stops were reclassified by CJC researchers as pedestrian stops.

⁸ See U.S. Census Bureau at <https://www.census.gov/topics/population/race/about.html> and <https://www.census.gov/topics/population/hispanic-origin/about.html>

Perceived Gender of Subject. Law enforcement officers are required by HB 2355 to record their perception of a subject’s gender (for traffic stops, only the perceived gender of the driver, not the passenger(s) is reported). The categories included in the data collection are male, female, and nonbinary.

Perceived Age of Subject. Law enforcement officers are required by HB 2355 to record their perception of a subject’s age, which is entered as a whole number (for traffic stops, only the perceived age of the driver, not the passenger(s) is reported).

Legal Basis for the Stop. The legal basis for each stop is reported to the STOP Program. This includes violations of an Oregon statute, a municipal traffic code, a municipal criminal code, a county code, TriMet rules/regulations, or a federal statute.

Oregon Statutory Violations Detail. For violations of an Oregon statute, which represent over 90 percent of all stops, law enforcement provides the specific ORS code corresponding to the violation. In this data element, over 700 different ORS codes were reported during the first year of data collection. To simplify the use of this information in the models conducted in the remainder of this report, the STOP Program research team aggregated these violations into the following categories: serious moving violations; minor moving violations; equipment, cell phone, and seat belt violations; registration and license violations; and “other” violations (e.g., criminal offenses, camping violations)⁹.

Disposition of the Stop. The final disposition for each stop is reported by law enforcement officers. The categories included in the data collection are: nothing; warning; citation; juvenile summons; and arrest. It is important to note that stops can have multiple dispositions (e.g., an individual could be both cited for a traffic violation and arrested for a crime), however, only the final, or most serious, disposition is reported into the STOP Program database. This means that the categories for warnings, citations, and juvenile summons could be undercounted. For the analyses examining stop disposition in this report, the juvenile summons category was removed from the data set because the Year 5 data included only 133 juvenile summons (0.03 percent of all dispositions).

Whether a Search was Conducted. Law enforcement officers report whether or not a search was conducted, which is recorded as a binary in the STOP Program database. Searches incident to arrest and other non-discretionary searches are not recorded.

Justification for the Search. Law enforcement officers can provide several bases for a search using the following categories: consent search; consent search denied; or “other” search. The “other” search category includes frisks, probable cause searches, and other administrative searches. Multiple data points are allowed so that the data can include several search justifications. For example, if an officer initially requests to search an individual but consent is not given, an officer may then perform a search based on probable cause. In this example, the officer could record both “consent search denied” as well as “other search” into the database.

Search Findings. Seven categories were predefined by the STOP Program stakeholder engagement group with regard to search findings. These categories are: nothing; alcohol; drugs; stolen property; weapon(s); other evidence; and other non-evidence. Officers are permitted to report up to six search findings to the STOP database so that searches resulting in the seizure of multiple types of contraband are properly documented.

Stop Location. Law enforcement officers are required by HB 2355 to record the location of the stop. The

⁹ Details on the offenses falling into each category are available upon request.

form in which these data are submitted varies by agency. Some agencies report latitude and longitude X,Y coordinates, while others submit textual descriptions of the location (e.g., 123 Main Street, intersection of Main and Maple Streets).

The STOP Program created four of its own variables for use in its analyses. Following best practices, variables representing both the daily agency stop volume and daily county stop volume were created. For agency stop volume, the aggregate number of stops for a single date are divided by the maximum number of daily stops for the agency unit in question. Thus, if an agency stopped 1,000 drivers on its busiest day, this would be the denominator against which all other days would be compared. A measure of the county stop volume would be calculated the same way, although all stops made by agencies within a single county would be included together. Additionally, variables representing sunrise time and sunset time were made for use in the Decision to Stop and Stop Outcomes analyses¹⁰. Every traffic stop is defined to have occurred in daylight or darkness based on the date, time, and location of the stop. Astronomical data from the United States Naval Observatory is used to determine the sunrise, sunset, and start and end of civil twilight.

In 2019 and 2021, the STOP program added two additional optional data categories. First, in July 2019, the STOP Program began collecting data on whether the stopped individual was perceived prior to the police stop. This data point is particularly valuable in the Decision to Stop analysis which relies on the assumption that the race of the driver will be harder for the officer to perceive in darkness. Data on whether the subject, and their race, was perceived prior to the stop enables analysts to test the Decision to Stop assumption. Second, beginning in February 2021, law enforcement agencies were able to start submitting additional data to the STOP Program on the reason for the most serious stop disposition. Previously, for example, if an officer stopped someone for a moving violation but the stop ended in arrest because of an outstanding warrant, analysts would only be able to see a moving violation ending in arrest. This additional data point allows the STOP program analysts to more accurately account for the reason for the stop disposition. These additional data points are submitted voluntarily by STOP agencies. Appendix D includes an additional analysis for the Stop Outcomes analysis for agencies that submitted the additional optional variables.

2.3.2. Sample

While the overall number of records was substantial, the STOP Program team faced challenges with regard to sample size when the data were broken down into subsamples based on race/ethnicity and agency. Tier 3 agencies have fewer officers than Tier 1 and Tier 2 agencies, and therefore submit a relatively low number of

Table 2.3.2.1. Sample Size Thresholds for Conducting Statistical Analyses

Statistical Test	Sample Size Threshold
Decision to Stop	Minimum of 100 observations for an individual racial/ethnic group ¹¹
Stop Outcomes	Model convergence ¹²
Search Findings	Minimum 30 observations per racial/ethnic group analyzed; no cell with less than 5 observations

¹⁰ Sunrise time and sunset time were also used for analysis conducted for the 2019, 2020, and 2021 STOP reports. They were not explicitly listed in this section previously, however their construction is the same as in the past.

¹¹ Wilson, Voorhis, and Morgan (2007: 48) recommend that for regression equations where six or more variables are included in the model, “an absolute minimum of 10 participants per predictor variable is appropriate.” While this is the minimum, if possible, they recommend 30 participants per predictor. Further, in instances where the outcome variable is skewed due to the small sizes of minority groups relative to the white group, larger sample sizes are needed. In this report, the STOP research team elected to use the 10-participant minimum, which when multiplied by 10 predictor variables sets the minimum number of observations for an individual racial/ethnic group at 100.

¹² All possible racial group and stop outcome models are estimated in Stata (a statistical software for data analysis). Models that did not converge are not included in the results.

police stops. For example, four Tier 3 agencies made fewer than 100 stops in Year 5. In cases where the sample size is too small, statistical analyses cannot be conducted.

To determine appropriate thresholds for sample size, the STOP Program relied on established criteria set in the academic and professional literature. Drawing on standards described by Wilson, Voorhis, and Morgan (2007), the STOP Program used the sample size thresholds in Table 2.3.2.1.

The sample size issue identified above had a significant impact on the STOP Program research team’s ability to conduct analyses on each of the racial/ethnic groups found in the stop database. Table 2.3.2.2.a., Table 2.3.2.2.b., and Table C.1. in Appendix C report the breakdown by race/ethnicity and agency for all Tier 1, Tier 2, and Tier 3 agencies, respectively, for stops occurring from July 1, 2022, through June 30, 2023, the most recent year of data collection. In several cases, even with two years of data, the total number of stopped individuals for certain racial/ethnic groups falls under the thresholds defined in Table 2.3.2.1. Further, once the STOP Program research team began to analyze subsets of the data (e.g., only those individuals who were searched, or arrested; those observations that met the standards to be included in the Decision to Stop), many of these counts fell under the requisite thresholds. To combat sample size issues, this report includes two years of data in all analyses.

Table 2.3.2.2.a. Race/Ethnicity Reporting for Tier 1 Agencies for All Reported Stops – Year 5

Agency	Asian/PI	Black	Latinx	Middle Eastern	Native American	White	Total
Beaverton PD	867	1,201	2,958	373	97	8,390	13,886
Clackamas CO SO	871	1,246	3,101	315	177	15,743	21,453
Eugene PD	298	598	815	0	0	8,374	10,085
Gresham PD	102	411	510	31	16	1,279	2,349
Hillsboro PD	443	435	2,129	205	30	3,989	7,231
Marion CO SO	352	344	2,466	170	12	10,185	13,529
Medford PD	72	187	714	22	8	2,909	3,912
Multnomah CO SO	422	1,110	1,655	147	45	6,321	9,700
Oregon State Police	4,299	5,109	24,640	2,174	873	135,899	172,994
Portland PB	681	2,721	1,944	220	73	8,286	13,925
Salem PD	143	210	1,495	38	17	3,193	5,096
Washington CO SO	1,543	1,332	5,872	770	84	14,487	24,088
Total Tier 1	10,093	14,904	48,299	4,465	1,432	219,055	298,248

Table 2.3.2.2.b. Race/Ethnicity Reporting for Tier 2 Agencies for All Reported Stops – Year 5

Agency	Asian/PI	Black	Latinx	Middle Eastern	Native	White	Total
Albany PD	82	148	738	24	12	4,703	5,707
Ashland PD	33	55	82	9	1	1,221	1,401
Bend PD	84	75	400	16	10	3,769	4,354
Benton CO SO	201	188	561	59	10	4,351	5,370
Canby PD	57	48	720	16	5	2,101	2,947
Central Point PD	33	44	194	4	1	1,188	1,464
Corvallis PD	422	309	636	154	22	5,363	6,906
Deschutes CO SO	49	45	279	15	3	2,201	2,592
Douglas CO SO	22	15	48	2	0	904	991
Forest Grove PD	140	165	1,557	57	7	3,259	5,185
Grants Pass PD	27	49	192	5	5	2,647	2,925
Hermiston PD	35	65	1,760	9	28	2,079	3,976
Hood River CO SO	48	22	444	19	0	1,042	1,575
Jackson CO SO	52	106	638	21	2	3,337	4,156
Keizer PD	61	82	630	19	0	1,380	2,172
Klamath CO SO	21	14	73	7	2	359	476
Klamath Falls PD	93	56	338	10	9	1,778	2,284
Lake Oswego PD	349	312	606	182	66	5,628	7,143
Lane CO SO	142	229	521	52	8	6,013	6,965
Lebanon PD	4	7	28	1	0	561	601
Lincoln CO SO	81	30	198	13	14	1,608	1,944
Lincoln City PD	50	28	169	11	0	786	1,044
Linn CO SO	40	109	418	24	20	4,511	5,122
McMinnville PD	22	22	346	4	1	1,203	1,598
Milwaukie PD	142	307	398	74	6	3,076	4,003
Newberg-Dundee PD	107	95	713	35	0	3,369	4,319
OHSU PD	3	9	14	3	0	33	62
Oregon City PD	152	261	726	54	49	5,944	7,186
Polk CO SO	141	119	834	37	8	2,796	3,935
Port of Portland PD	117	283	196	40	8	1,181	1,825
Redmond PD	53	30	424	20	0	2,873	3,400
Roseburg PD	23	85	236	23	8	4,562	4,937
Springfield PD	69	300	557	4	0	5,436	6,366
Tigard PD	245	304	773	147	12	2,764	4,245
Tualatin PD	157	132	647	71	8	2,801	3,816
UO PD	5	11	11	0	0	200	227
West Linn PD	133	113	271	59	26	2,285	2,887
Woodburn PD	9	12	515	6	1	311	854
Yamhill CO SO	140	102	942	30	11	3,658	4,883
Total Tier 2	3,644	4,386	18,833	1,336	363	103,281	131,843

A final concern is the prevalence of missing data. Resource limitations at some law enforcement agencies with a small number of staff is a challenge for STOP data submission and increases the potential for missing data. These resource and staffing limitations are likely exacerbated by the impacts of the COVID-19 pandemic, with Tier 3 agencies beginning data collection in July 2020 shortly after the pandemic started. Missing data in the context of the STOP Program could come from two sources. First, a data point could be missing because it was never entered. Second, a data point could be submitted in an invalid format which lacks the information necessary to determine where it fits into the STOP Program data schema. Missing data attributable to both of these sources were found.

2.4. Threshold for Statistical Significance

To determine if disparities identified in this report warrant additional in-depth analysis and/or technical assistance from the DPSST, STOP Program researchers reviewed the results of each of the three analyses conducted on the STOP Program data. For each individual analysis, an estimated disparity must meet the 95 percent confidence level for it to be statistically significant. This means that the STOP Program research team must be at least 95 percent confident that differences or disparities identified by the analyses were not due to random variation in statistical estimates. In some cases, confidence in the reported results exceeded the 95 percent confidence threshold.

When possible, multiple comparisons were made for each agency test. In situations where multiple tests are employed, all of which may indicate statistical significance, best practices require Bonferroni adjustments¹³ to adjust for the likelihood of a given test yielding a false positive result. The Bonferroni adjustment differed for each agency test, contingent on the number of comparisons made. The number of comparisons is detailed in Table 2.4.1. Some agencies had too few stops of Asian/PI, Black, Latinx, Middle Eastern, or Native American individuals to run tests for each group. Therefore, the magnitude of the Bonferroni adjustment may differ by agency, based on the number of tests run for that agency.

Table 2.4.1. Bonferroni Adjustment by Analysis

Analysis	Number of Comparisons per Agency
Decision to Stop	Up to 5 comparisons
Stop Outcomes	Up to 20 comparisons
Search Findings	Up to 5 comparisons

Beyond the 95 percent confidence threshold for each individual analysis, STOP Program researchers also established a threshold at which identified disparities warrant further investigation and technical assistance from DPSST at the project level. Following best practices and the “gold

standard” analyses conducted by the State of Connecticut¹⁴, for a law enforcement agency to be identified as one requiring further analysis as well as DPSST technical assistance, it must be identified as having a statistically significant disparity in at least two of the three analytical tests performed on the STOP data¹⁵. The justification for this approach mirrors the reasoning behind the utilization of multiple tests to examine the data acquired for this project. As discussed previously, given that the statistical output provided in this report in many instances are estimates which could lead to false positives or false negatives in any single

¹³ The Bonferroni Adjustment is a widely used statistical method that protects against the multiple comparison problem. For statistical tests that make multiple comparisons (for example, a single agency is tested for multiple race groups), the likelihood of finding a statistically significant result is higher. The Bonferroni Adjustment controls for that higher likelihood by raising the threshold for statistical significance for any one of the multiple comparisons, dependent upon the actual number of comparisons. See an example of how the Adjustment is used for the Search Findings Analysis in Appendix F.

¹⁴ The Connecticut Racial Profiling Prohibition Project is located at <http://www.ctrp3.org/>.

¹⁵ The State of Connecticut applies a sliding scale in its analyses, whereby a disparity identified via the Veil of Darkness analysis alone results in an agency being identified for further analysis. For its other analyses, two or more identified disparities results in further analysis. Unlike Connecticut, the Oregon STOP Program treats all three of its analyses as coequal while retaining the two-or-more-out-of-three threshold.

analysis, best practices suggest that caution should be taken when examining and interpreting results from the statistical tests we performed.

2.5. Limitations

The data collected by the STOP Program for the State of Oregon represent one of the most robust stop data collection efforts in the United States. While data are collected by some jurisdictions in most states, few states can boast a statewide, statutorily mandated data collection effort like Oregon's. This robust database and the statistical evaluation of stop data can form the foundation of a transparent dialogue between state leaders, government agencies, law enforcement, and the communities law enforcement agencies serve.

Despite its promise as a means for systematically analyzing statewide data concerning police-citizen interactions, the STOP Program and its associated data and analyses have limitations. First, the statistical analyses can only identify disparities in police/citizen interactions during discretionary stops. This means that the analyses contained in this report cannot be used either as absolute proof that a law enforcement agency engaged in racially biased conduct or as disproof of racially biased conduct. Further, the results in this report are conducted at the police agency level because HB 2355 expressly forbids the collection of data that identify either stopped individuals or officers. These analyses, therefore, can only identify systematic disparities across a law enforcement agency or at a larger level of aggregation. As such, regardless of whether a department is reported to have an identified disparity or not, this report cannot and does not discount or speak to the personal experiences of individuals who have been subjected to biased treatment.

Despite these limitations, the statistical results presented in the following sections demonstrate that after the application of rigorous standards, if multiple disparities are identified for an agency, then there is cause for concern, further investigation, and technical assistance. STOP Program researchers have selected highly respected, thoroughly vetted and peer reviewed, cutting-edge analyses. The STOP Program stands behind the significant amount of work that went into the analyses and crafting of this report and believes that the results presented herein will contribute to the dialogue between law enforcement and Oregonians.

3. Characteristics of Year 5 Stop Data

3.1. General Characteristics

While the analyses contained in Sections 4., 5., and 6. utilize two years of submitted data, this section analyzes data collected by the STOP Program for officer-initiated traffic and pedestrian stops solely for the most recent year, which includes stops made between July 1, 2022, through June 30, 2023. In total, 521,870¹⁶ stops were submitted to the STOP Program by 144 Tier 1, Tier 2, and Tier 3 agencies during Year 5. The number of stops reported by each agency is displayed in Table 3.1.1.a., and Table 3.1.1.b., and Table C.2. in Appendix C. There was significant variation in the frequency with which Tier 1, Tier 2, and Tier 3 agencies stopped individuals. Tier 1 agencies generally made more stops than Tier 2 agencies, which in turn made more stops than Tier 3 agencies, which is consistent with size differences in terms of officers employed. The Oregon State Police, which is the state's largest law enforcement agency, made 175,276 stops in Year 5, the largest number reported by any one agency and accounting for over one-third of all stops in the state. At the other end of the continuum, Enterprise PD made the fewest stops, totaling

¹⁶ Of these 521,870 stops, 137, or 0.03%, were not definitively identified as either a pedestrian or traffic stop, and were therefore excluded from Table 3.1.1.a, Table 3.1.1.b., and Table C.2. Therefore, stop totals in these tables do not add up to exactly 521,870.

50, accounting for less than 0.0001 percent of the reported stops in Year 5.

Table 3.1.1.a. Number and Percent of Tier 1 Agency Stops by Stop Type, Traffic vs. Pedestrian

Agency Name	Traffic		Pedestrian		Total
	Count	Percent	Count	Percent	
Beaverton PD	13,335	96.0%	551	4.0%	13,886
Clackamas CO SO	20,920	97.5%	532	2.5%	21,452
Eugene PD	10,164	100.0%	0	0.0%	10,164
Gresham PD	2,336	99.4%	13	0.6%	2,349
Hillsboro PD	7,160	99.0%	71	1.0%	7,231
Marion CO SO	13,418	99.2%	114	0.8%	13,532
Medford PD	3,817	97.6%	95	2.4%	3,912
Multnomah CO SO	9,569	98.6%	131	1.4%	9,700
Oregon State Police	174,722	99.7%	554	0.3%	175,276
Portland PB	13,819	99.2%	106	0.8%	13,925
Salem PD	4,862	95.4%	234	4.6%	5,096
Washington CO SO	23,963	99.5%	125	0.5%	24,088
Tier 1 Total	298,085	99.2%	2,526	0.8%	300,611

Tables 3.1.1.a. above and 3.1.1.b. below and Table C.2. in Appendix C report the number and percentage of stops by agency broken down by stop type—traffic or pedestrian—and separated by Tier. Stop type has been adjusted as described in Section 2.3.1. By agency and within Tier, the frequency with which pedestrian stops were made, as well as the degree to which those stops affected a department’s overall stop profile, varied significantly. Across all tiers, Tier 2 agencies had the highest proportion of pedestrian stops with 1.1 percent compared to Tier 1 and Tier 3’s 0.8 percent each. Of all Tier 1 agencies, Salem PD made the highest proportion of pedestrian stops, followed by Beaverton PD, which differs from past reports. Of Tier 2 agencies, Roseburg PD had the highest proportion of pedestrian stops. One Tier 3 agency, Union Pacific Railroad, reported 100 percent pedestrian stops. This is likely due to its presence as a small agency which does not patrol highways or streets.

Table 3.1.1.b. Number and Percent of Tier 2 Agency Stops by Stop Type, Traffic vs. Pedestrian

Agency Name	Traffic		Pedestrian		Total
	Count	Percent	Count	Percent	
Albany PD	5,662	99.2%	45	0.8%	5,707
Ashland PD	1,390	99.2%	11	0.8%	1,401
Bend PD	4,337	99.6%	17	0.4%	4,354
Benton CO SO	5,358	99.8%	12	0.2%	5,370
Canby PD	2,936	99.6%	11	0.4%	2,947
Central Point PD	1,449	99.0%	15	1.0%	1,464
Corvallis PD	6,856	99.3%	50	0.7%	6,906
Deschutes CO SO	2,589	99.9%	3	0.1%	2,592
Douglas CO SO	996	99.8%	2	0.2%	998
Forest Grove PD	5,145	99.2%	40	0.8%	5,185
Grants Pass PD	2,829	96.7%	96	3.3%	2,925
Hermiston PD	3,880	97.5%	101	2.5%	3,981
Hood River CO SO	1,574	99.9%	1	0.1%	1,575
Jackson CO SO	4,147	99.8%	9	0.2%	4,156
Keizer PD	2,172	100%	0	0%	2,172
Klamath CO SO	474	99.6%	2	0.4%	476
Klamath Falls PD	2,284	100%	0	0%	2,284
Lake Oswego PD	7,123	99.7%	20	0.3%	7,143
Lane CO SO	7,026	99%	70	1.0%	7,096
Lebanon PD	601	100%	0	0%	601
Lincoln CO SO	1,941	99.8%	3	0.2%	1,944
Lincoln City PD	1,035	99.1%	9	0.9%	1,044
Linn CO SO	5,112	99.8%	10	0.2%	5,122
McMinnville PD	1,584	99.1%	14	0.9%	1,598
Milwaukie PD	3,916	97.8%	87	2.2%	4,003
Newberg-Dundee PD	4,306	99.7%	13	0.3%	4,319
OHSU PD	62	100%	0	0%	62
Oregon City PD	6,922	96.3%	264	3.7%	7,186
Polk CO SO	3,933	99.9%	2	0.1%	3,935
Port of Portland PD	1,791	97.9%	39	2.1%	1,830
Redmond PD	3,397	99.9%	3	0.1%	3,400
Roseburg PD	4,676	94.7%	261	5.3%	4,937
Springfield PD	6,446	99.9%	6	0.1%	6,452
Tigard PD	4,085	96.2%	160	3.8%	4,245
Tualatin PD	3,791	99.3%	25	0.7%	3,816
UO PD	227	100%	0	0%	227
West Linn PD	2,878	99.7%	9	0.3%	2,887
Woodburn PD	845	98.9%	9	1.1%	854
Yamhill CO SO	4,874	99.8%	9	0.2%	4,883
Tier 2 Total	130,649	98.9%	1,428	1.1%	132,077

The demographic breakdowns for traffic and pedestrian stops are reported in Table 3.1.2. For all agencies contained in this report, the majority of stops were of white drivers/pedestrians, with Latinx and Black individuals being the two most frequently stopped minority groups overall. This pattern held when broken down by traffic versus pedestrian stops, although white individuals made up a higher proportion of pedestrians across all Tiers. With regard to gender, more males were stopped than females. This gender difference is more pronounced in pedestrian stops. Most traffic and pedestrian stops are of individuals perceived to be aged in their thirties, slightly more so for pedestrians, across all Tiers. This echoes previous years' data. Tier 3 agencies stopped a higher proportion of older individuals than other Tiers.

Table 3.1.2. Aggregate Demographics by Tier and Stop Type

	Tier 1			Tier 2			Tier 3		
	Traffic	Ped.	Total	Traffic	Ped.	Total	Traffic	Ped.	Total
Race/Ethnicity									
Asian/PI	3.4%	1.5%	3.4%	2.8%	1.4%	2.8%	2.2%	0.7%	2.2%
Black	5.0%	4.7%	5.0%	3.3%	3.9%	3.3%	2.0%	2.3%	2.0%
Latinx	16.1%	12.5%	16.1%	14.3%	9.7%	14.3%	13.0%	8.7%	13.0%
Mid. East.	1.5%	0.5%	1.5%	1.0%	0.4%	1.0%	0.8%	0.1%	0.8%
Native	0.5%	0.6%	0.5%	0.3%	0.6%	0.3%	0.4%	4.0%	0.4%
White	72.8%	80.1%	72.9%	78.1%	84.0%	78.2%	80.1%	82.7%	80.1%
Gender									
Female	33.0%	16.6%	32.9%	35.5%	21.1%	35.4%	33.9%	24.8%	33.9%
Male	66.8%	82.8%	66.9%	64.2%	78.4%	64.4%	63.4%	74.6%	63.5%
Nonbinary	0.2%	0.2%	0.2%	0.2%	0.4%	0.2%	1.9%	0.3%	1.9%
Age									
Under 21	10.5%	5.1%	10.4%	12.0%	6.1%	12.0%	11.9%	10.0%	11.9%
21-29	22.9%	17.9%	22.8%	21.3%	14.5%	21.2%	20.1%	18.5%	20.0%
30-39	25.1%	35.7%	25.2%	25.0%	32.1%	25.1%	23.5%	29.6%	23.6%
40-49	17.4%	22.8%	17.4%	18.5%	24.9%	18.5%	16.9%	22.8%	17.0%
50+	23.5%	18.0%	23.4%	23.0%	22.1%	23.0%	26.1%	18.9%	26.0%

Table 3.1.3. displays the most serious dispositions reported by law enforcement. Most police stops did not result in further action taken against the stopped individual. The most common outcome of a stop regardless of type or Tier was a warning¹⁷. Over 70 percent of stops by Tier 3 agencies end in no action or a warning, which is a higher proportion than Tier 1 and Tier 2 agencies. Juvenile summons remains a rare outcome as in past reports.

¹⁷ It is the policy of many agencies to give a warning to everyone who is stopped.

Table 3.1.3. Stop Disposition by Stop Type and Tier

Disposition	Tier 1			Tier 2			Tier 3		
	Traffic	Ped.	Total	Traffic	Ped.	Total	Traffic	Ped.	Total
None	2.9%	7.8%	2.9%	7.6%	11.1%	7.6%	4.6%	6.1%	4.6%
Warning	60.2%	52.9%	60.1%	60.1%	52.5%	60.0%	67.4%	68.6%	67.4%
Citation	34.9%	18.0%	34.7%	30.2%	14.3%	30.1%	23.2%	5.4%	23.1%
Juv. Summons	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	1.2%	0.0%
Arrest	2.1%	21.3%	2.2%	2.1%	22.1%	2.3%	4.8%	18.8%	4.9%

Table 3.1.4. provides Year 5 search data, stratified by Tier. Tier 1 agencies conduct searches in 1.5 percent of stops, a higher percentage than Tier 2 and Tier 3. Pedestrians were searched more often than drivers, but searches were less successful. For Tier 1 agencies, 37.7 percent of all searches were consent searches, while 47.3 percent of all Tier 2 searches were consent searches. Tier 3 agencies had the least consent searches of the Tiers, at just over a quarter of all searches. Items Seized may include multiple types of items seized and includes only incidents where there was a decision to search. Echoing previous STOP reports, drugs were the most common form of contraband found in Tier 1 and Tier 2 searches. Conversely, Tier 3 agencies found alcohol most often (24.4 percent) during a search and found alcohol more often than Tier 2 (11.8 percent) or Tier 1 agencies (10.9 percent).

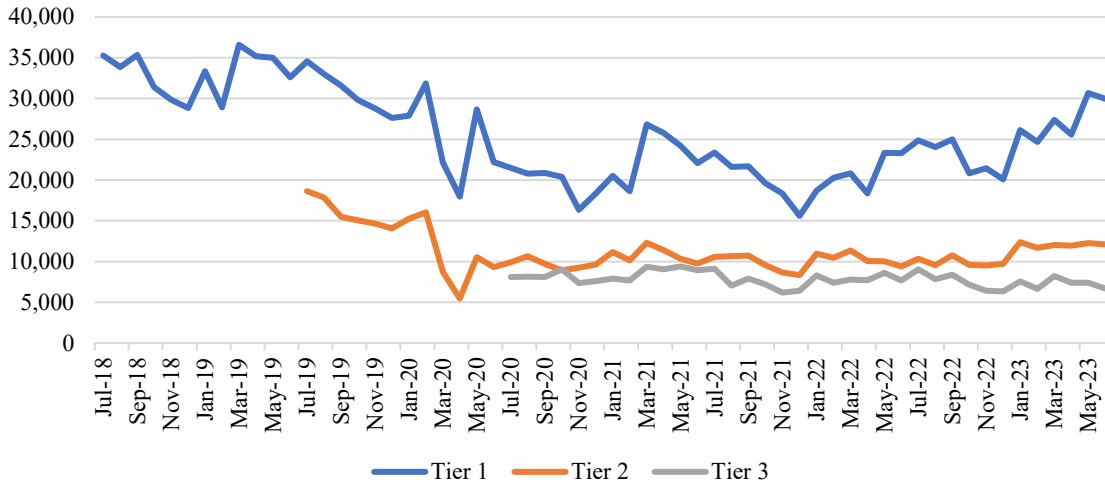
Table 3.1.4. Search Results by Stop Type and Tier

	Tier 1			Tier 2			Tier 3		
	Traf.	Ped.	Total	Traf.	Ped.	Total	Traf.	Ped.	Total
Search Conducted	1.4%	15.2%	1.5%	1.2%	14.8%	1.3%	0.6%	14.7%	0.7%
Reason									
Consent Search	36.8%	48.4%	37.7%	45.2%	62.6%	47.3%	30.3%	13.7%	27.8%
Consent Search Denied	0.8%	1.6%	0.9%	0.2%	0.0%	0.2%	0.2%	0.0%	0.2%
'Other' Search	62.4%	50.0%	61.4%	54.6%	37.4%	52.6%	69.5%	86.3%	72.1%
Percent Successful	46.2%	44.0%	46.0%	42.4%	40.8%	42.2%	52.2%	42.2%	50.7%
Item Seized									
Alcohol	11.5%	4.2%	10.9%	12.4%	7.6%	11.8%	28.4%	2.9%	24.4%
Drugs	19.8%	18.8%	19.7%	16.4%	23.7%	17.3%	13.5%	20.6%	14.6%
Weapons	5.5%	4.4%	5.4%	4.0%	2.8%	3.8%	3.1%	6.9%	3.6%
Stolen Property	1.1%	2.3%	1.2%	0.6%	1.9%	0.8%	0.9%	2.0%	1.1%
Other Evidence	5.3%	11.7%	5.9%	2.9%	0.9%	2.7%	2.5%	0.0%	2.1%
Other Non-Evidence	2.9%	2.6%	2.9%	6.2%	3.8%	5.9%	3.9%	9.8%	4.9%

3.2. Longitudinal STOP Data Trends

While the analyses contained in Sections 4, 5, and 6 utilize two years of submitted data, this section analyzes data collected by the STOP Program for officer-initiated traffic and pedestrian stops for the entire history of the program beginning in 2018. Figure 3.2.1. displays stops made by Oregon law enforcement agencies from July 2018 through June 2023, stratified by Tier. While Tier 1 and Tier 2 agencies began reporting in 2018 and 2019 respectively, Tier 3 agencies were not required to submit data until July 2020. From February to April 2020, when COVID-19 mitigation efforts were first put in place, Tier 1 stop volume dropped by 44 percent and Tier 2 stop volume dropped by a greater percentage, 66 percent.

Figure 3.2.1. Stops by Month of Year by Tier



In November 2020, a two-week statewide freeze was implemented to prevent the spread of COVID-19, and stop volume dropped particularly for Tier 1 agencies. As COVID-19 vaccines became more widely available, stop volume increased and generally peaked in March 2021. From March to December 2021, stop volume shows an overall decline, likely due to subsequent COVID-19 waves, case counts, and other resource challenges including staffing shortages. Tier 1 agencies show a 42 percent drop in stop volume from March to December 2021, while Tier 2 and Tier 3 agencies dropped 32 percent. As case counts declined and the pandemic abated, stop volume increased by varying levels across tiers. From December 2021 to June 2023, Tier 1 agencies show a 92 percent increase in stop volume, while Tier 2 agencies increased 45 percent, and Tier 3 agencies show a more modest increase of five percent.

Figure 3.2.2. Stops by Race/Ethnicity, July 2019 - June 2023

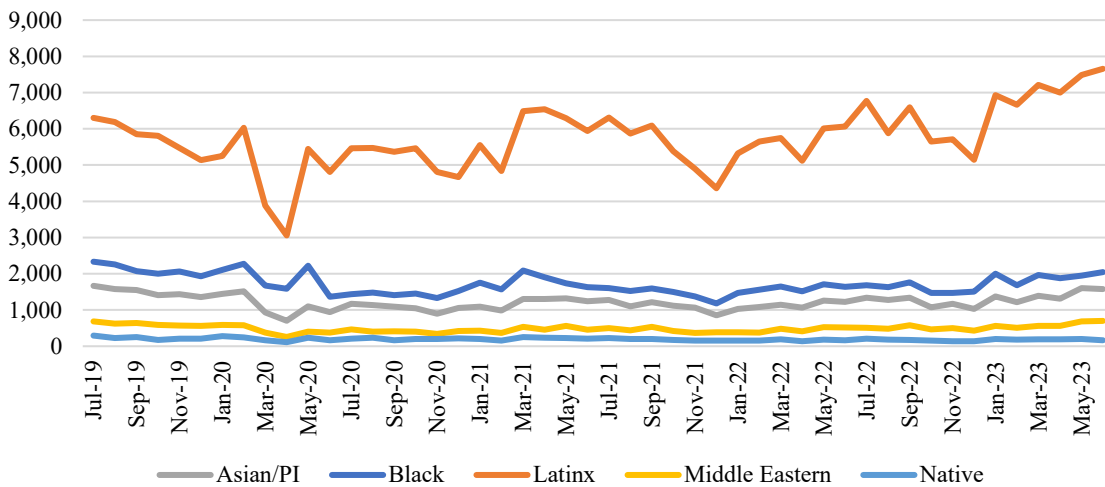


Figure 3.2.2. shows all reported stops by racial/ethnic group—excluding stops of white individuals—from July 2019 through June 2023¹⁸. In the December 2020 report, STOP researchers noted that, although stops dropped for all racial groups in March and April 2020, stops of Black individuals did not fall as much as other racial/ethnic groups, potentially because white workers were more likely to work from home¹⁹. This result is partially echoed in later months as the pandemic continued to influence stop volumes. While stop volume increased in March 2021, the general decrease to the end of the year was not uniform across racial/ethnic groups. From March to December 2021, stops of white individuals dropped 38 percent, while stops of Black individuals decreased 44 percent and stops of Native American individuals dropped 38 percent. The drop in stops for other racial groups show a 33 percent reduction for Latinx individuals, 35 percent decrease for Asian/PI individuals, and a 29 percent drop for Middle Eastern individuals stopped. The increase in stop volume from December 2021 to June 2023 also varies by racial/ethnic groups. While stops of white individuals increased 56 percent, the increase for Native American individuals is more muted with a seven percent increase. Other racial/ethnic groups show a larger increase than white individuals with stops for Latinx individuals increasing by 76 percent, Black individuals by 73 percent, Middle Eastern individuals by 83 percent, and Asian/PI individuals by 86 percent respectively.

In March 2022, the Oregon Legislature passed SB 1510²⁰, which includes several public safety law changes. Sections 1 through 8 specifically address law enforcement officer stops of individuals. Sections 1 and 2 require officers to inform a person that they have the right to refuse a consent search request. Section 6 modifies vehicle lighting violations such that an officer may not initiate a traffic stop if certain criteria are met. While these changes were effective January 1, 2023, many agencies implemented them when the bill passed. Table 3.2.1. shows search rates by Tier and Year and includes searches from July 2018 to June 2023. Overall search rates have dropped, with Tier 1 agencies showing a search rate of 2.9 percent in Year 1 and dropping to 1.5 percent in Year 5. Tier 2 agencies drop from 2.8 percent in Year 2 to 1.3 percent in Year 5. Finally, Tier 3 agencies show a search rate of under one percent in Year 5.

Table 3.2.1. Search Rates by Year and Tier

Year	Tier 1	Tier 2	Tier 3
Year 1 (18-19)	2.9%	N/A	N/A
Year 2 (19-20)	2.6%	2.8%	N/A
Year 3 (20-21)	2.5%	1.9%	1.4%
Year 4 (21-22)	2.2%	1.6%	0.9%
Year 5 (22-23)	1.5%	1.3%	0.7%

Figure 3.2.3. shows the percent of stops for lighting violations from July 2018 to June 2023. The lighting violations include stops for ORS 811.520, Unlawful Use or Failure to Use Lights, and ORS 816.330, Operation Without Required Lighting Equipment. The historic trend shows a seasonal increase in the percentage of stops in the winter months, as expected with more hours of darkness. For the seasonal peak in December 2021, lighting violations accounted for

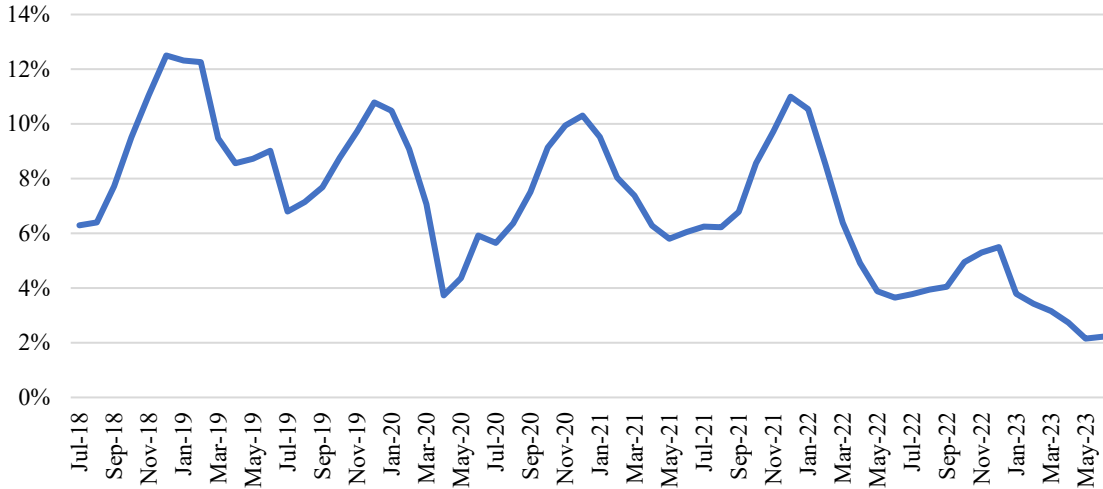
11 percent of stops. The percentage of stops decreased with the passage and implementation of SB 1510 in March 2022 and January 2023 respectively. The seasonal peak in December 2022 is half the rate of the previous year at 5.5 percent. The percent of stops in June 2023 shows a historic low of 2.2 percent.

¹⁸ Stops of white individuals make up 77 percent of monthly stops, on average, and largely echo the monthly variation shown in Figure 3.2.1.

¹⁹ U.S. Bureau of Labor Statistics, *Ability to Work From Home: Evidence From Two Surveys and Implications for the Labor Market in the COVID-19 Pandemic* (June 2020), available at <https://www.bls.gov/opub/mlr/2020/article/ability-to-work-from-home.htm>

²⁰ <https://olis.oregonlegislature.gov/liz/2022R1/Downloads/MeasureDocument/SB1510/Enrolled>

Figure 3.2.3. Percent of Stops for Lighting Violations



4. Decision to Stop Analysis

Often referred to as the “gold standard” of statistical analyses examining the initial law enforcement decision to stop an individual²¹, the Decision to Stop (DTS) analysis compares stops made by law enforcement officers during the day when it is light to those made at night when it is dark to test for disparities when officers can more easily perceive the race/ethnicity of drivers. The DTS analysis is built on the assumption that officers can better detect the race/ethnicity of an individual in daylight as compared to darkness. The chief advantage of this approach is that the analysis does not rely on a benchmark comparison with the estimated driving or residential population to the population of stopped individuals. Rather, the DTS analysis takes advantage of natural variations in daylight over the course of the year to compare minority stops made in daylight to those made in darkness at similar times of the day when commuting patterns should be relatively consistent.

More specifically, the DTS analysis relies on comparing the racial composition of individuals stopped during a combined inter-twilight window, which occurs during morning and evening commute times. The morning twilight window is defined as the earliest start of civil twilight to the latest sunrise, while the evening twilight window is defined as the earliest sunset to the latest end of civil twilight. Visibility during this time will vary throughout the course of the year, which makes it possible to compare stop decisions at the same time of day but in different lighting conditions. For example, the DTS analysis can compare stops made on January 10 when it was dark at 5:00pm to stops made two months later at the same time on March 10, when it was still light outside. Given that these two points in time should capture substantially similar driving populations, comparisons made between the race/ethnicity of stopped drivers in the light and darkness will detect whether stops are being made in a disparate fashion when race/ethnicity is visible.

Beyond this central assumption underlying the DTS approach, the analytical test also assumes that driving behavior does not change throughout the year or between daylight and darkness, and that driving patterns have little seasonal variation during the morning and evening commute times. While this assumption is likely too strong and not reflective of actual driving patterns, it can be accounted for statistically by including additional control variables available in the STOP Program database, such as: age, gender, reason for stop, day of week, time of day, quarter or season, county stop volume, and agency stop volume.

²¹ See Barone et al. (2018) under Veil of Darkness analysis.

To accomplish the analysis described above, the DTS approach tests whether the odds of non-white traffic stops during daylight are significantly different from the odds of non-white traffic stops during darkness. In the tables that follow in the next subsection, this difference in odds is presented as an odds ratio, which displays the change in odds for non-white stops during daylight compared to darkness. If the odds ratio is not statistically different from 1.0, then the test finds no difference in stops made during daylight and darkness. If the odds ratio is greater than 1.0 and statistically significant, however, the test concludes the odds of non-white drivers being stopped in daylight is significantly higher than in darkness, which is taken as evidence of a racial disparity in stops, after accounting for additional control variables that are available in the stop data. Conversely, if the odds ratio is less than 1.0 and statistically significant, the odds of a non-white driver being stopped in daylight is significantly lower than in darkness. In sum, following best practices, the STOP Program identifies all agencies with disparities above 1.0 that are statistically significant at the 95 percent confidence level in any minority group at the agency level.

4.1. Agency-Level Decision to Stop Analysis

The following analyses utilized two years of data for Tier 1, Tier 2, and Tier 3 agencies. At the agency level, therefore, it is possible to estimate DTS models for many of the non-white groups reported in the stop database given a sufficient sample size. First, Table 4.1.1. displays the odds ratios for the Tier 1 and Tier 2 DTS models with at least two comparisons for all non-white stopped drivers, including those perceived as Black, Latinx, Asian/PI, Middle Eastern, and Native American, compared to white stopped drivers. As described in Section 2., the sample size requirement for the DTS model was at least 100 stops in each racial/ethnic group within the inter-twilight windows for the two years of data provided.

Table 4.1.1. Logistic Regression of Minority Status on Daylight by Tier 1 or Tier 2 Agency

Agency	Asian/PI	Black	Latinx	Middle Eastern	Native American
Beaverton PD	0.72	0.79	0.99	0.70	--
Clackamas CO SO	1.17	1.47	1.23	0.92	--
Corvallis PD	0.66	0.95	1.36	--	--
Eugene PD	1.07	1.37	0.87	--	--
Forest Grove PD	1.27	1.18	0.93	--	--
Gresham PD	--	2.39*	1.44	--	--
Hillsboro PD	1.26	1.11	0.89	1.29	--
Lake Oswego PD	0.95	1.19	1.22	--	--
Lane CO SO	--	0.92	0.67	--	--
Marion CO SO	1.77	1.92	1.10	--	--
Medford PD	--	0.35	0.75	--	--
Milwaukie PD	--	1.11	0.81	--	--
Multnomah CO SO	1.27	1.08	1.02	--	--
Oregon City PD	--	0.98	0.90	--	--
Oregon State Police	0.97	1.07	0.97	1.16	1.24
Portland PB	0.90	1.06	1.32	1.11	--
Springfield PD	--	1.41	0.82	--	--
Tigard PD	0.70	1.21	1.19	--	--
Tualatin PD	1.37	--	0.72	--	--
Washington CO SO	0.93	1.07	1.02	0.84	--
Yamhill CO SO	1.02	--	1.07	--	--

* p<0.05, ** p<0.01, *** p<0.001

For the full Tier 1 and Tier 2 models in Table 4.1.1, one comparison showed statistically significant differences in the odds of minority stops in daylight compared to darkness²². For Gresham Police Department (PD), the odds of stops for Black drivers in daylight was 2.39 times the odds for white drivers. The analyses for this agency indicated a statistically significant difference evidencing a disparity in the rate of stopped drivers in daylight compared to darkness.

Table 4.1.2.a. reports the Tier 1 and Tier 2 agency specific model results for Latinx drivers compared to white drivers for agencies not displayed above. While a number of agencies have odds ratios above 1.0, all agencies show no statistically significant difference in the rate of stopped Latinx drivers in daylight compared to darkness.

Table 4.1.2.a. Logistic Regression of Latinx Drivers on Daylight by Tier 1 or Tier 2 Agency

Agency	Latinx	Agency	Latinx
Albany PD	1.06	Lincoln City PD	1.26
Bend PD	1.09	Lincoln CO SO	1.26
Benton CO SO	0.77	Linn CO SO	1.01
Canby PD	1.57	McMinnville PD	0.91
Central Point PD	1.01	Newberg-Dundee PD	0.92
Deschutes CO SO	1.10	Polk CO SO	1.00
Grants Pass PD	1.07	Redmond PD	0.76
Hermiston PD	0.75	Roseburg PD	1.35
Hood River CO SO	0.75	Salem PD	1.18
Jackson CO SO	1.20	West Linn PD	1.10
Keizer PD	0.52	Woodburn PD	0.63
Klamath Falls PD	0.90		

* p<0.05, ** p<0.01, *** p<0.001

Table 4.1.2.b. reports the Tier 3 agency specific model results for Latinx drivers compared to white drivers for agencies with sufficient sample size. Similar to Tier 1 and Tier 2 agencies, most agencies show no statistically significant difference in the rate of stopped Latinx drivers in daylight compared to darkness. For Sandy PD, however, the odds of stops for Latinx drivers in daylight was 2.91 times the odds for white drivers, indicating a statistically significant difference evidencing a disparity in the rate of stopped drivers in daylight compared to darkness.

²² The odds ratio for Clackamas CO SO for Black drivers (1.47) shows a p-value of 0.022. The odds ratio for Latinx drivers (1.23) shows a p-value of 0.039. With the Bonferroni adjustment with four comparisons, these are not statically significant. However, without the adjustment, the p-values are below the 0.05 threshold. Similarly, the odds ratio for Marion CO SO for Black drivers (1.92) shows a p-value of 0.045. With the Bonferroni adjustment with three comparisons this is not significant. The odds ratio for Portland PB for Latinx drivers (1.32) shows a p-value of 0.023. With the Bonferroni adjustment with four comparisons this is not significant. Clackamas CO SO, Marion CO SO, and Portland PB are not identified in Search Findings analysis but are identified in the Stop Outcomes analysis.

Table 4.1.2.b. Logistic Regression of Latinx Drivers on Daylight by Tier 3 Agency

Agency	Latinx	Agency	Latinx
Astoria PD	1.28	Newport PD	1.17
Brookings PD	0.90	Phoenix PD	1.69
Cannon Beach PD	0.92	Prineville PD	1.00
Dallas PD	0.53	Sandy PD	2.91***
Eagle Point PD	0.62	Seaside PD	1.11
Gilliam CO SO	1.48	Sherman CO SO	1.20
Gladstone PD	1.19	Sherwood PD	0.81
Hood River PD	0.75	Silverton PD	0.97
Hubbard PD	0.96	Stanfield PD	1.47
Independence PD	0.34	Stayton PD	0.70
Jefferson CO SO	1.35	Talent PD	1.00
Josephine CO SO	1.80	The Dalles PD	2.22
Milton-Freewater PD	0.61	Tillamook CO SO	1.56
Monmouth PD	1.41	Tillamook PD	0.98
Morrow CO SO	1.29	Umatilla CO SO	1.27
Mt. Angel PD	1.49	Umatilla PD	0.68

* p<0.05, ** p<0.01, *** p<0.001

5. Stop Outcomes Analysis

This report presents results from two analyses assessing outcomes occurring after the initial stop decision has been made and an individual has been stopped by law enforcement. The first of these two approaches, the Stop Outcomes analysis, is presented in this section. The Stop Outcomes analysis focuses on the outcomes of stops, including whether stopped individuals were cited, searched, and/or arrested during their encounter with law enforcement.

HB 2355 required all law enforcement agencies to collect data regarding the disposition of stops. Because stops can have multiple dispositions (i.e., an individual could be both cited for a traffic violation and arrested for a crime) the STOP Program collects data on the most serious disposition that occurred within a single stop²³. This means that if an individual was stopped for speeding, received a citation, and was subsequently arrested on a preexisting warrant, this individual would be recorded in the stop data as only having been arrested.

5.1. Description of Stop Outcomes Analysis

Variation in enforcement outcomes could be due to time of day, day of the week, the conduct that led to the stop, or one of many other factors. During rush hour on a weekday, for instance, if heavy traffic flows prevent drivers from exceeding the speed limit then the likelihood of receiving a citation for speeding would be reduced at that time. Variation could also be attributed to other factors, including age, gender, or season. Propensity score analysis is employed here to account for as many of these differences as possible and isolate the effect, if any, that the race of the stopped individual has on the disposition of the stop.

²³ See Appendix E for more details on how the STOP Program research team determines the most serious disposition and the appropriate comparison outcomes for each type of disposition.

Propensity score methods have a long and well-established history in applied statistics. STOP Program researchers use these methods to determine, when other factors are held constant, whether there are different dispositional outcomes across racial/ethnic groups. Propensity score methods use the estimated tendency to be included in the group of interest, or propensity score, to make that group and the comparison group look as similar as possible except for the characteristic in question. This approach enables STOP Program researchers to make the white comparison group look identical across all measured factors compared to the non-white group of interest. If all other measured variables (i.e., time of day, day of the week, gender, age, stop reason, stop volume) are identical across the two groups then the remaining difference in outcomes is evidence of a disparity due to racial/ethnic differences (Ridgeway, 2006).

Many different propensity score methods have been developed in the statistical literature, but they all have a similar goal of making two groups comparable to one another. The best of these methods to employ for a given research program depends on available data, sample size, data completeness, and other factors; there is no one-size-fits-all approach. Here, the STOP Program employed Inverse Probability Weighted Regression Adjustment²⁴.

Table 5.1.1. Analyses Completed for Each Agency

Disposition of Interest	Comparison Dispositions	Analysis Groups				
		Asian/PI	Black	Latinx	Mid. Eastern	Native
Citation	None or Warning	Asian/PI	Black	Latinx	Mid. Eastern	Native
Search	None, Warning, or Citation	Asian/PI	Black	Latinx	Mid. Eastern	Native
Arrest	None, Warning, Citation, or Search	Asian/PI	Black	Latinx	Mid. Eastern	Native
Citation, Search, or Arrest	None or Warning	Asian/PI	Black	Latinx	Mid. Eastern	Native

The current analysis included twenty sub-analyses for each agency: each outcome of citation; search; arrest; or any non-warning disposition across each racial/ethnic group of Asian/PI, Black, Latinx, Middle Eastern, and Native American individuals. The comparison group was drawn from the group of white stops for the agency in question. Each row of Table 5.1.1. describes the tests conducted for each agency. In row 1, STOP Program researchers tested whether there was a disparity in issuing citations between each of the racial groups shown in the analysis groups column and a matched white group.²⁵ Row 2 does the same for searches, row 3 for arrests, and row 4 describes tests for any Citation, Search, or Arrest disposition.

5.2. Stop Outcomes Results

As with the Decision to Stop analysis in the previous section, the analyses conducted in this section include two years of data for all agencies. Table 5.2.1. reports agency-level results for agencies where a statistically significant disparity was found for a search or arrest outcome, sometimes in addition to citation or any outcome. For eleven agencies, Beaverton PD, Gilliam CO SO, Hermiston PD, Jefferson CO SO, Marion CO SO, Oregon State Police, Portland PB, Umatilla PD, and Washington CO SO, disparities were reported for either searches and/or arrests of Latinx individuals, sometimes in addition to citations. Oregon State Police also showed a disparity for arrests of Native American individuals and Portland PB showed a disparity in searches of Black individuals.

²⁴ Inverse Probability Weighted Regression Adjustment weights the groups based on the propensity score and then uses these weighted data to estimate the effect of race/ethnicity on dispositional outcomes through regression analysis. For a thorough discussion of this methodology see Appendix E.

²⁵ Each matched white group will differ from the next, since the characteristics of the stops of the group being matched differ.

Table 5.2.1. Predicted Disparity by Agency and Disposition (only statistically significant results displayed)

Agency	Race/ Ethnicity	Citation		Search		Arrest		Any Outcome	
		Actual	Pred.	Actual	Pred.	Actual	Pred.	Actual	Pred.
Beaverton PD	Latinx	43.6%	41.7%	--	--	7.2%	5.8%	47.7%	44.9%
Gilliam CO SO	Latinx	74.4%	64.3%	7.5%	2.9%	8.7%	3.6%	76.6%	65.6%
Hermiston PD	Latinx	29.3%	22.2%	--	--	2.4%	1.4%	30.9%	23.3%
Jefferson CO SO	Latinx	--	--	--	--	2.4%	0.2%	--	--
Marion CO SO	Latinx	90.5%	89.0%	4.1%	3.1%	4.5%	3.2%	91.0%	89.3%
Oregon State Police	Black	40.0%	37.6%	--	--	--	--	41.4%	38.7%
Oregon State Police	Latinx	42.1%	36.5%	1.7%	1.2%	1.7%	1.4%	43.7%	37.6%
Oregon State Police	Mideast	39.5%	37.1%	--	--	--	--	--	--
Oregon State Police	Native	41.2%	35.2%	--	--	4.0%	2.1%	43.8%	37.0%
Portland PB	Black	--	--	7.3%	5.2%	--	--	--	--
Portland PB	Latinx	--	--	6.5%	4.9%	--	--	--	--
Umatilla PD	Latinx	26.4%	19.1%	1.2%	0.4%	--	--	28.2%	20.1%
Washington CO SO	Latinx	23.0%	19.9%	1.0%	0.7%	3.3%	2.4%	25.7%	21.8%

Where disparities were found, the average gap in the predicted versus the actual disposition rate varied by agency and type of disposition. These differences may be especially apparent between large and small agencies. Larger agencies make more stops and thus have a greater sample size, which leads to more precise statistical tests and a lower threshold for identifying statistically important differences. Agencies where a statistically significant disparity was found for a citation or any outcome are displayed in Table 5.2.2. For three Tier 1 agencies, Clackamas CO SO, Hillsboro PD, and Salem PD disparities were detected only for citations and/or for the combined measure of all dispositions (i.e., citation, search, or arrest). This indicates that, for these agencies, it is likely that the only relevant disparity is for citations and not the other outcomes. As described in Section 3, Tier 2 agencies have far fewer stops than Tier 1 agencies. Combined with the already relatively low minority populations in the state, and especially outside of major metro areas, many of the Stop Outcome analyses for the Tier 2 agencies did not have sufficient sample sizes to complete the analysis. That said, of the analyses that were completed, Canby PD, Forest Grove PD, Keizer PD, Polk CO SO, Tigard PD, Tualatin PD, West Linn PD, and Yamhill CO SO had statistically significant disparities indicated for one or more of the analysis groups for citations and any outcome.

**Table 5.2.2. Predicted Outcome by Agency and Disposition
(only statistically significant results displayed)**

Agency	Race/Ethnicity	Citation		Any Outcome	
		Actual	Pred.	Actual	Pred.
Canby PD	Latinx	37.4%	32.2%	39.1%	33.3%
Clackamas CO SO	Latinx	34.3%	31.3%	37.0%	34.0%
Forest Grove PD	Latinx	34.3%	26.2%	36.1%	28.3%
Hillsboro PD	Latinx	27.8%	23.2%	30.7%	25.4%
Hubbard PD	Latinx	28.1%	21.1%	30.6%	23.1%
Independence PD	Latinx	32.7%	21.9%	33.3%	22.8%
Keizer PD	Latinx	33.1%	28.4%	33.8%	29.2%
Madras PD	Native	46.2%	23.6%	51.2%	25.6%
Morrow CO SO	Latinx	32.0%	24.2%	32.8%	24.8%
Mt. Angel PD	Latinx	--	--	27.6%	20.0%
Newport PD	Latinx	21.7%	14.3%	23.0%	15.5%
Nyssa PD	Latinx	46.7%	30.6%	--	--
Pendleton PD	Native	--	--	47.2%	33.5%
Polk CO SO	Latinx	28.9%	22.2%	30.4%	23.6%
Salem PD	Latinx	--	--	63.4%	60.3%
Tigard PD	Latinx	45.6%	38.5%	47.8%	40.8%
Tualatin PD	Latinx	50.1%	44.8%	51.2%	45.9%
Umatilla CO SO	Latinx	25.4%	18.9%	29.7%	22.4%
West Linn PD	Latinx	36.0%	30.4%	--	--
Yamhill CO SO	Latinx	23.4%	20.5%	--	--

Sample size issues were even more pronounced for Tier 3 agencies. However, the following Tier 3 agencies were identified as having significant disparities in only citations and/or any disposition for one of the analysis groups: Hubbard PD, Independence PD, Madras PD, Morrow CO SO, Mt. Angel PD, Newport PD, Nyssa PD, Pendleton PD, and Umatilla CO SO

5.3. Stop Outcomes Analysis including the Reason for the Stop Outcome

Beginning in February 2021, law enforcement agencies started submitting additional data to the STOP Program on the reason for the most serious disposition of each stop. Previously, for example, if an officer stopped someone for a moving violation but the stop ended in an arrest because of an outstanding warrant, analysts would only be able to see a moving violation ending in arrest. This additional data point allows the STOP program analysts to more accurately account for the reason for the stop outcome in addition to the reason for the stop. These additional data points are submitted voluntarily by STOP agencies and are not required data elements. The quality and completeness of the data submitted to CJC is, thus, inconsistent. For Years 4 and 5 of data collection (July 2021-June 2023), 47.9 percent of stops with a citation, search, or arrest outcome had a missing most serious disposition code value.²⁶ The CJC uses this data element to run an adjusted Stop Outcomes analysis to provide additional context to the baseline results.

²⁶ This subset of outcomes is useful for determining whether additional analysis is possible. When including all stops and counting Warning or None outcomes as non-missing, 16.7% of observations were missing outcome reason information.

Most serious disposition reasons are inconsistently reported across agencies, with some agencies reporting little or no additional data. Of agencies identified by the baseline stop outcome analysis, five agencies either did not submit any additional data or submitted a small amount of data that is insufficient to conduct the additional analysis. As seen in Table 5.3.1 the five agencies are: Gilliam CO SO, Marion CO SO, Newport PD, Nyssa PD, and Portland PB. Submission of the additional data is not required, but allows the CJC to provide the adjusted Stop Outcomes analysis displayed in this section.

Table 5.3.1. Missing Stop Outcome Reason for Citation, Search, and Arrest Observations

	Agency	Percent of citation, search, and arrest outcomes with missing outcome reason
Agencies who did not submit enough data for additional analysis.	Gilliam CO SO	99.0%
	Marion CO SO	100.0%
	Newport PD	97.5%
	Nyssa PD	100.0%
	Portland PB	100.0%
Agencies that submitted enough data for additional analysis.	Beaverton PD	10.9%
	Canby PD	86.0%
	Clackamas CO SO	76.0%
	Forest Grove PD	6.6%
	Hermiston PD	1.9%
	Hillsboro PD	16.3%
	Hubbard PD	55.3%
	Independence PD	56.2%
	Jefferson CO SO	77.7%
	Keizer PD	88.0%
	Madras PD	92.2%
	Morrow CO SO	0.5%
	Mt. Angel PD	52.8%
	Oregon State Police ¹	3.5%
	Pendleton PD	60.6%
	Polk CO SO	64.8%
	Salem PD	7.7%
	Tigard PD	6.7%
	Tualatin PD	90.7%
	Umatilla CO SO	0.0%
Umatilla PD	0.1%	
Washington CO SO	13.9%	
West Linn PD	21.2%	
Yamhill CO SO	67.5%	

¹ Oregon State Police submitted sufficient data for the additional citation analysis, but not for arrest or search outcomes.

Beyond agencies that reported insufficient data, reporting practices varied widely. Some agencies submitted outcome reason information only when the outcome reason differed from the stop reason. Other agencies submitted the outcome reason on all or close to all stops, regardless of whether the outcome reason differed from the stop reason. In either case, if a sufficient volume of additional data was

submitted, the additional analysis could be conducted. The percent of stops with a non-warning outcome that are missing the outcome reason are reported in Table 5.3.1.

For the additional analysis, the CJC creates an additional variable indicating whether the stop was a “low-discretion” stop or not. Oregon State Police policy identifies stops that allow the stopping officer relatively low discretion in their decision to cite, search, and/or arrest the stopped individual. Discussions with police agencies identified the reasons for these policies as a combination of limiting liability²⁷ and state-level policies. Exact policies may and likely do vary by agency, but discussions with agencies suggest that the Oregon State Police policy represents a norm across the state and it represents the best basis for a consistent variable across agencies.²⁸ When the officer reports the reason for the most serious disposition on the stop as one of these statutes it severely limits the officer’s discretion in allowing the driver to continue driving with just a warning. This variable is added to the baseline outcome analysis, which controls for the fact that some groups may have a higher or lower propensity to be cited, searched, and/or arrested for one of these low-discretion offenses.

In Tables 5.3.2 through 5.3.5, lightly shaded predicted values indicate a result that is not statistically different (i.e., insignificant) than the actual value. Conversely, results that are the standard shade indicate a result that is statistically different (i.e., significant) than the actual value. So, for example, when a result in the Original column is the standard shade and the result in the Low-Discretion column is lightly shaded this indicates that the inclusion of the low-discretion variable caused the originally significant estimate to become insignificant.

Table 5.3.2 presents the baseline and additional analysis results for agencies where citation outcomes were significant in the baseline analysis. For most of these agencies the inclusion of the low-discretion variable in the analysis changes statistically significant differences between the actual and predicted citation rates to become statistically insignificant. Where statistically significant results remained, the difference between the actual and predicted rates typically closed. This suggests that, systematically across police agencies in Oregon, low-discretion policies *tend* to increase perceptible racial disparities in citations for some groups.

For two agencies, Clackamas CO SO and Oregon State Police, the addition of the low-discretion variable led to statistically significant results for the Asian/PI group where these results were insignificant in the baseline analysis. This suggests that drivers perceived as Asian/PI have a relatively small proportion of stops resulting in low-discretion citations for, at least, these two agencies.

²⁷ For example, if a police officer stops an individual who is unlicensed that officer may be held liable if they allow that person to drive after that stop.

²⁸ The policy indicates that stops where the following were present require additional officer actions: Reckless Endangering Another Person (ORS 163.195), Aggravated Driving while Suspended or Revoked (ORS 163.196), Driving Uninsured (ORS 806.01), licensing violations (ORS 807.010, ORS 807.570), Failure to Yield to Pedestrian (ORS 811.025), Reckless Driving (ORS 811.140), Driving while Suspended or Revoked (ORS 811.175), Criminal Driving while Suspended or Revoked (ORS 811.182), Reckless Endangerment of Highway Workers (ORS 811.231), Fleeing or Attempting to Elude (ORS 811.540), Failure to Perform Duties of a Driver (ORS 811.700, ORS 811.705), Driving Under the Influence of Intoxicants (ORS 813.010), Fleeing (811.540), Sanctions (ORS 33.045), Warrants (ORS 135.280), Failure to Appear in the First Degree (162.205), and controlled substance violations (ORS 475.752)

Table 5.3.2. Stop Outcome Comparison, Citation Outcome – Baseline Analysis v. Low Discretion Analysis

Agency	Race/ Ethnicity	Actual	Predictions by Analysis	
			Original	Low-Discretion
Beaverton PD	Latinx	43.6%	41.7%	43.1% ¹
Canby PD	Latinx	37.4%	32.2%	34.3% ¹
Clackamas CO SO	Latinx	34.3%	31.3%	32.9% ¹
Clackamas CO SO	Asian/PI	34.9%	32.3%	31.5% ²
Forest Grove PD	Latinx	34.3%	26.2%	30.6%
Hermiston PD	Latinx	29.3%	22.2%	25.4%
Hillsboro PD	Latinx	27.8%	23.2%	25.3%
Hubbard PD	Latinx	28.1%	21.1%	24.3%
Independence PD	Latinx	32.7%	21.9%	24.9%
Keizer PD	Latinx	33.1%	28.4%	29.1% ¹
Madras PD	Native	46.2%	23.6%	24.2% ¹
Morrow CO SO	Latinx	32.0%	24.2%	28.3%
Oregon State Police	Asian/PI	37.6%	36.6%	33.9% ²
Oregon State Police	Black	40.0%	37.6%	40.0% ¹
Oregon State Police	Latinx	42.1%	36.5%	40.1%
Oregon State Police	Mideast	39.5%	37.1%	32.8%
Oregon State Police	Native	41.2%	35.2%	42.9% ¹
Polk CO SO	Latinx	28.9%	22.2%	24.4%
Tigard PD	Latinx	45.6%	38.5%	42.2% ¹
Tualatin PD	Latinx	50.1%	44.8%	45.3%
Umatilla CO SO	Latinx	25.4%	18.9%	22.6% ¹
Umatilla PD	Latinx	26.4%	19.1%	23.9% ¹
Washington CO SO	Latinx	23.0%	19.9%	22.7% ¹
West Linn PD	Latinx	36.0%	30.4%	33.7% ¹
Yamhill CO SO	Latinx	23.4%	20.5%	22.0% ¹

Unless otherwise indicated, results remained statistically significant.

1 Indicates a result that went from statistically significant to statistically insignificant.

2 Indicates a result that went from statistically insignificant to statistically significant.

Of agencies that had statistically significant search outcome results, two agencies submitted sufficient outcome reason data to conduct the additional analysis. Both of these agencies' results became insignificant with the inclusion of the low-discretion variable, as seen in Table 5.3.3.

Table 5.3.3. Stop Outcome Comparison, Search Outcome – Baseline Analysis v. Low Discretion Analysis

Agency	Race/ Ethnicity	Actual	Predictions by Analysis	
			Original	Low-Discretion
Umatilla PD	Latinx	1.2%	0.4%	0.7% ¹
Washington CO SO	Latinx	1.0%	0.7%	0.9% ¹

¹ Indicates a result that went from statistically significant to statistically insignificant.

Of agencies that had statistically significant arrest outcome results, four agencies submitted sufficient outcome reason data to conduct the additional analysis. All of these agencies' results became insignificant with the inclusion of the low-discretion variable, as seen in Table 5.3.4.

Table 5.3.4. Stop Outcome Comparison, Arrest Outcome – Baseline Analysis v. Low Discretion Analysis

Agency	Race/ Ethnicity	Actual	Predictions by Analysis	
			Original	Low-Discretion
Beaverton PD	Latinx	7.2%	5.8%	6.7% ¹
Hermiston PD	Latinx	2.4%	1.4%	1.7% ¹
Jefferson CO SO	Latinx	2.4%	0.2%	0.6% ¹
Washington CO SO	Latinx	3.3%	2.4%	3.2% ¹

¹ Indicates a result that went from statistically significant to statistically insignificant.

Similar to the citation outcome results, most agencies that had a statistically significant result for the any outcome had the estimated gaps grow smaller, as seen in Table 5.3.5 below. In most of these cases, the results became statistically insignificant. Also similar to the citation outcome results, two tests became statistically significant here, where they were not statistically significant in the baseline analysis. Here both tests were for the Oregon State Police, for the Middle Eastern and Asian/PI groups.

Table 5.3.5. Stop Outcome Comparison, Any Outcome – Baseline Analysis vs. Low Discretion Analysis

Agency	Race/ Ethnicity	Actual	Predictions by Analysis	
			Original	Low-Discretion
Beaverton PD	Latinx	47.7%	44.9%	46.9% ¹
Canby PD	Latinx	39.1%	33.3%	35.7% ¹
Clackamas CO SO	Latinx	37.0%	34.0%	35.6% ¹
Forest Grove PD	Latinx	36.1%	28.3%	32.8%
Hermiston PD	Latinx	30.9%	23.3%	26.9%
Hillsboro PD	Latinx	30.7%	25.4%	28.0%
Hubbard PD	Latinx	30.6%	23.1%	26.9%
Independence PD	Latinx	33.3%	22.8%	26.1%
Keizer PD	Latinx	33.8%	29.2%	29.9% ¹
Madras PD	Native	51.2%	25.6%	25.6%
Morrow CO SO	Latinx	32.8%	24.8%	29.3% ¹
Mt. Angel PD	Latinx	27.6%	20.0%	22.0% ¹
Newport PD	Latinx	23.0%	15.5%	15.7%
Oregon State Police	Asian/PI	37.6%	36.6%	34.8% ²
Oregon State Police	Black	41.4%	38.7%	40.9% ¹
Oregon State Police	Latinx	43.7%	37.6%	41.0%
Oregon State Police	Mideast	39.5%	37.1%	33.8% ²
Oregon State Police	Native	43.8%	37.0%	43.7% ¹
Pendleton PD	Native	47.2%	33.5%	37.9% ¹
Polk CO SO	Latinx	30.4%	23.6%	26.0%
Salem PD	Latinx	63.4%	60.3%	61.1% ¹
Tigard PD	Latinx	47.8%	40.8%	44.7% ¹
Tualatin PD	Latinx	51.2%	45.9%	46.4%
Umatilla CO SO	Latinx	29.7%	22.4%	26.0% ¹
Umatilla PD	Latinx	28.2%	20.1%	25.4% ¹
Washington CO SO	Latinx	25.7%	21.9%	25.2% ¹

Unless otherwise indicated, results remained statistically significant.

¹ Indicates a result that went from statistically significant to statistically insignificant.

² Indicates a result that went from statistically insignificant to statistically significant.

6. Search Findings Analysis

The second analysis conducted examining post-stop outcomes is the Search Findings analysis. Originally developed in the context of economics, various hit-rate models use outcomes as indicators of economic discrimination in areas such as mortgage loan decision making (Becker 1957, Becker 1993). In the past few decades, this approach to examining outcomes to identify discrimination has been adapted extensively in analyses of policing. The most widely used model is known as the KPT Hit-Rate model developed by Knowles, Persico, and Todd (2001). Throughout this report, this will be referred to as the Search Findings analysis.

The Search Findings analysis examines whether the likelihood of a “successful” police search differs across racial/ethnic groups, where success is defined as finding contraband. The model assumes that officers make the decision to search a person based on visual and other contextual evidence that they are

carrying contraband (e.g., location, furtive movements, or odors associated with drugs) in order to maximize search success rates. The model also assumes that motorists adjust their decision to carry contraband based on their likelihood of being searched. In the case that a certain group is more likely to carry contraband, officers will search this group more often in order to maximize their hit-rate, and the group, as a whole, will adjust their likelihood to carry contraband downward. Eventually an equilibrium is reached at which search success rates (or hit-rates) are the same across all groups. However, if officers are subjecting a group to more frequent searches based on racial or ethnic bias, then their hit-rate for that group will decrease. If a minority group's hit-rate is less than the white hit-rate, this indicates that the minority group is "over-searched," which is evidence of a disparity. Put simply, if search decisions are based on race/ethnicity-neutral factors, then hit-rates across all racial/ethnic groups should be similar. If they are substantially dissimilar, then a disparity is identified.

Hit-rates are calculated by dividing the number of searches in which contraband was found by the total number of searches for each racial/ethnic group. The results for non-white groups are then compared to the outcomes for white individuals to determine whether the success rates are similar. Agency level search data were analyzed for disparities between the white baseline group and individuals identified as Black, Latinx, Asian/PI, Middle Eastern, and Native American. In order to perform these analyses for an agency for a particular racial/ethnic group the agency must have searched at least 30 people of both the minority group and the white group. This protects against statistical anomalies due to low search counts and aligns with best practices.²⁹ Because of this requirement, the Search Findings analysis was unable to be performed for certain agencies and racial/ethnic groups. Finally, chi-square tests of independence with a Bonferroni adjustment were performed for each comparison to determine if observed differences in hit-rates are statistically significant. Following best practices, the STOP Program identifies all agencies with disparities in the Search Findings analysis. For individual agencies, this includes minority group hit-rates less than the white hit-rate and statistically significant at the 95 percent confidence level. See Appendix F for more detailed technical information about the KPT Hit-Rate model and statistical tests.

6.1. Agency-Level Search Findings Results

As in the previous two sections, analyses in this section utilized two years of data for all agencies. In this report, the Search Findings analysis was performed for each agency for up to five minority racial/ethnic groups (Black, Latinx, Asian/PI, Middle Eastern, and/or Native American) depending upon sample size. Results for these analyses are presented in Table 6.1.1. below.

²⁹ Connecticut Racial Profiling Prohibition Project (2019).

Table 6.1.1. Hit-Rates and Significance by Agency and Race/Ethnicity

Agency	Race/Ethnicity	Minority Hit-Rate	White Hit-Rate	Significance
Albany PD	Latinx	46.7%	47.7%	
Beaverton PD	Black	56.3%	53.7%	
Beaverton PD	Latinx	48.4%	53.7%	
Bend PD	Latinx	14.7%	11.7%	
Clackamas CO SO	Latinx	42.9%	27.7%	
Eugene PD	Black	28.4%	33.9%	
Eugene PD	Latinx	28.1%	33.9%	
Hillsboro PD	Latinx	40.0%	56.8%	
Hubbard PD	Latinx	48.0%	40.0%	
Marion CO SO	Latinx	3.4%	6.8%	
Medford PD	Latinx	43.2%	26.6%	
Multnomah CO SO	Black	44.7%	44.7%	
Multnomah CO SO	Latinx	41.8%	44.7%	
Oregon State Police	Black	69.5%	63.3%	
Oregon State Police	Latinx	64.4%	63.3%	
Oregon State Police	Asian/PI	67.1%	63.3%	
Oregon State Police	Native	69.1%	63.3%	
Pendleton PD	Native	47.4%	37.4%	
Portland PB	Black	58.8%	50.1%	
Portland PB	Latinx	54.2%	50.1%	
Portland PB	Asian/PI	60.4%	50.1%	
Salem PD	Black	30.0%	33.5%	
Salem PD	Latinx	40.1%	33.5%	
Springfield PD	Latinx	43.8%	41.7%	
Washington CO SO	Latinx	61.0%	56.7%	

* p<0.05, ** p<0.01, *** p<0.001

As shown in Table 6.1.1., all agencies have differences in search success rates between white individuals and the comparison groups. These differences in nearly all cases were relatively small, and none of the differences reported were statistically significant. The lack of statistical significance could be attributed to the relatively small sample sizes found across agencies (particularly for Tier 2 and Tier 3 agencies), but it is also important to note that small, statistically insignificant differences in search success rates are likely to occur due to random chance even in the absence of policies or practices that could lead to disparate treatment of different groups. No search findings comparisons made in this report were found to be statistically significant. This means that no agency was identified as having a statistically significant disparity for the Search Findings analysis.

7. Findings from 2023 Analysis

7.1. Aggregate Findings

Similar to previous STOP Reports, in all, the STOP data demonstrates that the vast majority of discretionary police-citizen interactions in Oregon are traffic stops. With regard to the demographic characteristics of stopped individuals, the aggregate data continue to indicate that the majority of stops in

Oregon were of white drivers or pedestrians. This is not surprising given the demographic makeup of Oregon as a whole. When disaggregated by traffic versus pedestrian stops, the data indicate that minorities made up a larger share of individuals stopped for traffic violations compared to those stopped as pedestrians. With regard to gender, males were stopped more often than females and nonbinary individuals, and this split was greater for pedestrian stops versus traffic stops.

Law enforcement agencies reported that stopped individuals either were subject to no further action or merely given a warning in a little under 60 percent of stops for Tier 1, a little under 70 percent of stops for Tier 2, and a little over 70 percent of stops for Tier 3 agencies. Other outcomes, including receiving a citation or being arrested, varied widely across traffic and pedestrian stops, as pedestrian stops were more likely to end in an arrest, and traffic stops were more likely to end in a citation, regardless of Tier.

7.2. Decision to Stop Analysis Results 2023

One of the few consistent findings reported across the academic and professional literature examining police stop data is that comparisons between stops initiated by law enforcement and residential Census data often leads to invalid, biased results. To examine the decision to stop a driver in a manner that does not rely on benchmarks, STOP Program researchers again utilized the Decision to Stop analysis, which examines stops made in daylight versus darkness surrounding sunrise and sunset. The threshold for identifying disparities was a resulting odds ratio above 1.0 that was statistically significant at the 95 percent confidence level for any minority group at the agency level.

In this analysis, one Tier 1 agency and one Tier 3 agency were found to have a disparity in the rate of stopped minority drivers in daylight versus darkness compared to white drivers. Gresham PD shows the odds of stops for Black drivers in daylight was 2.39 times the odds for white drivers, while Sandy PD shows the odds of stops for Latinx drivers in daylight was 2.91 times the odds of white drivers.

7.3. Stop Outcomes Analysis Results 2023

The Stop Outcomes analysis, which relies on balancing samples across racial/ethnic groups to compare similarly situated individuals, was the first of two models used to examine stop outcomes after the decision to stop a driver has been made. For this analysis, STOP Program researchers identified all agencies with statistically significant disparities in their predicted versus actual dispositional outcomes for Asian/PI, Black, Latinx, Middle Eastern, and Native American groups, respectively.

In total, eight Tier 1 agencies, nine Tier 2 agencies, and twelve Tier 3 agencies were identified as meeting this threshold. For Tier 1 agencies this included: Beaverton PD, Clackamas CO SO, Hillsboro PD, Marion CO SO, Oregon State Police, Portland PB, Salem PD, and Washington CO SO. Among Tier 2 agencies, Canby PD, Forest Grove PD, Hermiston PD, Keizer PD, Polk CO SO, Tigard PD, Tualatin PD, West Linn PD, and Yamhill CO SO were identified. For Tier 3 agencies, Gilliam CO SO, Hubbard PD, Independence PD, Jefferson CO SO, Madras PD, Mt. Angel PD, Morrow CO SO, Newport PD, Nyssa PD, Pendleton PD, Umatilla CO SO, and Umatilla PD were identified.

The most common dispositional outcome identified with disparate outcomes was citations, which, in general, is a much more common outcome than searches and arrests. Similarly, the group most often identified for disparate outcomes was Latinx, for which there were generally more stops relative to other non-white groups. There were, however, additional findings regarding searches and arrests. Gilliam CO SO, Marion CO SO, Oregon State Police, Portland PB, Umatilla PD, and Washington CO SO were identified for searches of Latinx individuals. Beaverton PD, Gilliam CO SO, Hermiston PD, Jefferson CO SO, Marion CO SO, Oregon State Police, and Washington CO SO were indicated for arrests of Latinx individuals. Oregon State Police was identified for arrests of Native American individuals. And Portland

PB was identified for searches of Black individuals. Notably, many analyses for several agencies could not be estimated due to low sample sizes, especially for smaller agencies. In these situations, the CJC cannot detect the presence of a disparity with current data limitations.³⁰

CJC conducts an additional analysis that accounts for stops where the officer's discretion to issue a warning is limited or restricted. The data elements required for this analysis are submitted at the discretion of the reporting agency and so this additional analysis is not completed for all agencies. The additional analysis includes information on the reason for the outcome. For agencies where the additional analysis is conducted, most results show that the inclusion of the additional variable often has a substantive impact on results. In many cases, where statistically significant differences between the actual and predicted outcome rates were present in the baseline analysis, the additional analysis shows no statistical significant difference. Where statistically significant results remained in the additional analysis, the difference between the actual and predicted rates often grew smaller. This suggests that, systematically across police agencies in Oregon, low-discretion policies *tend* to increase perceptible racial disparities in outcomes for some groups.

7.4. Search Findings Results 2023

The second of two analyses examining post stop outcomes was the Search Findings analysis, which compared the percentages of successful searches across different racial/ethnic groups. As discussed in detail in Section 6., the theoretical idea at the foundation of this test is that if law enforcement personnel apply search criteria or standards equally across race/ethnicity, then similar success rates should be found for all racial/ethnic groups. For this analysis, STOP Program researchers identified all agencies with disparities in their search success rates where those differences were statistically significant at the 95 percent confidence level in any minority group at the agency level. In this year's analysis, there were no agencies identified as having statistically significant results. This means that no agency was identified as having a statistically significant disparity for the Search Findings analysis.

7.5. Conclusions

The data contained in this report are intended to be used as a tool for law enforcement, community members, researchers, Legislators and policy makers, and other interested parties to focus training and technical assistance on agencies found to have disparities in outcomes for minority groups. As described previously, STOP Program researchers utilized three rigorous statistical analyses, consistent with best practices, to identify disparities in Oregon. The use of these three tests allows the STOP Program researchers to evaluate numerous decision points before and during a stop, while also providing numerous points of analysis in the search for disparate outcomes.

To determine if identified disparities require further analysis and support from the STOP Program and its partners at the Department of Public Safety Standards and Training (DPSST), the following criteria must be met: (1) An estimated disparity in an individual analysis must have met the 95 percent confidence level for it to be statistically significant. This means STOP Program researcher must be at least 95 percent confident that differences or disparities identified by the analyses were not due to random chance: (2) Following best practices, for a law enforcement agency to be identified as one requiring further analysis as well as DPSST technical assistance, it must be identified as having a statistically significant disparity in two of the three analytical tests performed on the STOP data. However, DPSST has and will continue to provide technical assistance to any agency, regardless of the number of analyses that are statistically significant.

³⁰ Full results, including for tests that could not be completed, are available upon request.

No agency was identified as having a statistically significant disparity in two or more tests performed on the STOP data this year. Therefore, no agency is referred to receive technical assistance from DPSST in this report. However, that does not mean that the results for any agencies should be ignored or are not close to the threshold of identification. Regardless of whether an agency is officially referred to DPSST, the CJC urges each agency to scrutinize their full set of results and engage with DPSST on any results that show a statistically significant disparity.

8. Oregon Law Enforcement Contacts and Data Review Committee Report

8.1. LECC Background

The Oregon Law Enforcement Contacts and Data Review Committee (LECC) is a statewide committee tasked with assisting Oregon law enforcement agencies in creating equitable outcomes for Oregonians. The LECC was initially created in 2001 with the passage of SB 415. In 2015, HB 2002 created a standard definition of profiling³¹, required agencies to adopt procedures for submitting copies of racial profiling complaints to the LECC, and tasked the LECC with establishing policies for receiving and forwarding profiling complaints to the general public (see ORS 131.915, ORS 131.920, and ORS 131.925). The administration of the LECC was transferred to Portland State University in 2007, where it remained until 2019 when it was transferred to the CJC by order of HB 5050, Section 13.

This report summarizes the information found in the profiling complaints the LECC received from Oregon law enforcement agencies in calendar years 2021 and 2022. Prior to 2022, this section was published as a separate report. Since 2022, this information has been included as an additional section within the existing STOP report. This information is provided to meet the reporting requirements described above and is not used to refer an agency to DPSST for technical assistance.

8.2. Summary of 2021 and 2022 Reports

Table 8.2.1. summarizes law enforcement agency reporting for 2021 and 2022. In 2021, 113 of 155 (72.9 percent) law enforcement agencies reported the number of profiling complaints they received and in 2022, 127 of 154 (82.5 percent) law enforcement agencies reported the number of profiling complaints they received for each respective calendar year. Of those agencies that reported in 2021, 27 (23.9 percent) reported at least one complaint, and across those 27 agencies there were a total of 85 complaints. In 2022, 23 (18.1 percent) agencies that reported had at least one complaint and across those agencies, 62 total complaints were received.

Table 8.2.1. Law Enforcement Annual Reporting Compliance, 2021 and 2022

	2021	2022
Agencies Reporting	113	127
Total Reported Complaints	85	62
Agencies Reporting No Complaints	86	104
Agencies Reporting 1+ Complaints	27	23

³¹ The law defines profiling as when “a law enforcement agency or a law enforcement officer targets an individual for suspicion of violating a provision of law based solely on the real or perceived factor of the individual’s age, race, ethnicity, color, national origin, language, gender, gender identity, sexual orientation, political affiliation, religion, homelessness or disability, unless the agency or officer is acting on a suspect description or information related to an identified or suspected violation of a provision of law.”

Table 8.2.2. shows the number of complaints reported by agency in 2021 and 2022. Across those two years, Oregon State Police had the highest complaint volume with 21 complaints, which is consistent with their position as the largest law enforcement agency by employed officers in the state. The agencies with the next highest report volume over that period were Clackamas County SO (18 complaints), Eugene PD (13 complaints), and Portland PB (12 complaints). Multnomah County SO also had 12 complaints registered across this period, however they reported zero complaints for calendar year 2022.

Table 8.2.2. Reported Incidents by Agency, 2021 and 2022

Department	2021	2022
Albany PD	1	0
Ashland PD	3	0
Beaverton PD	3	2
Bend PD	6	2
Clackamas CO SO	9	9
Clatsop CO SO	1	0
Corvallis PD	1	2
Dallas PD	0	1
Eugene PD	6	7
Forest Grove PD	1	0
Gresham PD	0	1
Hillsboro PD	0	1
Independence PD	0	1
Keizer PD	2	3
Klamath CO SO	1	0
La Grande PD	0	1
Lake Oswego PD	1	2
Lane CO SO	1	1
Marion CO SO	1	1
Medford PD	4	3
Milwaukie PD	2	0
Multnomah CO SO	12	0
Oregon City PD	1	1
Oregon State Police	11	10
OSU PD	0	2
Pendleton PD	1	0
Polk CO SO	1	0
Portland PB	7	5
Springfield PD	4	3
St Helens PD	1	0
The Dalles PD	0	1
Tigard PD	1	1
Washington CO SO	3	2
Total	85	62

Table 8.2.3. shows the dispositions of those complaints that were reported in 2021 and 2022. Of the 147

complaints in those years where copies were sent to the CJC, not a single complaint received a disposition of sustained. The most common disposition in both years was “unfounded” followed by “not sustained.” For comparison purposes, a report by the California Racial and Identity Profiling Advisory Board that analyzed data on 10,648 civilian complaints in California in 2020 found that 9.4 percent of all reports were sustained, with the most common disposition for that year being “unfounded” followed by “exonerated.”³²

Table 8.2.3. Reported Profiling Complaints by Disposition

Disposition	2021	2022
Exonerated	5	2
Not Sustained	25	10
Unfounded	34	33
Administrative Closure	0	3
No Basis for Further Investigation	5	9
Other	11	3

The reports received by law enforcement agencies varied greatly in terms of providing details about the incidents being reported on, which made it difficult for CJC researchers to identify trends in the nature of these incidents. This indicates that law enforcement agencies may need further guidance on filling out these forms. In addition, it is difficult to determine what proportion of actual incidents of racial profiling in Oregon these reports represent.

³² See <https://oag.ca.gov/system/files/media/ripa-board-report-2022.pdf>

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Appendix A – List of Law Enforcement Agencies by Tier

Table A.1. Tier 1 Agencies

Beaverton PD	Hillsboro PD	Oregon State Police
Clackamas County SO	Marion County SO	Portland PB
Eugene PD	Medford PD	Salem PD
Gresham PD	Multnomah County SO	Washington County SO

Table A.2. Tier 2 Agencies

Albany PD	Jackson County SO	Oregon City PD
Ashland PD	Keizer PD	OHSU PD
Bend PD	Klamath County SO	Polk County SO
Benton County SO	Klamath Falls PD	Port of Portland PD
Canby PD	Lake Oswego PD	Redmond PD
Central Point PD	Lane County SO	Roseburg PD
Corvallis PD	Lebanon PD	Springfield PD
Deschutes County SO	Lincoln City PD	Tigard PD
Douglas County SO	Lincoln County SO	Tualatin PD
Forest Grove PD	Linn County SO	University of Oregon PD
Grants Pass PD	McMinnville PD	West Linn PD
Hermiston PD	Milwaukie PD	Woodburn PD
Hood River County SO	Newberg-Dundee PD	Yamhill County SO

Table A.3. Tier 3 Agencies

Astoria PD	Hubbard PD	Prineville PD
Aumsville PD	Independence PD	Rainier PD
Baker City PD	Jacksonville PD	Reedsport PD
Baker County SO	Jefferson County SO	Rockaway Beach PD*
Bandon PD	John Day PD*	Rogue River PD
Black Butte Ranch PD	Josephine County SO	Sandy PD
Boardman PD	Junction City PD	Scappoose PD
Brookings PD	La Grande PD	Seaside PD
Burns PD	Lake County SO	Sherman County SO
Butte Falls PD	Madras PD	Sherwood PD
Cannon Beach PD	Malheur County SO	Silverton PD
Carlton PD	Malin PD	St. Helens PD
Clatsop County SO	Manzanita DPS	Stanfield PD
Coburg PD	Merrill PD	Stayton PD
Columbia City PD	Milton-Freewater PD	Sunriver PD
Columbia County SO	Molalla PD	Sutherlin PD
Coos Bay PD	Monmouth PD	Sweet Home PD
Coos County SO	Morrow County SO	Talent PD
Coquille PD	Mt. Angel PD	The Dalles PD
Cottage Grove PD	Myrtle Creek PD	Tillamook County SO
Crook County SO	Myrtle Point PD	Tillamook PD
Curry County SO	Newport PD	Toledo PD
Dallas PD	North Bend PD	Turner PD
Eagle Point PD	Nyssa PD	Umatilla County SO
Enterprise PD	Oakridge PD	Umatilla PD
Florence PD	Ontario PD	Union County SO
Gearhart PD	OSU PD	Union Pacific Railroad PD
Gervais PD	Pendleton PD	Vernonia PD
Gilliam County SO	Philomath PD	Wallowa County SO
Gladstone PD	Phoenix PD	Warrenton PD
Gold Beach PD	Pilot Rock PD	Wasco County SO
Grant County SO	Portland Fire Bureau Investigations	Wheeler County SO
Harney County SO	Port Orford PD	Winston PD
Hines PD	PSU CPS	Yamhill PD
Hood River PD	Powers PD	

*Inactive Agencies

Appendix B – Data Audit

This STOP report uses data with a frequency of missingness displayed in Table B.1. This missingness manifests in overall rates of missingness within variables (displayed in Table B.1.) and as stops missing altogether. Additionally, some data used in this report look atypical compared to overall rates. The STOP Program team has worked to the extent possible to correct for incorrect and improbable data before the release of this report, but some challenges remain.

Table B.1. Missing Data for STOP Program Variables used in Year 5 Report Analyses

Variable	Description	% Missing
Age	Age as perceived by officer	0.7%
Agency	Stopping agency	0.0%
Arrest	Physical custody arrest (yes/no)	0.0%
Stop Reason*	Category of stop reason (Move/Spd, Ser Move/Spd, Very Ser Move/Sp, Equip Vio/Cell/Seatbelt, Reg/License, Other)	0.0%
county	County in which stop occurred	0.2%
disposition	Most severe disposition of stop (none, warning, citation, search, arrest)	0.3%
gender	Gender perceived by officer (male, female, nonbinary)	0.2%
race	Race/ethnicity perceived by officer (Asian/PI, Black, Latinx, Middle Eastern, Native American, white)	0.8%
sdate	Date of stop. Converted into day of the week, season, and time sun rises and sets of the day of the stop.	0.0%
search	Whether a discretionary search occurred (yes/no)	0.0%
search_fl**	What was found if a search occurred (Nothing, Alcohol, Drugs, Stolen Property, Weapons, Other Evidence, Other non-Evidence)	2.8%
search_t1**	Search type	0.0%
stime	Time of stop. Converted into time categories (12-5 am, 5-10 am, 10 am-3 pm, 3-8 pm, and 8 pm-12 am)	0.0%
stop_type	Type of stop (traffic, pedestrian)	0.1%

* Stop Reason is a condensed variable created from the original variables that contain the code and text, which denote the ORS code and text description, respectively, for the stop reason.

**These missing percentage reflects the percent of missing when an entry is likely expected. In the case that Search= “no,” there is not an entry expected, so these are not included in the missing percentage in this table.

Table B.1. displays the overall rates of missingness for variables used in STOP analyses for Year 5 data, however these rates vary widely between agencies. In addition, some agencies show atypical patterns for submitted data. For example, four Tier 3 agencies show that over 15 percent of stops are for nonbinary individuals which stems from a data entry issue. In addition, six Tier 3 agencies show an arrest rate over 80 percent. CJC will continue to work with agencies on trouble shooting the stop data submission process.

All Tier 3 agencies were required to begin reporting in July 2020. For Year 5, CJC did not receive any data from the following Tier 3 agencies: Butte Falls PD, Gearhart PD, Hines PD, Jacksonville PD, Lake County SO, Merrill PD, North Bend PD, Portland Fire Bureau Investigations, PSU CPS, and Scappoose PD.

Appendix C – Stop Characteristics for Tier 3 Agencies

Table C.1. Race/Ethnicity Reporting for Tier 3 Agencies for All Reported Stops

Agency	Asian/PI	Black	Latinx	Middle Eastern	Native	White	Total
Astoria PD	36	40	148	7	2	1,996	2,229
Aumsville PD	9	13	85	2	0	424	533
Baker CO SO	20	32	115	9	0	1,530	1,706
Baker City PD	15	8	63	4	1	672	763
Bandon PD	21	7	34	22	0	310	394
Black Butte Ranch PD	2	4	6	1	0	113	126
Boardman PD	1	0	91	0	1	138	231
Brookings PD	40	11	120	10	12	998	1,191
Burns PD	15	5	28	2	0	298	348
Cannon Beach PD	80	28	159	52	2	1,621	1,942
Carlton PD	4	9	51	0	0	315	379
Clatsop CO SO	19	16	105	13	0	1,019	1,172
Coburg PD	26	31	107	33	0	859	1,056
Columbia CO SO	28	27	68	16	6	1,357	1,502
Columbia City PD	3	4	10	3	0	88	108
Coos Bay PD	31	52	152	9	10	3,175	3,429
Coos CO SO	12	6	57	2	1	693	771
Coquille PD	6	4	36	2	0	408	456
Cottage Grove PD	5	11	20	0	0	428	464
Crook CO SO	6	14	76	2	0	776	874
Curry CO SO	12	5	9	0	1	300	327
Dallas PD	18	49	139	8	0	1,129	1,343
Eagle Point PD	39	44	267	6	2	2,087	2,445
Enterprise PD	1	0	4	0	0	45	50
Florence PD	20	7	62	15	3	919	1,026
Gervais PD	11	13	79	1	0	497	601
Gilliam CO SO	32	38	174	5	3	1,197	1,449
Gladstone PD	105	129	407	58	26	2,371	3,096
Gold Beach PD	27	13	34	15	0	428	517
Grant CO SO	1	1	0	0	0	58	60
Harney CO SO	2	5	10	2	0	112	131
Hood River PD	50	30	552	6	6	1,321	1,965
Hubbard PD	19	14	603	2	0	553	1,191
Independence PD	12	28	172	2	0	409	623
Jefferson CO SO	22	6	148	5	20	947	1,148
Josephine CO SO	27	36	162	9	1	1,332	1,567
Junction City PD	10	13	38	0	0	357	418
La Grande PD	36	11	16	2	0	427	492
Madras PD	14	4	46	3	1	105	173

(Table C.1. continued on next page)

Malheur CO SO	2	5	57	0	0	331	395
Malin PD	6	4	60	1	0	89	160
Manzanita PD	19	3	19	5	0	216	262
Milton-Freewater PD	3	7	169	2	1	287	469
Molalla PD	12	19	118	9	1	939	1,098
Monmouth PD	31	32	160	4	0	579	806
Morrow CO SO	13	17	585	3	21	1,154	1,793
Mt. Angel PD	13	9	202	4	0	310	538
Myrtle Creek PD	7	11	25	4	0	844	891
Myrtle Point PD	2	3	5	0	0	65	75
Newport PD	7	16	169	1	4	595	792
Nyssa PD	1	0	107	0	0	335	443
OSU PD	34	20	22	14	8	189	287
Oakridge PD	21	7	12	4	0	171	215
Ontario PD	1	5	161	0	0	600	767
Pendleton PD	30	30	123	3	75	929	1,190
Philomath PD	69	28	105	23	4	1,039	1,268
Phoenix PD	23	37	219	9	0	1,129	1,417
Pilot Rock PD	6	1	9	1	0	189	206
Port Orford PD	34	7	26	27	1	362	457
Powers PD	1	0	1	0	0	157	159
Prineville PD	20	24	192	1	1	2,195	2,433
Rainier PD	4	2	8	1	0	173	188
Reedsport PD	0	0	2	0	0	52	54
Rogue River PD	5	2	38	1	0	203	249
Sandy PD	100	79	307	26	41	2,668	3,221
Seaside PD	54	40	223	19	3	1,948	2,287
Sherman CO SO	66	37	274	18	2	729	1,126
Sherwood PD	171	134	501	59	17	3,250	4,132
Silverton PD	31	46	453	7	0	2,053	2,590
St. Helens PD	0	1	3	0	2	157	163
Stanfield PD	13	19	312	7	5	636	992
Stayton PD	20	17	146	6	0	936	1,125
Sunriver PD	13	15	71	7	0	1,095	1,201
Sutherlin PD	20	25	131	6	0	1,503	1,685
Sweet Home PD	6	3	15	1	0	601	626
Talent PD	33	42	165	18	0	1,026	1,284
The Dalles PD	21	17	189	8	2	764	1,001
Tillamook CO SO	30	11	118	15	0	887	1,061
Tillamook PD	65	31	249	31	4	1,418	1,798
Toledo PD	20	31	143	3	23	1,697	1,917
Turner PD	7	10	58	3	0	308	386
Umatilla CO SO	5	12	213	5	5	405	645
Umatilla PD	9	26	634	2	5	653	1,329
Union CO SO	8	19	21	5	1	266	320

(Table C.1. continued on next page)

Union Pacific Railroad PD	0	5	17	0	0	149	171
Vernonia PD	1	1	2	0	0	115	119
Wallowa CO SO	3	1	11	2	2	83	102
Warrenton PD	30	34	90	6	3	1,333	1,496
Wasco CO SO	6	5	28	0	6	193	238
Wheeler CO SO	7	4	25	5	1	464	506
Winston PD	3	12	36	2	3	836	892
Yamhill PD	20	17	85	14	0	323	459
Total Tier 3	1,963	1,751	11,567	720	339	71,440	87,780

Table C.2. Percent & Number of Tier 3 Agency Stops by Stop Type (Traffic vs. Pedestrian)

Agency	Traffic		Pedestrian		Total
	Count	Percentage	Count	Percentage	
Astoria PD	2,227	99.9%	2	0.1%	2,229
Aumsville PD	533	100.0%	0	0.0%	533
Baker CO SO	1,705	99.9%	1	0.1%	1,706
Baker City PD	762	99.9%	1	0.1%	763
Bandon PD	394	100.0%	0	0.0%	394
Black Butte Ranch PD	126	100.0%	0	0.0%	126
Boardman PD	268	99.6%	1	0.4%	269
Brookings PD	1,191	100.0%	0	0.0%	1,191
Burns PD	348	100.0%	0	0.0%	348
Cannon Beach PD	1,935	99.6%	7	0.4%	1,942
Carlton PD	367	96.8%	12	3.2%	379
Clatsop CO SO	1,172	100.0%	0	0.0%	1,172
Coburg PD	1,054	99.8%	2	0.2%	1,056
Columbia CO SO	1,495	99.5%	7	0.5%	1,502
Columbia City PD	108	100.0%	0	0.0%	108
Coos Bay PD	3,428	100.0%	1	0.0%	3,429
Coos CO SO	763	99.0%	8	1.0%	771
Coquille PD	456	100.0%	0	0.0%	456
Cottage Grove PD	464	100.0%	0	0.0%	464
Crook CO SO	873	99.9%	1	0.1%	874
Curry CO SO	327	100.0%	0	0.0%	327
Dallas PD	1,342	99.9%	1	0.1%	1,343
Eagle Point PD	2,443	99.9%	2	0.1%	2,445
Enterprise PD	50	100.0%	0	0.0%	50
Florence PD	1,026	100.0%	0	0.0%	1,026
Gervais PD	603	99.8%	1	0.2%	604
Gilliam CO SO	1,679	99.7%	5	0.3%	1,684
Gladstone PD	3,071	99.2%	25	0.8%	3,096
Gold Beach PD	517	100.0%	0	0.0%	517
Grant CO SO	60	100.0%	0	0.0%	60
Harney CO SO	131	100.0%	0	0.0%	131
Hood River PD	1,964	99.9%	1	0.1%	1,965
Hubbard PD	1,187	99.7%	4	0.3%	1,191
Independence PD	623	100.0%	0	0.0%	623
Jefferson CO SO	1,147	99.9%	1	0.1%	1,148
Josephine CO SO	1,566	99.9%	1	0.1%	1,567
Junction City PD	418	100.0%	0	0.0%	418
La Grande PD	492	100.0%	0	0.0%	492
Madras PD	173	100.0%	0	0.0%	173
Malheur CO SO	395	100.0%	0	0.0%	395
Malin PD	160	100.0%	0	0.0%	160
Manzanita PD	262	100.0%	0	0.0%	262

(Table C.2. continued on next page)

Milton-Freewater PD	467	99.6%	2	0.4%	469
Molalla PD	1,046	95.3%	52	4.7%	1,098
Monmouth PD	805	99.9%	1	0.1%	806
Morrow CO SO	1,797	99.8%	4	0.2%	1,801
Mt. Angel PD	533	99.1%	5	0.9%	538
Myrtle Creek PD	886	99.4%	5	0.6%	891
Myrtle Point PD	75	100.0%	0	0.0%	75
Newport PD	1,085	99.5%	5	0.5%	1,090
Nyssa PD	443	100.0%	0	0.0%	443
OSU PD	281	97.9%	6	2.1%	287
Oakridge PD	214	99.5%	1	0.5%	215
Ontario PD	767	100.0%	0	0.0%	767
Pendleton PD	982	82.5%	208	17.5%	1,190
Philomath PD	1,265	99.8%	3	0.2%	1,268
Phoenix PD	1,416	99.9%	1	0.1%	1,417
Pilot Rock PD	205	99.5%	1	0.5%	206
Port Orford PD	457	100.0%	0	0.0%	457
Powers PD	159	100.0%	0	0.0%	159
Prineville PD	2,726	99.8%	6	0.2%	2,732
Rainier PD	196	100.0%	0	0.0%	196
Reedsport PD	54	100.0%	0	0.0%	54
Rogue River PD	249	100.0%	0	0.0%	249
Sandy PD	3,213	99.8%	8	0.2%	3,221
Seaside PD	2,287	100.0%	0	0.0%	2,287
Sherman CO SO	1,125	99.9%	1	0.1%	1,126
Sherwood PD	4,117	99.6%	15	0.4%	4,132
Silverton PD	2,535	97.9%	55	2.1%	2,590
St. Helens PD	159	97.5%	4	2.5%	163
Stanfield PD	1,101	100.0%	0	0.0%	1,101
Stayton PD	1,124	99.9%	1	0.1%	1,125
Sunriver PD	1,199	99.8%	2	0.2%	1,201
Sutherlin PD	1,680	99.7%	5	0.3%	1,685
Sweet Home PD	626	100.0%	0	0.0%	626
Talent PD	1,266	98.6%	18	1.4%	1,284
The Dalles PD	1,117	99.5%	6	0.5%	1,123
Tillamook CO SO	1,059	99.8%	2	0.2%	1,061
Tillamook PD	1,797	99.9%	1	0.1%	1,798
Toledo PD	1,917	100.0%	0	0.0%	1,917
Turner PD	386	100.0%	0	0.0%	386
Umatilla CO SO	686	99.0%	7	1.0%	693
Umatilla PD	1,416	99.7%	4	0.3%	1,420
Union CO SO	320	100.0%	0	0.0%	320
Union Pacific Railroad PD	0	0.0%	171	100.0%	171
Vernonia PD	117	98.3%	2	1.7%	119
Wallowa CO SO	102	100.0%	0	0.0%	102

(Table C.2. continued on next page)

Warrenton PD	1,496	100.0%	0	0.0%	1,496
Wasco CO SO	242	99.2%	2	0.8%	244
Wheeler CO SO	506	100.0%	0	0.0%	506
Winston PD	887	99.4%	5	0.6%	892
Yamhill PD	459	100.0%	0	0.0%	459
Tier 3 Total	88,352	99.2%	693	0.8%	89,045

Appendix D – Decision to Stop Analysis Technical Appendix and Detailed Results

The Decision to Stop (DTS) analysis, first developed by Grogger and Ridgeway (2006) as the Veil of Darkness analysis, analyzes stop data for racial/ethnic disparities and is based on the basic assumption that officers can better detect a driver’s race during daylight hours as compared to darkness. Specifically, relying on variations in daylight throughout the year, the DTS test compares the racial composition of stops in daylight to those in darkness during a combined inter-twilight window, which occurs during morning and evening commute times. The primary advantage of the test is that it does not rely on a benchmark comparison of either the estimated driving population or the residential population. Further, it is a widely accepted technique does not suffer from benchmarking issues, and when deployed via a multivariate analysis, provides a strong test of racial disparities (Fazzalano and Barone 2014).

The DTS analysis relies on two primary assumptions. The first is that in darkness, it is more difficult for officers to determine the race/ethnicity of an individual they intend to stop. Second, the analysis also assumes that driving population is consistent throughout the year, between daylight and darkness, and between the morning and evening commutes. If these assumptions hold, it is possible to model the differences in stops between light and dark using a logistic regression that takes the following form:

$$\ln\left(\frac{P(m|\delta)}{1 - P(m|\delta)}\right) = \alpha + \delta + \gamma + \omega + \varepsilon$$

where m represents the treatment of a minority group relative to the white majority group, δ is a binary indicator representing daylight, γ is a vector of coefficients, including controls for time of day, day of the week, season, agency stop volume, and county stop volume, and ω is a vector of coefficients representing the demographic characteristics of the stopped individual as well as the reason for the stop.³³ Importantly, the inclusion of controls for time of day, day of the week, and season ensure that the model meets the second assumption regarding the consistency of the driving population throughout the year.

A key factor in the specification of the DTS model is identifying the appropriate periods of daylight and darkness for the analysis. Following Grogger and Ridgeway (2006), the STOP Program analyzes stops that occur within the combined inter-twilight window. The combined inter-twilight window is created from the Oregon traffic stop data from July 1, 2021, to June 30, 2023. Every traffic stop is defined to have occurred in daylight or darkness based on the date, time, and location of the stop. Astronomical data from the United States Naval Observatory (USNO) is used to determine the sunrise, sunset, and start and end of civil twilight. If the location of the stop has been geo-coded, then those coordinates are used to determine the sunrise, sunset, and civil twilight window for that exact location. If the stop has not been geo-coded due to limitations with location data, the centroid of the city is used. If the city information is unavailable, then the centroid of the county is used.

The dawn inter-twilight period is defined as the earliest start of civil twilight to the latest sunrise. The earliest start of civil twilight is 4:21am in Wallowa County, and the latest sunrise is 7:59am in Clatsop County. Stops that occur in the daily morning twilight window (approximately 30 minutes between the start of civil twilight and the sunrise) are removed since it is neither light nor dark during this time period. Conversely, the dusk twilight window is defined as the earliest sunset to the latest end of civil twilight. The earliest sunset is 4:05pm in Wallowa County, and the latest end of civil twilight is 9:48pm in Clatsop County. Stops that occur in the daily evening twilight window (approximately 30 minutes between sunset

³³ The covariates included in the models were age, gender, reason for the stop, day of week, time of day, quarter or season, stop year, county stop volume, and agency stop volume. Time of day is modeled as a control variable for morning and evening stops, as well as a spline with three degrees of freedom within each twilight window. Alternative time of day controls were tested and did not change the results.

and the end of civil twilight) are similarly removed since it is neither light nor dark during this time period. Adjustments have been made to account for daylight savings time (DST) in November and March. In addition, while most of Oregon is on Pacific Standard Time (PST), most of Malheur County is on Mountain Standard Time (MST). The stops in Malheur County have been adjusted to account for this time zone.

The log odds that result from the DTS logistic regression model were then converted to odds ratios. Thus, the model tests whether the odds of non-white traffic stops during daylight are significantly different from the odds of non-white traffic stops during darkness. The DTS approach tests whether the odds ratio is statistically significantly different from 1.0. If the odds ratio is not statistically different from 1.0, then the test finds no difference in stops made during daylight and darkness. If the odds ratio is greater than 1.0 and statistically significant, however, the test concludes the odds of non-white drivers being stopped in daylight is significantly higher than in darkness, which is taken as evidence of a racial disparity in stops, after accounting for additional control variables that are available in the stop data. Conversely, if the odds ratio is less than 1.0 and statistically significant, the odds of a non-white driver being stopped in daylight is significantly lower than in darkness. The logistic regression modeling was compiled using Stata software and utilizing the logistic regression function.

Appendix E – Stop Outcomes Analysis Technical Appendix and Detailed Results

Propensity score methods are a family of statistical methods for drawing causal inference about treatment effects in situations where randomized control trials are not feasible. Randomized control trials ensure that treatment assignment is independent of all covariates. Without this randomization, confounders may bias the estimated treatment effects. Confounding variables are a major hurdle to estimating effects in real-world settings and balancing based on the propensity to receive treatment (i.e., propensity score) is one way to mitigate this bias in non-experimental settings. In general, propensity score techniques aim to balance the characteristics (or confounding variables) of the treatment and control groups. This allows an unbiased comparison between those two groups for the outcome variable of interest, as there are no observed differences between the two groups. These methods are frequently employed in the analysis of disparities in criminal justice settings (Higgins et al. 2011; 2013; Ridgeway 2006; Stringer and Holland 2016; Vito, Grossi, and Higgins 2017).

Propensity score methods measure the characteristics of the “treatment” and “control” groups and then weight one or both groups based on measured characteristics so that the two groups look as similar as possible. The resulting groups are said to be “balanced” if they are statistically similar across measured confounding variables following the balancing procedure. If all confounding variables are measured and balanced, then the difference in the average outcomes between the treatment and control groups is an unbiased measure of the average treatment effect. Similarly, if unmeasured confounding variables are closely correlated with the balanced confounding variables and thus are also likely to be balanced, then the average treatment effect is balanced. Some methods, as employed in the current analysis, go a step further and incorporate regression analysis as an additional controlling method after the balancing process.

There are several different forms of propensity score estimators. Here, the researchers employ Inverse Probability Weighted Regression Adjustment (IPWRA) using the Stata statistical package, version 16.1. The method has the following steps:

1. The treatment equation is estimated including potentially confounding variables. The dependent variable is a binary treatment variable and a probit model is estimated.
2. The predicted treatment values from the estimates in step 1 are stored.
3. Inverse probability weights (IPW) are created for each observation using these values.³⁴
 - a. For treated observations, $IPW = 1$
 - b. For control observations, $IPW = \frac{(propensity\ score)}{1 - (propensity\ score)}$
4. The outcome equation is estimated using the weights created in step 3 in a regression analysis, including all covariates that are theoretically relevant predictors of the outcome variable.

One advantage of the IPWRA estimator relative to other propensity score estimators is that it benefits from the Double Robust property by estimating the regression equation after the balancing procedure: If *either* the treatment equation *or* the outcome equation is correctly specified then the estimator is unbiased. Put alternatively, the estimates from IPWRA estimation are robust to misspecification errors in either the treatment or outcome equation. Two-stage propensity score estimators such as IPWRA balance for important covariates at both the treatment selection and outcome stages of estimation.³⁵

³⁴ These differ whether the estimate is the Average Treatment Effect (ATE) or the Average Treatment Effect on the Treated (ATET). Here we are estimating the ATET (Austin and Stuart 2015).

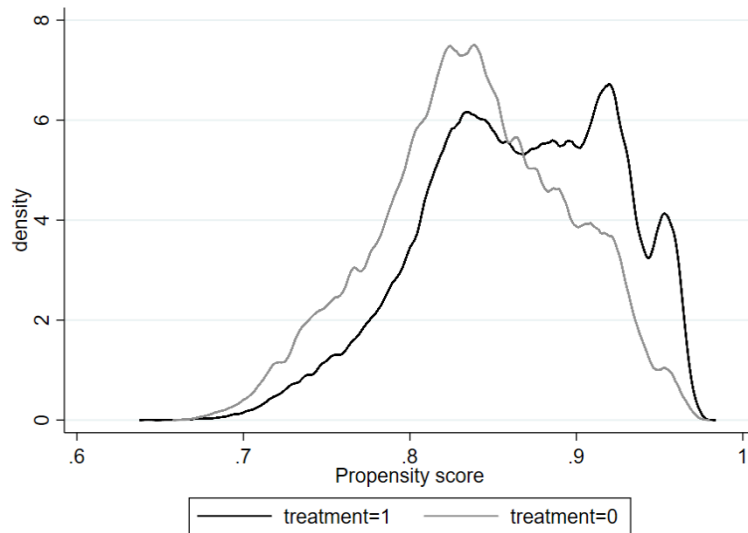
³⁵ For a thorough discussion of IPWRA methods, see Wooldridge 2010, Chapter 21.3.4.

Assumptions

There are a few assumptions that must hold in order for propensity score estimators to be unbiased. The first is the conditional independence assumption³⁶, which states that the outcome variable is conditionally independent of the treatment. This means that if researchers include all relevant confounding variables in estimating the treatment equation, i.e., the treatment equation is properly specified, and these variables are balanced across the two groups following match selection, then the outcomes are conditionally independent of the treatment. In order for this assumption to hold, changes in any unobserved variables that have an effect on the outcome variable must not also have an effect on the treatment variable. This assumption is a theoretical consideration that is not possible to directly test, as a variable may be correlated with both treatment and outcome but may be a spurious correlation. The analyst may, however, ensure that all the measured confounding variables are equally represented in both the treatment and control groups and thus that the confounding variables are not the drivers of remaining variance in treatments and outcomes.

The second main assumption is the overlap assumption, whereby the range of estimated propensity scores for the treated group must overlap with those of control group observations. If an observation is not within this range, then it is omitted from the sample as it is impossible to form a valid match from the comparison group. This idea is best represented with a pre-balance propensity score distribution graph, as seen in the examples below. Figure E.1. shows that for most values of the propensity score (horizontal axis) there is an observation for both the treated (treatment=1) and untreated (=0) groups, but also that at the upper and lower ends there are treated observations that do not have a comparable observation in the untreated group. To satisfy this assumption for this example these observations with extreme propensity scores would be dropped.

Figure E.1. Overlap Example



With a limited range of covariates, including mostly categorical variables, and the large sample sizes with this set of Tier 1 agencies, each analysis completed here had no omitted observations because of a violation of the overlap assumption.³⁷

³⁶ This assumption is also referred to as the unconfoundedness assumption.

³⁷ Omitted treatment variables per analysis are not included in this report due to the high number of analyses conducted.

Finally, the Stable Unit Treatment Value Assumption (SUTVA) is similar in concept to the independent and identically distributed (i.i.d.) assumption, but specific to the treatment assignment setting. SUTVA requires that any given unit’s treatment assignment does not have a causal relationship with another observation’s treatment assignment. This assumption would be violated in this case if, for example, the stop of a Latinx individual causes another Latinx individual to be stopped. There may be clustering of stops by race/ethnicity group based on policing strategies, but this assumption is not likely to be violated in this case as the race of a stopped individual does not plausibly impact the race of subsequently stopped individuals.³⁸

Estimation

If the above assumptions hold then estimation may proceed. The `teffects ipwra` command is used in Stata to estimate these models. First the “treatment” equation is estimated. The treatment variables in this case are indicator variables for each of:

1. Officer perception of race/ethnicity: = 1 if Asian/PI, = 0 if white
2. Officer perception of race/ethnicity: = 1 if Black, = 0 if white
3. Officer perception of race/ethnicity: = 1 if Latinx, = 0 if white
4. Officer perception of race/ethnicity: = 1 if Middle Eastern, = 0 if white
5. Officer perception of race/ethnicity: = 1 if Native American, = 0 if white

The standard language of treatment/control used with the IPWRA methodology is ill-suited to this STOP analysis. The current analysis weighs the two groups under each sub-analysis across all observed covariates, rather than giving one group a treatment, but not the other. This method makes it so that the only perceptible difference between the two groups is the race/ethnicity of those two groups, but race/ethnicity does not conform to this “treatment” description. This language is preserved simply to remain consistent with the relevant literature.

The following confounding variables are balanced across the groups:

1. Female indicator, 1 = if female, 0 = if any other
2. Age category indicators for each of <21, 21-24, 25-29, 30-39, 40-49, 50+
3. Season indicators for each of Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec
4. Daylight indicator = 1 if stop happened after sunrise and before sunset, = 0 otherwise
5. Time of stop indicators for each of 12am-5am, 5am-10am, 10am-3pm, 3pm-8pm, 8pm-12am
6. Citation category indicators for each of Equipment Violation; Low Speed or Moving Violation; Moving Violation – High; Moving Violation – Medium; Registration/License; Speed Violation – High; Speed Violation – Medium; and Unknown/Other.
7. Day of week indicators
8. Agency stop volume =
$$\frac{\text{Total \# of stops by agency on day of stop}}{\text{Maximum \# of daily stops by agency over year of analysis}}$$
9. County stop volume =
$$\frac{\text{Total \# of stops by agency on day of stop}}{\text{Maximum \# of daily stops in the county over year of analysis}}$$

For the additional analysis, one further variable is included:

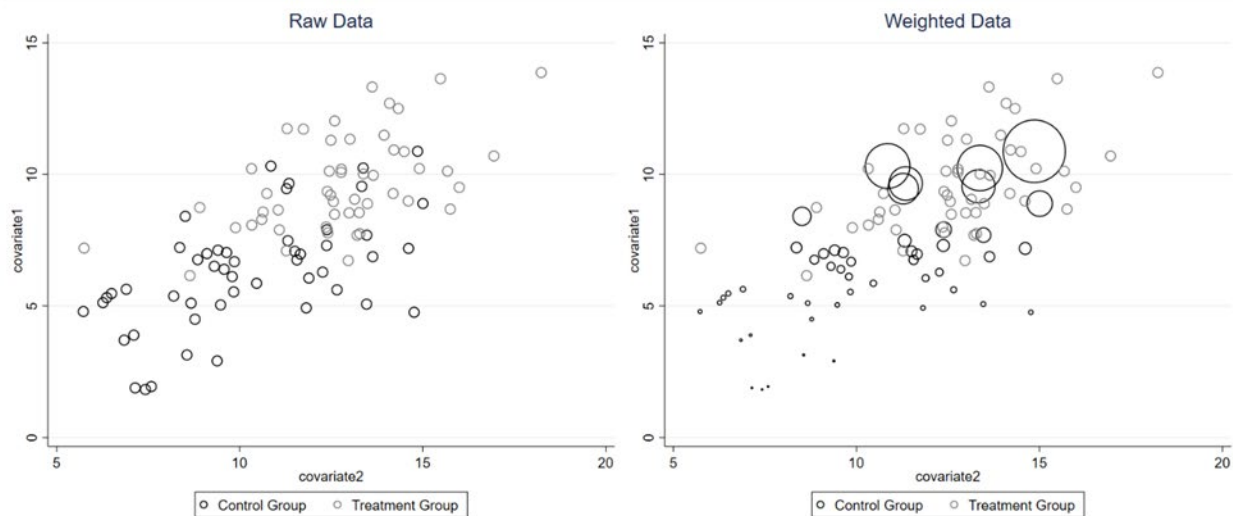
10. If the stop outcome is caused by a low-discretion violation = 1, otherwise = 0

³⁸ The Stata handbook provides a good description of these assumptions, and the counterfactual model that underlies all matching methods. (“Stata Treatment-Effects Reference Manual: Potential Outcomes/Counterfactual Outcomes” 2019).

The first step of the analysis uses a probit model to estimate the propensity of being in the treatment group based on the covariates listed above. Overlap of propensity scores is evaluated and any non-overlapping observations are removed from the sample. Inverse Probability Weights (IPWs) are estimated for each observation based on the propensity scores. For the treatment group in an ATET framework, these weights are equal to 1. For the control group the weight is equal to $p/(1 - p)$, where p is the propensity score (see footnote 31). In effect, this process gives more weight to control observations that have a higher propensity score (i.e., are more similar to treated observations).

A hypothetical example application of IPWs is in Figure E.2. below. The two graphs each represent control and treatment group observations and their respective values for each of two covariates. While there is some overlap between the groups in this example, the treatment (light gray) group tends to have higher values of both variables. In the Raw Data (unweighted) we can see that the two groups are not directly comparable. After calculating IPWs for ATET these weights are applied to the two groups and represented by the size of the circles in the Weighted Data graph. The treatment group remains the same here since the weights = 1, but the importance or weight of control group observations are adjusted. The observations that are closer to the treatment group observations are given a large weight, while those that are not are given a small weight. The weighted control group, as a whole, has observations that are much closer to those of the treatment group than the raw control group.

Figure E.2. Weighting Example



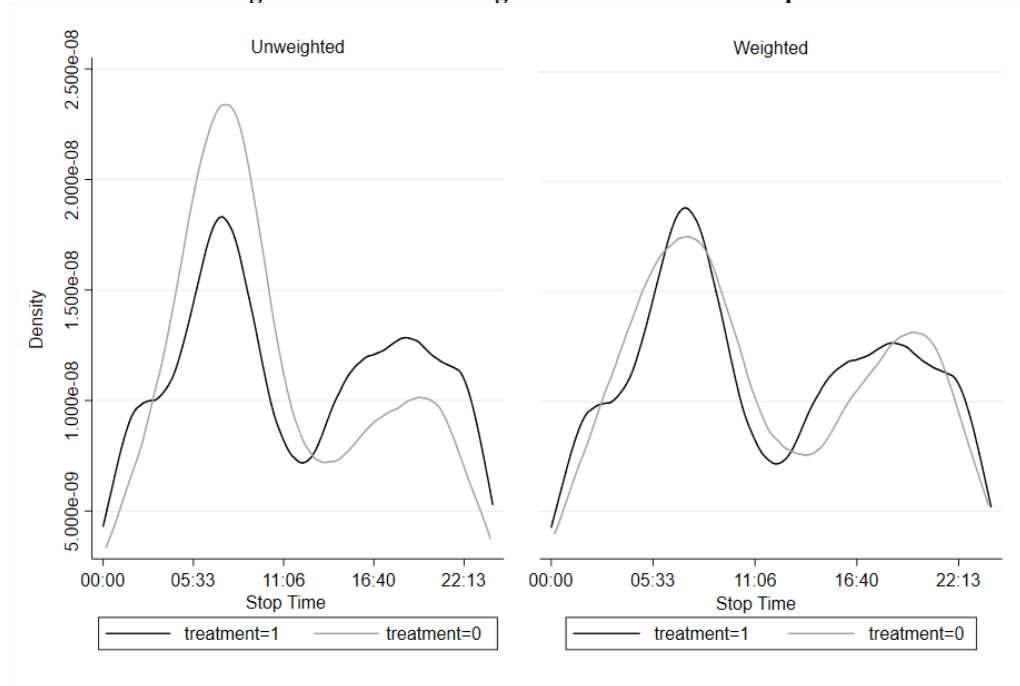
Balance is then measured based on the standardized difference³⁹ in means and the variance ratio⁴⁰ between the treatment and control groups for each of the raw data set and the inverse probability weighted data set. If the resulting standardized difference in the weighted data set is close to zero and the variance ratio is close to 1 for each variable for the weighted data then the sample is said to be balanced. Balance was evaluated in every data subset by agency and strong balance was achieved in every instance, e.g., the standardized differences were always close to zero (usually within .01 of 0, always within 0.05) and the variance ratios were always close to one (usually within .01 of 1, always within 0.05) (Austin 2009a; 2009b). In every case, the data sets were relatively well balanced in the initial, raw data sets, but became

³⁹ The standardized difference of variable x is: $\delta_x = \frac{\mu_x(t=1) - \mu_x(t=0)}{\sqrt{\frac{\sigma_x^2(t=1) - \sigma_x^2(t=0)}{2}}}$

⁴⁰ The variance ratio is simply the variance of the treated group divided by the variance of the control group.

more balanced through the weighting process. This balance can also be evaluated graphically for each variable. Figure E.3. is an example of one of these variables for one agency. The Unweighted chart displays the distribution of stop time for each of the treated group and the untreated group. The Weighted chart displays these same distributions with the IPWs applied. The distributions of the two groups more closely resemble each other in the weighted graph than in the unweighted graph, so STOP Program researchers can say that these groups are more balanced when incorporating the IPWs.

Figure E.3. Confounding Variable Balance Example



Outcome equations are then estimated for each of the treatment variables across four sets of outcomes:

1. = 0 if a warning/none disposition is observed, = 1 otherwise
2. = 1 if a citation disposition is observed, = 0 if warning/none outcome is observed
3. = 1 if a search disposition is observed, = 0 if a citation or warning/none outcome is observed
4. = 1 if an arrest disposition is observed, = 0 otherwise

In the next step, probit models with the inverse probability weights applied and robust standard errors are estimated for each of the treatment and control groups. Predicted outcomes are stored for each observation and their average yields the potential outcome mean for the control group. The comparison between this mean and the actual average of the treatment group yields the Average Treatment Effect on the Treated (ATET), the main estimate of interest in these models. This estimate is slightly different from the Average Treatment Effect as it focuses specifically on the effect on the treated group rather than the population as a whole. In this case, the estimates may be interpreted as the average difference in predicted probability of the outcome if the treated (minority) group had identical characteristics to the control group, except had a race/ethnicity = white.⁴¹

Limitations

⁴¹ Conversely, the ATE predicts these differences for both the treated group and for the untreated group and averages all these differences. Thus, it estimates the difference in predicted probabilities for both the white group and the minority groups and averages across all observations.

As with any statistical analysis, there are potential shortcomings of IPWRA analysis that may hinder the validity of the results. In this case, the largest concerns are the data limitations that result in the omission of some confounding variables that may be theoretically relevant. Comparable analyses of bias in police stops in other localities have controlled for additional confounding variables not included here, including police officer identifiers, make/model/year of vehicle, and location of the stop. Other variables may influence officer decision criteria but are rarely included in the comparable analyses in other states due to data availability challenges. These variables include economic characteristics of the driver (i.e., employment status, income, etc.) and information on the driving population from which drivers are stopped. This later variable poses significant estimation challenges as it requires several assumptions regarding directions, populations, and time of travel, as well as frequencies of commuters and tourists at each location in the road system. Without significant preliminary data about these factors any estimation of the driving population is likely to incorporate a significant amount of bias to any disparity estimates built on top of these driving population estimates.

Many of these variables are not described in the statutes establishing Oregon's STOP data tracking system (e.g., make/model). Other variables, such as geographic location of the stop, are highly varied in quality and format across these Oregon agencies. Some Oregon agencies provide precise longitude and latitude of the traffic stop via automatic logging in the cellphone app, other agencies allow officers to enter nearest intersections or mile markers, and others require no location to be entered by their officers. Due to this lack of uniformity in reporting, the STOP research team could not include location information for some agencies with high quality location information while also conducting uniform analyses agencies.

The omission of important confounding variables leads to the low Pseudo-R²s in the results and also drives the high amount of balance found in the raw data. In each sub-analysis the balancing procedure leads to greater confounder balance than in the raw data, but the groups were not egregiously unbalanced in the raw data. A high number of the confounders are binary indicator variables, which makes it easier to form very close matches and leads to less imbalance in the raw data, but this also shows that these variables may be imprecisely measured.

Appendix F – Search Findings Analysis Technical Appendix

Model and Assumptions

The Search Findings analyses performed in this report are based on the model presented by Knowles, Persico, and Todd (2001) which details how police and citizens act surrounding searches. In this model, police officers are assumed to make the decision to search someone based on their perception of the likelihood that the person will have contraband in their possession, while also accounting for the economic “cost” of a search. In the case that the cost of searching members of different groups is the same, the STOP Program researchers expect officers to search the group that they perceive to be more likely to possess contraband. Similarly, this model assumes that citizens make the decision to carry contraband based on their perception of the likelihood that they will be caught with contraband. If a particular group is more likely to carry contraband, they will be searched more often by police. As a group, they will respond by reducing their likelihood to carry contraband in order to reduce their risk of being caught. In this way, any differences in groups’ likelihoods to carry contraband and to be searched by police should tend toward an equilibrium. At equilibrium, STOP Program researchers expect that the hit-rate (the rate at which searches are “successful,” or result in finding contraband) should be equal across groups, whereas unequal hit-rates indicate disparate search practices.

The Search Findings analysis assesses whether police are participating in racial/ethnic discrimination by over searching members of a particular group. If a group is “over-searched” (searched more often than necessary to maintain the abovementioned equilibrium), then the hit-rate for that group will be lower than that of a baseline group. In the case of this report, if a minority racial/ethnic group is “over-searched,” then the hit-rate for that group will be lower than that of white individuals, perhaps indicating what Becker calls “a taste for discrimination” (an economic phrase coined to describe discrimination) in officers conducting searches.

Hit-Rate and Significance Calculation

The hit-rate for a group is simply a proportion. The total number of searches of a group is represented by s and the number of searches of that group which result in finding contraband is represented by f :

$$\text{KPT Hit-Rate} = \frac{f}{s}$$

After calculating hit-rates by agency for each racial/ethnic group, chi-square tests of independence were performed in order to determine whether differences in the hit-rates were statistically significant. Yates’s continuity correction for the chi-square test was used to mitigate the test’s tendency to produce low p-values due to the discrete nature of the data. However, no substantive difference arose between the results when performed with or without the continuity correction. A confidence level of 95 percent with a Bonferroni correction for multiple testing determined significance. Each agency’s white hit-rate was compared to each race group (Black, Latinx, Asian/PI, Middle Eastern, and Native American) dependent upon sample size, so a Bonferroni corrected p-value of $0.05/5 = 0.01$, $0.05/4$, $0.05/3$, $0.05/2$, or 0.05 was used, dependent upon the number of groups for which the analysis was able to be performed. Hit-rate analyses and accompanying statistical tests were performed with the statistical software R.

Limitations

One important assumption of the Search Findings analysis model is that all searches included in the analysis are discretionary. Some searches, such as those made incident to arrest, are non-discretionary, meaning that there is no individual choice (discretion) in the officer’s decision to conduct the search. This

type of search is not representative of officers' motivations and cannot be used to determine any patterns of behavior. In the STOP Program training that all officers complete prior to submitting data for this study, officers are informed that non-discretionary searches should not be included in the data. This means that when a stop results in an officer arresting someone, although they will always do a "pat-down" to ensure safety at the time of arrest, STOP Program researchers should not always see a search recorded for the stop (as these pat-downs are non-discretionary searches). In some cases, the data seem to show records of searches incident to arrest, however it is not possible to distinguish these "mistakes" from true records of discretionary searches. Accordingly, STOP Program researchers chose to take all data at face value—that is, if a search was recorded, it is included in the KPT Hit-Rate analysis as a discretionary search.

A possible methodological limitation of the hit-rate test is the problem of infra-marginality (Simoiu 2017). Infra-marginality is best explained by example. Suppose that group A has some portion of members that carry contraband 55 percent of the time (while all other members of the group carry contraband less than 50 percent of the time). Suppose also that group B has some portion of members that instead carry contraband 75 percent of the time (while all other members of the group carry contraband less than 50 percent of the time). If an officer only searches every person (regardless of group) who has over a 50 percent chance of carrying contraband, then group A will have a lower hit-rate. In the hit-rate test, this would appear to indicate discrimination against group A, despite the true "group-neutral" manner of the officer's search decisions. While this is one of the widest criticisms of the KPT Hit-Rate test, Persico (of Knowles, Persico, and Todd) independently addressed the criticism of this limitation in a follow up paper. Persico (2009) argues that infra-marginality is alleviated by the allowance in the model for searched groups to respond to search intensity (by lowering their propensity to carry contraband when searched more frequently). This is consistent with KPT's initial assertion that subgroups, as well as larger racial/ethnic groups, should act similarly to larger groups in that they adjust their propensity to carry contraband according to their likelihood of being searched.

COUNCIL STAFF REPORT

To: Mayor and City Council
Reviewed: Luke Strait, Police Chief, and
Emma Sagor, Assistant City Manager
From: Ann Ober, City Manager
Subject: **Houseless Supportive Services Funding Requests**

Date Written: Jan. 31, 2024

ACTION REQUESTED

Council is asked to receive an update on the city's submission for supportive housing funds and confirm that all requests should remain in the proposal.

HISTORY OF PRIOR ACTIONS AND DISCUSSIONS

[January 16, 2024](#): Council received an update on the initial proposal for supportive housing funds.

Background

In November 2020, Metro introduced and received voter approval for a new Supportive Housing Services (SHS) tax. Funds collected by Metro are transferred to Clackamas, Washington, and Multnomah counties for distribution to nonprofits and local community partners. In 2023, the state also directed funds to counties to address the houseless crisis.

In late 2023, Clackamas County City Managers received notification from County Manager Gary Schmidt that Clackamas County would make SHS funds and the state's houseless funds available for qualifying city-prioritized projects. Applications are due on January 31, 2024.

Originally, the city's request was limited to a cooling center at the Ledding Library and funding for the city's behavioral health staff. However, in the past week, a few additional requests were made by partners that staff thought warranted additional requests. With the deadline occurring prior to the next Council meeting, staff submitted all five requests with the understanding that a proposal could be retracted following the February 2, 2024 council meeting.

City of Milwaukie Priorities

Clackamas County has limited services for those experiencing houselessness or those close to losing their housing. On January 16, city staff provided an update on work staff and city councilors are undertaking to increase the number and type of services occurring within the city's boundaries. Since that report, the city has submitted additional letters of interest to expand services. Those requests have prioritized city needs first, known crisis issue areas second, and new partnership opportunities third. The requests are:

- Cooling Center (\$30,000, on-going) - The only emergency warming and cooling shelters in Clackamas County are in Oregon City. The city is proposing funds for using the Ledding Library as a cooling center during heat and air quality events.
- Behavioral Health Staff (\$105,000, on-going) – Conversations with Clackamas County in 2022 included a request for funding of a city Behavioral Health Specialist. At the time, the position was not an allowable request based on county funding streams. That changed in 2023 and this proposal would cover 50 percent of the city’s costs for the position.
- Clackamas Service Center Rental Assistance (CSC) and Supportive Services (\$450,000, 2 year pilot) - This proposal would allow the CSC to provide food access, rental safety nets, and eviction prevention to Milwaukians in need for a 2 year pilot program.
- Stabilization Center Alignment (\$150,000 annually) – This proposal addresses the needs of clients with low- and extremely low- income who are experiencing housing instability or homelessness. The proposal would work in conjunction with the 23-hr stabilization center.
- Increased staffing for peer support specialists at Providence Milwaukie and Providence Willamette Falls (\$183,000, ongoing) – This funding would increase the number of staff in the Better Outcomes through Bridges program at Providence by adding 1.0 FTE outreach specialist and 1.0 FTE peer support specialist.

Next Steps

Once Council has changed or endorsed the requests, staff will meet with Clackamas County leadership to discuss the proposals. Council will learn more about funded proposals in our next quarterly update on houseless services in April. Staff remain hopeful that future funding opportunities will also be granted to cities. Should that occur, staff expect to present a proposal in future years for a Milwaukie-based warming shelter. Those conversations are currently underway but are not ripe.

BUDGET IMPACT

The grant requests do not require matching funds. The cooling center request would offset overtime pay for employees supporting the center. The behavioral health request would offset existing city costs.

CLIMATE IMPACT

None.

WORKLOAD IMPACT

The city manager continues to be the primary staff associated with policy work in this area. Depending on the issue area, the city manager is supported by the city’s events and emergency management coordinator and behavioral health specialist.

ATTACHMENTS

1. Notice of Funding Opportunity for City-led Homelessness Initiatives
2. County submission letter

Date: December 15, 2023

To: Clackamas County City Managers

From: Adam Brown, Deputy Director, Health, Housing & Human Services

Re: Notice of Funding Opportunity for City-led Homelessness Initiatives

Overview

In working to improve coordination and collaboration, increase geographical distribution of services, and support local leaders in tailoring approaches to addressing housing insecurity and homelessness that best suit their communities, Clackamas County is releasing this Notice of Funding Opportunity for city-led homelessness initiatives. Through its Health, Housing & Human Services Department, **Clackamas County anticipates allocating more than \$5.0 million in funding towards one-time and limited-term pilot projects.** Proposed initiatives should have a clearly articulated connection to the needs of low- and extremely-low income households experiencing housing instability or homelessness and support the county's recovery-oriented system of care.

City-led Homelessness Initiatives

Qualifying city-led homelessness initiatives should be one-time or limited-term investments in capital infrastructure and/or pilot programs for services that have the support of local leaders and are tailored to meet the needs of a specific community. There is no one-size-fits-all approach to addressing housing insecurity and homelessness. This funding opportunity is intended to spur creativity and innovation at the city level, empowering local leaders to supplement the often highly effective but under resourced local efforts to meet the needs of very low income households.

The county will enter into intergovernmental agreements with cities or directly contract with city-identified community based organizations to fund successful proposals. Cities are not expected to assume responsibility for administering homeless services programs. As the county's largest safety-net service provider and funder, the county anticipates retaining this responsibility and is committed to partnering with cities to structure the administration of investments in ways that meet city needs.

Allowable Initiative Categories

Proposed initiatives should have a clearly articulated connection to the recovery-oriented needs of low- and extremely-low income households experiencing housing instability or homelessness. Allowable investment categories include, but are not limited to:

Outreach & Engagement Supports

- Street outreach services
- In-reach services
- Basic survival support services

Housing Services

- Supportive housing
- Long-term rent assistance
- Short-term rent assistance
- Housing placement services
- Eviction prevention

Health & Wellness Supports

- Mental health services
- Interventions and addiction services
- Physical health services
- Nutritional support services, food banks
- Intervention services with physical impairments and disabilities
- Peer support services
- Discharge intervention services

Emergency Shelter & Navigation

- Sanctioned camping infrastructure
- Village-style shelter
- Congregate shelter
- Non-congregate (hotel) shelter
- Navigation, resource, or access centers

Advocacy Supports

- Landlord tenant education and legal services
- Fair housing advocacy

Employment & Benefit Supports

- Financial literacy services
- Employment services
- Job training and retention services

Proposal Requirements

In no more than four pages, proposals should:

- Identify the proposing city and any partnering agencies or community based organizations.
- Describe the need or infrastructure/service gap that exists in the community, including any population-specific needs.
- Articulate the proposed investment and its connection to the recovery-oriented needs of low- and extremely-low income households experiencing housing instability or homelessness.

- State whether the investment is one-time or limited-term. If limited-term, state the requested duration.
- Provide a high-level budget with costs broken out by capital, personnel, and materials and services. Include the total number of full-time equivalent (FTE) positions that will be funded any applicable line-level detail, distinguishing between one-time and limited-term costs.
- Information on community engagement, outreach, or other public communication that has been conducted on the project to date and future plans for those activities.

Proposals can be fully-formed or conceptual. The county is committed to engaging successful proposers in an interactive process to shape investments to best meet community needs.

Proposal Submission

Proposals should be emailed to Adam Brown (abrown@clackamas.us) and Vahid Brown (vbrown@clackamas.us).

Proposal Review & Selection

Proposals will be reviewed starting on **January 31, 2024**. The review and selection of proposals will be based on:

- Promoting the equitable geographic distribution of services.
- Reducing homelessness or the risk of homelessness.
- Enhancing the capacity of local communities.
- Incorporating culturally response practices.

More than \$5.0 million in funding is available. The county is committed to funding as many proposals as possible, but the ability to do so will be based on the sum of proposal budgets.

In the spirit of partnership, submissions and inquiries for collaboration will be welcome after January 31, 2024, but availability of funding cannot be guaranteed.

January 30, 2024

Health and Human Services Department
Clackamas County
2051 Kaen Road, #135
Oregon City, OR 97045

RE: City of Milwaukie response to funding opportunity for city-led homelessness initiatives

Dear Adam and Vahid,

Thank you very much for the opportunity to apply for funding to support one-time and limited-term pilot projects that support households experiencing housing instability or homelessness. We appreciate this collaborative effort to advance our shared goals.

The City of Milwaukie has partnered with several local entities to develop five proposals included in this application, including Clackamas Service Center and Providence Milwaukie Hospital. This proposal replaces a request the city made on December 12, 2023. The following sections of this letter describe the proposals, which initiative they address from the call for proposals, how the investment would be used, details on engagement already conducted or to be conducted, high-level timeline and budget information. The city has placed the proposals in our priority order of request, understanding that one request (Stabilization Center Alignment) may not be yet ripe. We recognize funding is tight, but each request helps to build a better support system for our community members in crisis.

We are grateful for your consideration and any support the County is able to provide. If you have any questions, please do not hesitate to contact me.

Sincerely,



Ann Ober, City Manager
City of Milwaukie



Proposal 1: Cooling Center at the Ledding Library and supportive Police Department resources

Initiative Category: Emergency Shelter and Navigation

Need and proposal for investment: The city proposes to extend cooling center hours at the library until 10 p.m. up to 30 nights annually when the county determines that the heat index is high enough to warrant the activation of cooling centers. The proposed cooling center will be staffed by city employees and will offer water, light refreshments in the form of pre-packaged food, and a safe place for people to seek relief from the heat when they would otherwise have nowhere to do so.

We have calculated that it will cost \$1,000 per night in staff time, utilities, and supplies to extend the cooling center hours. I therefore request that the county provide \$30,000 to the city for use in establishing this center. If the center is not activated for 30 nights in any given year, the city proposes to use any remaining funds to stock our Police Department patrol vehicles with additional inclement weather supplies for people they encounter who are being adversely affected by extreme weather. Examples include:

- | | |
|--|---------------------|
| Aloe Vera | Portable Fans |
| Cooling Neck Wraps/Gaitors | Shelf-stable snacks |
| Body Wipes | Sunscreen |
| Electrolyte Beverages (Gatorade, etc.) | Water Bottles |
| Ice Packs | Wide-Brimmed Hats |

Duration of investment: Ongoing

Budget:

- \$1,000 per day of shelter opening with savings being used to stock our Police Department patrol vehicles with additional inclement weather supplies

Proposal 2: Increased funding for a behavioral health and housing specialist within the Milwaukie Police Department

Initiative category: Outreach and Engagement Supports

Need and proposal for investment: The City of Milwaukie created a behavioral health specialist (BHS) position in late 2022. The BHS’s ability to connect with the unhoused population and assist police officers in providing follow on services for those experiencing crisis has been an exceptional asset to the community. In the program’s first year, the BHS has supported 201 unique individuals experiencing mental health, addiction, medical, and houselessness crises, walking with them on their journey.



Although the BHS position was initially intended to focus on assisting people experiencing mental health issues, housing is a critical component to this aftercare. Half the work of our BHS position has been dedicated to connecting Milwaukians in need with housing services, and 13 individuals have been permanently housed as a direct result of the BHS's efforts.

The original intention was for two positions to be separately funded; the county resourcing a position at Central City Concern, dedicated to services within the city boundaries and the city funding the behavioral health position. Though the city believes the position at Central City Concern is doing critical work, the majority of the work is outside the city due to ongoing staffing issues at Central City Concern, which we understand. Further, at the time of the original discussions, the county did not have access to funds for behavioral health staff. That has changed with the influx of state funds and the county has funded similar positions in other cities.

Duration of investment: Ongoing

Budget:

- 50% of BHS salary and personnel costs: \$75,000
- 50% of city vehicle used by BHS: \$27,000
- TOTAL: \$102,000

Proposal 3: Rental Assistance and Support Services

Initiative category: Housing Services

Need and proposal for investment: The cost of housing in Milwaukie is rising rapidly, increasing the need for rental assistance to prevent displacement. The city is actively implementing anti-displacement strategies across planning and programming, but direct services for those experiencing housing insecurity—including food access, rental safety nets, and eviction prevention—are lacking. This proposal would allow the Clackamas Service Center (CSC) to meet this need for a two-year duration.

Today, CSC provides more than 350 Milwaukie residents customized food boxes, and they have recently expanded one-stop stability services through their new Annex West Building. Integrating short-term rent assistance and eviction prevention services with CSC's core basic survival and health and wellness support services will increase ease of access, strengthen the continuum of care, and reduce housing insecurity.

With a 50-year track record of serving residents of Milwaukie and other parts of Clackamas County, CSC benefits from extensive community engagement and connections built over

generations. This includes a robust volunteer corps, including a 9-member board of directors and a 6-member ambassador committee.

Duration of investment: Two-year pilot

Budget:

- Service Navigation Personnel co-located at Clackamas Service Center - 1.0 FTE; \$75,000
- Program Director - .30 FTE \$20,000
- Program materials/supplies - \$30,000
- Short- and long-term rent assistance allocation - \$275,000
- Nutritional Support Personnel - .25 FTE \$15,000
- Food Box Delivery - \$25,000
- Organizational Management and Administration - \$10,000
- TOTAL: \$450,000 annually

Proposal 4: Stabilization Center Alignment

Initiative category: Emergency Shelter and Navigation

Need and proposal for investment: The city is in the process of working with Clackamas County to stand up a 23-hr stabilization center in Milwaukie. Given Milwaukie's urban density, the need for transitional supports and stabilization for those exiting the center is paramount. A responsible strategy will require interventions along a continuum of care, including:

- Navigation, support services, case management
- Peer support services
- Discharge intervention services
- Alignment with housing placement and stability

Through this proposal, we are seeking funding to support this comprehensive strategy. Milwaukie has a strong partnership with community service providers with proven success in behavioral health response, diversion from justice system involvement, and provision of stability support. This proposal addresses the needs of clients with low- and extremely low-income who are experiencing housing instability or homelessness. We suggest that this be considered as part of the ongoing investments of the 23-hr stabilization center and either in conjunction with or alignment with the provider that is selected to manage that center. Selected community organization(s) will have established relationships and trust in Milwaukie.

Duration of investment: Ongoing

Budget:

- Navigation and Case Management Personnel - 1.0 FTE; \$75,000
- Program materials/supplies - \$50,000



CITY OF MILWAUKIE

- Co-location with One-Stop Resource Center - \$15,000
- Organizational Management and Administration - \$10,000
- TOTAL: \$150,000 annually

Proposal 5: Increased staffing for peer support specialists at Providence Milwaukie and Providence Willamette Falls

Initiative category: Health and Wellness Supports

Need and proposal for investment: The [Better Outcomes through Bridges \(BOB\)](#) program currently has grant funding for 1.0 FTE outreach specialist and 1.0 FTE peer support specialist for both Providence Milwaukie Hospital and Providence Willamette Falls. These specialists work with patients recently discharged from the emergency department in behavioral health crisis, connecting them to community resources, services, and providers. Since the pandemic, volumes of individuals presenting to both local hospitals in need of housing and community coordination have grown considerably. As a result, these individuals circle through services and end up back in the emergency department repeatedly.

The currently funded specialists split their time between the hospitals and communities, which have different services, needs and community support systems, making the depth of services available less than other communities of similar size. As a result, they are not able to work as closely with community partners at the intersection of houselessness, mental health issues, substance use issues and other social determinants of health. We are seeking funding to add 1.0 FTE outreach specialist and 1.0 FTE peer support specialist so each community can have a full time, dedicated team. If it is not feasible to fund both positions, having a dedicated Outreach Specialist at each hospital would have the biggest impact.

Duration of investment: Ongoing

Budget:

- Outreach Specialist: \$87,384/year
- Peer Support Specialist: \$78,175/year
- Supervision: 0.2 FTE: \$17,476/year
- TOTAL: \$183,035