Trends in Racial Disparities in Vermont Traffic Stops, 2014-19

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EXECUTIVE SUMMARY

This study has three goals. The first it to analyze police behavior as regards race and traffic policing. The second is to evaluate police compliance with the law requiring the collection and reporting of traffic stop data. And the third is to evaluate the effectiveness of the legislation in generating robust data collection on race and traffic policing that is relatively user friendly for analysis by community stakeholders.

With regard to the first goal, we examine the data for evidence of racial disparities in several areas: racial shares and magnitudes of stops as well as racial disparities in stop rates, reasons for stops, arrest rates, search rates, and contraband "hit" rates. We also examine trends to determine whether racial disparities fall over time, particularly in response to the legalization of cannabis in July 2018. Our study is based on more than 800,000 traffic stops and 79 Vermont law enforcement agencies. The study includes a number of agencies that had not reported their data in time for our earlier study (Seguino and Brooks 2017). In addition to providing a statewide overview of racial disparities, we compare policing patterns as well as racial disparities across agencies, and separately for municipal law enforcement agencies, sheriff's departments, and the Vermont State Police.

We report raw data on all agencies in our sample, and these results can be found in the appendix. The data, along with this study, can also be found at https://www.uvm.edu/cas/economics/profiles/stephanie-seguino. We have been careful to include in the body of the report that follows agency-level statistics only for those agencies that have the minimum number of observations by race (typically, 10 or more).

Our main findings are as follows:
- The Black and Hispanic shares of stopped drivers exceed their shares of the estimated driving population. The data indicate Black drivers were over-stopped by between 3% to 81%, depending on the measure of the driving population used. Hispanic drivers were over-stopped by 26%. The shares of stops of all other racial groups are at or below their share of the driving population. These numbers represent a statewide average, and obscure wide variation at the agency level. We provide detailed agency-level data in the report, which show that approximately 45 agencies over-stopped Black drivers by more than 25%.
- The stop rate per 1,000 residents is very high in Vermont (255 drivers stopped per 1,000 residents) compared to the national average of 86 per 1,000 residents. This overall average obscures notable racial disparities in stop rates. The statewide white stop rate per 1,000 white residents is 256 compared to 459 stops of Black drivers per 1,000 Black residents. The Black stop rate is about 80% higher than the white stop rate and matches the upper bound described above since one of our measures of the driving population of an area is its number of residents.
- These averages also obscure the wide variation in stop rates per 1,000 residents. Of particular concern are agencies with large racial disparities in stop rates that

also significantly over-stop relative to the national average. For example, in Bennington the overall stop rate per 1,000 residents is estimated to be 659 and Black drivers are over-stopped from 55% to 335% depending on the measure of driving population.

- Black and Hispanic drivers were ticketed at a higher rate than white drivers, and Black drivers were also more likely to be given multiple tickets per stop. Our ability to report accurately on ticket rates is limited by data quality concerns as some agencies only report a single outcome per stop even when more than one outcome occurred, such as multiple tickets.

- White drivers were more likely to be stopped for moving violations than Black drivers. Black drivers were more likely to experience a stop for vehicle equipment violations. We are concerned that this type of stop may be more investigatory and pretextual than moving violations. Stops that are investigatory/pretextual, based on suspicion of illegal activity rather than observable behavior or evidence, are more susceptible to officer racial bias than stops based on other reasons, such as a moving violation or suspicion of Driving While Impaired (DWI). Several experts have recommended banning this type of stop, which could help to reduce not only racial stop rate disparities but also search disparities. (A November 2019 ruling by the Oregon Supreme Court has banned this increasingly controversial policing practice).

- The arrest rate of Black drivers is roughly 70% greater than that of white drivers. The Hispanic-white arrest rate disparity is even larger, with the arrest rate of Hispanic drivers 90% greater than the white arrest rate. Some agency-level disparities were much wider. In Brattleboro, Black drivers' arrest rate is 400% greater than the white rate; in Colchester, 185% times greater.

- Black drivers are about 3.5 times more likely to be searched subsequent to a stop than white drivers and Hispanic drivers are searched at a rate that is 3.9 times greater than that of white drivers. Asian drivers are less likely to be searched than white drivers. Again, some agencies exhibited much wider disparities than the state average. In Brattleboro, Black drivers are almost 9 times more likely to be searched than white drivers; in Shelburne, 4.4 times greater; in South Burlington; 3.9 times greater; in Vergennes, 3.8 times greater; in Burlington, 3.6 times greater; and in Rutland, 3.45 times greater.

- Black, Hispanic, and Asian drivers were less likely to be found with contraband than white drivers. The lower hit rate (that is, the percentage of searches that yield contraband) of drivers of color is widely regarded as providing evidence the police rely on a lower bar of evidence to search drivers of color than white drivers, suggesting possible racial bias in the decision to search. In a second test (a logit analysis) for racial bias in searches, we find that the race of the driver continues to be strongly correlated with the officer's decision to search a vehicle, even after controlling for other factors that may influence the officer's decision to search a vehicle.

- We find that searches based on reasonable suspicion (a lower threshold of evidence than probable cause) have lower hit rates for all racial groups. And, the gap between the (higher) white hit rates and (lower) hit rates for people of color increases. Just as with investigatory/pretextual stops, searches based on reasonable suspicion are more prone to racial bias.

With regard to trends over time:

- From 2015 to 2019, the number of traffic stops has increased for all racial groups. Sheriff's Departments registered an 86.4% increase in traffic stops over this time period, compared to a statewide average for all agencies of 39.7%.
- Racial disparities in the increase in number of traffic stops are notable. While stops of white drivers increased by 44.6% over this time period, Black stops increased 72.5%; Asian stops, 66.7%; and Hispanic stops, 120.3%.
- The share of stops that are investigatory/pretextual, including vehicle equipment stops, increased for all racial groups, but increases were greatest for Black drivers—so much so that by 2019, about one third of all stops of Black drivers were included in this category, up from 23% in 2016. For Hispanics, the increases in the share of such stops was even greater, rising from 18.0% in 2015 to 27.5% in 2019.
- Racial disparities in arrest rates have also widened since 2014. The widening gap is due to a decline in the white arrest rate from 2018 to 2019 rather than an increase in the Black arrest rate.
- Search rates declined for all racial groups after cannabis legalization but by 2019, the Black search rate continued to be 3 times greater than the white rate. Legalization of cannabis, in other words, did not have a substantial impact on the Black-white search rate disparity. The Hispanic search rate disparity widened from 2018 to 2019 with Hispanic drivers 2.6 times more likely to be searched than white drivers by 2019.
- Hit rates have decreased for searches that result in any outcome (warning, ticket, or arrest) but the arrest-worthy hit rate rose slightly from 20.3% to 24.9% from 2018 to 2019. As search rates have fallen, searches appear to be somewhat more productive with regard to those that lead to an arrest but are somewhat less productive overall. Increasing hit rates suggests greater efficiency in policing decisions regarding searches, and clearly, less negative impact on drivers for whom searches are often traumatic experiences.

Regarding data quality, our main findings are:

- Data quality has improved for some but not all agencies over time. There continues to be a lack of compliance with the legislation requiring race data collection during traffic stops. Missing data on all of the outcomes of a stop, when stops have more than one outcome, date and time of stop, and stops IDs also hinders analysis.
- Particularly worrisome is the large number of stops missing race of driver, the main concern of traffic stop data collection. One way to put into perspective the quantity of missing data is to compare the share of stops missing race of driver to the percentage of stops that are of BIPOC drivers. Given the low percentages of people of color in Vermont, even a small amount of missing race data can distort results. For more than a dozen agencies, the percentage of stops missing race of driver is at least double the percentage of stops that are reported to be of BIPOC drivers. At a minimum, this leads to low quality data and the accuracy of results from those agencies. It also violates the spirit of the legislation requiring race data collection.

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- The legislation has not been sufficiently precise or comprehensive in delineating the data to be collected. Police chiefs have interpreted the meaning of various components of the legislation differently, and thus do not follow a uniform method of reporting data. Some categories of data that would be useful—and are already collected—were not stipulated in the legislation. Law enforcement agencies have as a result declined to share those data. These findings suggest the need to revise the legislation on traffic stop race data collection in order to insure complete data that is uniformly submitted so that it can be analyzed without excessive difficulty.

Trends in Racial Disparities in Vermont Traffic Stops 2014-19

I.   Introduction

In 2006, the op-ed of a prominent African-American Vermonter appeared in the *Burlington Free Press.* The author, now State Representative Hal Colston*,* described a racial profiling incident in which he was "driving while Black."[1] In response, the Uncommon Alliance was formed, a group that included members of the community and area police chiefs. The goal was to create the space for an open discussion about policing and race. This effort eventually led to the first volunteer effort to collect traffic stop data in order to assess racial disparities in policing. Subsequently, in 2013, the Vermont legislature enacted a bill requiring all law enforcement agencies to: 1) adopt a fair and impartial policing policy, and 2) collect race data on traffic stops beginning in September 2014 and to make those data publicly available.[2] Two of the authors of this study conducted the first statewide analysis of racial disparities in traffic policing using that data (Seguino and Brooks 2017).[3] That report covered 29 law enforcement agencies with data for 2015 for most agencies for which data was available.

This report analyzes data from 79 Vermont law enforcement agencies, covering the period September 2014 through December 2019.[4] In the 2017 study, due to small sample sizes for a number of agencies, we were only able to make statistical inferences on racial disparities for the state as a whole and for the larger cities and towns. Several additional years of data and thus larger sample sizes make it possible to provide statistical analysis for a larger number of agencies in this study. It is also possible for us to evaluate trends over time.

Our study aims to identify the extent of racial disparities in traffic stops and outcomes of stops in Vermont law enforcement agencies. Our focus is primarily on actions that require officer discretion on whom to stop, arrest, and search. For this reason, we exclude externally generated stops in much of the analysis that follows.[5] Officer behavior is also influenced by agency leadership and culture, the extent of implicit bias, and trainings related to race, as well as policies that shape officer decisions.[6] Not all disparities, where they are found, then should be solely attributed to officer discretion. We also examine trends in racial disparities since 2014, and evaluate the extent to which cannabis legalization in July of 2018 affects disparities.

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[1] The article was published on April 7, 2007 under the title "Look at Vermont Through My Eyes."

[2] The bill is 20 V.S.A. § 2366.

[3] This research was published. See Seguino and Brooks (2020), "Driving While Black and Brown in Vermont: Can Race Data Analysis Contribute to Reform?" *Review of Black Political Economy.* https://journals.sagepub.com/doi/10.1177/0034644620969903.

[4] For detailed analyses of the larger law enforcement agencies, see: https://www.uvm.edu/cas/economics/profiles/stephanie-seguino

[5] Externally generated stops are those that rely on external information to initiate a stop. An officer may be directed to stop a vehicle, for instance, in response to a be-on-the-lookout (BOLO) alert. In this case, the officer did not initiate the stop.

[6] For example, officers may be geographically deployed by their supervisors in a way that leads to differential contact with the police for some neighborhoods. Also, drivers found to be driving with a suspended license are automatically given a citation, per policy. Thus, not all officer decisions are the result of discretion. To some extent, the results reflect the role of leadership, training, agency culture, and policies.

Why are traffic stop data useful for understanding racial disparities in policing? Traffic stops are the most frequent interaction citizens have with law enforcement agents. Citizens' experience of those interactions shape their perceptions of the fairness of policing and trust in law enforcement. And, because of the large number of traffic stops, the quantity of data allows us to rigorously assess the magnitude of racial disparities in policing with a higher degree of statistical confidence. To the extent we observe disparities in traffic stops, we may be able to identify racial disparities and bias that are not so easy to discern with events that occur less frequently or for which bias is difficult to measure empirically.[7] We can infer from racial disparities in traffic stops that other aspects of an agency's policing may be influenced by racial bias and thus merit deeper scrutiny to identify and remove those practices that lead to racial disparities.

The data available for analysis is limited.[8] Although agencies collect a large amount of data on each traffic stop, Vermont law only requires that the following traffic stop data be collected and made available to the public: race, age, and gender of driver; reason for stop; type of search, if any; evidence found during the search, if any; and the outcome of stop. In Vermont, driver's licenses do not include race/ethnicity of the driver. The race of driver indicated in officer reports on traffic stops is based on officer perception. In analyzing each agency's data, we identify racial shares of stops as compared to racial shares of the driving population, and racial disparities, if any, in reasons for a stop, arrest rates, search rates, and contraband "hit" rates.

In the next section, we provide an overview of statewide data, identify methodological issues of relevance to our analysis, and report on the quality of the traffic stop data collected. In Section III, we report descriptive data on key indicators and discuss results of the hit rate test. In Section IV, we assess trends over time in racial disparities. We examine the data to identify whether or not racial disparities changed in response to the legalization of cannabis in July 2018. Throughout, we compare and contrast results on stop, arrest, search, and hit rates by comparing results for individual agencies (where there is sufficient data), and also compare data from municipal law enforcement agencies to sheriffs' departments, and the Vermont State Police. This helps us understand: 1) the differences in the ways in which law enforcement agencies engage in traffic policing, and 2) how agencies compare in terms of the degree of racial disparities.

In Section V, we examine the role of race in the officer's decision to search a vehicle and in the probability of contraband being found. Specifically, we conduct a logit analysis to estimate the probability of a search and of finding contraband, based on a variety of factors (such as age, gender, and reason for the stop) in addition to the race of the driver. This

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[7] As an example, there are wide racial disparities in use of force and arrest rates, but these events occur much less frequently than traffic stops.

[8] Additional data would have been helpful to include in our analysis, but this would require a change to the legislation that has not yet been forthcoming. For example, the type of contraband found, the state the vehicle is registered in, the duration of the stop, officer-level data, and stop IDs would improve the ability to assess the degree, if any, of racial disparities in traffic policing. In addition, data is incomplete because some agencies do not report all outcomes resulting from the traffic stop.

analysis controls for the context of the stop, thereby better isolating the role of the driver's race in the officer's decision to search and in finding contraband. Section VI concludes. In the appendix, we provide summaries of each agency's race and traffic stop data. It is important to look at individual agencies because of differences in traffic policing practices, department leadership, and culture which can impact the extent of racial disparities.

We caution readers that for some agencies, even with five years of data, sample sizes are too small to make statistical inferences. A general rule of thumb is that an event must occur at least 10 times in order to meet that statistical standard for sample size. This means that in the case of, say, 7 searches of Hispanic drivers over a five-year period, we cannot make statistical inferences about whether the search rate for Hispanic drivers is statistically different than the white search rate. The reader will find there are many towns with insufficient data to make inferences on less frequent events such as arrests and searches. For most agencies, however, we are able to make inferences on whether there are racial differences in stops. Agencies for which there are too few stops (less than 10) of one or more racial groups are shown in Table 1. We include the agencies in Table 1 in our analysis of statewide traffic stops but they are omitted from agency-level analyses, except where noted.[9,10]

It should be noted that not all racial disparities are due to racially biased policing (or racial profiling). Racial profiling is defined as the use by law enforcement officials of race or ethnicity as a basis of criminal suspicion. The U.S. Department of Justice, in a 2003 memorandum that specifically banned racial profiling in federal law enforcement, stated, "In making routine or spontaneous law enforcement decisions, such as ordinary traffic stops, federal law enforcement officers may not use race or ethnicity to any degree, except that officers may rely on race and ethnicity if a specific suspect description exists" (U.S. Department of Justice 2003).

There may, however, be legitimate reasons for racial disparities in traffic policing. For example, age of driver is inversely related to risky driving behavior (Ivers *et al* 2009). If the driving population of some racial groups is comprised of a larger share of younger drivers, racial disparities may be expected. Race may also correlate with traffic stop disparities for reasons outside the control of law enforcement. For example, U.S. minorities have higher poverty rates than white Americans. This may result in a larger share of minorities driving with a suspended license due to the accumulation of unpaid parking or traffic citations. Racial disparities in this case are not necessarily due to bias of police officers but rather are a function of systemic racism in which people of color face worse economic outcomes than those who identify as white.

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[9] Similarly, stops of drivers perceived to be Native American are much lower than for all other racial groups, with most agencies recording fewer than 10 stops of this group. We therefore only refer to outcomes for Native Americans at the statewide level.

[10] Full details on the methodology used in this study are available at: https://www.uvm.edu/sites/default/files/Department-of-Economics/faculty/Data_Quality_and_Methodology_for_Traffic_Stop_Data_Analysis.pdf

Table 1. Agencies with Less Than 10 Stops of Racial Groups

Agency	Racial groups with less than 10 stops
Bethel	All BIPOC groups
Bradford	All BIPOC groups
Brighton	All BIPOC groups
Bristol	Asians
Fairlee	All BIPOC groups
Hardwick	Hispanics
Ludlow	All BIPOC groups
Lyndon	Asians and Hispanics
Morristown	Asians
Norwich	Blacks and Hispanics
Pawlet	All BIPOC groups
Poultney	All BIPOC groups
Randolph	Asians
Royalton	Asians and Hispanics
Swanton	Asians
Thetford	Hispanics
VT Fish & Wildlife	All BIPOC groups
Waterbury	All BIPOC groups
Wells	All BIPOC groups
Caledonia County	Asians and Hispanics
Essex County Sheriff	All BIPOC groups

In the absence of explicit evidence of criminal behavior, racial profiling or racial bias in policing may stem from implicit bias – the reliance on unconsciously held racial stereotypes such as the association of skin tone with criminality, especially as regards young males of color. Many people hold such biases. Indeed, no one who has grown up in U.S. culture is immune from exposure to these widespread negative stereotypes. For the purposes of this study, we conduct two analyses to help distinguish between racial disparities and racial bias in traffic policing. First, we use the "hit" rate test, examining racial differences in the percentage of searches that yield contraband (Section III). Second, we conduct a multivariate logit analysis, a statistical technique that allows us to control for other factors that contribute to the decision to a search of a vehicle. This enables us to isolate and estimate the net effect of the race of the driver on officer decisions. If race continues to be statistically significant after controlling for these other factors, there may be more reason for concern that racial bias, explicit or implicit, influences policing decisions in Vermont. We conduct a similar analysis of the probability of contraband being found in a search (Section V).

A note on language used in this report is warranted. Race is not a biological category but rather, is a socially constructed concept. Moreover, language about race is fluid, and reflects political changes over time. For example, Hispanic has become less politically acceptable and

is now widely replaced by *Latinx* (a gender neutral form of Latina/o). We retain the use of Hispanic in this report only to avoid confusion with the terminology (Hispanic) used in police traffic stop data reports. Second, in just the last year, the term BIPOC (Black, Indigenous, and other People of Color) has come to replace people of color or minorities. We determined the term is still too new to be widely familiar and thus mainly retain older terminology for these conceptual categories, although we do occasionally use BIPOC to signal the change in terminology underway. And finally, the capitalization of Black and white groups is contested, with some arguing for Black to be capitalized but not white and more recently, some argue all racial groups should be capitalized. We capitalize Black but not white, as proposed by the *Columbia Journal Review*.[11] We made these decisions, not because we believe our approach is the "right" one, but rather to note how fluid and rapidly changing race language can be, and to underscore that we are aware of these linguistic complexities in the U.S.

II.   Data Overview, Methodology, and Data Quality

The data in Table 2 provide an overview of the traffic stop data generated by all Vermont law enforcement agencies from 2014-19. As can be seen, a total of 811,915 stops were made. Our focus is primarily policing decisions based on officer discretion although it is impossible to entirely disentangle the role of agency culture and leadership from individual officer decisions. In order to restrict our attention to discretionary decisions and actions, in the following analysis we exclude stops that are externally generated. During the time period under consideration, 13,668 or 1.7% of all stops were externally generated. These exclusions reduce our sample size to 798,247 traffic stops. The number of traffic stops has generally risen over time, although 2017 was the year with the highest number of stops (2014 traffic stops are much lower than in other years because data began to be collected only in September of that year).

Approximately one third of discretionary stops (not externally generated, in other words) resulted in the issuance of a citation. The percentage of stops that resulted in an arrest was 1.2 %, while 0.9% of stopped vehicles were searched. Contraband was found in 0.6% of all stops. The overall contraband hit rate (the number of contraband finds divided by the number of searches) is 74.5%.

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[11] To see the reasoning for this rule, see https://www.cjr.org/analysis/capital-b-black-styleguide.php.

Table 2. Overview of the Data, 2014-19

	Observations	Rates
Total Stops		
incl. EGS	811,915	
excl. EGS	798,247	
2014	34,182	
2015	124,357	
2016	120,623	
2017	177,845	
2018	167,455	
2019	173,785	
Citations	297,980	37.3%
Arrests	9,153	1.2%
Searches	6,887	0.9%
Contraband	5,129	0.6%
Contraband as % of searches	5,129	74.5%

Note: EGS is externally generated stops. All counts of outcomes, rates, and annual trend data exclude EGS. The number of 2014 traffic stops is lower than in other years because law enforcement agencies began to record data in September of 2014. We exclude arrests based on a warrant. Rates are outcomes as a percentage of stops, except where noted. The number of citations is likely to be inaccurate. This is because some agencies report only the most serious outcome of a stop, but not all outcomes. If a person is arrested, for example, and is also issued a ticket and a warning, some agencies only report the arrest.

A challenge with the analysis of traffic stop data is that there may be more than one row of data for the same stop. This typically occurs if there is more than one outcome to a stop. For example, the officer may issue the driver a citation as well as a warning. This scenario would result in 2 lines of data—one for each outcome—and would lead to over-counting of stops, absent efforts to identify stops with multiple outcomes. We therefore developed a method for detecting and reconciling multiple row stops by matching age, race, gender, and date/time of stop. We retained all information in the multiple rows with regards to tabulating the outcomes of stops while counting each stop only once. That said, we recently learned that some data coming from agencies that use the Valcour data system report only the most serious outcome of the stop. As a result, the number of citations reported in Table 2 is likely to be an underestimate.

Some Vermont law enforcement agencies have failed to record the race of the driver in a large number of stops.[12] This is concerning because the purpose of the legislation requiring agencies to collect data on traffic stops is to identify and track racial disparities in traffic policing. Moreover, because non-white drivers are a small share of the population in most Vermont communities, even a small number of stops missing race of the driver can undermine the quality of the data and of the ability to detect racial disparities. Figure 1 shows the number of stops missing race of driver as a percentage of the number of recorded BIPOC drivers stopped. We rank agencies from high (top) to low (bottom) percentages of

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[12] A summary of the raw data for all racial/ethnic groups is provided in Appendix Table A.1.

missing race data relative to their recorded stops of BIPOC drivers for 2014-19 (*Panel A*) and for 2019 only (*Panel B*). Five years into data collection, we would expect the problem of missing data to diminish substantially. As can be observed in *Panel B*, some agencies have reduced missing race data while others continue to generate poor quality data, failing to comply with the legislation that requires race data collection. At the high end of missing data in 2019 is Bristol, where the number of stops in which the officer failed to record the race of the driver is 13 times greater than the total recorded number of stops of BIPOC drivers and about 16% of their total stops.

Another category with significant amounts of missing data is the reason for stop. In several agencies, the amount of missing data on reason for stop is indeed very large. In Burlington, reason for stop is missing in 12% of all stops in 2019; in Lyndon, 38%; in Northfield, 8%; Vermont Fish and Wildlife, 10%; Woodstock, 17%; Orange County, 11%; Washington County, 26%; and Windsor County, 95%.

In the event there is missing race data (sometimes marked as "unknown"), those stops are not included in our analysis, although we do include stops that have other categories of data missing. A worrisome finding is that for several agencies (e.g., Bristol, Royalton, Swanton, Caledonia County, and Bennington), officers typically took the time and were able to record all other information about the stop but only failed to record race, a field that is legally required. That suggests that missing data on race of driver is not random.

Figure 1. Unknown /Missing Race as % of Total BIPOC Stops by Agency

Panel A. Agencies with Stops Missing Driver Race as % of Total BIPOC Stops, 2014-19
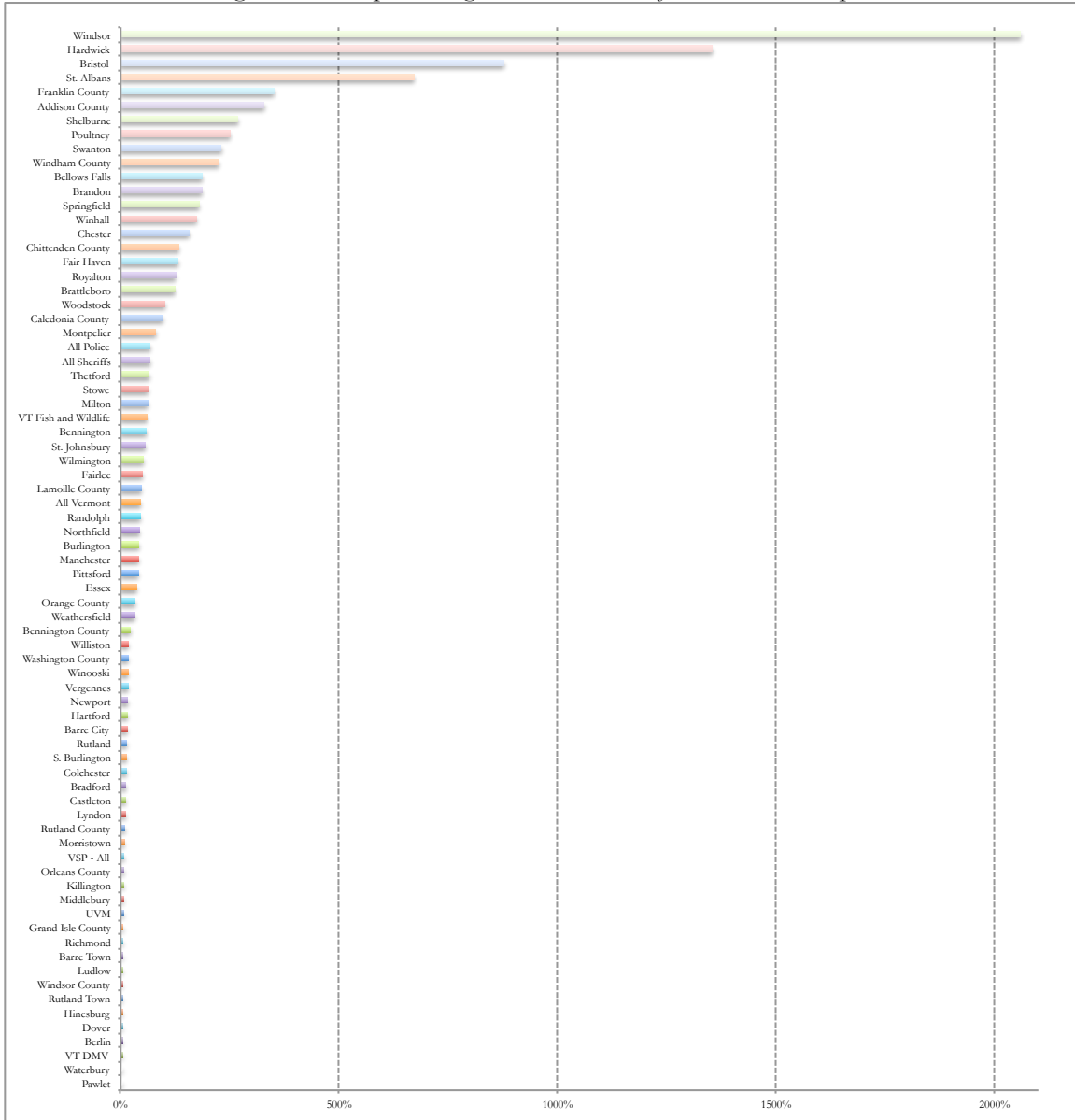
Panel B. Agencies with Stops Missing Driver Race in Excess of 25% of Total BIPOC Stops, 2019
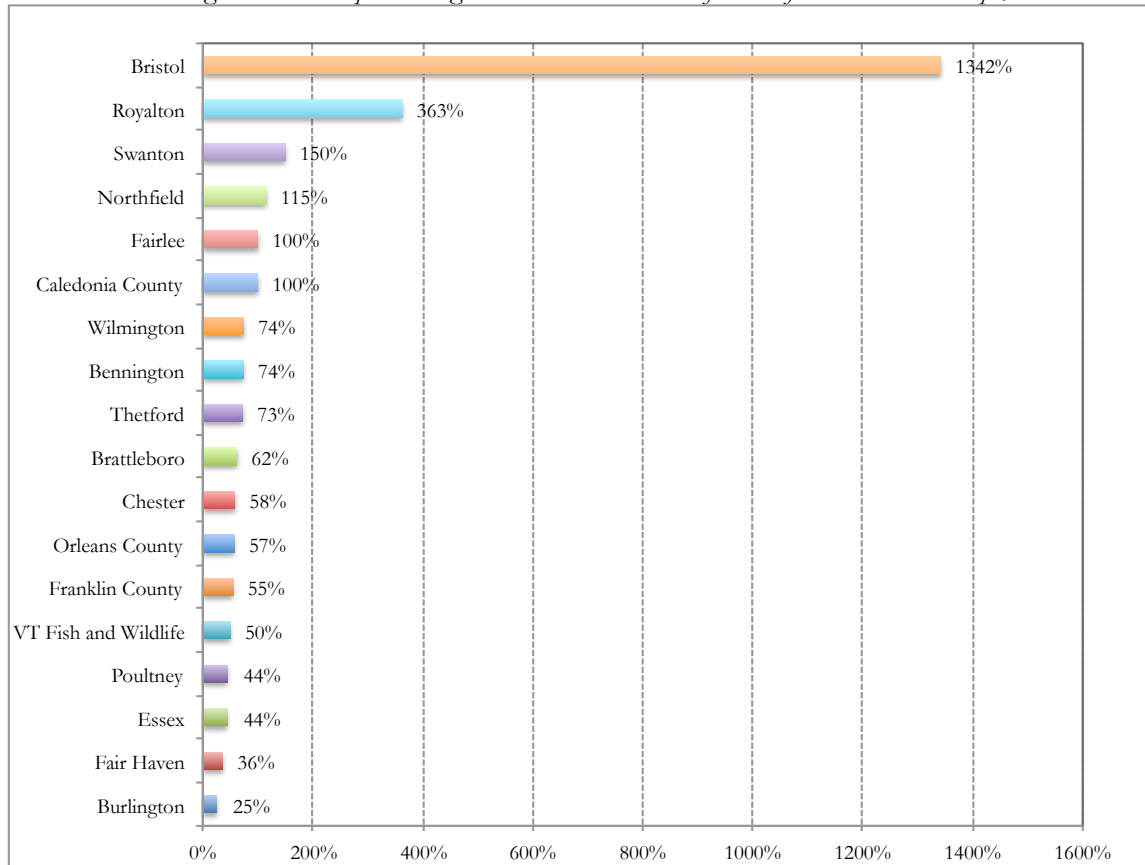
Note: Only agencies in which missing driver race is greater than 25% of BIPOC stops are shown here.

III.   Descriptive Data Analysis of Traffic Stops

A. Racial Shares of Traffic Stops and Stop Rates

Some people assume that racial disparities in stops are simply due to differences in driving behavior. This is not necessarily the case. Officers have significant discretion on whom to stop. As a result, the data only measure who is stopped as not all driving violations result in a stop. A variety of factors influence the officer's decision to stop a vehicle, including conscious or unconscious racial bias. Further, given residential segregation in the U.S., supervisory decisions that determine the geographic deployment of officers may also contribute to racial disparities in stops. Where the deployment leads to over-surveillance of Black and brown communities as compared to white neighborhoods, racial disparities in traffic stops may emerge, due to institutional racism rather than officer discretion.[13]

A straightforward method for identifying racial disparities in traffic stops is to compare the racial shares of traffic stops with estimates of the racial share of the driving population. We use that method here. In theory, we would expect that each racial group's share of stops is

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[13] Institutional racism occurs when rules, policies, and practices have a differential impact on communities of color, even in the absence of an *intent* to discriminate.

roughly equal to their share of the driving population, absent any known systematic differences in driving behavior by race/ethnicity. One of the challenges is how to measure racial shares of the driving population, known as the "benchmarking problem." In other words, against what benchmark do we measure the racial shares of the drivers stopped?

Actual measurements of racial shares of Vermont's driving population would be costly to obtain, requiring observers to record the race of drivers at various times of day and locations. This labor-intensive method would likely yield inaccurate results because not all locations, times of day, or times of year could be captured without enormous expense. Further, the racial accuracy of traffic observations is likely to be limited in poor lighting conditions.

Two alternative benchmarks, therefore, are typically used to estimate racial disparities in traffic stops. One relies on the U.S. Census Bureau's estimate of racial shares of the population 15 years and older, using the American Community Survey (ACS). This benchmark is not without its faults. Not everyone over age 15 drives a vehicle and not everyone drives with the same degree of frequency. For example, on average, whites drive more than Blacks and Hispanics, a phenomenon related to income and wealth inequality by race (Tal and Handy 2005).[14] Thus, there may be reason to question whether the racial composition of the population in an area is the same as the racial composition of drivers on the road. That said, this benchmark could be enlightening, especially when coupled with alternative benchmarks.

The second benchmark we use is the racial composition of drivers involved in accidents in Vermont. Officers, sheriffs, and troopers collect data on the race of drivers in accidents, and these data are reported to the Department of Motor Vehicles (DMV). This approach has emerged as an alternative method to determine the appropriate benchmark against which to compare racial shares of stops especially in locations with large populations where the law of large numbers suggests that the distribution of accident shares by race can approximate the distribution of driving shares. A possible weakness of this measure is that it may overestimate Black and Hispanic shares of drivers due to racial dynamics in the U.S. Take, for example, the case of two white drivers involved in a minor traffic accident. These drivers may be more likely to exchange insurance information and go on their way without calling the police than if one of the drivers is white and the other is a person of color. In the latter case, white drivers may be more likely to involve the police due to potential implicit bias. This benchmark will be most useful in the statewide analysis where the number of accidents is larger.

Data on racial shares of stopped drivers and the driving population are shown in Table 3. The share of stops relative to share of population based on U.S. Census data is calculated only for Blacks, Asians, Native Americans, and whites. This is because the U.S. Census Bureau categorizes Hispanic as an ethnicity rather than race—and thus Hispanics may be white or non-white. In contrast, police officers collecting data on traffic stops in Vermont

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[14] Baumgartner *et al* (2018) report, for example, that 83% of whites own a car compared to 53% of Blacks, and 49% of Hispanics. Whites also drive approximately 20% more miles per year than Blacks and Hispanics. In Vermont, we find similar racial differences with 19.3% of s using public transportation or walking to work compared to 6.9% of whites, according to ACS 2013-17 estimates.

do not distinguish between white and non-white Hispanics, and simply categorize Hispanics as a separate group. The DMV accident data, however, use the same racial/ethnic categories as Vermont law enforcement agencies and so we can calculate an estimate of the Hispanic share of drivers using that metric.

White drivers were 94.2% of all stopped drivers from 2014 through 2019, with Blacks 2.9%, Asians 1.7%, Hispanics 1.1%, and Native Americans 0.1%. Inclusion of externally generated stops does not markedly change these percentages. Black and Hispanic shares of stopped drivers are higher than their shares of the driving population, whether using the ACS or DMV accident data. For example, the estimates of Black drivers' share of the driving population range from 1.6% to 2.8%, which is lower than their share of stopped drivers.

Table 3. Statewide Racial Shares of Stops, Reasons for Stops, and Post-Stop Outcomes

	White	Black	Asian	Hispanic	Native American	Unknown	Total
Racial Shares of Stops							
Including externally generated stops	94.2%	2.9%	1.7%	1.1%	0.1%	2.7%	
Excluding externally generated stops	94.2%	2.9%	1.8%	1.1%	0.1%	2.7%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%	NA	1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%	NA	1.3%		
Driver Percentage (DMV Accident data)	93.4%	2.8%	2.6%	0.9%	0.4%		
Disparity Index (using local ACS)	1.00	1.81	0.84	NA	0.06		
Disparity Index (using county ACS)	1.00	1.81	0.84	NA	0.06		
Disparity Index (using DMV Accident data)	1.01	1.03	0.67	1.26	0.20		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	256	459	220	NA	15		255
Stop Reason as % of All Stops							
Safety Stops	72.2%	70.2%	79.6%	74.8%	78.2%	62.0%	72.3%
Moving Violation	72.0%	69.9%	79.4%	74.5%	77.9%	62.0%	72.1%
Suspicion of DWI	0.2%	0.3%	0.2%	0.3%	0.3%	0.1%	0.2%
Investigatory/Pretextual Stops	21.9%	23.6%	14.4%	19.4%	16.8%	12.0%	21.8%
Investigatory Stops	1.3%	1.3%	0.6%	0.8%	1.0%	1.1%	1.2%
Vehicle Equipment	20.6%	22.3%	13.8%	18.5%	15.8%	10.8%	20.5%
Externally Generated Stops	1.7%	2.3%	1.3%	1.9%	2.3%	1.5%	1.7%
Multiple Reasons	0.2%	0.2%	0.1%	0.2%	0.0%	0.1%	0.2%
Unknown Reason	4.0%	3.7%	4.7%	3.8%	2.8%	24.4%	4.0%
Outcome Rates as a % of All Stops							
Warning Rate	58.8%	58.1%	53.1%	49.2%	54.6%	47.6%	58.6%
Ticket Rate	37.3%	37.4%	42.0%	44.3%	41.7%	31.5%	37.5%
Arrest for Violation Rate	1.2%	2.0%	0.8%	1.6%	1.8%	0.3%	1.2%
Arrest for Warrant Rate	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.1%
No Action Rate	0.9%	1.8%	1.0%	2.6%	0.2%	0.3%	1.0%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	2.6%	0.4%	1.6%	0.7%	0.5%	0.8%
Search rate (incl. searches on warrant)	0.8%	2.8%	0.5%	1.7%	0.8%	0.5%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	75.2%	71.4%	61.5%	68.4%	60.0%	71.2%	74.5%
Hit rates (excl. warnings as outcomes)	62.2%	55.4%	49.2%	55.9%	60.0%	49.6%	61.4%
Hit rates (outcome = arrest)	17.0%	14.3%	18.5%	15.1%	40.0%	8.1%	16.8%

Note: ACS refers to the American Community Survey. NA is "not applicable." U.S. Census Bureau data record Hispanics as an ethnicity, not race. Hispanics may be white or non-white. In contrast, Vermont law enforcement agencies treat the category of Hispanics as a mutually exclusive racial category. We therefore use only on DMV accident data for estimates of the Hispanic share of the driving population. Outcome rates may not sum to 100% because more than one outcome per stop is possible. All data exclude externally generated stops except where noted.

The Disparity Index (DI) is used as a way to compare racial shares of stops to racial shares

of the driving population (Table 3 and Figure 2). The DI is simply the ratio of the racial share of stopped drivers divided by the racial share of the driving population. A DI that is greater than 1 indicates a group is over-stopped relative to what would be expected, given its share of the driving population. A ratio of less than 1 indicates a group is under-stopped. For Blacks during this time period, that ratio ranges from 1.03 (2.9%/2.8%) using the DMV data to 1.81 using ACS data. Put another way, Black drivers are stopped at a rate that is from 3% to 81% greater than their estimated share of the driving population. Hispanics, too, are over-stopped relative to their estimated share of the driving population, with a DI of 1.26, indicating they are stopped at a rate that is about 26% greater than their share of the driving population. In contrast, whether we use the ACS or DMV data, the DI for white drivers is 1.0, meaning white drivers are stopped at a rate equal to their share of the driving population. The Asian DI ranges from 0.67 to 0.84, signifying that these drivers are under-stopped relative to what would be expected, by between 16% to 33%. In the traffic stop data, the Native American DI is also well below what would be expected, given their share of the driving population. This result should be viewed with some caution, however. It may not be realistic to assume that a police officer can accurately identify Native Americans, with the result that some may be miscategorized as Hispanic or white. The Native American count in the traffic stop data, therefore, may simply mean that Native Americans are not easily identifiable.

Figure 2. Statewide Disparity Indices of Racial Shares, 2014-19
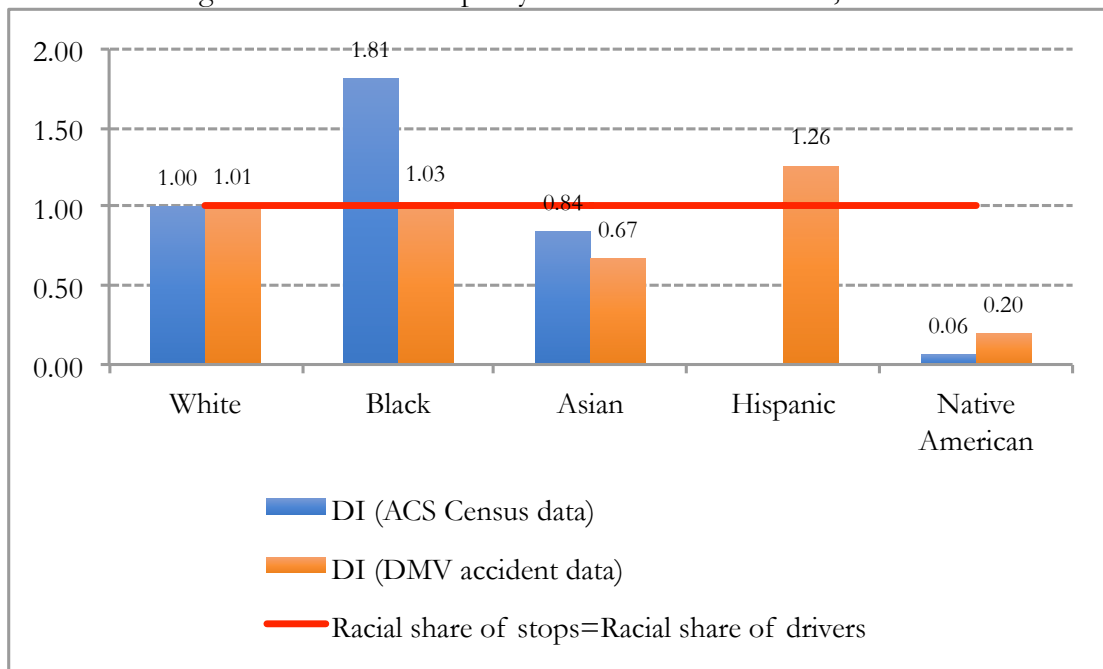
For comparison, at the national level, Pierson *et al* (2020), using data on almost 100 million traffic stops, find that Black drivers are roughly 50% more likely to be stopped than white drivers in stops conducted by municipal police departments. They also found that Hispanic drivers are less likely to be stopped than white drivers. The authors of that study use the local population as a benchmark, and thus their results are most comparable to our ACS stop disparity estimates. As can be seen, Black-white disparities in Vermont traffic stops

using ACS data are higher than the estimated differential at the national level.

Statewide racial shares of stops are an average across all agencies. Decisions on whom to stop, however, differ across law enforcement agencies. Figure 3 ranks agencies from high to low by their Disparity Indices for Black and Asian drivers using 2017 5-year averages of racial shares from the ACS.[15] We use the ACS data rather than DMV accident data as our benchmark due to small sample sizes in the DMV data. Specifically, for smaller towns, we use the ACS 2017 *county-level* racial shares because those estimates have the smallest standard errors compared to the ACS town-level data or the DMV accident data. For larger towns and cities, we rely on the town-level racial shares of ACS data.[16] And for statewide agencies, such as Vermont State Police, we use the state's racial shares of the population. In Figure 3, the value of 1 (indicated by the red vertical line) identifies the point at which the Black share of stops is equal to the Black share of the driving population. Agencies whose Black share of stops is at that line, in other words, are not over- or under-stopping Black drivers relative to their share of the driving population.

Using the red line as an indicator, it can be seen that most Vermont agencies over-stop Black drivers relative to their share of the driving population. As can be seen in *Panel A*, Figure 3, the Black DI ranges from a high of 7.27 (Pittsford) to a low of 0.28 (Windham County Sheriff Department). A DI of 7.27 indicates that stops of Black drivers are more than 7 times greater than expected, given their estimated share of the driving population. A rule of thumb in analyzing disparity indices is that a disparity that lies between 1.0 and 1.2 is acceptable, and may not reflect bias. Caledonia County Sheriff's Department DI is 1.20 (Figure 3, *Panel A)*. Agencies above Caledonia County have elevated shares of Black stops, indicative of over-stopping of Black drivers.

In contrast, Asian drivers tend to be under-stopped relative to their driving population share (*Panel B*). Stowe's Asian DI is 1.23, signifying that all of those above Stowe in Figure 3, *Panel B*, have elevated levels of disparity in stops compared to the driving population. Note that the statewide DI for Asian drivers is 0.84. This means that Asian drivers' share of stops is about 16% *lower* than their population share. Moreover, over-stopping of Asian drivers is not as severe as of Black drivers. While in Pittsford (the agency with the highest Black DI), Black drivers are over-stopped at 7 times their driving population share, Asian drivers in Winhall (the agency with the highest Asian DI) are over-stopped at about 2 and a half times their driving population share.

A final note on racial disparities in stops is necessary. The racial share of stops is sometimes contested as a metric to calculate racial disparities in traffic stops because of the limitations of the two available measures of the driving population (U.S. Census data and accident data). The U.S. Census ACS data may overestimate the BIPOC shares of the driving population, given that it measures residents and not drivers passing through—although that may be offset to some extent by the fact that non-whites drive less than whites. And the accident data may overestimate BIPOC shares of the driving population, given the possibility that not all accidents involve police reports. Also, small sample sizes for many towns imply that

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[15] For sample size reasons, we omit DIs for Hispanic and Native American drivers.
[16] Those towns and cities are: Bennington, Brattleboro, Burlington, Colchester, Rutland, South Burlington, and Williston.

estimates of the BIPOC shares of drivers may be imprecise. More critical to our analysis, then, is post-stop outcomes. Once drivers have been stopped, we know the precise number of drivers of each racial group on which to base calculations of the frequency of post-stop outcomes. Therefore, while racial disparities in stops are noteworthy and should be taken into consideration, it is advisable to rely more heavily on post-stop outcomes to assess racial disparities in policing. We turn to that topic in Section III.C. Before that, we evaluate racial disparities in the reason for making the traffic stop, as recorded by officers.

Figure 3. Disparity Index for Stop Shares of Black and Asian Drivers

Panel A. Black Disparity Index
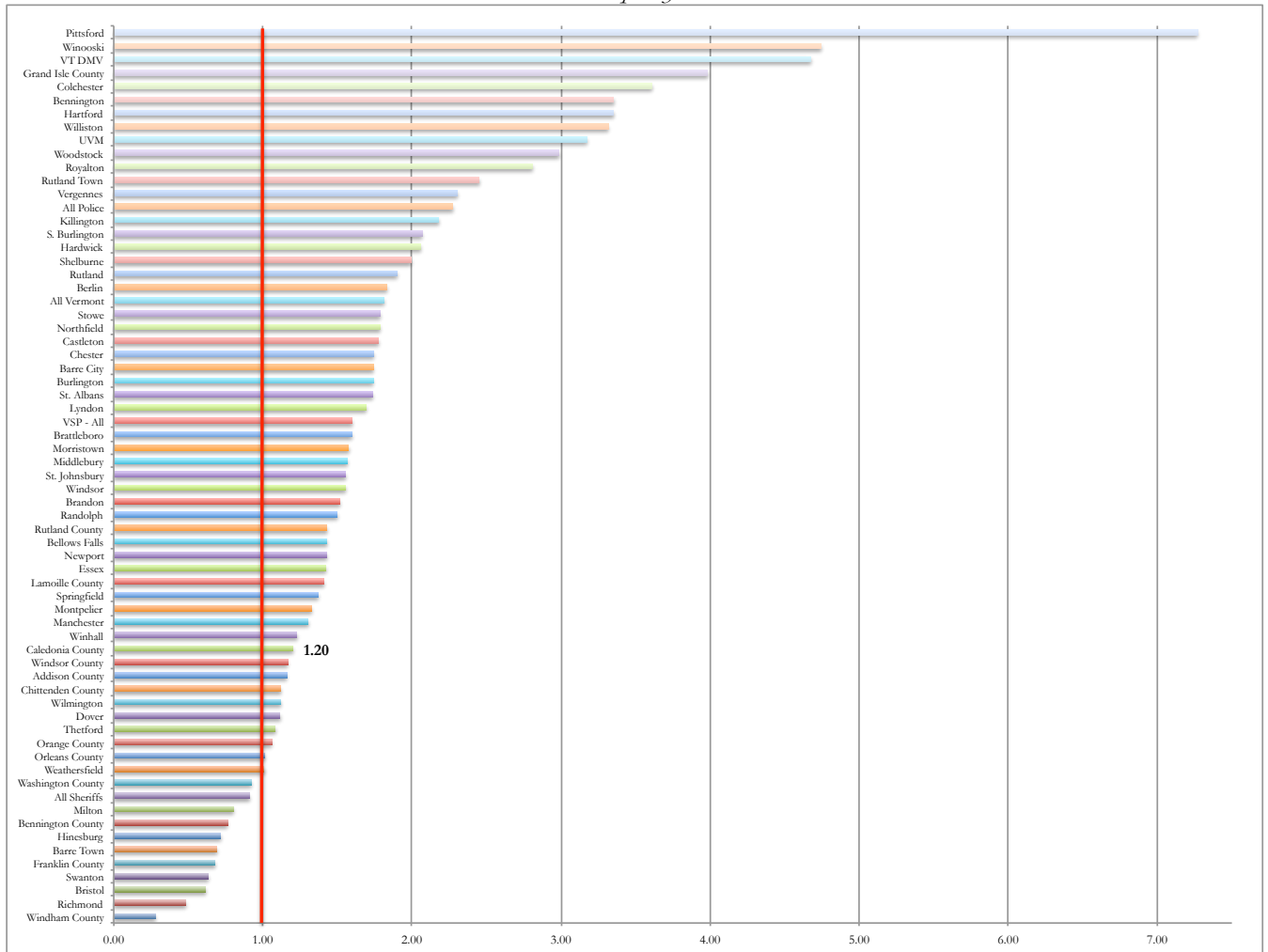
Panel B. Asian Disparity Index
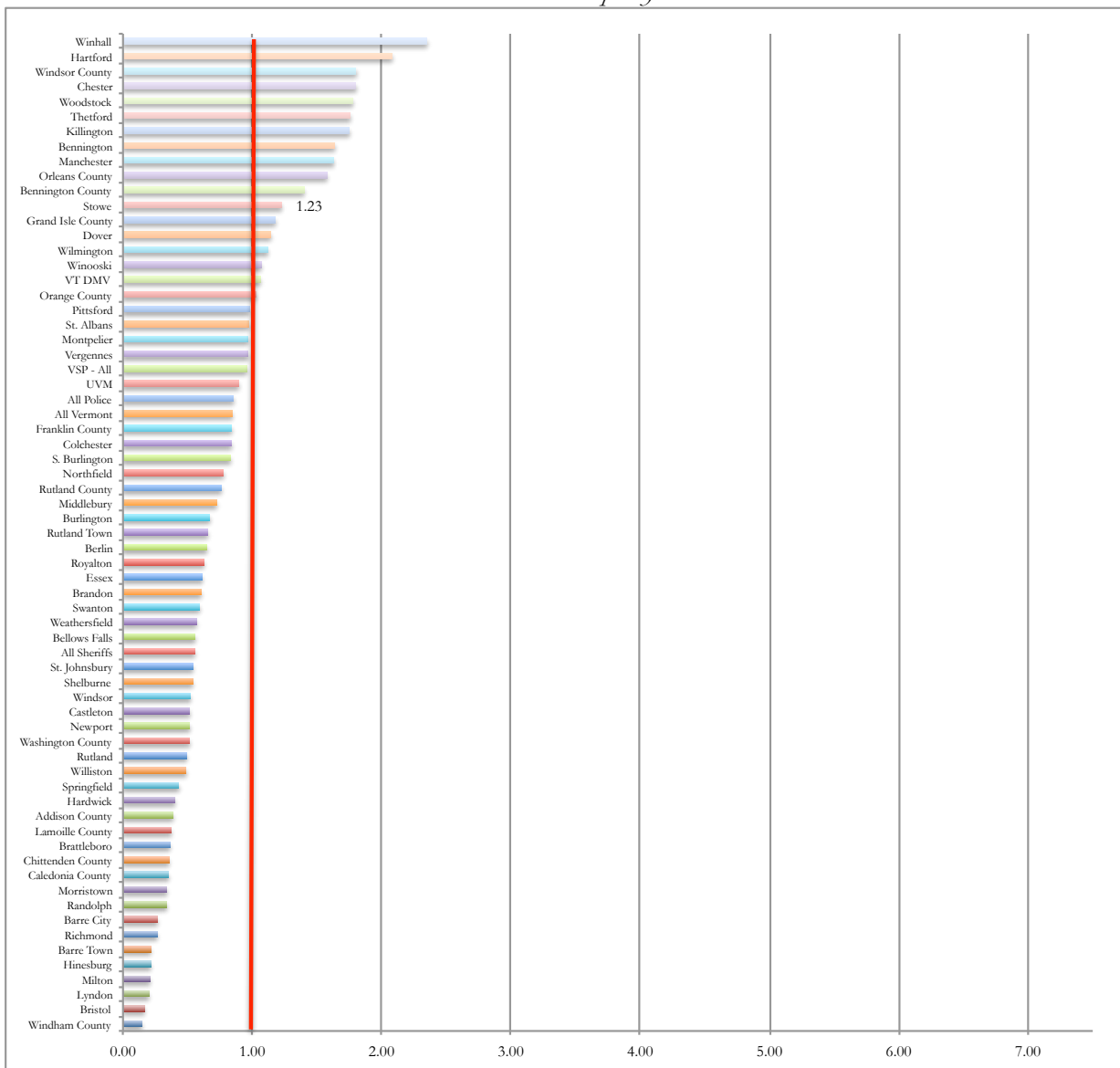
B. Stop Rates

B. Reasons for Stops

Officers record one of five possible reasons for a traffic stop: 1) moving violation (such as exceeding the speed limit), 2) suspicion of driving while impaired (DWI), 3) investigatory stop, 4) vehicle equipment (such as obscured license plate), and 5) externally generated stops. Investigatory stops are those in which officers stop a vehicle to investigate further whether a crime has been committed or not. The law requires that the officer have reasonable suspicion to conduct such as stop, based on specific and articulable facts. (As noted above, externally generated stops are not officer-initiated, but instead result from information from a person other than the officer). Table 3 shows the distribution of reasons for stops by race. The most common reason motorists are pulled over is a moving violation (such as speeding). The second most common reason is vehicle equipment (such as a faulty taillight). Other reasons for stops are far less common.

Following Baumgartner *et al* (2018), we categorize stops into two groups: *safety stops* and *investigatory/pretextual stops*. Safety stops have a clear purpose of promoting public safety. These include stops due to moving violation or suspicion of DWI. White drivers are more likely to be stopped for moving violations. Pretextual stops (whose reasons are investigatory) are legal under U.S. law, involve an officer stopping a driver for a minor traffic or vehicle equipment violation to allow the officer to then investigate a separate and unrelated suspected criminal offense.[17] Examples of such stops are the failure to signal 100 feet before a stop sign, tinted windows, air freshener on review mirror, driving too slowly or with a broken taillight.[18] While we don't have the ability to distinguish which stops were due to minor moving violations, we do have the ability to distinguish vehicle equipment stops and we categorize these as potentially pretextual/investigatory. Pretextual stops are also more likely to be cases where racial disparities emerge. This is because investigatory/pretextual stops, often based on hunches or suspicion, may be influenced by racial stereotypes or generalizations about people's behavior, based on their group identity. Negative stereotypes about Blacks and Hispanics in the U.S. are extensive, as evidenced by the results of the Implicit Association Test (Banaji and Greenwald 2013). That negative racial stereotypes in U.S. culture are widespread is also documented by social psychologist Jennifer Eberhardt (2019). Her research using social psychology experiments is designed to detect anti-Black bias, which is frequently unconscious or implicit.

If negative stereotypes are operative in Vermont (and there is no reason to think they would not be), we would expect Black and Hispanic drivers to have higher shares of investigatory/pretextual stops as compared to white and Asian drivers. The data in Table 3 indicate that Black drivers are more likely than all other racial groups to be stopped for investigatory/pretextual reasons (which include vehicle equipment stops). The gap between Black and Asian drivers is the widest (23.6% of all stops of Black drivers compared to just

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[17] There is growing consensus that pretextual stops should be banned. The Oregon Supreme Court ruled in November 2019 that police could no longer pull someone over for a broken taillight or failure to signal, then ask unrelated questions, such as asking for consent to search the car for illegal drugs or guns.
[18] To be clear, not all stops for which officers indicate the reason is vehicle equipment are pretextual. Stopping a driver at night whose vehicle's headlights are out is an example of a non-pretextual vehicle equipment stop. But this type of stop is more likely to be pretextual, given that officers have a great deal of discretion on whom to stop.

14.4% of stops of Asian drivers). Compared to white drivers, Black drivers are about 8% more likely to be stopped for investigatory/pretextual reasons. The statewide average, however, obscures the wide variation in use of investigatory/pretextual reasons for stops.

Figure 4 ranks agencies from highest (top) to lowest (bottom) for Black/white disparities in investigatory/pretextual stops. This disparity is simply measured as the share of Black stops for which the reason for the stop is investigatory/pretextual including vehicle equipment stops, divided by the white share of such stops. A ratio that is greater than one (that is, to the right of the vertical red line in Figure 4) indicates that Black drivers are more likely to be stopped for this reason than white drivers. Winooski's Black/white ratio equals 1.20. That means that agencies above Winooski have elevated shares of Black stops that are for investigatory/pretextual reasons relative to white drivers. Among those, four sheriff's departments have elevated ratios of Black to white shares of stops that are investigatory or pretextual, although a couple of those sheriff's departments do not have a large number of stops overall. With regard to the larger agencies, Colchester and Brattleboro are noteworthy. There is evidence that banning pretextual stops leads to a decline in racial disparities in stop rates (Rushin and Edwards 2020). This may be a step that Vermont agencies consider taking.

Figure 4. Black/White Shares of Stops That Are Investigatory/Pretextual
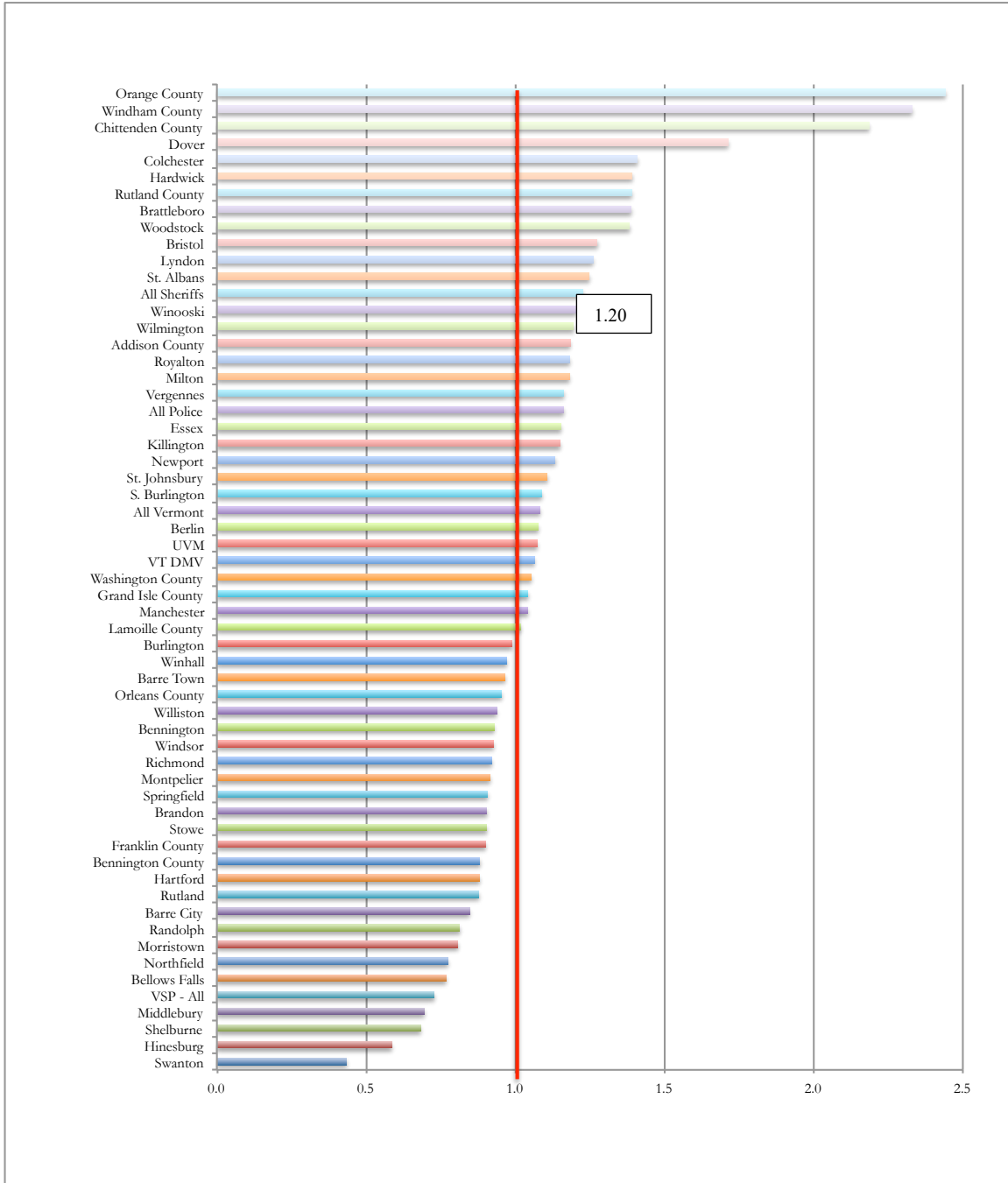
Note: Agencies with less than 10 stops of Black drivers are not included in this table.

C. Post-Stop Outcomes

Post-stop outcomes are of particular interest in analyses of racial disparities in traffic stops. That is because, regardless of a law enforcement agent's ability to discern the race of the driver before a stop, she or he has had an opportunity to form a perception of the driver's

race once the vehicle has been stopped. This section explores what happens after a stop. Specifically, we ask whether drivers of different racial groups experience systematically different outcomes, once stopped.

Possible outcomes of a stop are: no action taken, warning, citation, arrest, and search. Unlike in the case of stops where we only have estimates of the baseline driving population, in analyzing racial disparities in post-stop outcomes, we know with certainty the number of drivers who have been stopped by race, and therefore can assess racial differences in post-stop outcomes with greater precision than racial shares of stops. In order to make comparisons across racial groups, it is useful to consider outcomes experienced by BIPOC drivers as compared to those of white drivers. Table 4 reports those ratios, whereby the percentage of stopped Black, Asian, Hispanic, and Native American drivers experiencing each outcome is divided by the white percentage (for example, the Black search rate divided by white search rate). A ratio that is greater than one indicates the BIPOC group is more likely to experience a particular outcome than white drivers, and a ratio of less than one indicates the group is less likely to experience a particular outcome than a white driver.

Table 4. Comparison of Post-Stop Outcomes: BIPOC Rates/White Rates

	Black/white	Asian/white	Hispanic/white	Native American/white
Warning Rate	0.99	0.90	0.84	0.93
Ticket Rate	1.00	**1.12**	**1.05**	0.94
Arrest Rate	**1.70**	0.43	**1.90**	**1.14**
Search Rate	**3.41**	0.16	**3.90**	0.40

Note: Arrest rates are for violations, and thus exclude arrests on warrant. Search types reported are probable cause or reasonable suspicion; searches on warrant are excluded. Ratios greater than one, indicative of worse outcomes for BIPOC drivers relative to white drivers, are shown in bold type.

Non-white drivers are less likely to receive a warning than white drivers. (For example, the Asian/white ratio equals 0.90, meaning Asian drivers are 10% less likely to be issued a warning than white drivers). Asian and Hispanic drivers are more likely to be issued citations than white drivers. Caution should be used in interpreting ticket rates, however, since, as we noted, some agencies fail to report all outcomes of the stops. If Black drivers are more likely to receive multiple tickets at a traffic stop then the ticket ratio in Table 3 will understate the disparity. In cases of an arrest with a ticket or more than one ticket, the non-white/white ticket ratio is therefore likely an underestimate; that is, racial disparities may be wider than shown in Table 3.

We are more certain of the accuracy of the arrest and search rate data, however. Here we see that Black, Hispanic, and Native American drivers are more likely to be arrested during a traffic stop than white drivers by 70%, 90%, and 14% respectively. In contrast, Asian drivers are less likely to be arrested than white drivers. The starkest disparity is in search rates. Black drivers are 3 and a half times more likely to be searched than white drivers, and Hispanic drivers, almost 4 times more likely to be searched. Asian and Native American drivers are substantially less likely to be searched than white drivers (see also Figure 5). The differential in Asian compared to Black search rates is noteworthy. Asians and Blacks comprise the same share of Vermont's population, but search rates of Black drivers were 10 times greater than

the Asian driver search rate. Black drivers were searched 616 times while Asian drivers were only searched 65 times.

The results presented here with regard to higher search rates of Black and Hispanic drivers as compared to white drivers are consistent with those found in a number of national, state, and local studies. For example, Pierson *et al* (2020) report national-level data on nearly 100 million US traffic stops, finding that Black and Hispanic drivers are searched at more than twice the rate of white drivers.[19] In a study of 20 million car stops in North Carolina from 2002-2016, Baumgartner *et al* (2018) also find evidence of higher search rates of Black and Hispanic drivers (and also of higher arrest rates). The ratio of Black to white search rates in North Carolina was roughly 2 to 1, similar to Pierson *et al* (2020), indicating national search rate disparities between Black and white drivers that are *lower* than in Vermont.

Figure 5. Vermont Arrest and Search Rates by Race/Ethnicity

Panel A. Arrest Rates

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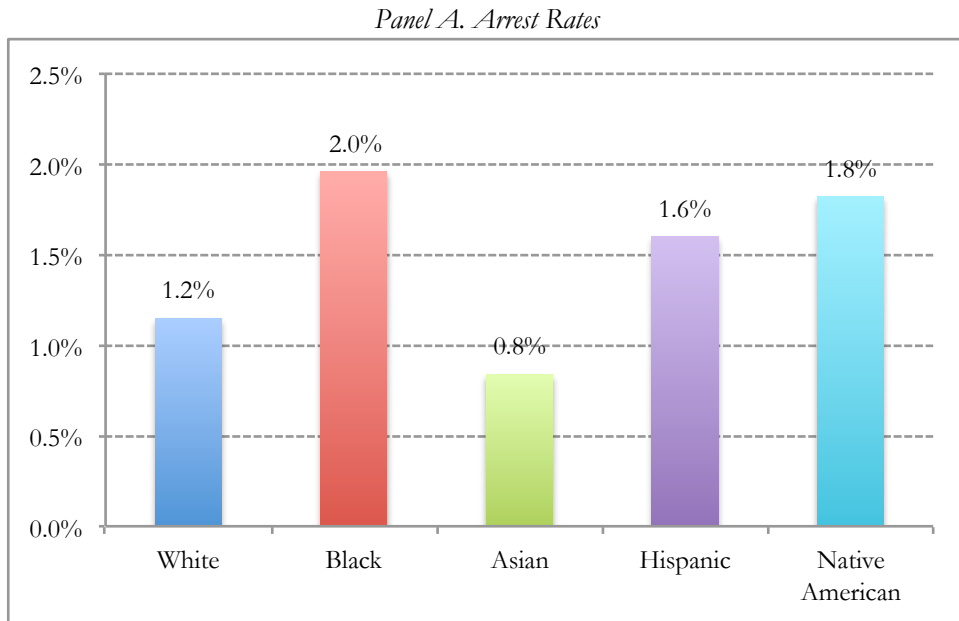
[19] Specifically, the Black/white search rate ratio is 2.35 and the Hispanic/white ratio is 2.25. Pierson *et al* (2020) do not report racial differences in arrest rates.
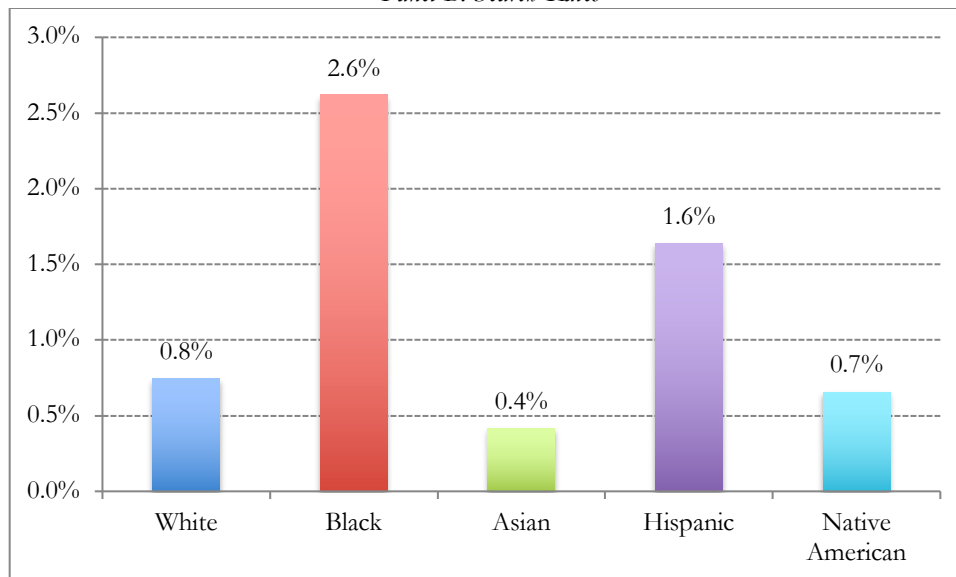
BIPOC/white search rate ratios vary widely across law enforcement agencies. Figure 6 ranks agencies from highest to lowest Black/white disparity (top to bottom). In order to have large enough sample sizes to make comparisons, only those agencies with at least 10 searches of Black drivers are shown. The raw numbers of searches for all agencies are shown in the appendix in Table A.5. Brattleboro stands out as having the widest search rate disparities, with Black drivers searched at a rate that is almost 9 times greater than that of white drivers. It is noteworthy that when we aggregate data for all municipal law enforcement agencies and all sheriff departments, municipal police agencies have wider racial disparities in Black and white searches (Blacks are searched at a rate that is 3.13 time greater than the white search rate) than sheriffs (Black drivers are searched at 2.43 times the rate of white drivers). Even at UVM, the agency with the smallest Black/white disparity, Black drivers are searched at a rate that is 75% greater than white drivers (UVM police also patrol in Burlington and South Burlington).

Figure 6. Agencies Ranked by Black/White Arrest and Search Rate Disparities

Panel A. Black/white arrest rate ratios

Agency	Ratio
Brattleboro	5.01
Colchester	2.85
Rutland	1.99
Milton	1.73
All Vermont	1.70
Burlington	1.65
All Police	1.64
Williston	1.63
VSP - All	1.62
St. Albans	1.51
S. Burlington	1.48
Winooski	1.29
Bennington	1.26
All Sheriffs	1.16
UVM	0.92

Panel B. Black/white search rate ratios

Agency	Ratio
Brattleboro	8.84
Shelburne	4.46
Bennington	4.00
S. Burlington	3.93
Vergennes	3.80
Burlington	3.60
VT DMV	3.50
Rutland	3.45
All Vermont	3.41
VSP - All	3.39
All Police	3.13
All Sheriffs	2.43
Colchester	2.35
Winooski	2.24
Williston	1.96
UVM	1.79

D. Tests for Racial Bias

Why might we observe racial disparities in search rates? Search rate disparities may be justified if some groups are more likely to be carrying contraband than white drivers. Police may search vehicles, for example, in an attempt to interdict drugs (a reason that numerous police officers have given, in conversation with the authors of this study) and as a result, they may target Blacks and Hispanics on the basis of racial stereotypes about who drug users and couriers are. Implicit bias based on faulty stereotypes plays a role. For example, evidence

shows that Black and white Americans sell and use drugs at similar rates (U.S. Department of Health and Human Services 2012, 2013).

1. The Hit Rate Test

The question of whether or not there is racial bias (implicit or explicit) in search rate disparities can be assessed by examining the productivity of searches—that is, the percentage of searches in which contraband is found, or the "hit" rate. Contraband in Vermont ranges from underage cigarette possession to stolen goods to illegal drugs—but not weapons.[20] Absent racial bias (as compared to racial disparities), we would expect that officers should find contraband on searched minorities at the same rate as on searched white drivers. If searches of Black drivers turn up contraband at lower rates than searches of white drivers, the hit rate test suggests officers base their searches of Black drivers on less evidence than they require as a basis for initiating searches of white drivers. Put another way, BIPOC hit rates that are lower than white hit rates are an indication that police may be over-searching non-white drivers or under-searching white drivers and that racial bias may be influencing the officer's decision on whom to search.

Vermont law enforcement agencies are only required to report on whether or not contraband is found and are not required to report the type of contraband. As a way to get at the racial differences in the severity of contraband found, we differentiate the type of contraband in hit rates by the severity of the outcome as follows: 1) hit rates for all outcomes (warning, ticket, arrest), 2) hit rates in which contraband leads to tickets and arrests, and 3) the arrest-worthy contraband hit rate.

In conducting the hit rate test, we focus on white, Black, and Hispanic drivers (Table 3, bottom panel and Figure 7, *Panel A*). The number of searches of Asian and Native American drivers are not considered due to the low incidence of searches of these groups. In all three types of hit rates, the productivity of searches of Black and Hispanic drivers is lower than that of white drivers. For example, in all searches in which contraband is found, the hit rate for white drivers is 75% compared to 71% for Black drivers and 68% for Hispanic drivers, and the differences are statistically significant. When the outcome of the search is at least a citation and/or an arrest, the Black hit rate is still lower than that of white drivers and the difference is larger, with the white hit rate 62% compared to 55% and 56%, respectively for Black and Hispanic drivers. And, arrest-worthy contraband is also more likely to be found on white drivers (17%) than Black (14.3%) or Hispanic drivers (15.1%).

Figure 7, *Panel B* shows agency-level ratios of Black to white contraband hit rates. A value of less than 1 indicates Black drivers are less likely than white drivers to be found with contraband that leads to a ticket or arrest, thus indicative of racial bias in the decision to search. Agencies are ranked from highest disparity (top) to lowest (bottom). All of the agencies with lower Black than white hit rates recorded higher search rates of Black than white drivers.

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[20] Note that firearms for those 21 and over are not necessarily contraband in Vermont, but for those under 21, firearms would be considered contraband. Cannabis was legalized July 1, 2018 and is no longer contraband. Before that time, cannabis had been decriminalized in 2013 for quantities under one ounce, and possession of less than an ounce was until 2018 considered a misdemeanor.

Figure 7. Contraband "Hit" Rates by Race

Panel A. Statewide Hit Rates
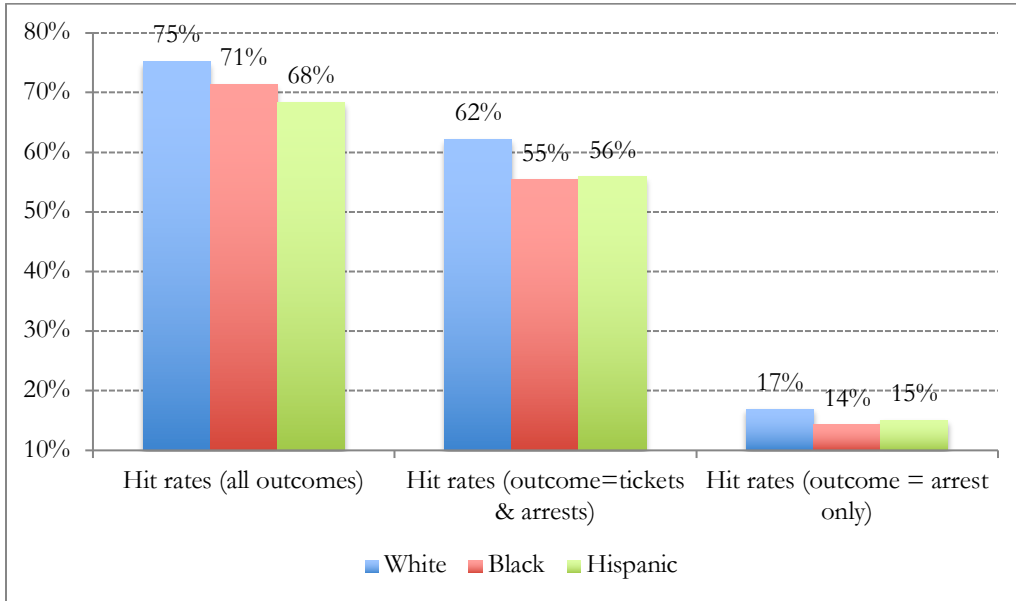
Panel B. Black/White Hit Rate Ratio by Agency (tickets & arrests only)
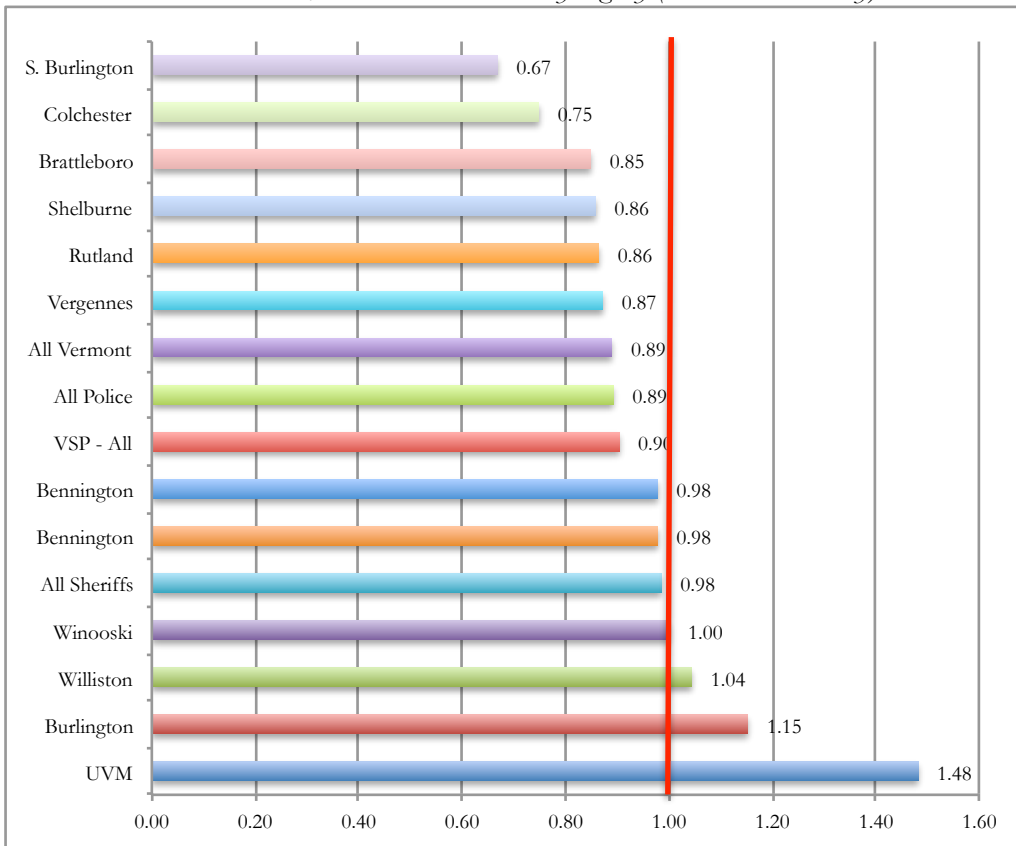
2. Hit Rates by Search Type as Evidence of Racial Bias

Law enforcement agencies identify the type of search conducted in their incident reports as probable cause or reasonable suspicion. The thresholds of evidence required to initiate a search differ by type, and may therefore be a means to identify racial bias in the decision to search. A probable cause search is one in which there are sufficient facts or tangible evidence that criminal activity has been or is being committed. Illegal drugs that are visible is an example. Reasonable suspicion is a lower bar of evidence for initiating a search, and rests on a "reasonable" presumption that a crime has been or is being committed, based on facts or circumstances. Reasonable suspicion is seen as more than a guess or hunch but less than probable cause. In theory, we might expect probable cause searches to have higher hit rates than searches based on reasonable suspicion because the evidence is stronger in the former. Racial disparities may be wider in searches based on reasonable suspicion than probable cause. This is because negative stereotypes about Blacks and Hispanics may provoke suspicion in the absence of articulable evidence of contraband, resulting in officers having a lower bar of evidence for searches of these two racial groups compared to whites—with that lower bar resulting in being wrong more often—that is, not finding contraband more often than in searches of white drivers.

Table 5 shows types of searches by race and hit rates by type of search by race. The data indicate that Black and Hispanic drivers are more likely to be searched based on the lower threshold of evidence, reasonable suspicion. Not surprisingly, the error rate, that is, the percentage of searches that do not yield contraband, is higher in that type of search compared to searches based on probable cause. This holds for all racial groups. For example, the white hit rate in probable cause searches is 82.7% compared to just 65.1% in reasonable suspicion searches. This means the error rate increases from 17.3% in probable cause searches to 34.9% in reasonable suspicion searches. However, the BIPOC-white disparity in hit rates is wider for searches based on reasonable suspicion, again indicating that officers are wrong more often in their decision to search BIPOC drivers than white drivers. Specifically, in reasonable suspicion searches, Black drivers are 20% less likely to be found with contraband than white drivers, and Hispanic drivers 30% less likely.

The data are consistent with the hypothesis that officers rely on a higher threshold of evidence to initiate a search of a white driver and that in searches with a lower bar of evidence (reasonable suspicion searches), officers are wrong more often—that is, they are less likely to find contraband in searches of Black and Hispanic drivers than white drivers. These results are consistent with the hit rate test described above with the added finding here that reasonable suspicion searches are largely the source of hit rate disparities.

Table 5. Search Rate Types and Hit Rates by Race

Search Type	White	Black	Hispanic
Probable Cause	3,914	393	103
Reasonable Suspicion	1,568	192	41
Reasonable Suspicion as % of Searches	*28.6%*	*32.8%*	*28.5%*
Hit rates by Search Type			
Probable Cause	82.3%	80.4%	78.6%
Reasonable Suspicion	64.1%	53.1%	43.9%
Probable Cause		0.98	0.96
Reasonable Suspicion		0.83	0.68

Note: Searches on warrant are excluded because these are not entirely due to officer discretion.

IV.   Trends Over Time

The adoption of fair and impartial policing policies and the availability of traffic stop data could incentivize agencies to review their policies and to conduct trainings on race, policing, and impartial bias. It is therefore useful to explore trends in racial disparities over time to track the effects of training and exposure to statewide discussions on racial disparities in policing. It should be recalled that Vermont legalized cannabis in July 2018. We therefore also evaluate the data to determine whether this has had an effect on stop and search rates.

First, we examine trends in the number of stops per year in total and by race (for raw data, see Appendix Table A.2). We focus on the trends from 2015 to 2019 because the number of stops reported for 2014 represent partial annual data (from September through December). The total number of traffic stops has increased by 40% during this period of time (again, excluding externally generated stops) from about 125,000 per year to almost 175,000 a year by 2019 (Figure 8). Sheriff's Departments recorded the highest percentage increase in stops (86.4%) compared to the other types of agencies, where stops increased about 33%.

Figure 8. Trends in Annual Number of Stops per Year by Agency Type
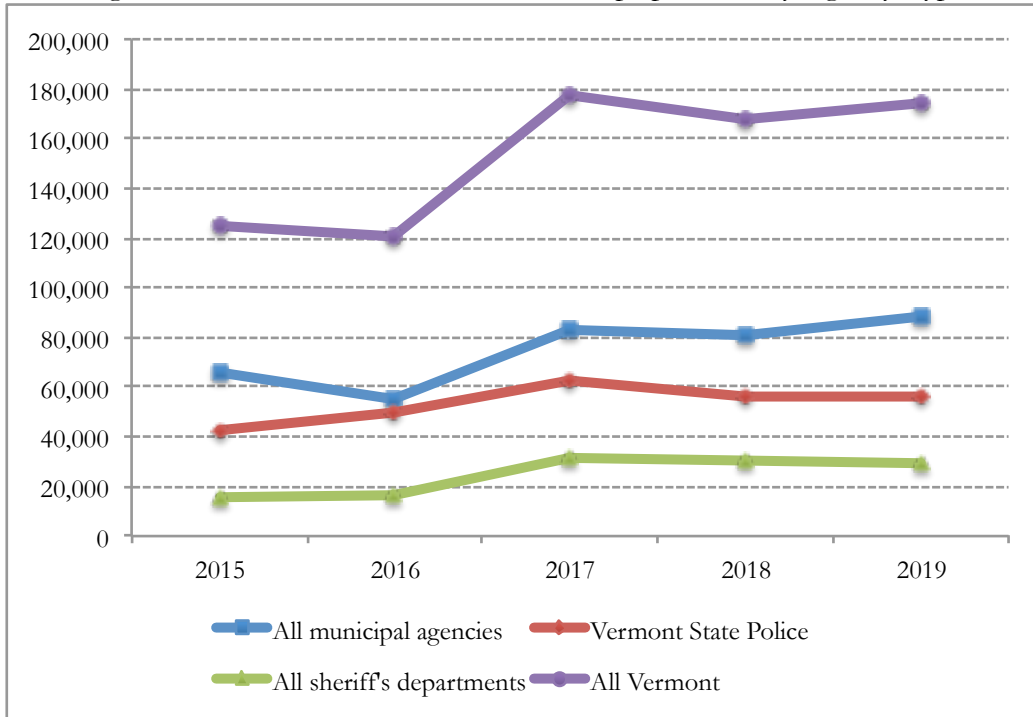
The percentage increases in traffic stops (all agencies) vary widely by racial group, however. Stops of white drivers increased by 44.6% from 2015-19. For Black, Asian, and Hispanic drivers, the number of annual stops rose by 72.5%, 66.7%, and 120.2% respectively over this same time period (Figure 9).

Figure 9. Percentage Increase in Annual Stops by Race, 2015-19
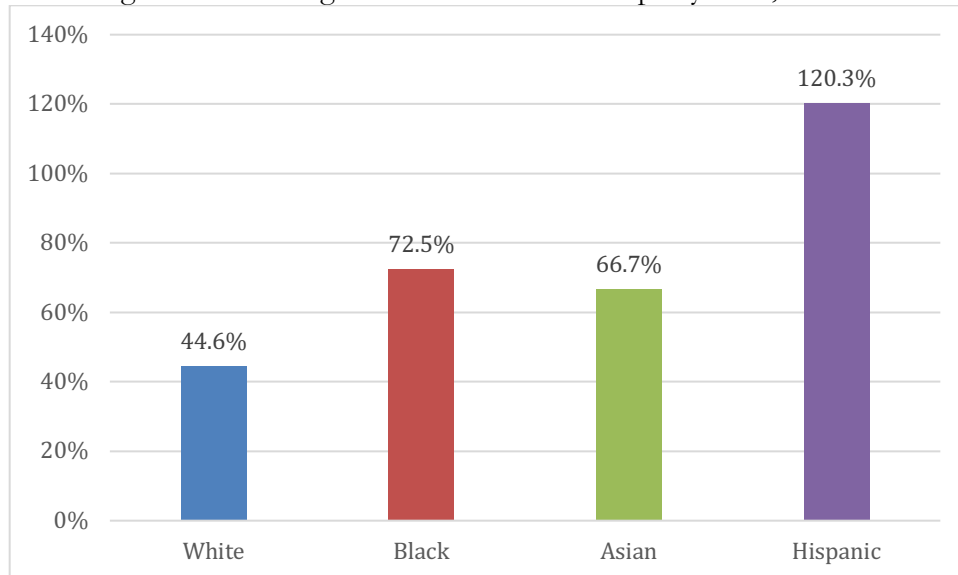
A useful way to look at racial differences in the probability of being stopped is to evaluate stop rates per 1,000 residents (Figure 10).[21] For all drivers, Vermont's stop rate, estimated to be 321 drivers per 1,000 residents in 2019, is very high relative to the national average of 8.6% (or 86 out of 1,000) of drivers stopped per year.[22] The stop rate of Black drivers, however, is notably higher than the stop rate of Asian and white drivers in all years, and the gap between the Black stop rate as compared to the white and Asian stop rates has widened over time, especially between 2018 and 2019 (Figure 10).

Figure 10. Annual Stop Rates in Vermont by Race per 1,000 residents, 2015-19
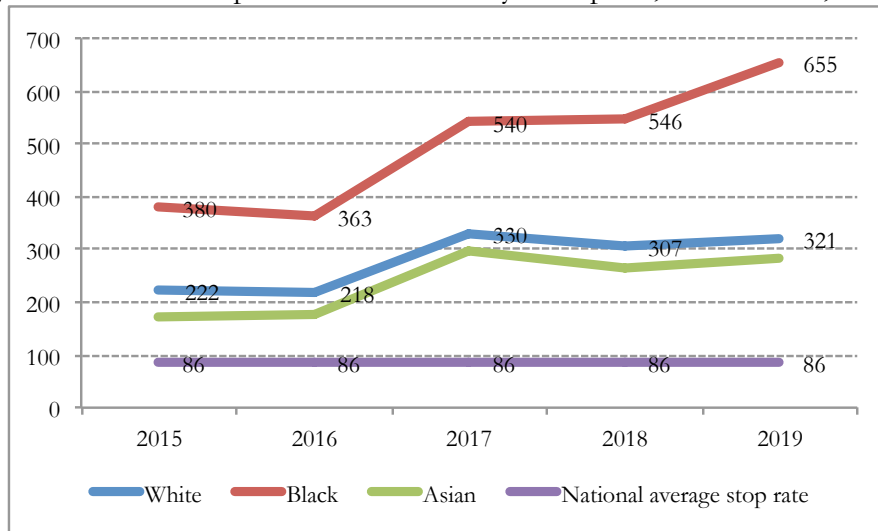
Again, statewide averages obscure significant variation in racial disparities in stop rates in individual agencies. By way of example, Figure 11 reports the annualized stop rates (all races) by agency for 2015-19 in *Panel A.* The national stop rate per 1,000 residents is 86 (shown by the vertical red line in Figure 11, *Panel A*). More than 2/3 of Vermont law enforcement agencies have stop rates that exceed the national average.

In *Panel B*, we look at agencies whose stop rates are above the national average, and rank them according to the ratio of Black to white stop rates per 1,000 residents for 2015-19. The most extreme disparity is in Pittsford where the Black stop rate is more than 7 times greater than the white stop rate, followed by Winooski where the Black stop rate is more than 5 times the white rate. In fact, most agencies with stop rates in excess of the national average also have elevated Black/white disparities in stop rates.

It should be noted that these results are also subject to the benchmark problem discussed in section III. They do not perfectly measure racial differences in stop rates because we cannot precisely measure the driving population, which may differ from the U.S. Census ACS

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[21] ACS data is used to calculate an estimated rate per 1,000 residents. Because we do not have ACS estimates of Hispanics, this racial category is omitted from Figure 10. Stop rates are calculated, using white drivers as an example, as: [(number of stops of white drivers/number of white residents 15+)*1,000]. Similarly, the stop rate of Black and Asian drivers is their stop numbers divided by the number of Black and Asian residents, 15 and older, all multiplied by 1,000.

[22] U.S. Department of Justice (2018: 1).

estimated measures of the resident population. Further, some towns have significant tourist and/or shopping visitors and thus the stop rate per 1,000 may appear high. Stowe, Manchester, Williston, and Woodstock are examples of such towns. With regard to Black-white disparities, if the driving population has a larger share of BIPOC drivers than the resident population, the stop rates shown in Figure 11 may overestimate racial disparities in stop rates. But it also very likely that even if the driving population has a larger share of BIPOC drivers than in the Census data, the disparities in some towns shown are so wide as to cause concern and, at a minimum, stimulate deeper investigation into officer practices as well as policies that govern officer stop decisions.

Figure 11. Stop Rates and Ratio of Black/White Stop Rates per 1,000 Residents, 2015-19

Panel A. Stop Rates per 1,000 Residents
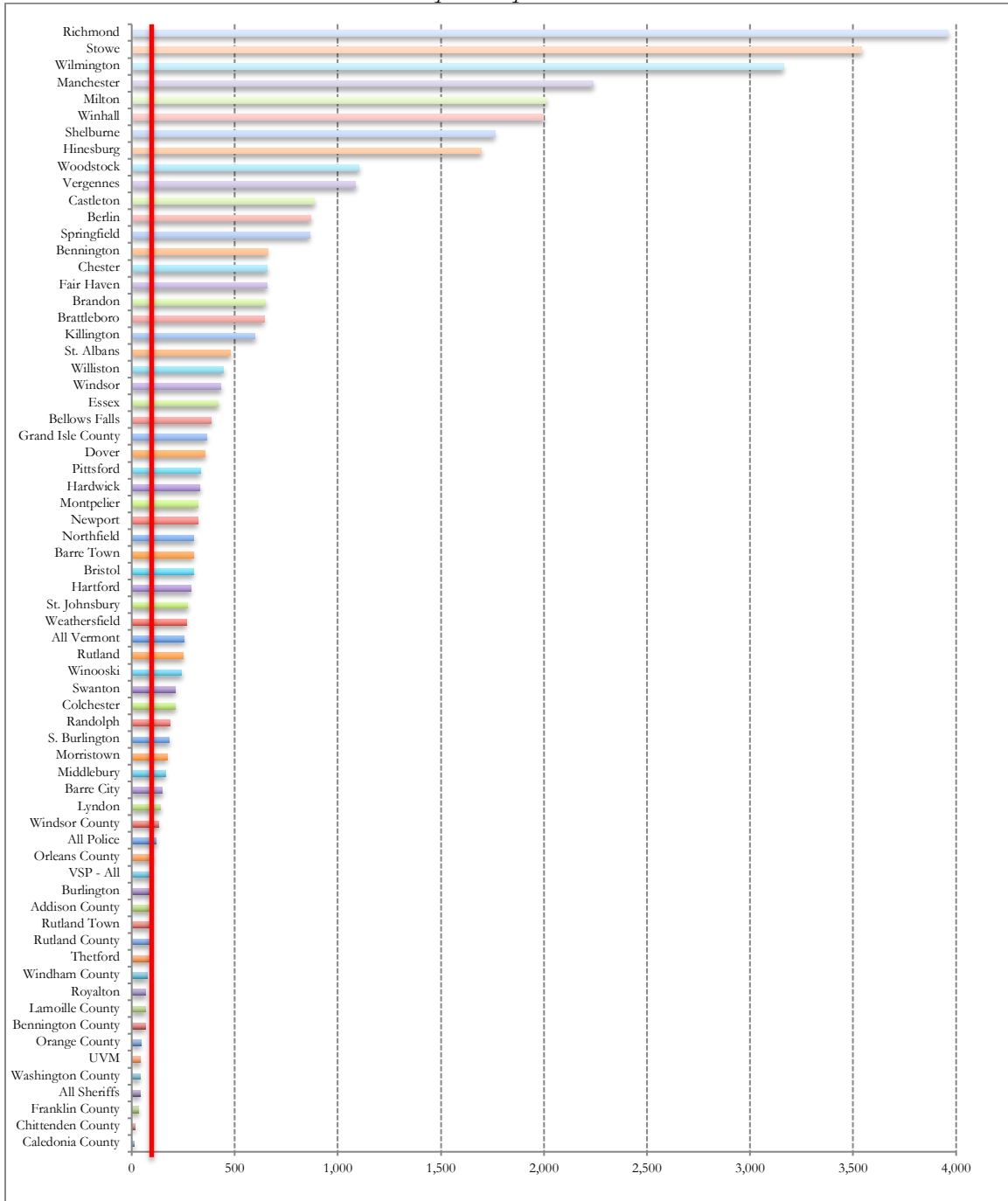
Panel B. Black/White Stop Rate Ratio, 2015-19
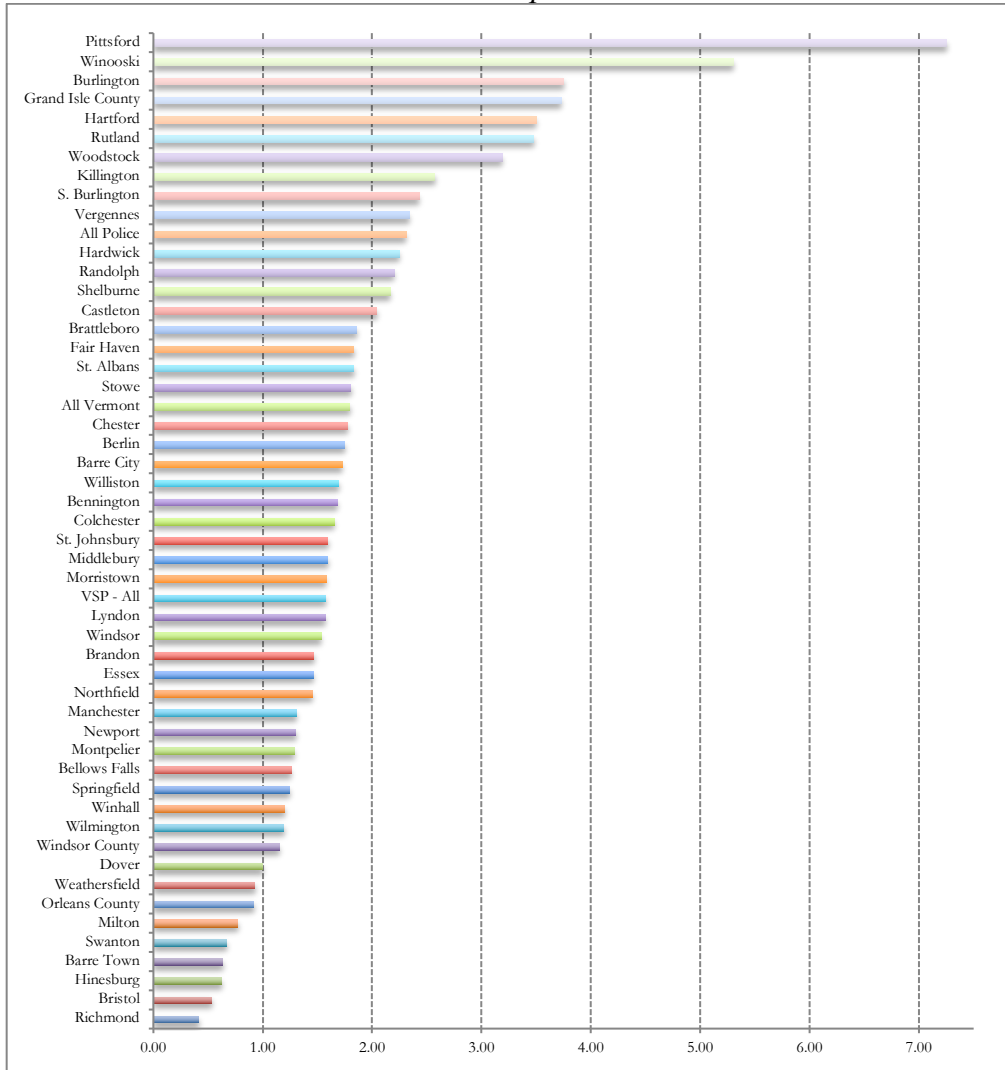
Note: City- or town-level race data are used to calculate stop rates for most agencies. Exceptions are statewide agencies (VSP, DMV, All Police) for which we use the state's racial population data from the ACS17. The calculation of stop rate per 1,000 residents is based on stops only from years for which complete data are available. For example, the 2014 data used in this study were limited to the months of September through December, so the stop rate for 2014 was omitted. In cases where the data an agency provided for a particular year were missing the date of the stop, we treated the data as having covered the entire year as long as at least 20 stops were made.

Also of interest is the trend in the percentage of stops that are potentially pretextual, given the greater possibility for racial bias to influence officer treatment of drivers in this kind of stop. This type of stop is more susceptible to bias than are safety stops, the latter which are based on discernible driver behavior. Figure 12 shows trends in the number of statewide stops that are investigatory/pretextual as a percentage of all stops by race. There are two noteworthy observations. Black drivers are more likely than all other racial groups to be stopped for investigatory/pretextual reasons, in which we include vehicle equipment stops, than all other racial groups for all years with the exception of 2017 when white and Black rates were very similar. Second, the share of stops that are investigatory/pretextual has risen

for all racial groups since 2017, but the increase for Black and Hispanic drivers exceeds that for white and Asian drivers. It is also noteworthy that by 2019, Black drivers are almost twice as likely as Asian drivers to be pulled over for reasons that are investigatory or pretextual.

The data suggest that there has been a shift away from a public safety focus of traffic policing that in itself merits investigation. That this shift has disproportionately been felt by Black and Hispanic drivers, groups that have been over-stopped by the police, suggests a reconsideration of the use of investigatory/pretextual stops. As noted previously, recent research finds that by implementing policies that discourage this type of stop, some agencies have been able to reduce racial disparities in stops (Epp *et al* 2014).

Figure 12. Investigatory/Pretextual Stops as % of All Stops
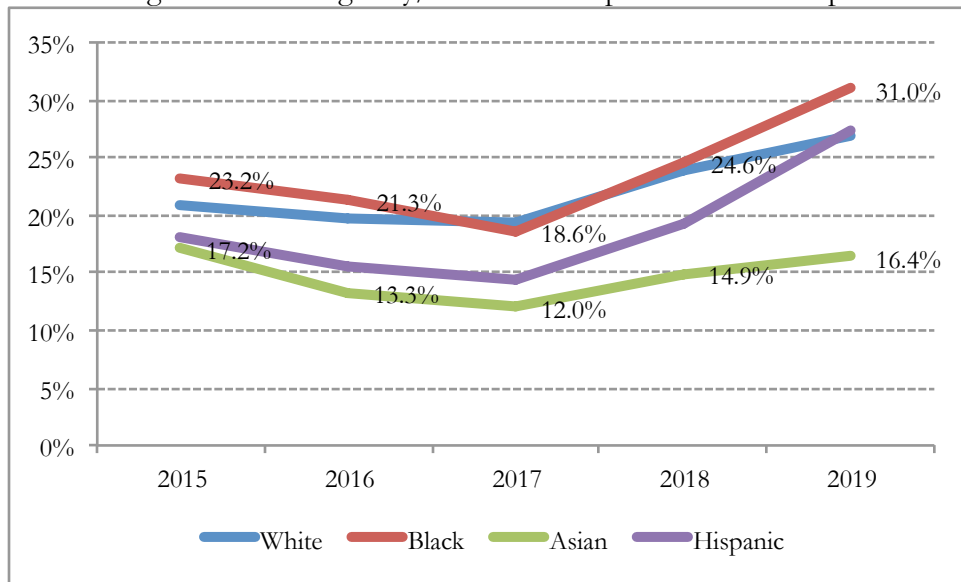
Figure 13 shows trends in arrest rates (arrests on warrant are excluded). In all years, the Black and Hispanic arrest rates exceed the white and Asian rates. Arrest rates for all racial groups have increased since 2016 but the Black/white and Hispanic/white disparity has also widened since that time. It is particularly noteworthy that with the legalization of cannabis in 2018, the white arrest rate declined but the Black rate stayed constant. This is surprising because research has shown that Blacks are more likely to be arrested for cannabis possession than whites (ACLU 2020), and as a result, we might have expected a decline in arrest rates for all groups in 2019 as a result of the change in law, with a larger decline for Blacks. That did not occur.

Figure 13. Trends Arrest Rates by Race/Ethnicity
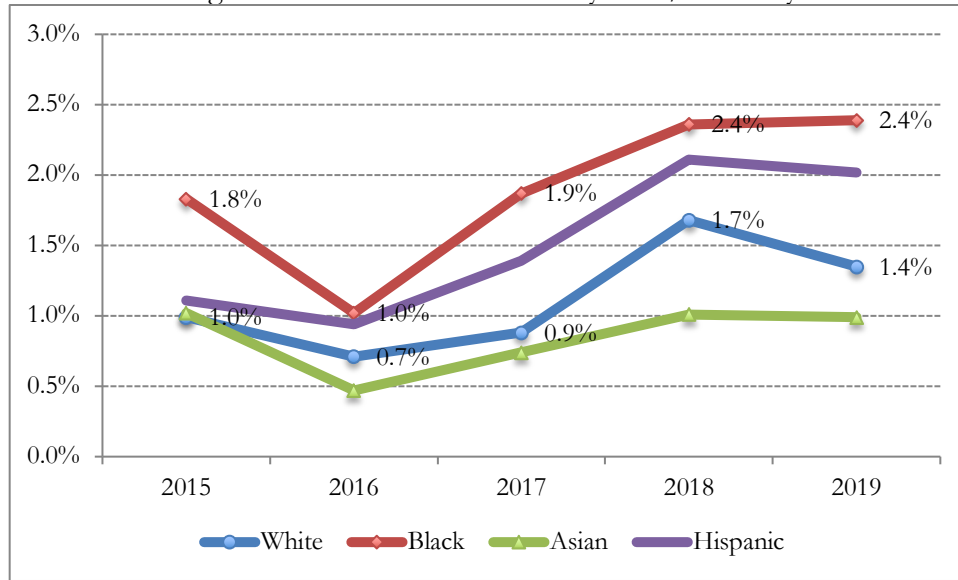
Trends in white and Black search rates are shown in Figure 14. In *Panel A*, we observe that search rates of all racial/ethnic groups have fallen over time, notably since the legalization of cannabis in 2018. But as the data on the ratio of BIPOC to white search rates in *Panel B* show, the white rate has fallen more in percentage terms since 2018 than the Black search rate, and so by 2019, Black drivers were still 3 times more likely to be searched than white drivers. This finding—that searches have declined since the legalization of cannabis even as Black-white search rate disparities persist—has also been found in other states (Pierson *et al* 2020). The ratio of Asian to white search rates, however, has risen over time—although the Asian search rate continues to be lower than the white rate. In contrast, Hispanic drivers by 2019 were more than two and a half times more likely to be searched than white drivers, indicative of a widening disparity since 2018.

Figure 14. White and Black Search Rates Trends and Differentials

Panel A. Search Rate Trends

Panel B. Trends in Ratios of BIPOC/White Search Rates
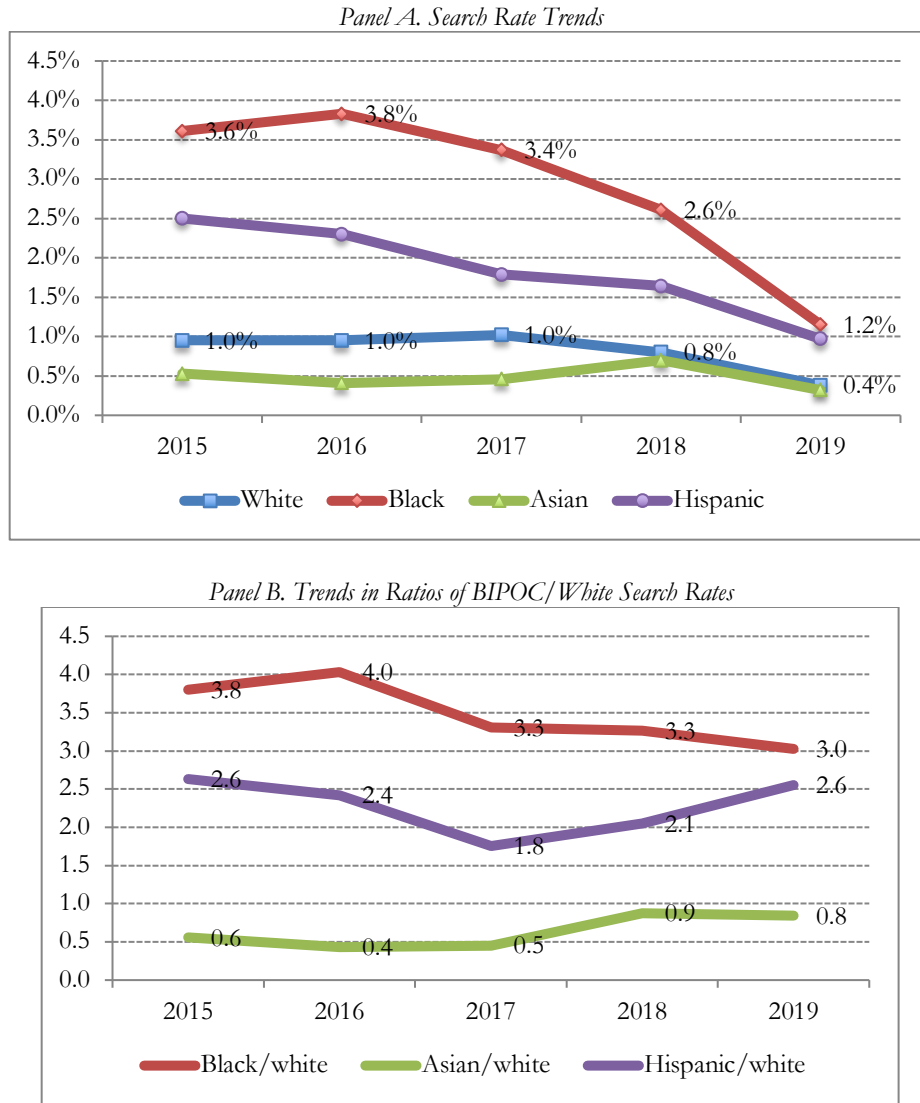
Figure 15, *Panel A*, shows trends in contraband hit rates by severity of contraband. Hit rates that result in a warning have fallen since 2015. Hits that lead to tickets and arrests have also fallen, with a notable decline since 2018, the year that cannabis was legalized but the percentage of searches in which arrest-worthy contraband was found has risen since 2018. This is noteworthy and perhaps surprising, even as police are searching less the productivity of most search types has fallen significantly. Only searches leading to an arrest have an increasing hit rate.

Focusing on the contraband hit rate for all outcomes (warning, ticket, and/or arrest) by race, *Panel B* shows that the white hit rate exceeds that of all other racial groups for most years, including in 2018 and 2019. There is no evidence the disparity in hit rates for Blacks and Hispanics as compared to white drivers has narrowed since legalization. This is particularly salient in light of the continued over-searching of Black and Hispanic

drivers as shown in Figure 14. At the statewide level, then, we observe continued higher search rates for Blacks and Hispanic compared to whites, but lower hit rates, a result that indicates possible racial bias in the decision to search.

Figure 15. Contraband Hit Rates by Severity of Contraband

Panel A. Statewide trends in hit rates by severity of contraband

Panel B. Hit Rates (tickets & arrests)
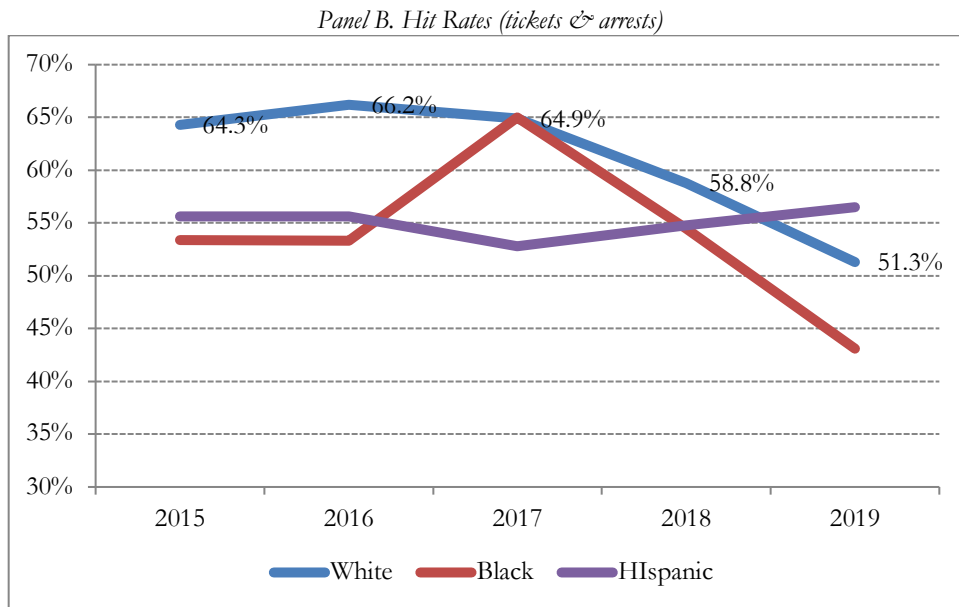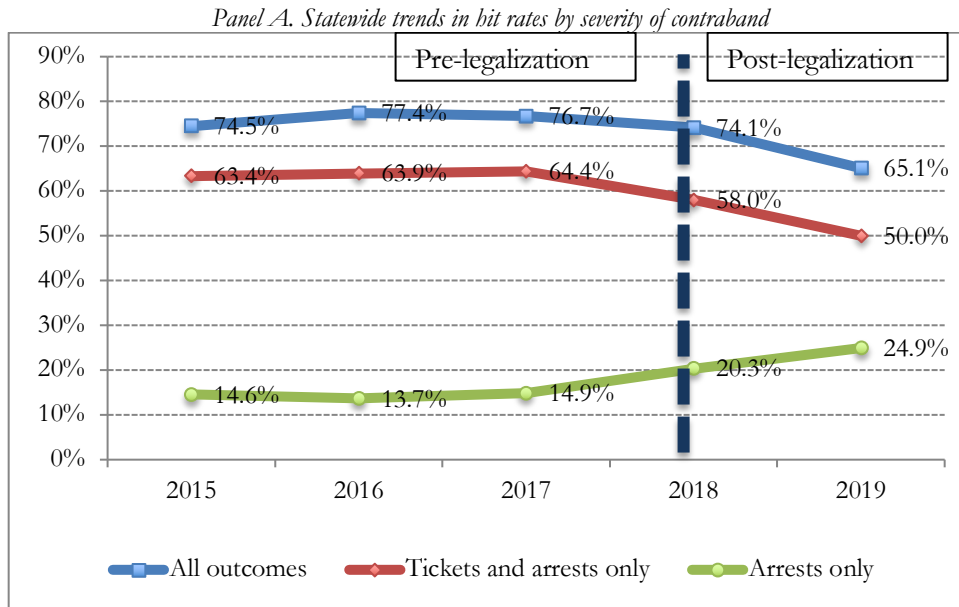
V.   Logit Analysis

In this analysis, our focus is on searches and their relative efficiency in finding contraband. Our goal is to examine in greater depth the evidence that BIPOC drivers receive less favorable treatment due to their race by controlling for possible confounding

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variables. By less favorable treatment, we mean that BIPOC drivers, and in particular Black and Hispanic drivers, are searched more frequently with less likelihood of contraband being found than in searches of white drivers), To do this, we use multivariate logistic regression analysis to calculate the probability of a search occurring and separately, contraband being found, controlling for other factors that may influence the decision to search or of contraband being found.

Why is this useful? Some driving behaviors and circumstances may co-vary with race, and could be the dominant reason behind an officer's decision to conduct a search rather than the race of the driver. Failing to control for such factors risks misattributing search rate differences to race rather than the explicit behavior of the driver. If, even after controlling for factors like gender, age, reason for stop, and time of day, which we are able to control for, we still find that race is a statistically significant predictor of a search, then that provides additional evidence that the race of the driver, independent of these other factors, influences traffic policing in Vermont.

    A. Probability of a Search

We first report results from the probability of a driver being searched by race. The full model takes this general form:

$$\textit{Probability of Search} = \beta_0 + \beta_b \ast Black + \beta_a \ast Asian + \beta_h \ast Hispanic + \beta_{na} \ast Native\ American + \beta_m \ast Male + \beta_{age} \ast Age + \beta_k \ast Time\ of\ Day_k + \beta_i \ast Day\ of\ Week_i + \beta_j \ast Reason\ for\ Stop_j + Residual.$$

Dummy variables for each racial group are included, with white the excluded racial category. The coefficients for each of the driver race variables can be interpreted as the ratio of the odds a driver of that race is searched relative to the odds for white drivers with the same characteristics. This is called the *odds ratio* because it is the ratio of the odds of a non-white driver being searched over the odds that a white driver is searched. An odds ratio of 1 indicates equal probabilities of being searched. A ratio that is greater than one indicates a group is more likely to be searched than the omitted or benchmark group (that is, white drivers). Finally, an odds ratio that is less than 1 is indicative of a lower probability of a group being searched relative to the omitted group.

The coefficient on *Male* indicates the odds a male driver will be searched as compared to the odds a female driver will be searched. We include a control for the driver's age, measured in years, as an explanatory variable, as well as time of day of the stop, day of the week, and reason for the stop. Controlling for all of these factors allows us to interpret the race variable, net of the impact of these other control variables.

Results are shown in Table 6. Of primary interest is whether the race variables are statistically significant (as designated by the asterisks). If they are, this implies that independent of the factors we control for that may lead to an officer's decision to search a vehicle, race influences the officer's decision to search (net of those factors).

We report results on three variations of our basic model. We start with a basic model (Model 1 in Table 6), in which race of the driver is our only explanatory variable. The results show that the odds ratio of a search of a Black driver relative to a white driver is 3.43. That is, the odds a Black driver is searched is more than 3 times the odds of white drivers. The odds ratio on Asian as compared to white drivers is 0.589. That is, the odds for an Asian driver are roughly half the odds that a white driver is searched. And for Hispanics, the odds ratio is 2.155, indicated that the search odds for Hispanic drivers are roughly double the odds for white drivers. The odds ratio on Native American drivers is close to 1, but is not statistically significant.

In Model 2, we add all controls available with the exception of age of driver because some agencies failed to report that information. Adding controls for gender, time of day, day of week, and reason for stop, we find that the odds of a male driver being searched are 1.72 times greater than the odds a female driver will be searched. The probability of a search is lower in the morning than in the afternoon, and the odds of a nighttime search are greater than in the afternoon.

The odds of an investigatory stop leading to a search are almost 8 times greater than a stop initiated due to a moving violation. The odds ratios on all other reasons for a stop as compared to a stop based on a moving violation are also greater than 1. The odds a Black driver will be searched in this model, after controlling for other factors, is 2.847 relative to the odds a white driver will be searched. That is, even controlling for other factors, the odds a Black driver will be searched in Vermont are still almost 3 times the odds a white driver will be searched. The coefficient continues to be statistically significant at the one percent level. That is, we can reject the null hypothesis that there is no difference in search rates between Black and white drivers with a high degree of certainty.

In Model 3, we add age of driver as an explanatory variable, reducing the number of observations as a result of missing age data. Coefficients on most of the remaining variables are quite stable and continue to be statistically significant. The coefficients on the race odds ratios fall modestly.

Taken together, these results suggest that Black/white disparities in search rates are extremely robust, regardless of the contextual factors controlled for. The use of more rigorous statistical techniques does not in any meaningful way change the nature of the descriptive data findings.

We also ran annual regressions using all controls. Using those results, Figure 16 plots the odds ratios for Black, Asian, and Hispanic drivers from 2015 to 2019. The odds Black drivers are searched relative to white drivers has fallen since 2015, although by 2019, Black drivers continue to have more than double the odds of being searched as white drivers. Similar results hold for Hispanic drivers—that is, there is a slight decline in the odds ratio but Hispanics too have more than twice the odds of being searched as white drivers. The odds Asian drivers are searched as compared to white drivers in contrast has risen over time so that by 2019, Asian drivers are 10% less likely to be searched compared to white drivers. It is interesting to note that although the Black/white odds ratio declined from 2018 to 2019, after cannabis was legalized, the Hispanic/white odds ratio rose.

Table 6. Odds Ratios of Probability of a Search (Compared to White Drivers)

VARIABLES	(1) Race only	(2) All controls except age	(3) All controls
Black	3.434***	2.847***	2.572***
	(0.147)	(0.128)	(0.123)
Asian	0.589***	0.578***	0.553***
	(0.074)	(0.074)	(0.074)
Hispanic	2.155***	2.048***	2.027***
	(0.179)	(0.173)	(0.180)
Native American	1.007	1.030	0.952
	(0.452)	(0.465)	(0.480)
Male		1.715***	1.750***
		(0.050)	(0.054)
Morning		0.585***	0.599***
		(0.026)	(0.029)
Night		1.693***	1.526***
		(0.048)	(0.046)
Sunday		1.064	1.052
		(0.048)	(0.050)
Saturday		1.041	1.002
		(0.049)	(0.050)
Monday		0.968	0.937
		(0.043)	(0.045)
Tuesday		0.752***	0.775***
		(0.035)	(0.038)
Wednesday		1.071	1.095*
		(0.053)	(0.058)
Thursday		1.037	1.048
		(0.051)	(0.055)
Investigatory		7.826***	7.520***
		(0.371)	(0.382)
Multiple stop reasons		4.661***	4.198***
		(0.641)	(0.614)
Suspicion of DWI		5.713***	5.720***
		(0.628)	(0.679)
Unknown		3.739***	3.479***
		(0.235)	(0.239)
Vehicle equipment		1.193***	1.161***
		(0.036)	(0.038)
Age			0.958***
			(0.001)
Constant	0.009**	0.003***	0.011***
	(0.0001)	(0.0002)	(0.001)
No. of observations	752,966	737,005	665,922

Note: Standard errors are in parentheses. *** $p<0.01$, ** $p<0.05$, * $p<0.1$

Figure 16. Annual BIPOC/White Search Rate Odds Ratios
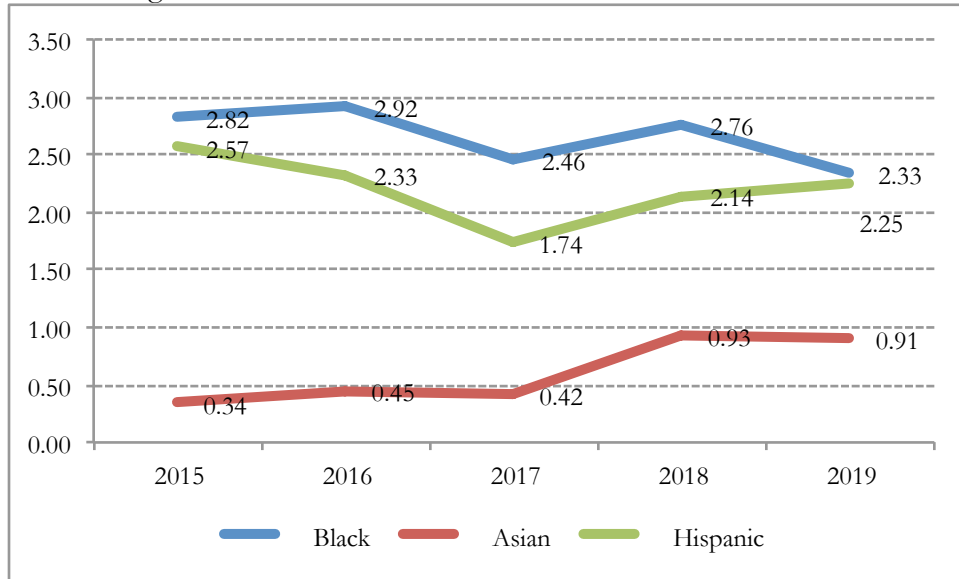
B. The Probability of Finding Contraband

We conduct logistic regression analysis to assess the role of race in the probability of finding contraband, subsequent to a search. As in the analysis of search rates, we control for other factors that may influence the probability of contraband being found to avoid erroneously attributing to race the effect of other factors. Again, we exclude externally generated stops and searches based on a warrant. The equation we estimate is as follows:

$$\textit{Probability of Finding Contraband} = \beta_0 + \beta_b*\textit{Black} + \beta_a*\textit{Asian} + \beta_h*\textit{Hispanic} + \beta_{na}*\textit{Native}$$
$$\textit{American} + \beta_m*\textit{Male} + \beta_{age}*\textit{Age} + \beta_k*\textit{Time of Day}_k + \beta_i*\textit{Day of Week}_i$$
$$+ \beta_j*\textit{Reason for Stop}_j + \textit{Residual}.$$

Table 7 reports the results of the probability of contraband found for searches that result in a ticket and/or arrest. The results shown for Model 1, where the only explanatory variable is race of the driver, indicate that the odds of a search of Black and Hispanic drivers yielding contraband are about three quarters of the odds a white driver will be found with contraband subsequent to a search. The difference is statistically significant for Blacks but not for Hispanics. The odds Asian drivers are found with contraband are slightly more than half the odds a vehicle search of white drivers yields contraband.

Because of the importance of the hit rate in our analysis, let's describe more precisely what the odds ratio coefficient means using the results from this simple regression. From Table 2, we find that 62.2% of searched white drivers in Vermont were found with contraband during the 2014-19 period and thus, 37.8% were not found with contraband. This implies an odds ratio for white drivers of 62.2/37.8= 1.65. In other words, the odds are roughly 1.7 to 1 that a search of a white driver yields contraband. For Black drivers, we find in Table 2 that 55.4% of them are found with contraband so their odds ratio is 55.4/44.6=1.24. The ratio of

these two odds is the coefficient in our regression (1.24/1.65=0.75), very close to the coefficient estimate on race when we formally run the logit regression.

The addition of controls in Model 2 increases very slightly the odds ratio of finding contraband in searches of Black and Hispanic drivers as compared to white drivers to 0.777 and 0.775 respectively (although the Hispanic/white odds ratio continues to be statistically insignificant). The odds ratio on Asian drivers falls to 0.511. In Model 3, we obtain similar results on the Black to white odds of contraband being found as in Models 1 and 2. The Hispanic/white odds ratio is slightly lower than in Models 1 and 2 and is now statistically significant. And the Asian/white odds ratio falls modestly to 0.426.

Figure 17 plots the odds ratios of contraband being found during a search from annual regressions with all controls including age of driver. The Black odds ratio relative to whites has fallen over time. That is, the odds of finding contraband in searches of Black drivers is lower than the odds of finding contraband during a vehicle search of a white driver, and that gap is widening over time. This can be interpreted as meaning that searches of vehicles since 2017 are less productive than searches of white drivers. In contrast, the gap in the odds Hispanic drivers are found with contraband as compared to whites closed in 2019.

To sum up the results of the logistic regressions, adding controls for a variety of contextual factors has little effect on racial disparities in the probability of being searched and of contraband being found during a search. This is not to say that the controls were not meaningful or significant. Searches and the likelihood of finding contraband are more likely to happen under some conditions as compared to others that are relevant for reform (e.g., during investigatory stops as compared to motor vehicle stops). But even controlling for these factors, race continues to be a statistically significant factor in an officer's decision to search a vehicle with Black and Hispanic drivers having a substantially higher odds of being searched compared to white drivers. Moreover, and with regard to the question of racial bias as an explanation for such disparities, the analysis shows that overall Black, Asian, and Hispanic drivers are less likely to be found with contraband, a finding that is consistent with over-searching of those groups of drivers.

Table 7. Odds Ratios of Probability of Contraband (Compared to White Drivers)

VARIABLES	(1) Race only	(7) All controls except age	(13) All controls with age
Black	0.745***	0.777***	0.750***
	(0.064)	(0.070)	(0.073)
Asian	0.573**	0.511**	0.426***
	(0.144)	(0.133)	(0.118)
Hispanic	0.764	0.775	0.736*
	(0.127)	(0.132)	(0.131)
Native American	0.914	0.970	2.006
	(0.835)	(0.889)	(2.341)
Male		1.270***	1.237***
		(0.076)	(0.079)
Morning		0.944	0.984
		(0.088)	(0.101)
Night		0.857***	0.856**
		(0.050)	(0.053)
Saturday		0.927	0.908
		(0.092)	(0.096)
Sunday		1.041	1.036
		(0.100)	(0.105)
Monday		0.833**	0.819**
		(0.077)	(0.082)
Tuesday		0.660***	0.664***
		(0.062)	(0.067)
Wednesday		0.843*	0.806*
		(0.087)	(0.090)
Thursday		0.839*	0.807*
		(0.086)	(0.089)
Investigatory		1.764***	1.850***
		(0.186)	(0.209)
Multiple stop reasons		4.294***	5.837***
		(1.748)	(2.785)
Suspicion of DWI		1.366	1.502
		(0.320)	(0.383)
Unknown		0.893	0.799
		(0.114)	(0.111)
Vehicle equipment		0.769***	0.768***
		(0.048)	(0.051)
Age			0.981***
			(0.002)
Constant	1.641***	1.421***	2.652***
	(0.044)	(0.185)	(0.418)
Observations	6,704	6,478	5,699

Note: Standard errors are in parentheses. *** $p<0.01$, ** $p<0.05$, * $p<0.1$.

Figure 17. Annual BIPOC/White Contraband Hit Rate Odds Ratios
(Tickets & Arrests only)
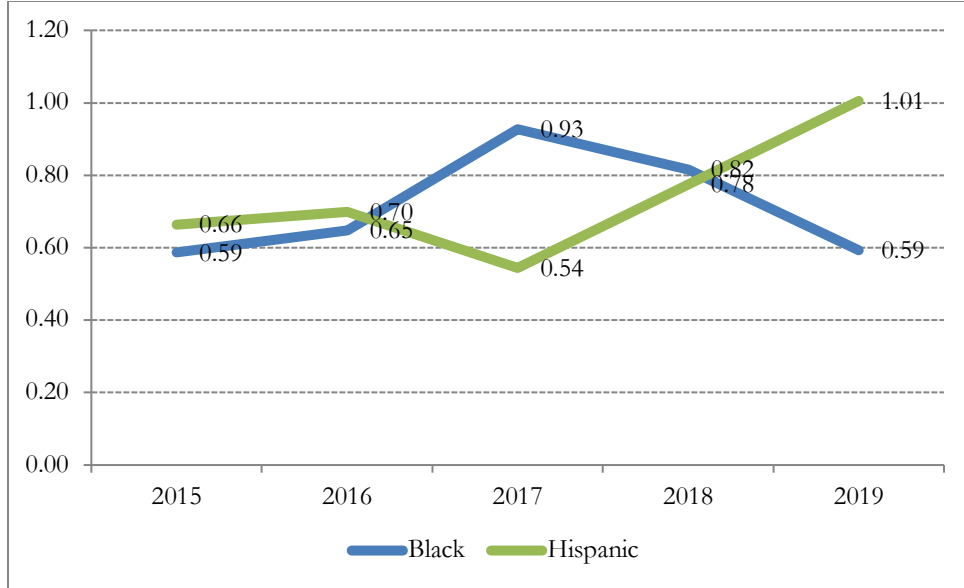
VI.   Conclusion

Vermont has embarked on a long-term project of using data to expand awareness of traffic policing and race. Because traffic stops are the most frequent interaction people have with the police, data on stops can be a useful tool for understanding the extent of racial disparities in these interactions. They are, in other words, a way of holding up a mirror to ourselves.

This report provides descriptive data on racial disparities in traffic stops at the state level and by agency. We find evidence of racial disparities using a variety of indicators. Black and Hispanic drivers are stopped at a rate that exceeds their share of the estimated driving population. Calculations of stop rates per 1,000 residents by race show that the stop rate of white drivers is 256, compared to Black stop rate of 459 per 1,000 Black residents. The stop rates in Vermont for all racial groups are much higher than the national average of 86 per 1,000 residents.

We also find that Black and Hispanic drivers are ticketed, arrested, and searched at a higher rate than white drivers. We conducted two tests for racial bias—the hit rate test and a logit analysis. The hit rate test shows that Black and Hispanic drivers are searched at a much higher rate than white drivers but are less likely to be found with contraband, indicative of a racially biased decision to search. The logit analysis, which estimates the odds a Black driver will be searched as compared to a white driver's odds, controls for a variety of other factors that influence the probability of being searched and of contraband being found. In that analysis, too, we find that once we control for the context of the stop, the driver's race is still a significant predictor of the decision to search a vehicle. In particular, the odds Black drivers are searched are still more double the odds a white driver will be searched.

Trends over time do not yield evidence that racial disparities have diminished for most indicators, even with the legalization of cannabis. Since the start of data collection in 2014, the number of traffic stops has increased for all racial groups, but more for Black drivers than white drivers. Racial disparities in arrest rates have also widened since 2014. Search rates have declined for all racial groups since the legalization of cannabis, but the Black search continues to be 3 times greater than the white search rate, while the Hispanic-white search rate disparity has widened since legalization. There is, however, evidence that one type of search has become more productive over time—that is, the percentage of searches that result in contraband being found that leads to an arrest has increased since legalization. The productivity of other types of searches has not increased even as the rate of searching has decreased.

Another objective of this analysis is to evaluate police compliance with the law requiring the collection and reporting of traffic stop data. While compliance has improved since 2014, there is still a troubling amount of missing and incomplete date. This leads to our third objective, and initial evaluation of the effectiveness of the legislation. We find that the legislation has not been sufficiently precise or comprehensive in delineating the data to be collected. Police chiefs have interpreted the meaning of various components of the legislation differently, and thus do not follow a uniform method of reporting data. Some categories of data that would be useful—and are already collected—were not stipulated in the legislation. Law enforcement agencies have as a result declined to share those data. These findings suggest the need to revise the legislation on traffic stop race data collection in order to ensure complete data that is uniformly submitted so that it can be analyzed without excessive difficulty.

The work of uncovering and addressing unjustified racial disparities in policing is fundamentally important, affecting the lives of more than 30,000 BIPOC folks in Vermont. The killing of George Floyd is a recent testimony to the urgency of the work to address racism and racial bias in our criminal justice system, of which interactions with the police are the entry point. We hope this report serves as a tool for enlightened law enforcement agencies to do the hard work of examining in more detail their race data and adopting reforms, small and large. And our hope is that community members find these data accessible so that they can hold their law enforcement agencies accountable to meet the community's desire for an eradication of racial bias in policing.

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APPENDIX

	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	744,700	22,839	13,787	8,970	619	21,000	811,915
Excluding externally generated stops	732,232	22,313	13,615	8,802	605	20,680	798,247
Reasons For Stops							
Safety Stops	537,582	16,040	10,975	6,711	484	13,020	584,812
Moving Violation	535,934	15,970	10,942	6,683	482	13,009	583,020
Suspicion of DWI	1,648	70	33	28	2	11	1,792
Investigatory/Pretextual Stops	163,000	5,383	1,985	1,736	104	2,509	174,717
Investigatory Stop	9,382	301	78	75	6	240	10,082
Vehicle Equipment	153,618	5,082	1,907	1,661	98	2,269	164,635
Externally Generated Stop	12,468	526	172	168	14	320	13,668
Multiple Reasons - Moving Violation & Suspicion of DWI	42	0	0	1	0	2	45
Multiple Reasons - Moving Violation & Vehicle Equipment	1,602	46	8	13	0	21	1,690
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	17	1	0	0	0	0	18
Unknown Stop Reason	29,995	843	647	341	17	5,128	36,971
Outcomes							
Ticket	273,253	8,346	5,721	3,901	252	6,507	297,980
Warning	430,769	12,968	7,226	4,333	330	9,846	465,472
No Action Taken	6,629	394	131	229	1	68	7,452
Arrest for violation	8,397	437	115	141	11	52	9,153
Arrest for warrant	358	27	3	6	0	6	400
Searches							
Total Stops with No Search	702,960	21,235	13,056	8,351	588	15,376	761,566
No Search & Contraband & Arrest for violation	150	7	2	5	0	0	164
No Search & Contraband & No arrest	958	39	15	17	4	19	1,052
No Search (all others)	701,852	21,189	13,039	8,329	584	15,357	760,350
Total Stops with Unknown Search	23,334	462	494	299	12	5,193	29,794
Total Stops with Search	5,938	616	65	152	5	111	6,887
Search with Probable Cause (PC)	3,914	393	36	103	3	71	4,520
Stops with PC Searches, No contraband	630	75	8	20	1	13	747
Stops with PC Searches, Unknown contraband	64	2	0	2	0	5	73
Stops with PC Searches, Contraband	3,220	316	28	81	2	53	3,700
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	500	71	4	14	0	15	604
Stops with PC Searches, Contraband and Ticket	2,010	189	15	52	1	32	2,299
Stops with PC Searches, Contraband and Arrest	710	56	9	15	1	6	797
Search with Reasonable Suspicion (RS)	1,568	192	21	41	1	33	1,856
Stops with RS Searches, No contraband	531	84	10	21	1	11	658
Stops with RS Searches, Unknown contraband	32	6	1	2	0	0	41
Stops with RS Searches, Contraband	1,005	102	10	18	0	22	1,157
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	240	25	4	4	0	9	282
Stops with RS Searches, Contraband & Ticket	588	55	4	9	0	11	667
Stops with RS Searches, Contraband & Arrest	177	22	2	5	0	2	208
Search with Warrant	456	31	8	8	1	7	511
Stops with Warrant Searches, No contraband	199	8	6	3	0	2	218
Stops with Warrant Searches, Unknown contraband	19	1	0	0	0	1	21
Stops with Warrant Searches, Contraband	238	22	2	5	1	4	272
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	26	3	0	1	0	0	30
Stops with Warrant Searches, Contraband & Ticket	86	9	1	1	0	3	100
Stops with Warrant Searches, Contraband & Arrest	126	10	1	3	1	1	142

Notes: Except where noted, data exclude externally generated stops. Outcomes of stops with searches are listed in order of severity. If the outcome is a warning, no action taken, or unknown, this implies that no citation or arrest resulted. In stops with searches that result in a citation or arrest, this implies at least one ticket and/or an arrest. And in the final category (stops with searches that result in an arrest), this refers to only those searches in which contraband is found and result at least in an arrest.

Table A.2. All Vermont Trends

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffics Stops							
Including externally generated stops							
2014	31,728	933	564	271	23	1,424	34,943
2015	114,266	3,386	1,911	1,103	102	6,645	127,413
2016	111,481	3,226	1,958	1,201	92	4,941	122,899
2017	167,920	4,782	3,299	2,051	132	2,493	180,677
2018	155,921	4,773	2,903	1,924	121	4,155	169,797
2019	163,384	5,739	3,152	2,420	149	1,342	176,186
Excluding externally generated stops							
2014	31,032	905	557	266	22	1,400	34,182
2015	111,473	3,271	1,871	1,081	97	6,564	124,357
2016	109,424	3,130	1,934	1,172	92	4,871	120,623
2017	165,385	4,658	3,260	2,009	129	2,404	177,845
2018	153,740	4,707	2,874	1,893	119	4,122	167,455
2019	161,178	5,642	3,119	2,381	146	1,319	173,785
Stops per 1,000 residents (ACS17_5yr, Excl. EGS)							
2014	62	105	51	0	3		64
2015	222	380	171	0	14		234
2016	218	363	177	0	13		227
2017	330	540	298	0	18		334
2018	307	546	263	0	17		315
2019	321	655	285	0	21		327
Stops per 1,000 residents (DMV, Excl. EGS)							
2014	62	74	46	0	14		64
2015	224	235	133	0	83		234
2016	220	222	148	0	75		227
2017	337	280	192	0	47		334
2018	311	301	199	0	41		315
2019	330	293	213	0	48		327
Reasons For Stops (excl. externally generated stops and unknown reasons)							
Safety Stops							
2014	23,408	660	456	201	16	1,112	25,853
2015	85,600	2,416	1,515	864	74	5,210	95,679
2016	83,601	2,295	1,574	943	79	2,647	91,139
2017	127,806	3,637	2,729	1,678	111	1,484	137,445
2018	109,174	3,346	2,292	1,436	92	1,682	118,022
2019	107,993	3,686	2,409	1,589	112	885	116,674
Pretextual Stops							
2014	6,433	187	76	51	6	187	6,940
2015	23,181	760	321	196	21	873	25,352
2016	21,607	666	258	182	13	423	23,149
2017	32,026	865	390	289	16	306	33,892
2018	36,553	1,159	429	364	22	535	39,062

2019	43,200	1,746	511	654	26	185	46,322

Outcomes (excl. externally generated stops)

Tickets (one or more)

2014	10,601	333	224	124	8	528	11,818
2015	42,069	1,284	727	461	39	2,801	47,381
2016	44,518	1,265	838	568	46	1,402	48,637
2017	69,246	1,954	1,556	1,058	63	744	74,621
2018	56,000	1,763	1,217	846	45	617	60,488
2019	50,819	1,747	1,159	844	51	415	55,035

Arrests for Violation

2014	296	12	3	2	2	4	319
2015	1,102	60	19	12	2	16	1,211
2016	782	32	9	11	1	9	844
2017	1,459	87	24	28	1	9	1,608
2018	2,589	111	29	40	2	12	2,783
2019	2,169	135	31	48	3	2	2,388

Searches (excl. externally generated stops)

Searches (PC, RS or Warrant)

2014	296	33	2	8	2	14	355
2015	1,062	118	10	27	0	33	1,250
2016	1,042	120	8	27	1	29	1,227
2017	1,682	157	15	36	0	16	1,906
2018	1,236	123	20	31	0	17	1,427
2019	620	65	10	23	2	2	722

Contraband (All Outcomes)

2014	217	22	2	7	2	8	258
2015	799	79	9	19	0	25	931
2016	821	85	5	16	0	23	950
2017	1,292	129	8	24	0	9	1,462
2018	924	86	13	21	0	14	1,058
2019	410	39	3	17	1	0	470

Contraband (Tickets + Arrests)

2014	186	17	2	6	2	7	220
2015	683	63	9	15	0	22	792
2016	690	64	4	15	0	11	784
2017	1,092	102	6	19	0	8	1,227
2018	727	67	10	17	0	7	828
2019	318	28	1	13	1	0	361

Contraband (Arrests only)

2014	37	3	0	1	1	1	43
2015	159	16	2	4	0	1	182
2016	158	8	1	1	0	0	168
2017	245	27	5	3	0	3	283
2018	259	19	4	4	0	4	290
2019	154	15	0	10	1	0	180

Note: 2014 data are for September-December.

Table A.4a Fields with Missing or Unknown Values												
Stop Years	Stops	Stop ID	Stop Date/Time	Age	Race	Gender	Stop Reason	Search Reason	Contra-band	Stop Outcome	Reported Accidents	Race in Reported Accidents
Count of Blank or Unknown Rows												
2014	34,182	2,223	0	4,820	1,400	2,516	1,275	1,165	1,180	451	18,065	1,292
2015	124,357	19,835	368	22,651	6,564	8,697	2,919	3,273	3,309	1,582	17,382	2,538
2016	120,623	85,748	3,041	18,631	4,871	4,028	5,969	4,523	4,540	5,472	16,492	2,360
2017	177,845	139,215	27,677	11,810	2,404	2,086	6,088	4,097	4,131	4,956	16,056	801
2018	167,455	120,251	42,917	23,416	4,122	3,050	10,101	7,536	7,538	7,913	15,733	608
2019	173,785	112,392	53,112	9,982	1,319	3,091	10,619	9,200	9,200	9,251	15,244	557
All Years	798,247	479,664	127,115	91,310	20,680	23,468	36,971	29,794	29,898	29,625	117,442	9,089
Percentage of Blank or Unknown Rows												
2014	34,182	6.5%	0.0%	14.1%	4.1%	7.4%	3.7%	3.4%	3.5%	1.3%	18,065	7.2%
2015	124,357	16.0%	0.3%	18.2%	5.3%	7.0%	2.3%	2.6%	2.7%	1.2%	17,382	14.6%
2016	120,623	71.1%	2.5%	15.5%	4.0%	3.3%	4.9%	3.8%	3.8%	4.3%	16,492	14.3%
2017	177,845	78.3%	15.6%	6.6%	1.4%	1.2%	3.4%	2.3%	2.3%	2.6%	16,056	5.0%
2018	167,455	71.8%	25.6%	14.0%	2.5%	1.8%	6.0%	4.5%	4.5%	4.5%	15,733	3.9%
2019	173,785	64.7%	30.6%	5.7%	0.8%	1.8%	6.0%	5.3%	5.3%	5.2%	15,244	3.7%
All Years	798,247	60.1%	15.9%	11.4%	2.6%	2.9%	4.6%	3.7%	3.8%	3.5%	117,442	7.7%

Table A.4b. Stops With at Least One Missing/Unknown Data Value			
Stop Years	**Total Stops**	**Stops Missing Value(s)**	**% of Stops Missing Value(s)**
2014	34,182	7,516	22.0%
2015	124,357	31,142	25.0%
2016	120,623	25,500	21.1%
2017	177,845	20,014	11.3%
2018	167,455	34,610	20.7%
2019	173,785	23,307	13.4%
All Years	798,247	142,089	17.8%

Table A.4c Missing or Unknown Values by Race					
	White	**Black**	**Asian**	**Hispanic**	**Unknown**
Count of Blank or Unknown Rows					
Total Stops (excl. EGS)	732,232	22,313	13,615	8,802	20,680
Unknown Stop Reason	29,995	843	647	341	5,128
Unknown Stop Outcome	23,408	577	528	298	4,797
Unknown if Search occurred	23,334	462	494	299	5,193
Unknown if Contraband found to a search	87	8	1	3	5
Unknown Outcome if contraband found	19	0	0	0	2
Percentage of Blank or Unknown Rows					
Unknown Stop Reason as % of all stops	4.0%	3.7%	4.7%	3.8%	24.4%
Unknown Stop Outcome as % of all outcomes	3.1%	2.4%	3.8%	3.3%	21.7%
Unknown if Search occurred as % of all stops	3.2%	2.1%	3.6%	3.4%	25.1%
Unknown if Contraband found as % of all searches	1.5%	1.3%	1.5%	2.0%	4.5%
Unknown Outcome if contraband found as % of all searches	0.3%	0.0%	0.0%	0.0%	1.8%

Table A.4. Variable Definitions

Variable	Formula
Total Traffic Stops	
Including externally generated stops	Count of all stops
Excluding externally generated stops	Count of all stops except where stop reason is "externally generated stop"
Reasons For Stops	
Safety Stops	Count of all stops where stop reason is "moving violation" or "suspicion of DWI"
Moving Violation	Count of all stops where stop reason is "moving violation"
Suspicion of DWI	Count of all stops where stop reason is "suspicion of DWI"
Investigatory/Pretextual Stops	Count of all stops where stop reason is "investigatory stop" or "vehicle equipment"
Investigatory Stop	Count of all stops where stop reason is "investigatory stop"
Vehicle Equipment	Count of all stops where stop reason is "vehicle equipment"
Externally Generated Stop	Count of all stops where stop reason is "externally generated stop"
Multiple Reasons - Moving Violation & Suspicion of DWI	Count of all stops where stop reasons include both "moving violation" and "suspicion of DWI"
Multiple Reasons - Moving Violation & Vehicle Equipment	Count of all stops where stop reasons include both "moving violation" and "vehicle equipment"
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	Count of all stops where stop reasons include both "suspicion of DWI" and "vehicle equipment"
Unknown Stop Reason	Count of all stops where stop reason is "unknown"
Outcomes (excl. EGS)	
Ticket	Count of all stops where at least one ticket was issued.
Warning	Count of all stops where at least one warning was issued.
No action taken	Count of all stops where no action was taken was issued.
Arrest for violation	Count of all stops where there was an arrest for violation.
Arrest for warrant	Count of all stops where there was an arrest for warrant.
Searches	
Total stops with no search	Count of all stops where search reason was "no search"
No Search & Contraband & Arrest for violation	Count of all stops where search reason was "no search" and stop search outcome was "contraband" and there was an arrest for violation
No Search & Contraband & No Arrest	Count of all stops where search reason was "no search" and stop search outcome was "contraband" and there was not an arrest for violation
No Search (all others)	Count of all stops where search reason was "no search" and stop search outcome was not "contraband"
Total Stops with Unknown Search	Count of all stops where search reason was "unknown"
Total Stops with Search	Count of all stops where search reason was one of "probable cause," "reasonable suspicion," or "warrant"
Search with Probable Cause (PC)	Count of all stops where search reason was "probable cause"
Stops with PC Searches, No contraband	Count of all stops where search reason was "probable cause" and search outcome was "no contraband" or "no search"

Variable	Formula
Stops with PC Searches, Unknown contraband	Count of all stops where search reason was "probable cause" and search outcome was "unknown"
Stops with PC Searches, Contraband	Count of all stops where search reason was "probable cause" and search outcome was "contraband"
Outcomes of PC Search*	
Stops with PC Searches, Contraband & Warning, No Action or Unknown*	Count of all stops where search reason was "probable cause" and search outcome was "contraband" and one or more of the following outcomes were recorded: "warning," "no action," or "unknown" but no tickets or arrests
Stops with PC Searches, Contraband and Ticket*	Count of all stops where search reason was "probable cause" and search outcome was "contraband" and one or more tickets were issued but no arrest
Stops with PC Searches, Contraband and Arrest*	Count of all stops where search reason was "probable cause" and search outcome was "contraband" and one or more arrests were made (for Violation or Warrant)
Search with Reasonable Suspicion (RS)	Count of all stops where search reason was "reasonable suspicion"
Stops with RS Searches, No contraband	Count of all stops where search reason was "reasonable suspicion" and search outcome was "no contraband" or "no search"
Stops with RS Searches, Unknown contraband	Count of all stops where search reason was "reasonable suspicion" and search outcome was "unknown"
Stops with RS Searches, Contraband	Count of all stops where search reason was "reasonable suspicion" and search outcome was "contraband"
Outcomes of RS Search*	
Stops with RS Searches, Contraband & Warning, No Action or Unknown*	Count of all stops where search reason was "reasonable suspicion" and search outcome was "contraband" and one or more of the following outcomes were recorded: "warning," "no action," or "unknown" but no tickets or arrests
Stops with RS Searches, Contraband & Ticket*	Count of all stops where search reason was "reasonable suspicion" and search outcome was "contraband" and one or more tickets were issued but no arrest
Stops with RS Searches, Contraband & Arrest*	Count of all stops where search reason was "reasonable suspicion" and search outcome was "contraband" and one or more arrests were made (for Violation or Warrant)
Search with Warrant	Count of all stops where search reason was "warrant".
Stops with Warrant Searches, No contraband	Count of all stops where search reason was "warrant" and search outcome was "no contraband" or "no search"
Stops with Warrant Searches, Unknown contraband	Count of all stops where search reason was "warrant" and search outcome was "unknown"
Stops with Warrant Searches, Contraband	Count of all stops where search reason was "warrant" and search outcome was "contraband"
Outcomes of Warrant Search*	
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown*	Count of all stops where search reason was "warrant" and search outcome was "contraband" and one or more of the following outcomes were recorded: "warning," "no action," or "unknown" but no tickets or arrests
Stops with Warrant Searches, Contraband & Ticket*	Count of all stops where search reason was "warrant" and search outcome was "contraband" and one or more tickets were issued but no arrest

Variable	Formula
Stops with Warrant Searches, Contraband & Arrest*	Count of all stops where search reason was "warrant" and search outcome was "contraband" and one or more arrests were made
Racial Shares of Stops	
Including externally generated stops	Number of stops for a race divided by number of stops for all races
Excluding externally generated stops	Number of non-EGS for a race divided by number of non-EGS for all races
Racial share of stops (ACS)	Percentage of area residents of a particular race as determined by the American Community Survey (ACS) five-year estimates for 2013-2017 (See https://www.census.gov/programs-surveys/acs)
Racial share of stops (DMV accident data)	Percentage of area drivers of a particular race as determined by Vermont DMV Accident data for 2013-18.
Disparity Index (using ACS)	For a particular race, the Disparity Index (ACS) is the % of non-EGS for that race divided by the % of area residents for that race based on the ACS 5-year estimates from 2013-2017.
Disparity Index (using DMV Accident data)	For a particular race, the Disparity Index (DMV) is the % of non-EGS stops for that race by the % of area drivers for that race based on Vermont DMV accident data for 2013-2018.
Stop Reason as % of All Stops	
Safety Stops	% of all stops where stop reason is "moving violation" or "suspicion of DWI"
Moving Violation	% of all stops where stop reason is "moving violation"
Suspicion of DWI	% of all stops where stop reason is "suspicion of DWI"
Investigatory/Pretextual Stops	% of all stops where stop reason is "investigatory stop" or "vehicle equipment"
Investigatory Stops	% of all stops where stop reason is "investigatory stop"
Vehicle Equipment	% of all stops where stop reason is "vehicle equipment"
Externally Generated Stops	% of all stops where stop reason is "externally generated stop"
Multiple Reasons	% of all stops where there are multiple stop reasons in the following combinations: "moving violation" and "suspicion of DWI" or "moving violation" and "vehicle equipment" or "suspicion of DWI" and "vehicle equipment"
Unknown Reason	% of all stops where stop reason is "unknown"
Outcome Rates as a % of All Stops	
Warning Rate	% of non-EGS stops where at least one warning was issued
Ticket Rate	% of non-EGS stops where at least one ticket was issued
Arrest for Violation Rate	% of non-EGS stops where there was an arrest for violation
Arrest for Warrant Rate	% of non-EGS stops where there was an arrest for warrant
No Action Rate	% of non-EGS stops where there was no action taken
Search Rates	
Search rate (excl. searches on warrant)	% of non-EGS stops where the search reason was "probable cause" or "reasonable suspicion"

Variable	Formula
Search rate (incl. searches on warrant)	% of non-EGS stops where the search reason was "probable cause," "reasonable suspicion," or "warrant search"
Hit rates (as a % of PC, RS, & Warrant Searches)	
Hit rates (incl. all outcomes)	% of non-EGS stops where the search reason was "probable cause," "reasonable suspicion," or "warrant" and contraband was found
Hit rates (excl. warnings as outcomes)	% of non-EGS where the search reason was "probable cause," "reasonable suspicion," or "warrant" and contraband was found, and the stop resulted in at least one ticket or arrest
Hit rates (outcome = arrest)	% of non-EGS stops where the search reason was "probable cause," "reasonable suspicion." or "warrant" and contraband was found, and the stop resulted in an arrest for violation or warrant

* Does not appear in all reports

Table A.4. Agency Raw Data

The following tables present traffic stop data for individual agencies. In the top panels, we present the raw data, and in the lower panels, use those data to calculate relevant percentages.

The reader is cautioned that for some of those percentages, the sample sizes are so small as to make comparisons across racial groups unreliable. As a rule of thumb, if an event has occurred less than 10 times, that sample size is too small. For example, let's say that an agency has searched 8 Black drivers from 2014-19. The search rate (the number of searches of Black drivers divided by the number of stops of Black drivers) in this case should be viewed with caution. More years of data will expand sample sizes and make statistical inferences more reliable, even for smaller towns.

Table A.5. All Police Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	355,513	13,759	6,722	4,197	278	16,830	397,299
Excluding externally generated stops	348,435	13,406	6,607	4,120	272	16,549	389,389
Reasons For Stops							
Safety Stops	246,458	8,854	4,975	2,862	198	9,755	273,102
Moving Violation	245,718	8,810	4,960	2,851	196	9,748	272,283
Suspicion of DWI	740	44	15	11	2	7	819
Investigatory/Pretextual Stops	87,799	3,930	1,391	1,133	65	2,120	96,438
Investigatory Stop	5,008	209	53	44	5	214	5,533
Vehicle Equipment	82,791	3,721	1,338	1,089	60	1,906	90,905
Externally Generated Stop	7,078	353	115	77	6	281	7,910
Multiple Reasons - Moving Violation & Suspicion of DWI	24	0	0	0	0	1	25
Multiple Reasons - Moving Violation & Vehicle Equipment	663	25	6	9	0	15	718
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	7	1	0	0	0	0	8
Unknown Stop Reason	13,488	596	235	116	9	4,658	19,102
Outcomes							
Ticket	112,090	4,375	2,191	1,725	84	4,254	124,719
Warning	223,099	8,343	4,190	2,113	175	8,284	246,204
No Action Taken	4,979	351	112	207	1	61	5,711
Arrest for violation	4,278	271	60	68	7	38	4,722
Arrest for warrant	204	22	3	2	0	5	236
Searches							
Total Stops with No Search	335,269	12,706	6,462	3,967	266	11,673	370,343
No Search & Contraband & Arrest for violation	87	6	1	3	0	0	97
No Search & Contraband & No arrest	604	28	12	13	2	17	676
No Search (all others)	334,578	12,672	6,449	3,951	264	11,656	369,570
Total Stops with Unknown Search	9,610	272	103	82	4	4,782	14,853
Total Stops with Search	3,556	428	42	71	2	94	4,193
Search with Probable Cause (PC)	2,241	259	24	48	2	59	2,633
Stops with PC Searches, No contraband	444	58	6	12	1	13	534
Stops with PC Searches, Unknown contraband	48	2	0	2	0	3	55
Stops with PC Searches, Contraband	1,749	199	18	34	1	43	2,044
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	319	48	3	4	0	15	389
Stops with PC Searches, Contraband and Ticket	1,060	124	10	26	0	23	1,243
Stops with PC Searches, Contraband and Arrest	370	27	5	4	1	5	412
Search with Reasonable Suspicion (RS)	1,068	151	13	19	0	29	1,280
Stops with RS Searches, No contraband	376	65	7	11	0	10	469
Stops with RS Searches, Unknown contraband	24	5	1	0	0	0	30
Stops with RS Searches, Contraband	668	81	5	8	0	19	781
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	164	21	2	0	0	9	196
Stops with RS Searches, Contraband & Ticket	396	43	2	6	0	9	456
Stops with RS Searches, Contraband & Arrest	108	17	1	2	0	1	129
Search with Warrant	247	18	5	4	0	6	280
Stops with Warrant Searches, No contraband	96	7	4	3	0	2	112
Stops with Warrant Searches, Unknown contraband	17	1	0	0	0	0	18
Stops with Warrant Searches, Contraband	134	10	1	1	0	4	150
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	18	1	0	0	0	0	19
Stops with Warrant Searches, Contraband & Ticket	57	4	1	1	0	3	66
Stops with Warrant Searches, Contraband & Arrest	59	5	0	0	0	1	65
Racial Shares of Stops							
Including externally generated stops	93.4%	3.6%	1.8%	1.1%	0.1%	4.4%	
Excluding externally generated stops	93.5%	3.6%	1.8%	1.1%	0.1%	4.4%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)	93.1%	3.0%	2.8%	0.8%	0.4%		
Disparity Index (using local ACS)	1.00	2.27	0.85		0.06		
Disparity Index (using county ACS)	1.00	2.27	0.85		0.06		
Disparity Index (using DMV Accident data)	1.00	1.20	0.63	1.38	0.18		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	119	275	105		7		119
Stop Reason as % of All Stops							
Safety Stops	69.3%	64.4%	74.0%	68.2%	71.2%	58.0%	69.2%
Moving Violation	69.1%	64.0%	73.8%	67.9%	70.5%	57.9%	69.0%
Suspicion of DWI	0.2%	0.3%	0.3%	0.3%	0.7%	0.0%	0.2%
Investigatory/Pretextual Stops	24.7%	28.6%	20.7%	27.0%	23.4%	12.6%	24.8%
Investigatory Stops	1.4%	1.5%	0.8%	1.1%	1.8%	1.3%	1.4%
Vehicle Equipment	23.3%	27.0%	19.9%	26.0%	21.6%	11.3%	23.4%
Externally Generated Stops	2.0%	2.6%	1.7%	1.8%	2.2%	1.7%	2.0%
Multiple Reasons	0.2%	0.2%	0.1%	0.2%	0.0%	0.1%	0.2%
Unknown Reason	3.8%	4.3%	3.5%	2.8%	3.2%	27.7%	3.8%
Outcome Rates as a % of All Stops							
Warning Rate	64.0%	62.2%	63.4%	51.3%	64.3%	50.1%	63.8%
Ticket Rate	32.2%	32.6%	33.2%	41.9%	30.9%	25.7%	32.3%
Arrest for Violation Rate	1.2%	2.0%	0.9%	1.7%	2.6%	0.2%	1.3%
Arrest for Warrant Rate	0.1%	0.2%	0.1%	0.1%	0.0%	0.0%	0.1%
No Action Rate	1.4%	2.6%	1.7%	5.0%	0.4%	0.4%	1.5%
Search Rates							
Search rate (excl. searches on warrant)	1.0%	3.1%	0.6%	1.6%	0.7%	0.5%	1.0%
Search rate (incl. searches on warrant)	1.0%	3.2%	0.6%	1.7%	0.7%	0.6%	1.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	71.7%	67.8%	57.1%	60.6%	50.0%	70.2%	71.0%
Hit rates (excl. warnings as outcomes)	57.6%	51.4%	45.2%	54.9%	50.0%	44.7%	56.8%
Hit rates (outcome = arrest)	15.1%	11.5%	14.3%	8.5%	50.0%	7.5%	14.6%

Table A.5. All Sheriffs Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	118,797	1,786	1,422	863	84	2,797	125,749
Excluding externally generated stops	118,196	1,773	1,419	851	83	2,784	125,106
Reasons For Stops							
Safety Stops	90,177	1,321	945	580	73	2,169	95,265
Moving Violation	90,096	1,320	945	578	73	2,166	95,178
Suspicion of DWI	81	1	0	2	0	3	87
Investigatory/Pretextual Stops	11,714	215	69	50	3	191	12,242
Investigatory Stop	424	8	1	1	1	12	447
Vehicle Equipment	11,290	207	68	49	2	179	11,795
Externally Generated Stop	601	13	3	12	1	13	643
Multiple Reasons - Moving Violation & Suspicion of DWI	4	0	0	0	0	0	4
Multiple Reasons - Moving Violation & Vehicle Equipment	344	7	1	3	0	2	357
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	3	0	0	0	0	0	3
Unknown Stop Reason	15,956	230	404	218	7	422	17,237
Outcomes							
Ticket	59,222	891	691	422	54	1,718	62,998
Warning	47,184	731	351	220	22	791	49,299
No Action Taken	151	2	1	0	0	4	158
Arrest for violation	518	9	2	8	0	10	547
Arrest for warrant	34	2	0	0	0	1	37
Searches							
Total Stops with No Search	104,187	1,570	1,029	631	75	2,412	109,904
No Search & Contraband & Arrest for violation	13	1	0	0	0	0	14
No Search & Contraband & No arrest	174	3	1	0	1	0	179
No Search (all others)	104,000	1,566	1,028	631	74	2,412	109,711
Total Stops with Unknown Search	13,485	184	387	215	8	363	14,642
Total Stops with Search	524	19	3	5	0	9	560
Search with Probable Cause (PC)	257	11	1	2	0	5	276
Stops with PC Searches, No contraband	35	3	1	0	0	0	39
Stops with PC Searches, Unknown contraband	9	0	0	0	0	2	11
Stops with PC Searches, Contraband	213	8	0	2	0	3	226
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	17	0	0	0	0	0	17
Stops with PC Searches, Contraband and Ticket	168	6	0	1	0	3	178
Stops with PC Searches, Contraband and Arrest	28	2	0	1	0	0	31
Search with Reasonable Suspicion (RS)	174	8	1	3	0	3	189
Stops with RS Searches, No contraband	43	4	1	0	0	1	49
Stops with RS Searches, Unknown contraband	7	1	0	2	0	0	10
Stops with RS Searches, Contraband	124	3	0	1	0	2	130
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	20	0	0	0	0	0	20
Stops with RS Searches, Contraband & Ticket	92	3	0	0	0	2	97
Stops with RS Searches, Contraband & Arrest	12	0	0	1	0	0	13
Search with Warrant	93	0	1	0	0	1	95
Stops with Warrant Searches, No contraband	83	0	1	0	0	0	84
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	1	1
Stops with Warrant Searches, Contraband	10	0	0	0	0	0	10
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	96.6%	1.5%	1.2%	0.7%	0.1%	2.3%	
Excluding externally generated stops	96.6%	1.4%	1.2%	0.7%	0.1%	2.3%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)	95.9%	1.1%	1.9%	0.7%	0.4%		
Disparity Index (using local ACS)	1.02	0.91	0.56		0.05		
Disparity Index (using county ACS)	1.02	0.91	0.56		0.05		
Disparity Index (using DMV Accident data)	1.01	1.32	0.61	0.99	0.17		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	41	34	22		2		40
Stop Reason as % of All Stops							
Safety Stops	75.9%	74.0%	66.5%	67.2%	86.9%	77.6%	75.7%
Moving Violation	75.8%	73.9%	66.5%	67.0%	86.9%	77.4%	75.7%
Suspicion of DWI	0.1%	0.1%	0.0%	0.2%	0.0%	0.1%	0.1%
Investigatory/Pretextual Stops	9.9%	12.0%	4.9%	5.8%	3.6%	6.8%	9.8%
Investigatory Stops	0.4%	0.5%	0.1%	0.1%	1.2%	0.4%	0.4%
Vehicle Equipment	9.5%	11.6%	4.8%	5.7%	2.4%	6.4%	9.5%
Externally Generated Stops	0.5%	0.7%	0.2%	1.4%	1.2%	0.5%	0.5%
Multiple Reasons	0.3%	0.4%	0.1%	0.4%	0.0%	0.1%	0.3%
Unknown Reason	13.4%	12.9%	28.4%	25.3%	8.3%	15.1%	13.7%
Outcome Rates as a % of All Stops							
Warning Rate	39.9%	41.2%	24.7%	25.9%	26.5%	28.4%	39.7%
Ticket Rate	50.1%	50.3%	48.7%	49.6%	65.1%	61.7%	50.1%
Arrest for Violation Rate	0.4%	0.5%	0.1%	0.9%	0.0%	0.4%	0.4%
Arrest for Warrant Rate	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.4%	1.1%	0.1%	0.6%	0.0%	0.3%	0.4%
Search rate (incl. searches on warrant)	0.4%	1.1%	0.2%	0.6%	0.0%	0.3%	0.5%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	66.2%	57.9%	0.0%	60.0%	NA	55.6%	65.5%
Hit rates (excl. warnings as outcomes)	58.8%	57.9%	0.0%	60.0%	NA	55.6%	58.4%
Hit rates (outcome = arrest)	8.4%	10.5%	0.0%	40.0%	NA	0.0%	8.7%

Table A.5. VSP - All Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	270,390	7,294	5,643	3,910	257	1,373	288,867
Excluding externally generated stops	265,601	7,134	5,589	3,831	250	1,347	283,752
Reasons For Stops							
Safety Stops	200,947	5,865	5,055	3,269	213	1,096	216,445
Moving Violation	200,120	5,840	5,037	3,254	213	1,095	215,559
Suspicion of DWI	827	25	18	15	0	1	886
Investigatory/Pretextual Stops	63,487	1,238	525	553	36	198	66,037
Investigatory Stop	3,950	84	24	30	0	14	4,102
Vehicle Equipment	59,537	1,154	501	523	36	184	61,935
Externally Generated Stop	4,789	160	54	79	7	26	5,115
Multiple Reasons - Moving Violation & Suspicion of DWI	14	0	0	1	0	1	16
Multiple Reasons - Moving Violation & Vehicle Equipment	595	14	1	1	0	4	615
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	7	0	0	0	0	0	7
Unknown Stop Reason	551	17	8	7	1	48	632
Outcomes							
Ticket	101,941	3,080	2,839	1,754	114	535	110,263
Warning	160,486	3,894	2,685	2,000	133	771	169,969
No Action Taken	1,499	41	18	22	0	3	1,583
Arrest for violation	3,601	157	53	65	4	4	3,884
Arrest for warrant	120	3	0	4	0	0	127
Searches							
Total Stops with No Search	263,504	6,959	5,565	3,753	247	1,291	281,319
No Search & Contraband & Arrest for violation	50	0	1	2	0	0	53
No Search & Contraband & No arrest	180	8	2	4	1	2	197
No Search (all others)	263,274	6,951	5,562	3,747	246	1,289	281,069
Total Stops with Unknown Search	239	6	4	2	0	48	299
Total Stops with Search	1,858	169	20	76	3	8	2,134
Search with Probable Cause (PC)	1,416	123	11	53	1	7	1,611
Stops with PC Searches, No contraband	151	14	1	8	0	0	174
Stops with PC Searches, Unknown contraband	7	0	0	0	0	0	7
Stops with PC Searches, Contraband	1,258	109	10	45	1	7	1,430
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	164	23	1	10	0	0	198
Stops with PC Searches, Contraband and Ticket	782	59	5	25	1	6	878
Stops with PC Searches, Contraband and Arrest	312	27	4	10	0	1	354
Search with Reasonable Suspicion (RS)	326	33	7	19	1	1	387
Stops with RS Searches, No contraband	112	15	2	10	1	0	140
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	213	18	5	9	0	1	246
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	56	4	2	4	0	0	66
Stops with RS Searches, Contraband & Ticket	100	9	2	3	0	0	114
Stops with RS Searches, Contraband & Arrest	57	5	1	2	0	1	66
Search with Warrant	116	13	2	4	1	0	136
Stops with Warrant Searches, No contraband	20	1	1	0	0	0	22
Stops with Warrant Searches, Unknown contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband	94	12	1	4	1	0	112
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	6	2	0	1	0	0	9
Stops with Warrant Searches, Contraband & Ticket	25	5	0	0	0	0	30
Stops with Warrant Searches, Contraband & Arrest	63	5	1	3	1	0	73
Racial Shares of Stops							
Including externally generated stops	94.1%	2.5%	2.0%	1.4%	0.1%	0.5%	
Excluding externally generated stops	94.1%	2.5%	2.0%	1.4%	0.1%	0.5%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)	94.1%	2.2%	2.2%	1.2%	0.4%		
Disparity Index (using local ACS)	1.00	1.60	0.96		0.07		
Disparity Index (using county ACS)	1.00	1.60	0.96		0.07		
Disparity Index (using DMV Accident data)	1.00	1.15	0.90	1.13	0.22		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	96	151	93		6		96
Stop Reason as % of All Stops							
Safety Stops	74.3%	80.4%	89.6%	83.6%	82.9%	79.8%	74.9%
Moving Violation	74.0%	80.1%	89.3%	83.2%	82.9%	79.8%	74.6%
Suspicion of DWI	0.3%	0.3%	0.3%	0.4%	0.0%	0.1%	0.3%
Investigatory/Pretextual Stops	23.5%	17.0%	9.3%	14.1%	14.0%	14.4%	22.9%
Investigatory Stops	1.5%	1.2%	0.4%	0.8%	0.0%	1.0%	1.4%
Vehicle Equipment	22.0%	15.8%	8.9%	13.4%	14.0%	13.4%	21.5%
Externally Generated Stops	1.8%	2.2%	1.0%	2.0%	2.7%	1.9%	1.8%
Multiple Reasons	0.2%	0.2%	0.0%	0.1%	0.0%	0.4%	0.2%
Unknown Reason	0.2%	0.2%	0.1%	0.2%	0.4%	3.5%	0.2%
Outcome Rates as a % of All Stops							
Warning Rate	60.4%	54.6%	48.0%	52.2%	53.2%	57.2%	59.9%
Ticket Rate	38.4%	43.2%	50.8%	45.8%	45.6%	39.7%	38.9%
Arrest for Violation Rate	1.4%	2.2%	1.0%	1.7%	1.6%	0.3%	1.4%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
No Action Rate	0.6%	0.6%	0.3%	0.6%	0.0%	0.2%	0.6%
Search Rates							
Search rate (excl. searches on warrant)	0.7%	2.2%	0.3%	1.9%	0.8%	0.6%	0.7%
Search rate (incl. searches on warrant)	0.7%	2.4%	0.4%	2.0%	1.2%	0.6%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	84.2%	82.3%	80.0%	76.3%	66.7%	100.0%	83.7%
Hit rates (excl. warnings as outcomes)	72.1%	65.1%	65.0%	56.6%	66.7%	100.0%	70.9%
Hit rates (outcome = arrest)	23.3%	21.9%	30.0%	19.7%	33.3%	25.0%	23.1%

Table A.5. Barre City Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	4,764	120	18	37	4	27	4,970
Excluding externally generated stops	4,700	118	18	37	4	26	4,903
Reasons For Stops							
Safety Stops	3,190	83	11	25	4	3	3,316
Moving Violation	3,184	83	11	25	4	3	3,310
Suspicion of DWI	6	0	0	0	0	0	6
Investigatory/Pretextual Stops	1,299	28	6	10	0	0	1,343
Investigatory Stop	59	3	0	0	0	0	62
Vehicle Equipment	1,240	25	6	10	0	0	1,281
Externally Generated Stop	64	2	0	0	0	1	67
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	19	0	0	0	0	0	19
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	192	7	1	2	0	23	225
Outcomes							
Ticket	772	25	0	3	2	0	802
Warning	3,465	83	16	31	2	4	3,601
No Action Taken	29	0	0	0	0	0	29
Arrest for violation	89	5	0	1	0	0	95
Arrest for warrant	11	0	0	0	0	0	11
Searches							
Total Stops with No Search	4,581	118	18	36	4	3	4,760
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	9	0	0	0	0	0	9
No Search (all others)	4,572	118	18	36	4	3	4,751
Total Stops with Unknown Search	92	0	0	0	0	23	115
Total Stops with Search	27	0	0	1	0	0	28
Search with Probable Cause (PC)	15	0	0	1	0	0	16
Stops with PC Searches, No contraband	4	0	0	0	0	0	4
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	10	0	0	1	0	0	11
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Arrest	6	0	0	1	0	0	7
Search with Reasonable Suspicion (RS)	10	0	0	0	0	0	10
Stops with RS Searches, No contraband	5	0	0	0	0	0	5
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	5	0	0	0	0	0	5
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	2	0	0	0	0	0	2
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	2	0	0	0	0	0	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	96.4%	2.4%	0.4%	0.7%	0.1%	0.5%	
Excluding externally generated stops	96.4%	2.4%	0.4%	0.8%	0.1%	0.5%	
Driver Percentage (using local ACS)	96.3%	2.2%	1.1%		0.4%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	96.3%	1.6%	1.4%	0.6%	0.1%		
Disparity Index (using local ACS)	1.01	1.11	0.34		0.21		
Disparity Index (using county ACS)	1.01	1.74	0.27		0.08		
Disparity Index (using DMV Accident data)	1.00	1.51	0.26	1.26	0.82		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	150	171	51		31		149
Stop Reason as % of All Stops							
Safety Stops	67.0%	69.2%	61.1%	67.6%	100.0%	11.1%	67.0%
Moving Violation	66.8%	69.2%	61.1%	67.6%	100.0%	11.1%	66.9%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	27.3%	23.3%	33.3%	27.0%	0.0%	0.0%	27.2%
Investigatory Stops	1.2%	2.5%	0.0%	0.0%	0.0%	0.0%	1.3%
Vehicle Equipment	26.0%	20.8%	33.3%	27.0%	0.0%	0.0%	25.9%
Externally Generated Stops	1.3%	1.7%	0.0%	0.0%	0.0%	3.7%	1.3%
Multiple Reasons	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	4.0%	5.8%	5.6%	5.4%	0.0%	85.2%	4.1%
Outcome Rates as a % of All Stops							
Warning Rate	73.7%	70.3%	88.9%	83.8%	50.0%	15.4%	73.8%
Ticket Rate	16.4%	21.2%	0.0%	8.1%	50.0%	0.0%	16.4%
Arrest for Violation Rate	1.9%	4.2%	0.0%	2.7%	0.0%	0.0%	2.0%
Arrest for Warrant Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
No Action Rate	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	0.0%	0.0%	2.7%	0.0%	0.0%	0.5%
Search rate (incl. searches on warrant)	0.6%	0.0%	0.0%	2.7%	0.0%	0.0%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	63.0%	NA	NA	100.0%	NA	NA	64.3%
Hit rates (excl. warnings as outcomes)	44.4%	NA	NA	100.0%	NA	NA	46.4%
Hit rates (outcome = arrest)	25.9%	NA	NA	100.0%	NA	NA	28.6%

Table A.5. Barre Town Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	9,068	88	28	34	0	7	9,225
Excluding externally generated stops	8,787	86	27	32	0	7	8,939
Reasons For Stops							
Safety Stops	7,218	68	26	27	0	4	7,343
Moving Violation	7,216	68	26	27	0	4	7,341
Suspicion of DWI	2	0	0	0	0	0	2
Investigatory/Pretextual Stops	1,478	14	1	5	0	1	1,499
Investigatory Stop	23	0	0	0	0	0	23
Vehicle Equipment	1,455	14	1	5	0	1	1,476
Externally Generated Stop	281	2	1	2	0	0	286
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	5	0	0	0	0	0	5
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	86	4	0	0	0	2	92
Outcomes							
Ticket	1,912	33	7	14	0	1	1,967
Warning	6,872	53	20	18	0	5	6,968
No Action Taken	2	0	0	0	0	0	2
Arrest for violation	10	0	0	0	0	0	10
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	8,751	86	27	32	0	5	8,901
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	8	1	0	0	0	0	9
No Search (all others)	8,743	85	27	32	0	5	8,892
Total Stops with Unknown Search	8	0	0	0	0	2	10
Total Stops with Search	28	0	0	0	0	0	28
Search with Probable Cause (PC)	21	0	0	0	0	0	21
Stops with PC Searches, No contraband	9	0	0	0	0	0	9
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	12	0	0	0	0	0	12
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	10	0	0	0	0	0	10
Stops with PC Searches, Contraband and Arrest	2	0	0	0	0	0	2
Search with Reasonable Suspicion (RS)	7	0	0	0	0	0	7
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	7	0	0	0	0	0	7
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	7	0	0	0	0	0	7
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	98.4%	1.0%	0.3%	0.4%		0.1%	
Excluding externally generated stops	98.4%	1.0%	0.3%	0.4%		0.1%	
Driver Percentage (using local ACS)	96.4%	2.7%	0.5%		0.5%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	98.2%	0.9%	0.4%	0.5%			
Disparity Index (using local ACS)	1.02	0.36	0.61				
Disparity Index (using county ACS)	1.03	0.69	0.22				
Disparity Index (using DMV Accident data)	1.00	1.07	0.76	0.72			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	307	104	211				300
Stop Reason as % of All Stops							
Safety Stops	79.6%	77.3%	92.9%	79.4%	0.0%	57.1%	79.6%
Moving Violation	79.6%	77.3%	92.9%	79.4%	0.0%	57.1%	79.6%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	16.3%	15.9%	3.6%	14.7%	0.0%	14.3%	16.3%
Investigatory Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	16.1%	15.9%	3.6%	14.7%	0.0%	14.3%	16.0%
Externally Generated Stops	3.1%	2.3%	3.6%	5.9%	0.0%	0.0%	3.1%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	1.0%	4.6%	0.0%	0.0%	0.0%	28.6%	1.0%
Outcome Rates as a % of All Stops							
Warning Rate	78.2%	61.6%	74.1%	56.3%	0.0%	71.4%	78.0%
Ticket Rate	21.8%	38.4%	25.9%	43.8%	0.0%	14.3%	22.0%
Arrest for Violation Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	67.9%	NA	NA	NA	NA	NA	67.9%
Hit rates (excl. warnings as outcomes)	67.9%	NA	NA	NA	NA	NA	67.9%
Hit rates (outcome = arrest)	7.1%	NA	NA	NA	NA	NA	7.1%

Table A.5. Bellows Falls Raw Traffic Stop Data, 2014-19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	4,990	125	46	55	1	426	5,643
Excluding externally generated stops	4,973	125	46	55	1	425	5,625
Reasons For Stops							
Safety Stops	2,805	82	39	39	0	287	3,252
Moving Violation	2,786	82	39	39	0	286	3,232
Suspicion of DWI	19	0	0	0	0	1	20
Investigatory/Pretextual Stops	1,755	33	7	13	1	52	1,861
Investigatory Stop	121	5	0	0	0	4	130
Vehicle Equipment	1,634	28	7	13	1	48	1,731
Externally Generated Stop	17	0	0	0	0	1	18
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	7	1	0	0	0	1	9
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	405	9	0	3	0	85	502
Outcomes							
Ticket	1,146	37	17	15	0	110	1,325
Warning	3,626	81	29	37	1	259	4,033
No Action Taken	19	0	0	0	0	1	20
Arrest for violation	122	3	0	2	0	0	127
Arrest for warrant	4	1	0	1	0	1	7
Searches							
Total Stops with No Search	4,043	92	45	45	1	314	4,540
No Search & Contraband & Arrest for violation	2	0	0	0	0	0	2
No Search & Contraband & No arrest	19	1	0	0	0	1	21
No Search (all others)	4,022	91	45	45	1	313	4,517
Total Stops with Unknown Search	803	17	1	5	0	100	926
Total Stops with Search	127	16	0	5	0	11	159
Search with Probable Cause (PC)	63	8	0	4	0	4	79
Stops with PC Searches, No contraband	6	0	0	0	0	0	6
Stops with PC Searches, Unknown contraband	0	0	0	0	0	1	1
Stops with PC Searches, Contraband	57	8	0	4	0	3	72
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	11	3	0	2	0	2	18
Stops with PC Searches, Contraband and Ticket	30	3	0	1	0	1	35
Stops with PC Searches, Contraband and Arrest	16	2	0	1	0	0	19
Search with Reasonable Suspicion (RS)	59	8	0	1	0	7	75
Stops with RS Searches, No contraband	23	4	0	0	0	2	29
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	36	4	0	1	0	5	46
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	8	2	0	0	0	2	12
Stops with RS Searches, Contraband & Ticket	18	1	0	0	0	3	22
Stops with RS Searches, Contraband & Arrest	10	1	0	1	0	0	12
Search with Warrant	5	0	0	0	0	0	5
Stops with Warrant Searches, No contraband	4	0	0	0	0	0	4
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	95.6%	2.4%	0.9%	1.1%	0.0%	8.2%	
Excluding externally generated stops	95.6%	2.4%	0.9%	1.1%	0.0%	8.2%	
Driver Percentage (using local ACS)	93.5%	2.7%		3.8%			
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	96.2%	0.5%		2.2%	1.1%		
Disparity Index (using local ACS)	1.03	0.90		0.01			
Disparity Index (using county ACS)	1.01	1.43	0.56		0.01		
Disparity Index (using DMV Accident data)	0.99	4.81		0.48	0.02		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	399	328			2		385
Stop Reason as % of All Stops							
Safety Stops	56.2%	65.6%	84.8%	70.9%	0.0%	67.4%	56.8%
Moving Violation	55.8%	65.6%	84.8%	70.9%	0.0%	67.1%	56.5%
Suspicion of DWI	0.4%	0.0%	0.0%	0.0%	0.0%	0.2%	0.4%
Investigatory/Pretextual Stops	35.2%	26.4%	15.2%	23.6%	100.0%	12.2%	34.7%
Investigatory Stops	2.4%	4.0%	0.0%	0.0%	0.0%	0.9%	2.4%
Vehicle Equipment	32.8%	22.4%	15.2%	23.6%	100.0%	11.3%	32.3%
Externally Generated Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%
Multiple Reasons	0.2%	0.8%	0.0%	0.0%	0.0%	0.2%	0.2%
Unknown Reason	8.1%	7.2%	0.0%	5.5%	0.0%	20.0%	8.0%
Outcome Rates as a % of All Stops							
Warning Rate	72.9%	64.8%	63.0%	67.3%	100.0%	60.9%	72.6%
Ticket Rate	23.0%	29.6%	37.0%	27.3%	0.0%	25.9%	23.4%
Arrest for Violation Rate	2.5%	2.4%	0.0%	3.6%	0.0%	0.0%	2.4%
Arrest for Warrant Rate	0.1%	0.8%	0.0%	1.8%	0.0%	0.2%	0.1%
No Action Rate	0.4%	0.0%	0.0%	0.0%	0.0%	0.2%	0.4%
Search Rates							
Search rate (excl. searches on warrant)	2.5%	12.8%	0.0%	9.1%	0.0%	2.6%	2.8%
Search rate (incl. searches on warrant)	2.6%	12.8%	0.0%	9.1%	0.0%	2.6%	2.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	74.0%	75.0%	NA	100.0%	NA	72.7%	75.0%
Hit rates (excl. warnings as outcomes)	59.1%	43.8%	NA	60.0%	NA	36.4%	57.4%
Hit rates (outcome = arrest)	21.3%	18.8%	NA	40.0%	NA	0.0%	21.6%

Table A.5. Bennington Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	22,831	649	349	380	26	815	25,050
Excluding externally generated stops	22,490	630	346	370	26	807	24,669
Reasons For Stops							
Safety Stops	16,365	468	313	283	20	599	18,048
Moving Violation	16,350	468	312	281	20	598	18,029
Suspicion of DWI	15	0	1	2	0	1	19
Investigatory/Pretextual Stops	5,459	143	29	76	4	169	5,880
Investigatory Stop	580	15	1	7	1	18	622
Vehicle Equipment	4,879	128	28	69	3	151	5,258
Externally Generated Stop	341	19	3	10	0	8	381
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	73	1	0	1	0	0	75
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	593	18	4	10	2	39	666
Outcomes							
Ticket	14,596	392	263	218	12	426	15,907
Warning	7,187	222	78	137	11	337	7,972
No Action Taken	137	1	0	2	0	6	146
Arrest for violation	340	12	4	13	1	1	371
Arrest for warrant	11	2	0	0	0	0	13
Searches							
Total Stops with No Search	21,921	591	343	360	24	770	24,009
No Search & Contraband & Arrest for violation	13	0	0	0	0	0	13
No Search & Contraband & No arrest	29	4	1	1	0	0	35
No Search (all others)	21,879	587	342	359	24	770	23,961
Total Stops with Unknown Search	292	8	1	3	1	34	339
Total Stops with Search	277	31	2	7	1	3	321
Search with Probable Cause (PC)	197	21	2	6	1	3	230
Stops with PC Searches, No contraband	45	5	0	1	1	1	53
Stops with PC Searches, Unknown contraband	7	0	0	0	0	0	7
Stops with PC Searches, Contraband	145	16	2	5	0	2	170
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	7	1	0	0	0	0	8
Stops with PC Searches, Contraband and Ticket	97	15	1	4	0	1	118
Stops with PC Searches, Contraband and Arrest	41	0	1	1	0	1	44
Search with Reasonable Suspicion (RS)	70	8	0	1	0	0	79
Stops with RS Searches, No contraband	18	1	0	0	0	0	19
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	51	7	0	1	0	0	59
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	3	1	0	0	0	0	4
Stops with RS Searches, Contraband & Ticket	38	4	0	0	0	0	42
Stops with RS Searches, Contraband & Arrest	10	2	0	1	0	0	13
Search with Warrant	10	2	0	0	0	0	12
Stops with Warrant Searches, No contraband	4	0	0	0	0	0	4
Stops with Warrant Searches, Unknown contraband	0	1	0	0	0	0	1
Stops with Warrant Searches, Contraband	6	1	0	0	0	0	7
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	1	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	94.2%	2.7%	1.4%	1.6%	0.1%	3.4%	
Excluding externally generated stops	94.3%	2.6%	1.5%	1.6%	0.1%	3.4%	
Driver Percentage (using local ACS)	96.2%	0.8%	0.9%		2.1%		
Driver Percentage (using county ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (DMV Accident data)	95.9%	1.7%	1.5%	0.8%	0.1%		
Disparity Index (using local ACS)	1.00	3.35	1.64		0.05		
Disparity Index (using county ACS)	1.00	1.58	2.10		0.07		
Disparity Index (using DMV Accident data)	0.98	1.55	0.97	1.94	1.09		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	654	2,364	1,108		32		659
Stop Reason as % of All Stops							
Safety Stops	71.7%	72.1%	89.7%	74.5%	76.9%	73.5%	72.0%
Moving Violation	71.6%	72.1%	89.4%	74.0%	76.9%	73.4%	71.9%
Suspicion of DWI	0.1%	0.0%	0.3%	0.5%	0.0%	0.1%	0.1%
Investigatory/Pretextual Stops	23.9%	22.0%	8.3%	20.0%	15.4%	20.7%	23.6%
Investigatory Stops	2.5%	2.3%	0.3%	1.8%	3.9%	2.2%	2.5%
Vehicle Equipment	21.4%	19.7%	8.0%	18.2%	11.5%	18.5%	21.1%
Externally Generated Stops	1.5%	2.9%	0.9%	2.6%	0.0%	1.0%	1.5%
Multiple Reasons	0.3%	0.2%	0.0%	0.3%	0.0%	0.0%	0.3%
Unknown Reason	2.6%	2.8%	1.2%	2.6%	7.7%	4.8%	2.6%
Outcome Rates as a % of All Stops							
Warning Rate	32.0%	35.2%	22.5%	37.0%	42.3%	41.8%	32.0%
Ticket Rate	64.9%	62.2%	76.0%	58.9%	46.2%	52.8%	64.9%
Arrest for Violation Rate	1.5%	1.9%	1.2%	3.5%	3.9%	0.1%	1.6%
Arrest for Warrant Rate	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.6%	0.2%	0.0%	0.5%	0.0%	0.7%	0.6%
Search Rates							
Search rate (excl. searches on warrant)	1.2%	4.6%	0.6%	1.9%	3.9%	0.4%	1.3%
Search rate (incl. searches on warrant)	1.2%	4.9%	0.6%	1.9%	3.9%	0.4%	1.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	72.9%	77.4%	100.0%	85.7%	0.0%	66.7%	73.6%
Hit rates (excl. warnings as outcomes)	69.3%	67.7%	100.0%	85.7%	0.0%	66.7%	69.5%
Hit rates (outcome = arrest)	19.9%	6.5%	50.0%	28.6%	0.0%	33.3%	18.9%

Table A.5. Berlin Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	4,695	124	44	23	1	1	4,888
Excluding externally generated stops	4,667	124	44	22	1	1	4,859
Reasons For Stops							
Safety Stops	3,306	84	32	15	1	0	3,438
Moving Violation	3,270	82	32	15	1	0	3,400
Suspicion of DWI	36	2	0	0	0	0	38
Investigatory/Pretextual Stops	1,257	36	12	7	0	0	1,312
Investigatory Stop	48	1	0	0	0	0	49
Vehicle Equipment	1,209	35	12	7	0	0	1,263
Externally Generated Stop	28	0	0	1	0	0	29
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	103	4	0	0	0	1	108
Outcomes							
Ticket	1,052	21	6	7	0	0	1,086
Warning	2,992	83	33	12	1	1	3,122
No Action Taken	65	2	0	0	0	0	67
Arrest for violation	120	7	0	1	0	0	128
Arrest for warrant	2	1	0	0	0	0	3
Searches							
Total Stops with No Search	4,566	115	43	20	1	0	4,745
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	5	0	0	0	0	0	5
No Search (all others)	4,560	115	43	20	1	0	4,739
Total Stops with Unknown Search	17	2	0	0	0	1	20
Total Stops with Search	84	7	1	2	0	0	94
Search with Probable Cause (PC)	60	5	0	1	0	0	66
Stops with PC Searches, No contraband	5	0	0	1	0	0	6
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	55	5	0	0	0	0	60
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	25	2	0	0	0	0	27
Stops with PC Searches, Contraband and Ticket	21	1	0	0	0	0	22
Stops with PC Searches, Contraband and Arrest	9	2	0	0	0	0	11
Search with Reasonable Suspicion (RS)	20	2	1	1	0	0	24
Stops with RS Searches, No contraband	11	1	1	0	0	0	13
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	8	1	0	1	0	0	10
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	1	0	0	0	0	5
Stops with RS Searches, Contraband & Ticket	3	0	0	1	0	0	4
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	4	0	0	0	0	0	4
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband	2	0	0	0	0	0	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.1%	2.5%	0.9%	0.5%	0.0%	0.0%	
Excluding externally generated stops	96.1%	2.6%	0.9%	0.5%	0.0%	0.0%	
Driver Percentage (using local ACS)	96.0%	0.5%	0.9%		2.6%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	96.0%	1.1%	1.3%	0.8%	0.7%		
Disparity Index (using local ACS)	1.01	5.13	1.01		0.01		
Disparity Index (using county ACS)	1.01	1.83	0.65		0.02		
Disparity Index (using DMV Accident data)	1.00	2.32	0.70	0.57	0.03		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	874	4,625	886				870
Stop Reason as % of All Stops							
Safety Stops	70.4%	67.7%	72.7%	65.2%	100.0%	0.0%	70.4%
Moving Violation	69.7%	66.1%	72.7%	65.2%	100.0%	0.0%	69.6%
Suspicion of DWI	0.8%	1.6%	0.0%	0.0%	0.0%	0.0%	0.8%
Investigatory/Pretextual Stops	26.8%	29.0%	27.3%	30.4%	0.0%	0.0%	26.9%
Investigatory Stops	1.0%	0.8%	0.0%	0.0%	0.0%	0.0%	1.0%
Vehicle Equipment	25.8%	28.2%	27.3%	30.4%	0.0%	0.0%	25.8%
Externally Generated Stops	0.6%	0.0%	0.0%	4.4%	0.0%	0.0%	0.6%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	2.2%	3.2%	0.0%	0.0%	0.0%	100.0%	2.2%
Outcome Rates as a % of All Stops							
Warning Rate	64.1%	66.9%	75.0%	54.6%	100.0%	100.0%	64.2%
Ticket Rate	22.5%	16.9%	13.6%	31.8%	0.0%	0.0%	22.4%
Arrest for Violation Rate	2.6%	5.7%	0.0%	4.6%	0.0%	0.0%	2.6%
Arrest for Warrant Rate	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	1.4%	1.6%	0.0%	0.0%	0.0%	0.0%	1.4%
Search Rates							
Search rate (excl. searches on warrant)	1.7%	5.7%	2.3%	9.1%	0.0%	0.0%	1.9%
Search rate (incl. searches on warrant)	1.8%	5.7%	2.3%	9.1%	0.0%	0.0%	1.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	77.4%	85.7%	0.0%	50.0%	NA	NA	76.6%
Hit rates (excl. warnings as outcomes)	41.7%	42.9%	0.0%	50.0%	NA	NA	41.5%
Hit rates (outcome = arrest)	11.9%	28.6%	0.0%	0.0%	NA	NA	12.8%

Table A.5. Bethel Raw Traffic Stop Data, 2019							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	19	0	0	0	0	8	27
Excluding externally generated stops	19	0	0	0	0	8	27
Reasons For Stops							
Safety Stops	19	0	0	0	0	8	27
Moving Violation	19	0	0	0	0	8	27
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	0	0	0	0	0	0	0
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	0	0	0	0	0	0	0
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	0	0	0	0	0
Outcomes							
Ticket	0	0	0	0	0	0	0
Warning	0	0	0	0	0	0	0
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	19	0	0	0	0	8	27
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	19	0	0	0	0	8	27
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	100.0%					42.1%	
Excluding externally generated stops	100.0%					42.1%	
Driver Percentage (using local ACS)	97.3%	1.4%		1.3%			
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%	1.1%			
Driver Percentage (DMV Accident data)	92.3%	3.8%	3.8%				
Disparity Index (using local ACS)	1.03						
Disparity Index (using county ACS)	1.04						
Disparity Index (using DMV Accident data)	1.08						
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Moving Violation	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ticket Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Bradford Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	1,707	6	3	7	1	2	1,726
Excluding externally generated stops	1,700	6	3	7	1	2	1,719
Reasons For Stops							
Safety Stops	1,199	6	2	5	0	2	1,214
Moving Violation	1,197	6	2	5	0	2	1,212
Suspicion of DWI	2	0	0	0	0	0	2
Investigatory/Pretextual Stops	494	0	1	2	1	0	498
Investigatory Stop	10	0	0	0	0	0	10
Vehicle Equipment	484	0	1	2	1	0	488
Externally Generated Stop	7	0	0	0	0	0	7
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	6	0	0	0	0	0	6
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	0	0	0	0	0
Outcomes							
Ticket	127	1	1	3	1	0	133
Warning	1,574	6	3	5	0	2	1,590
No Action Taken	3	0	0	0	0	0	3
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,699	6	3	7	1	2	1,718
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	1,699	6	3	7	1	2	1,718
Total Stops with Unknown Search	1	0	0	0	0	0	1
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	99.0%	0.3%	0.2%	0.4%	0.1%	0.1%	
Excluding externally generated stops	99.0%	0.3%	0.2%	0.4%	0.1%	0.1%	
Driver Percentage (using local ACS)	100.0%						
Driver Percentage (using county ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (DMV Accident data)	94.6%	1.1%	1.1%	3.2%			
Disparity Index (using local ACS)	0.99						
Disparity Index (using county ACS)	1.03	0.39	0.22		0.04		
Disparity Index (using DMV Accident data)	1.05	0.32	0.16	0.13			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,139						1,146
Stop Reason as % of All Stops							
Safety Stops	70.2%	100.0%	66.7%	71.4%	0.0%	100.0%	70.3%
Moving Violation	70.1%	100.0%	66.7%	71.4%	0.0%	100.0%	70.2%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	28.9%	0.0%	33.3%	28.6%	100.0%	0.0%	28.9%
Investigatory Stops	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Vehicle Equipment	28.4%	0.0%	33.3%	28.6%	100.0%	0.0%	28.3%
Externally Generated Stops	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Multiple Reasons	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	92.6%	100.0%	100.0%	71.4%	0.0%	100.0%	92.5%
Ticket Rate	7.5%	16.7%	33.3%	42.9%	100.0%	0.0%	7.8%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Brandon Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	3,585	51	26	22	1	184	3,869
Excluding externally generated stops	3,521	49	26	22	1	183	3,802
Reasons For Stops							
Safety Stops	2,041	29	16	17	1	88	2,192
Moving Violation	2,033	29	16	17	1	88	2,184
Suspicion of DWI	8	0	0	0	0	0	8
Investigatory/Pretextual Stops	1,187	15	8	5	0	54	1,269
Investigatory Stop	89	2	0	0	0	3	94
Vehicle Equipment	1,098	13	8	5	0	51	1,175
Externally Generated Stop	64	2	0	0	0	1	67
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	5	0	0	0	0	0	5
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	288	5	2	0	0	41	336
Outcomes							
Ticket	992	14	4	10	0	55	1,075
Warning	2,363	33	19	13	1	103	2,532
No Action Taken	35	0	0	0	0	3	38
Arrest for violation	65	1	2	0	0	0	68
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	3,364	45	24	22	1	148	3,604
No Search & Contraband & Arrest for violation	4	0	0	0	0	0	4
No Search & Contraband & No arrest	8	0	1	0	0	1	10
No Search (all others)	3,352	45	23	22	1	147	3,590
Total Stops with Unknown Search	97	1	2	0	0	31	131
Total Stops with Search	60	3	0	0	0	4	67
Search with Probable Cause (PC)	41	2	0	0	0	2	45
Stops with PC Searches, No contraband	16	1	0	0	0	0	17
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	25	1	0	0	0	2	28
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	1	2
Stops with PC Searches, Contraband and Ticket	15	1	0	0	0	1	17
Stops with PC Searches, Contraband and Arrest	9	0	0	0	0	0	9
Search with Reasonable Suspicion (RS)	16	1	0	0	0	1	18
Stops with RS Searches, No contraband	4	1	0	0	0	0	5
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	12	0	0	0	0	1	13
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Ticket	8	0	0	0	0	1	9
Stops with RS Searches, Contraband & Arrest	2	0	0	0	0	0	2
Search with Warrant	3	0	0	0	0	1	4
Stops with Warrant Searches, No contraband	3	0	0	0	0	1	4
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.3%	1.4%	0.7%	0.6%	0.0%	5.0%	
Excluding externally generated stops	97.3%	1.4%	0.7%	0.6%	0.0%	5.1%	
Driver Percentage (using local ACS)	97.0%		3.0%				
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	95.4%	2.3%	1.1%	0.8%	0.4%		
Disparity Index (using local ACS)	1.01		0.24				
Disparity Index (using county ACS)	1.01	1.51	0.60		0.03		
Disparity Index (using DMV Accident data)	1.02	0.59	0.65	0.76	0.07		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	655		162				649
Stop Reason as % of All Stops							
Safety Stops	56.9%	56.9%	61.5%	77.3%	100.0%	47.8%	57.1%
Moving Violation	56.7%	56.9%	61.5%	77.3%	100.0%	47.8%	56.9%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	33.1%	29.4%	30.8%	22.7%	0.0%	29.4%	33.0%
Investigatory Stops	2.5%	3.9%	0.0%	0.0%	0.0%	1.6%	2.5%
Vehicle Equipment	30.6%	25.5%	30.8%	22.7%	0.0%	27.7%	30.5%
Externally Generated Stops	1.8%	3.9%	0.0%	0.0%	0.0%	0.5%	1.8%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	8.0%	9.8%	7.7%	0.0%	0.0%	22.3%	8.0%
Outcome Rates as a % of All Stops							
Warning Rate	67.1%	67.4%	73.1%	59.1%	100.0%	56.3%	67.1%
Ticket Rate	28.2%	28.6%	15.4%	45.5%	0.0%	30.1%	28.2%
Arrest for Violation Rate	1.9%	2.0%	7.7%	0.0%	0.0%	0.0%	1.9%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	1.0%	0.0%	0.0%	0.0%	0.0%	1.6%	1.0%
Search Rates							
Search rate (excl. searches on warrant)	1.6%	6.1%	0.0%	0.0%	0.0%	1.6%	1.7%
Search rate (incl. searches on warrant)	1.7%	6.1%	0.0%	0.0%	0.0%	2.2%	1.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	61.7%	33.3%	NA	NA	NA	75.0%	60.3%
Hit rates (excl. warnings as outcomes)	56.7%	33.3%	NA	NA	NA	50.0%	55.6%
Hit rates (outcome = arrest)	18.3%	0.0%	NA	NA	NA	0.0%	17.5%

Table A.5. Brattleboro Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	18,025	576	204	205	4	1,213	20,227
Excluding externally generated stops	17,871	566	203	204	4	1,211	20,059
Reasons For Stops							
Safety Stops	16,647	504	192	189	3	1,134	18,669
Moving Violation	16,635	504	192	188	3	1,134	18,656
Suspicion of DWI	12	0	0	1	0	0	13
Investigatory/Pretextual Stops	1,066	47	6	14	0	68	1,201
Investigatory Stop	82	9	0	1	0	1	93
Vehicle Equipment	984	38	6	13	0	67	1,108
Externally Generated Stop	154	10	1	1	0	2	168
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	2	0	0	0	0	0	2
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	155	15	5	1	1	9	186
Outcomes							
Ticket	2,265	132	28	31	0	56	2,512
Warning	15,314	420	171	170	4	1,121	17,200
No Action Taken	102	0	2	0	0	14	118
Arrest for violation	133	21	1	4	0	2	161
Arrest for warrant	4	0	0	0	0	0	4
Searches							
Total Stops with No Search	17,634	541	198	202	3	1,193	19,771
No Search & Contraband & Arrest for violation	2	0	0	1	0	0	3
No Search & Contraband & No arrest	9	0	0	0	0	0	9
No Search (all others)	17,623	541	198	201	3	1,193	19,759
Total Stops with Unknown Search	180	9	3	1	1	16	210
Total Stops with Search	57	16	2	1	0	2	78
Search with Probable Cause (PC)	14	4	0	0	0	0	18
Stops with PC Searches, No contraband	7	2	0	0	0	0	9
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	7	2	0	0	0	0	9
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Arrest	3	2	0	0	0	0	5
Search with Reasonable Suspicion (RS)	40	12	1	0	0	2	55
Stops with RS Searches, No contraband	21	8	1	0	0	1	31
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	19	4	0	0	0	1	24
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	1	0	0	0	0	5
Stops with RS Searches, Contraband & Ticket	6	2	0	0	0	0	8
Stops with RS Searches, Contraband & Arrest	9	1	0	0	0	1	11
Search with Warrant	3	0	1	1	0	0	5
Stops with Warrant Searches, No contraband	1	0	1	1	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	2	0	0	0	0	0	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	94.8%	3.0%	1.1%	1.1%	0.0%	6.4%	
Excluding externally generated stops	94.8%	3.0%	1.1%	1.1%	0.0%	6.4%	
Driver Percentage (using local ACS)	93.2%	1.9%	3.0%		1.9%		
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	95.2%	2.3%	1.7%	0.7%			
Disparity Index (using local ACS)	1.03	1.60	0.36		0.01		
Disparity Index (using county ACS)	1.01	1.79	0.68		0.02		
Disparity Index (using DMV Accident data)	1.00	1.31	0.63	1.55			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	660	1,097	237		9		643
Stop Reason as % of All Stops							
Safety Stops	92.4%	87.5%	94.1%	92.2%	75.0%	93.5%	92.2%
Moving Violation	92.3%	87.5%	94.1%	91.7%	75.0%	93.5%	92.2%
Suspicion of DWI	0.1%	0.0%	0.0%	0.5%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	5.9%	8.2%	2.9%	6.8%	0.0%	5.6%	6.0%
Investigatory Stops	0.5%	1.6%	0.0%	0.5%	0.0%	0.1%	0.5%
Vehicle Equipment	5.5%	6.6%	2.9%	6.3%	0.0%	5.5%	5.5%
Externally Generated Stops	0.9%	1.7%	0.5%	0.5%	0.0%	0.2%	0.9%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.9%	2.6%	2.5%	0.5%	25.0%	0.7%	0.9%
Outcome Rates as a % of All Stops							
Warning Rate	85.7%	74.2%	84.2%	83.3%	100.0%	92.6%	85.3%
Ticket Rate	12.7%	23.3%	13.8%	15.2%	0.0%	4.6%	13.0%
Arrest for Violation Rate	0.7%	3.7%	0.5%	2.0%	0.0%	0.2%	0.8%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.6%	0.0%	1.0%	0.0%	0.0%	1.2%	0.6%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	2.8%	0.5%	0.0%	0.0%	0.2%	0.4%
Search rate (incl. searches on warrant)	0.3%	2.8%	1.0%	0.5%	0.0%	0.2%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	49.1%	37.5%	0.0%	0.0%	NA	50.0%	44.7%
Hit rates (excl. warnings as outcomes)	36.8%	31.3%	0.0%	0.0%	NA	50.0%	34.2%
Hit rates (outcome = arrest)	22.8%	18.8%	0.0%	0.0%	NA	50.0%	21.1%

Table A.5. Brighton Raw Traffic Stop Data, 2019							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	23	0	0	0	0	0	23
Excluding externally generated stops	23	0	0	0	0	0	23
Reasons For Stops							
Safety Stops	6	0	0	0	0	0	6
Moving Violation	6	0	0	0	0	0	6
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	0	0	0	0	0	0	0
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	0	0	0	0	0	0	0
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	17	0	0	0	0	0	17
Outcomes							
Ticket	15	0	0	0	0	0	15
Warning	7	0	0	0	0	0	7
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1	0	0	0	0	0	1
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	1	0	0	0	0	0	1
Total Stops with Unknown Search	22	0	0	0	0	0	22
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	100.0%						
Excluding externally generated stops	100.0%						
Driver Percentage (using local ACS)	96.5%	1.5%	0.6%		1.4%		
Driver Percentage (using county ACS)	96.5%	1.5%	0.6%		1.4%		
Driver Percentage (DMV Accident data)	94.3%		4.6%	1.1%			
Disparity Index (using local ACS)	1.04						
Disparity Index (using county ACS)	1.04						
Disparity Index (using DMV Accident data)	1.06						
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	26.1%	0.0%	0.0%	0.0%	0.0%	0.0%	26.1%
Moving Violation	26.1%	0.0%	0.0%	0.0%	0.0%	0.0%	26.1%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	73.9%	0.0%	0.0%	0.0%	0.0%	0.0%	73.9%
Outcome Rates as a % of All Stops							
Warning Rate	30.4%	0.0%	0.0%	0.0%	0.0%	0.0%	30.4%
Ticket Rate	65.2%	0.0%	0.0%	0.0%	0.0%	0.0%	65.2%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Bristol Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	2,052	21	8	13	2	410	2,506
Excluding externally generated stops	1,979	21	8	13	2	386	2,409
Reasons For Stops							
Safety Stops	1,598	16	7	11	1	307	1,940
Moving Violation	1,597	16	7	11	1	307	1,939
Suspicion of DWI	1	0	0	0	0	0	1
Investigatory/Pretextual Stops	219	3	1	2	0	36	261
Investigatory Stop	60	1	1	0	0	6	68
Vehicle Equipment	159	2	0	2	0	30	193
Externally Generated Stop	73	0	0	0	0	24	97
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	3	0	0	0	0	0	3
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	159	2	0	0	1	43	205
Outcomes							
Ticket	900	6	3	7	0	174	1,090
Warning	1,061	14	5	6	2	206	1,294
No Action Taken	4	0	0	0	0	0	4
Arrest for violation	10	0	0	0	0	0	10
Arrest for warrant	2	0	0	0	0	0	2
Searches							
Total Stops with No Search	1,952	21	8	11	2	379	2,373
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	3	0	0	0	0	0	3
No Search (all others)	1,949	21	8	11	2	379	2,370
Total Stops with Unknown Search	10	0	0	0	0	5	15
Total Stops with Search	17	0	0	2	0	2	21
Search with Probable Cause (PC)	15	0	0	1	0	2	18
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	1	0	1	2
Stops with PC Searches, Contraband	14	0	0	0	0	1	15
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	12	0	0	0	0	1	13
Stops with PC Searches, Contraband and Arrest	2	0	0	0	0	0	2
Search with Reasonable Suspicion (RS)	1	0	0	1	0	0	2
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	1	0	0	2
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	0	0	0	1	0	0	1
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	1	0	0	0	0	0	1
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.9%	1.0%	0.4%	0.6%	0.1%	19.6%	
Excluding externally generated stops	97.8%	1.0%	0.4%	0.6%	0.1%	19.1%	
Driver Percentage (using local ACS)	93.6%	4.0%	2.4%				
Driver Percentage (using county ACS)	95.1%	1.7%	2.4%		0.9%		
Driver Percentage (DMV Accident data)	95.8%	1.7%	1.7%	0.8%			
Disparity Index (using local ACS)	1.05	0.26	0.17				
Disparity Index (using county ACS)	1.04	0.62	0.17		0.11		
Disparity Index (using DMV Accident data)	1.02	0.61	0.23	0.80			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	315	74	56				299
Stop Reason as % of All Stops							
Safety Stops	77.9%	76.2%	87.5%	84.6%	50.0%	74.9%	77.9%
Moving Violation	77.8%	76.2%	87.5%	84.6%	50.0%	74.9%	77.9%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	10.7%	14.3%	12.5%	15.4%	0.0%	8.8%	10.7%
Investigatory Stops	2.9%	4.8%	12.5%	0.0%	0.0%	1.5%	3.0%
Vehicle Equipment	7.8%	9.5%	0.0%	15.4%	0.0%	7.3%	7.8%
Externally Generated Stops	3.6%	0.0%	0.0%	0.0%	0.0%	5.9%	3.5%
Multiple Reasons	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	7.8%	9.5%	0.0%	0.0%	50.0%	10.5%	7.7%
Outcome Rates as a % of All Stops							
Warning Rate	53.6%	66.7%	62.5%	46.2%	100.0%	53.4%	53.8%
Ticket Rate	45.5%	28.6%	37.5%	53.9%	0.0%	45.1%	45.3%
Arrest for Violation Rate	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	0.0%	0.0%	15.4%	0.0%	0.5%	0.9%
Search rate (incl. searches on warrant)	0.9%	0.0%	0.0%	15.4%	0.0%	0.5%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	88.2%	NA	NA	50.0%	NA	50.0%	84.2%
Hit rates (excl. warnings as outcomes)	82.4%	NA	NA	50.0%	NA	50.0%	79.0%
Hit rates (outcome = arrest)	11.8%	NA	NA	0.0%	NA	0.0%	10.5%

Table A.5. Burlington Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	17,267	1,816	906	136	11	1,192	21,328
Excluding externally generated stops	16,816	1,762	887	133	9	1,175	20,782
Reasons For Stops							
Safety Stops	9,045	963	532	77	2	363	10,982
Moving Violation	8,977	955	530	77	2	361	10,902
Suspicion of DWI	68	8	2	0	0	2	80
Investigatory/Pretextual Stops	5,905	609	272	55	6	183	7,030
Investigatory Stop	140	37	7	1	0	4	189
Vehicle Equipment	5,765	572	265	54	6	179	6,841
Externally Generated Stop	451	54	19	3	2	17	546
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	16	3	1	0	0	1	21
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	1	0	0	0	0	1
Unknown Stop Reason	1,850	186	82	1	1	628	2,748
Outcomes							
Ticket	3,697	515	210	51	1	133	4,607
Warning	12,382	1,186	641	89	8	480	14,786
No Action Taken	19	2	0	0	0	9	30
Arrest for violation	144	25	8	2	0	5	184
Arrest for warrant	13	3	0	0	0	1	17
Searches							
Total Stops with No Search	16,530	1,674	878	128	9	1,146	20,365
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	9	0	1	0	0	0	10
No Search (all others)	16,521	1,674	877	128	9	1,146	20,355
Total Stops with Unknown Search	66	5	4	0	0	11	86
Total Stops with Search	220	83	5	5	0	18	331
Search with Probable Cause (PC)	134	49	3	5	0	15	206
Stops with PC Searches, No contraband	28	12	1	3	0	6	50
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	106	37	2	2	0	9	156
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	51	13	0	0	0	7	71
Stops with PC Searches, Contraband and Ticket	45	21	1	1	0	1	69
Stops with PC Searches, Contraband and Arrest	10	3	1	1	0	1	16
Search with Reasonable Suspicion (RS)	68	33	2	0	0	3	106
Stops with RS Searches, No contraband	27	13	1	0	0	1	42
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	41	20	1	0	0	2	64
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	18	5	0	0	0	2	25
Stops with RS Searches, Contraband & Ticket	19	11	0	0	0	0	30
Stops with RS Searches, Contraband & Arrest	4	4	1	0	0	0	9
Search with Warrant	18	1	0	0	0	0	19
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	17	1	0	0	0	0	18
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Ticket	11	0	0	0	0	0	11
Stops with Warrant Searches, Contraband & Arrest	3	1	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	85.8%	9.0%	4.5%	0.7%	0.1%	5.9%	
Excluding externally generated stops	85.8%	9.0%	4.5%	0.7%	0.0%	6.0%	
Driver Percentage (using local ACS)	87.1%	5.2%	6.8%		0.9%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	87.1%	6.5%	5.3%	0.8%	0.3%		
Disparity Index (using local ACS)	0.99	1.74	0.67		0.05		
Disparity Index (using county ACS)	0.94	3.48	1.01		0.05		
Disparity Index (using DMV Accident data)	0.99	1.38	0.85	0.85	0.15		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	92	163	61		4		93
Stop Reason as % of All Stops							
Safety Stops	52.4%	53.0%	58.7%	56.6%	18.2%	30.5%	52.7%
Moving Violation	52.0%	52.6%	58.5%	56.6%	18.2%	30.3%	52.4%
Suspicion of DWI	0.4%	0.4%	0.2%	0.0%	0.0%	0.2%	0.4%
Investigatory/Pretextual Stops	34.2%	33.5%	30.0%	40.4%	54.6%	15.4%	34.0%
Investigatory Stops	0.8%	2.0%	0.8%	0.7%	0.0%	0.3%	0.9%
Vehicle Equipment	33.4%	31.5%	29.3%	39.7%	54.6%	15.0%	33.1%
Externally Generated Stops	2.6%	3.0%	2.1%	2.2%	18.2%	1.4%	2.6%
Multiple Reasons	0.1%	0.2%	0.1%	0.0%	0.0%	0.1%	0.1%
Unknown Reason	10.7%	10.2%	9.1%	0.7%	9.1%	52.7%	10.5%
Outcome Rates as a % of All Stops							
Warning Rate	73.6%	67.3%	72.3%	66.9%	88.9%	40.9%	73.0%
Ticket Rate	22.0%	29.2%	23.7%	38.4%	11.1%	11.3%	22.8%
Arrest for Violation Rate	0.9%	1.4%	0.9%	1.5%	0.0%	0.4%	0.9%
Arrest for Warrant Rate	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.1%
No Action Rate	0.1%	0.1%	0.0%	0.0%	0.0%	0.8%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	1.2%	4.7%	0.6%	3.8%	0.0%	1.5%	1.5%
Search rate (incl. searches on warrant)	1.3%	4.7%	0.6%	3.8%	0.0%	1.5%	1.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	74.6%	69.9%	60.0%	40.0%	NA	61.1%	72.5%
Hit rates (excl. warnings as outcomes)	41.8%	48.2%	60.0%	40.0%	NA	11.1%	43.8%
Hit rates (outcome = arrest)	7.7%	9.6%	40.0%	20.0%	NA	5.6%	9.0%

Table A.5. Castleton Raw Traffic Stop Data, 2016-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	3,789	62	24	30	0	13	3,918
Excluding externally generated stops	3,789	62	24	30	0	13	3,918
Reasons For Stops							
Safety Stops	1,095	16	5	11	0	13	1,140
Moving Violation	1,095	16	5	11	0	13	1,140
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	4	0	0	0	0	0	4
Investigatory Stop	2	0	0	0	0	0	2
Vehicle Equipment	2	0	0	0	0	0	2
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	2,690	46	19	19	0	0	2,774
Outcomes							
Ticket	1,551	20	7	12	0	13	1,603
Warning	108	0	1	0	0	0	109
No Action Taken	15	0	0	0	0	0	15
Arrest for violation	5	0	0	0	0	0	5
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,666	18	8	10	0	13	1,715
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	1,665	18	8	10	0	13	1,714
Total Stops with Unknown Search	2,111	42	16	19	0	0	2,188
Total Stops with Search	12	2	0	1	0	0	15
Search with Probable Cause (PC)	9	0	0	1	0	0	10
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	9	0	0	1	0	0	10
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	9	0	0	1	0	0	10
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	3	2	0	0	0	0	5
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband	2	2	0	0	0	0	4
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	2	0	0	0	0	4
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.0%	1.6%	0.6%	0.8%		0.3%	
Excluding externally generated stops	97.0%	1.6%	0.6%	0.8%		0.3%	
Driver Percentage (using local ACS)	95.8%	1.8%	2.0%		0.4%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	98.2%	0.7%	0.7%		0.4%		
Disparity Index (using local ACS)	1.02	0.89	0.31				
Disparity Index (using county ACS)	1.01	1.78	0.52				
Disparity Index (using DMV Accident data)	0.99	2.27	0.88				
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	902	917	327				887
Stop Reason as % of All Stops							
Safety Stops	28.9%	25.8%	20.8%	36.7%	0.0%	100.0%	28.9%
Moving Violation	28.9%	25.8%	20.8%	36.7%	0.0%	100.0%	28.9%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Vehicle Equipment	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	71.0%	74.2%	79.2%	63.3%	0.0%	0.0%	71.0%
Outcome Rates as a % of All Stops							
Warning Rate	2.9%	0.0%	4.2%	0.0%	0.0%	0.0%	2.8%
Ticket Rate	40.9%	32.3%	29.2%	40.0%	0.0%	100.0%	40.7%
Arrest for Violation Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	0.0%	0.0%	3.3%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.3%	3.2%	0.0%	3.3%	0.0%	0.0%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	91.7%	100.0%	NA	100.0%	NA	NA	93.3%
Hit rates (excl. warnings as outcomes)	91.7%	100.0%	NA	100.0%	NA	NA	93.3%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	0.0%	NA	NA	0.0%

Table A.5. Chester Raw Traffic Stop Data, 2016-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	1,333	28	38	40	9	180	1,628
Excluding externally generated stops	1,333	27	38	40	9	179	1,626
Reasons For Stops							
Safety Stops	1,283	27	38	39	9	175	1,571
Moving Violation	1,280	27	38	39	9	175	1,568
Suspicion of DWI	3	0	0	0	0	0	3
Investigatory/Pretextual Stops	20	0	0	0	0	1	21
Investigatory Stop	5	0	0	0	0	1	6
Vehicle Equipment	15	0	0	0	0	0	15
Externally Generated Stop	0	1	0	0	0	1	2
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	28	0	0	1	0	3	32
Outcomes							
Ticket	1,061	22	35	33	9	77	1,237
Warning	262	5	2	7	0	99	375
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	1	0	0	0	1
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,312	27	38	39	9	176	1,601
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	1	0	2	0	0	1	4
No Search (all others)	1,311	27	36	39	9	175	1,597
Total Stops with Unknown Search	20	0	0	1	0	3	24
Total Stops with Search	1	0	0	0	0	0	1
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	1	0	0	0	0	0	1
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	0	0	0	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	92.1%	1.9%	2.6%	2.8%	0.6%	12.4%	
Excluding externally generated stops	92.1%	1.9%	2.6%	2.8%	0.6%	12.4%	
Driver Percentage (using local ACS)	100.0%						
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	92.7%	1.7%	2.3%	2.3%	1.0%		
Disparity Index (using local ACS)	0.95						
Disparity Index (using county ACS)	0.99	1.75	1.80		0.58		
Disparity Index (using DMV Accident data)	0.99	1.10	1.14	1.20	0.62		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	620						657
Stop Reason as % of All Stops							
Safety Stops	96.3%	96.4%	100.0%	97.5%	100.0%	97.2%	96.4%
Moving Violation	96.0%	96.4%	100.0%	97.5%	100.0%	97.2%	96.2%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	1.5%	0.0%	0.0%	0.0%	0.0%	0.6%	1.4%
Investigatory Stops	0.4%	0.0%	0.0%	0.0%	0.0%	0.6%	0.4%
Vehicle Equipment	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Externally Generated Stops	0.0%	3.6%	0.0%	0.0%	0.0%	0.6%	0.1%
Multiple Reasons	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	2.1%	0.0%	0.0%	2.5%	0.0%	1.7%	2.0%
Outcome Rates as a % of All Stops							
Warning Rate	19.7%	18.5%	5.3%	17.5%	0.0%	55.3%	19.1%
Ticket Rate	79.6%	81.5%	92.1%	82.5%	100.0%	43.0%	80.2%
Arrest for Violation Rate	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search rate (incl. searches on warrant)	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	100.0%	NA	NA	NA	NA	NA	100.0%
Hit rates (excl. warnings as outcomes)	100.0%	NA	NA	NA	NA	NA	100.0%
Hit rates (outcome = arrest)	0.0%	NA	NA	NA	NA	NA	0.0%

Table A.5. Colchester Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	15,965	751	359	98	6	161	17,340
Excluding externally generated stops	15,603	723	349	97	6	158	16,936
Reasons For Stops							
Safety Stops	13,475	589	301	85	6	125	14,581
Moving Violation	13,450	587	301	85	6	125	14,554
Suspicion of DWI	25	2	0	0	0	0	27
Investigatory/Pretextual Stops	1,968	129	45	12	0	27	2,181
Investigatory Stop	62	6	1	0	0	0	69
Vehicle Equipment	1,906	123	44	12	0	27	2,112
Externally Generated Stop	362	28	10	1	0	3	404
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	8	0	0	0	0	1	9
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	152	5	3	0	0	5	165
Outcomes							
Ticket	4,725	240	94	31	2	33	5,125
Warning	11,098	494	257	69	3	124	12,045
No Action Taken	13	0	0	0	0	1	14
Arrest for violation	106	14	0	0	0	0	120
Arrest for warrant	7	3	1	0	0	0	11
Searches							
Total Stops with No Search	15,416	703	346	96	6	156	16,723
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	13	1	1	0	0	0	15
No Search (all others)	15,402	702	345	96	6	156	16,707
Total Stops with Unknown Search	3	0	0	0	0	2	5
Total Stops with Search	184	20	3	1	0	0	208
Search with Probable Cause (PC)	135	17	2	1	0	0	155
Stops with PC Searches, No contraband	16	5	0	0	0	0	21
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	119	12	2	1	0	0	134
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	19	3	0	0	0	0	22
Stops with PC Searches, Contraband and Ticket	94	8	1	1	0	0	104
Stops with PC Searches, Contraband and Arrest	6	1	1	0	0	0	8
Search with Reasonable Suspicion (RS)	40	3	1	0	0	0	44
Stops with RS Searches, No contraband	14	2	0	0	0	0	16
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	26	1	1	0	0	0	28
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	6	0	1	0	0	0	7
Stops with RS Searches, Contraband & Ticket	20	0	0	0	0	0	20
Stops with RS Searches, Contraband & Arrest	0	1	0	0	0	0	1
Search with Warrant	9	0	0	0	0	0	9
Stops with Warrant Searches, No contraband	3	0	0	0	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	6	0	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	92.9%	4.4%	2.1%	0.6%	0.0%	0.9%	
Excluding externally generated stops	93.0%	4.3%	2.1%	0.6%	0.0%	0.9%	
Driver Percentage (using local ACS)	95.0%	1.2%	2.5%		1.3%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	94.2%	3.0%	1.9%	0.4%	0.4%		
Disparity Index (using local ACS)	0.99	3.61	0.84		0.03		
Disparity Index (using county ACS)	1.02	1.67	0.47		0.04		
Disparity Index (using DMV Accident data)	0.99	1.44	1.10	1.45	0.09		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	208	744	179		6		211
Stop Reason as % of All Stops							
Safety Stops	84.4%	78.4%	83.8%	86.7%	100.0%	77.6%	84.2%
Moving Violation	84.3%	78.2%	83.8%	86.7%	100.0%	77.6%	84.0%
Suspicion of DWI	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	12.3%	17.2%	12.5%	12.2%	0.0%	16.8%	12.5%
Investigatory Stops	0.4%	0.8%	0.3%	0.0%	0.0%	0.0%	0.4%
Vehicle Equipment	11.9%	16.4%	12.3%	12.2%	0.0%	16.8%	12.1%
Externally Generated Stops	2.3%	3.7%	2.8%	1.0%	0.0%	1.9%	2.3%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.6%	0.1%
Unknown Reason	1.0%	0.7%	0.8%	0.0%	0.0%	3.1%	0.9%
Outcome Rates as a % of All Stops							
Warning Rate	71.1%	68.3%	73.6%	71.1%	50.0%	78.5%	71.1%
Ticket Rate	30.3%	33.2%	26.9%	32.0%	33.3%	20.9%	30.4%
Arrest for Violation Rate	0.7%	1.9%	0.0%	0.0%	0.0%	0.0%	0.7%
Arrest for Warrant Rate	0.0%	0.4%	0.3%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.6%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	2.8%	0.9%	1.0%	0.0%	0.0%	1.2%
Search rate (incl. searches on warrant)	1.2%	2.8%	0.9%	1.0%	0.0%	0.0%	1.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	82.1%	65.0%	100.0%	100.0%	NA	NA	80.8%
Hit rates (excl. warnings as outcomes)	66.9%	50.0%	66.7%	100.0%	NA	NA	65.4%
Hit rates (outcome = arrest)	4.4%	10.0%	33.3%	0.0%	NA	NA	5.3%

Table A.5. Dover Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	1,627	33	39	61	1	1	1,762
Excluding externally generated stops	1,421	28	27	58	1	1	1,536
Reasons For Stops							
Safety Stops	1,086	17	24	48	0	1	1,176
Moving Violation	1,085	17	24	48	0	1	1,175
Suspicion of DWI	1	0	0	0	0	0	1
Investigatory/Pretextual Stops	316	10	3	9	1	0	339
Investigatory Stop	35	1	1	2	0	0	39
Vehicle Equipment	281	9	2	7	1	0	300
Externally Generated Stop	206	5	12	3	0	0	226
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	10	1	0	0	0	0	11
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	9	0	0	1	0	0	10
Outcomes							
Ticket	453	6	10	23	0	0	492
Warning	983	23	17	36	1	1	1,061
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	1	0	0	0	0	0	1
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,414	27	27	57	1	1	1,527
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	7	0	0	1	0	0	8
No Search (all others)	1,407	27	27	56	1	1	1,519
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	7	1	0	1	0	0	9
Search with Probable Cause (PC)	5	1	0	0	0	0	6
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	4	1	0	0	0	0	5
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	4	1	0	0	0	0	5
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	2	0	0	0	0	0	2
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	2	0	0	0	0	0	2
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	1	0	0	1
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	1	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	1	0	0	1
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	92.4%	1.9%	2.2%	3.5%	0.1%	0.1%	
Excluding externally generated stops	92.6%	1.8%	1.8%	3.8%	0.1%	0.1%	
Driver Percentage (using local ACS)	93.2%	1.4%	1.5%		3.8%		
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	96.6%	0.8%	1.1%	1.1%	0.3%		
Disparity Index (using local ACS)	1.03	1.35	1.22		0.02		
Disparity Index (using county ACS)	1.01	1.12	1.14		0.05		
Disparity Index (using DMV Accident data)	0.96	2.28	1.60	3.44	0.22		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	368	422	438				356
Stop Reason as % of All Stops							
Safety Stops	66.8%	51.5%	61.5%	78.7%	0.0%	100.0%	66.7%
Moving Violation	66.7%	51.5%	61.5%	78.7%	0.0%	100.0%	66.7%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	19.4%	30.3%	7.7%	14.8%	100.0%	0.0%	19.3%
Investigatory Stops	2.2%	3.0%	2.6%	3.3%	0.0%	0.0%	2.2%
Vehicle Equipment	17.3%	27.3%	5.1%	11.5%	100.0%	0.0%	17.0%
Externally Generated Stops	12.7%	15.2%	30.8%	4.9%	0.0%	0.0%	12.8%
Multiple Reasons	0.6%	3.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Unknown Reason	0.6%	0.0%	0.0%	1.6%	0.0%	0.0%	0.6%
Outcome Rates as a % of All Stops							
Warning Rate	69.2%	82.1%	63.0%	62.1%	100.0%	100.0%	69.1%
Ticket Rate	31.9%	21.4%	37.0%	39.7%	0.0%	0.0%	32.1%
Arrest for Violation Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	3.6%	0.0%	0.0%	0.0%	0.0%	0.5%
Search rate (incl. searches on warrant)	0.5%	3.6%	0.0%	1.7%	0.0%	0.0%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	85.7%	100.0%	NA	100.0%	NA	NA	88.9%
Hit rates (excl. warnings as outcomes)	85.7%	100.0%	NA	100.0%	NA	NA	88.9%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	0.0%	NA	NA	0.0%

Table A.5. Essex Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	17,822	729	522	196	23	564	19,856
Excluding externally generated stops	17,203	682	508	193	23	510	19,119
Reasons For Stops							
Safety Stops	13,042	492	421	143	19	288	14,405
Moving Violation	12,995	487	419	143	18	288	14,350
Suspicion of DWI	47	5	2	0	1	0	55
Investigatory/Pretextual Stops	4,000	180	87	48	4	102	4,421
Investigatory Stop	244	15	4	4	0	53	320
Vehicle Equipment	3,756	165	83	44	4	49	4,101
Externally Generated Stop	619	47	14	3	0	54	737
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	49	5	0	1	0	1	56
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	111	5	0	1	0	119	236
Outcomes							
Ticket	4,806	240	141	75	5	93	5,360
Warning	12,406	451	371	122	17	382	13,749
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	155	6	1	1	1	2	166
Arrest for warrant	6	0	0	0	0	0	6
Searches							
Total Stops with No Search	17,052	675	506	190	23	404	18,850
No Search & Contraband & Arrest for violation	4	1	0	1	0	0	6
No Search & Contraband & No arrest	29	0	0	0	0	1	30
No Search (all others)	17,019	674	506	189	23	403	18,814
Total Stops with Unknown Search	70	1	0	0	0	105	176
Total Stops with Search	81	6	2	3	0	1	93
Search with Probable Cause (PC)	70	3	2	3	0	0	78
Stops with PC Searches, No contraband	15	0	0	0	0	0	15
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	55	3	2	3	0	0	63
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	7	0	0	0	0	0	7
Stops with PC Searches, Contraband and Ticket	25	3	2	3	0	0	33
Stops with PC Searches, Contraband and Arrest	23	0	0	0	0	0	23
Search with Reasonable Suspicion (RS)	9	3	0	0	0	0	12
Stops with RS Searches, No contraband	2	1	0	0	0	0	3
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	7	2	0	0	0	0	9
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	5	2	0	0	0	0	7
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	2	0	0	0	0	1	3
Stops with Warrant Searches, No contraband	1	0	0	0	0	1	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	92.4%	3.8%	2.7%	1.0%	0.1%	2.9%	
Excluding externally generated stops	92.4%	3.7%	2.7%	1.0%	0.1%	2.7%	
Driver Percentage (using local ACS)	89.3%	2.4%	7.3%		1.1%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	93.0%	2.5%	3.2%	0.7%	0.5%		
Disparity Index (using local ACS)	1.05	1.54	0.38		0.11		
Disparity Index (using county ACS)	1.02	1.42	0.61		0.14		
Disparity Index (using DMV Accident data)	0.99	1.47	0.85	1.48	0.25		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	439	697	168		53		421
Stop Reason as % of All Stops							
Safety Stops	73.2%	67.5%	80.7%	73.0%	82.6%	51.1%	73.2%
Moving Violation	72.9%	66.8%	80.3%	73.0%	78.3%	51.1%	72.9%
Suspicion of DWI	0.3%	0.7%	0.4%	0.0%	4.4%	0.0%	0.3%
Investigatory/Pretextual Stops	22.4%	24.7%	16.7%	24.5%	17.4%	18.1%	22.4%
Investigatory Stops	1.4%	2.1%	0.8%	2.0%	0.0%	9.4%	1.4%
Vehicle Equipment	21.1%	22.6%	15.9%	22.5%	17.4%	8.7%	21.0%
Externally Generated Stops	3.5%	6.5%	2.7%	1.5%	0.0%	9.6%	3.5%
Multiple Reasons	0.3%	0.7%	0.0%	0.5%	0.0%	0.2%	0.3%
Unknown Reason	0.6%	0.7%	0.0%	0.5%	0.0%	21.1%	0.6%
Outcome Rates as a % of All Stops							
Warning Rate	72.1%	66.1%	73.0%	63.2%	73.9%	74.9%	71.8%
Ticket Rate	27.9%	35.2%	27.8%	38.9%	21.7%	18.2%	28.3%
Arrest for Violation Rate	0.9%	0.9%	0.2%	0.5%	4.4%	0.4%	0.9%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	0.9%	0.4%	1.6%	0.0%	0.0%	0.5%
Search rate (incl. searches on warrant)	0.5%	0.9%	0.4%	1.6%	0.0%	0.2%	0.5%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	77.8%	83.3%	100.0%	100.0%	NA	0.0%	79.4%
Hit rates (excl. warnings as outcomes)	67.9%	83.3%	100.0%	100.0%	NA	0.0%	70.7%
Hit rates (outcome = arrest)	30.9%	0.0%	0.0%	0.0%	NA	0.0%	27.2%

Table A.5. Fair Haven Raw Traffic Stop Data, 2015,17-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	3,982	66	47	49	4	219	4,367
Excluding externally generated stops	3,975	66	47	49	4	219	4,360
Reasons For Stops							
Safety Stops	3,383	58	47	45	4	203	3,740
Moving Violation	3,381	58	47	45	4	203	3,738
Suspicion of DWI	2	0	0	0	0	0	2
Investigatory/Pretextual Stops	464	8	0	4	0	3	479
Investigatory Stop	10	1	0	0	0	0	11
Vehicle Equipment	454	7	0	4	0	3	468
Externally Generated Stop	7	0	0	0	0	0	7
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	2	0	0	0	0	0	2
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	125	0	0	0	0	13	138
Outcomes							
Ticket	3,159	55	42	41	3	66	3,366
Warning	799	11	5	6	1	152	974
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	35	0	0	1	0	0	36
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	3,948	66	47	49	4	215	4,329
No Search & Contraband & Arrest for violation	4	0	0	0	0	0	4
No Search & Contraband & No arrest	5	0	0	0	0	0	5
No Search (all others)	3,939	66	47	49	4	215	4,320
Total Stops with Unknown Search	18	0	0	0	0	4	22
Total Stops with Search	9	0	0	0	0	0	9
Search with Probable Cause (PC)	4	0	0	0	0	0	4
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	3	0	0	0	0	0	3
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	5	0	0	0	0	0	5
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	5	0	0	0	0	0	5
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.0%	1.6%	1.1%	1.2%	0.1%	5.3%	
Excluding externally generated stops	96.0%	1.6%	1.1%	1.2%	0.1%	5.3%	
Driver Percentage (using local ACS)	94.9%	1.5%	3.1%		0.5%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	94.6%	1.8%	2.2%	1.1%	0.2%		
Disparity Index (using local ACS)	1.02	1.08	0.37		0.20		
Disparity Index (using county ACS)	1.00	1.79	0.96		0.10		
Disparity Index (using DMV Accident data)	1.02	0.89	0.52	1.08	0.48		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	670	738	249		133		655
Stop Reason as % of All Stops							
Safety Stops	85.0%	87.9%	100.0%	91.8%	100.0%	92.7%	85.3%
Moving Violation	84.9%	87.9%	100.0%	91.8%	100.0%	92.7%	85.2%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	11.7%	12.1%	0.0%	8.2%	0.0%	1.4%	11.5%
Investigatory Stops	0.3%	1.5%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	11.4%	10.6%	0.0%	8.2%	0.0%	1.4%	11.2%
Externally Generated Stops	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	3.1%	0.0%	0.0%	0.0%	0.0%	5.9%	3.0%
Outcome Rates as a % of All Stops							
Warning Rate	20.1%	16.7%	10.6%	12.2%	25.0%	69.4%	19.9%
Ticket Rate	79.5%	83.3%	89.4%	83.7%	75.0%	30.1%	79.7%
Arrest for Violation Rate	0.9%	0.0%	0.0%	2.0%	0.0%	0.0%	0.9%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search rate (incl. searches on warrant)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	88.9%	NA	NA	NA	NA	NA	88.9%
Hit rates (excl. warnings as outcomes)	77.8%	NA	NA	NA	NA	NA	77.8%
Hit rates (outcome = arrest)	22.2%	NA	NA	NA	NA	NA	22.2%

Table A.5. Fairlee Raw Traffic Stop Data, 2015,17-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	203	4	0	2	0	3	212
Excluding externally generated stops	203	4	0	2	0	3	212
Reasons For Stops							
Safety Stops	59	1	0	0	0	2	62
Moving Violation	59	1	0	0	0	2	62
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	13	0	0	0	0	0	13
Investigatory Stop	1	0	0	0	0	0	1
Vehicle Equipment	12	0	0	0	0	0	12
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	131	3	0	2	0	1	137
Outcomes							
Ticket	49	0	0	0	0	1	50
Warning	122	3	0	1	0	1	127
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	166	4	0	1	0	2	173
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	166	4	0	1	0	2	173
Total Stops with Unknown Search	37	0	0	1	0	1	39
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.1%	1.9%		1.0%		1.4%	
Excluding externally generated stops	97.1%	1.9%		1.0%		1.4%	
Driver Percentage (using local ACS)	95.1%		4.9%				
Driver Percentage (using county ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.03						
Disparity Index (using county ACS)	1.01	2.15					
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	544						532
Stop Reason as % of All Stops							
Safety Stops	29.1%	25.0%	0.0%	0.0%	0.0%	66.7%	28.7%
Moving Violation	29.1%	25.0%	0.0%	0.0%	0.0%	66.7%	28.7%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	6.4%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%
Investigatory Stops	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Vehicle Equipment	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	5.7%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	64.5%	75.0%	0.0%	100.0%	0.0%	33.3%	65.1%
Outcome Rates as a % of All Stops							
Warning Rate	60.1%	75.0%	0.0%	50.0%	0.0%	33.3%	60.3%
Ticket Rate	24.1%	0.0%	0.0%	0.0%	0.0%	33.3%	23.4%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Hardwick Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	2,119	44	10	4	0	803	2,980
Excluding externally generated stops	2,034	43	10	4	0	772	2,863
Reasons For Stops							
Safety Stops	1,458	25	10	4	0	657	2,154
Moving Violation	1,456	25	10	4	0	655	2,150
Suspicion of DWI	2	0	0	0	0	2	4
Investigatory/Pretextual Stops	471	14	0	0	0	90	575
Investigatory Stop	20	0	0	0	0	3	23
Vehicle Equipment	451	14	0	0	0	87	552
Externally Generated Stop	85	1	0	0	0	31	117
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	5	0	0	0	0	0	5
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	99	4	0	0	0	25	128
Outcomes							
Ticket	603	8	5	1	0	167	784
Warning	1,344	32	5	3	0	572	1,956
No Action Taken	11	0	0	0	0	9	20
Arrest for violation	30	1	0	0	0	6	37
Arrest for warrant	2	0	0	0	0	0	2
Searches							
Total Stops with No Search	1,899	41	10	4	0	740	2,694
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	9	1	0	0	0	1	11
No Search (all others)	1,889	40	10	4	0	739	2,682
Total Stops with Unknown Search	68	2	0	0	0	21	91
Total Stops with Search	67	0	0	0	0	11	78
Search with Probable Cause (PC)	50	0	0	0	0	6	56
Stops with PC Searches, No contraband	7	0	0	0	0	2	9
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	43	0	0	0	0	4	47
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	7	0	0	0	0	0	7
Stops with PC Searches, Contraband and Ticket	30	0	0	0	0	4	34
Stops with PC Searches, Contraband and Arrest	6	0	0	0	0	0	6
Search with Reasonable Suspicion (RS)	16	0	0	0	0	4	20
Stops with RS Searches, No contraband	6	0	0	0	0	2	8
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	10	0	0	0	0	2	12
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Ticket	4	0	0	0	0	2	6
Stops with RS Searches, Contraband & Arrest	2	0	0	0	0	0	2
Search with Warrant	1	0	0	0	0	1	2
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	1	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	1	1
Racial Shares of Stops							
Including externally generated stops	97.3%	2.0%	0.5%	0.2%		36.9%	
Excluding externally generated stops	97.3%	2.1%	0.5%	0.2%		36.9%	
Driver Percentage (using local ACS)	94.4%	1.5%	2.3%		1.8%		
Driver Percentage (using county ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (DMV Accident data)	96.3%	1.4%	1.1%	0.8%	0.5%		
Disparity Index (using local ACS)	1.03	1.37	0.21				
Disparity Index (using county ACS)	1.01	2.06	0.40				
Disparity Index (using DMV Accident data)	1.01	1.47	0.44	0.24			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	342	519	62				332
Stop Reason as % of All Stops							
Safety Stops	68.8%	56.8%	100.0%	100.0%	0.0%	81.8%	68.8%
Moving Violation	68.7%	56.8%	100.0%	100.0%	0.0%	81.6%	68.7%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%
Investigatory/Pretextual Stops	22.2%	31.8%	0.0%	0.0%	0.0%	11.2%	22.3%
Investigatory Stops	0.9%	0.0%	0.0%	0.0%	0.0%	0.4%	0.9%
Vehicle Equipment	21.3%	31.8%	0.0%	0.0%	0.0%	10.8%	21.4%
Externally Generated Stops	4.0%	2.3%	0.0%	0.0%	0.0%	3.9%	4.0%
Multiple Reasons	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Unknown Reason	4.7%	9.1%	0.0%	0.0%	0.0%	3.1%	4.7%
Outcome Rates as a % of All Stops							
Warning Rate	66.1%	74.4%	50.0%	75.0%	0.0%	74.1%	66.2%
Ticket Rate	29.7%	18.6%	50.0%	25.0%	0.0%	21.6%	29.5%
Arrest for Violation Rate	1.5%	2.3%	0.0%	0.0%	0.0%	0.8%	1.5%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.5%	0.0%	0.0%	0.0%	0.0%	1.2%	0.5%
Search Rates							
Search rate (excl. searches on warrant)	3.2%	0.0%	0.0%	0.0%	0.0%	1.3%	3.2%
Search rate (incl. searches on warrant)	3.3%	0.0%	0.0%	0.0%	0.0%	1.4%	3.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.6%	NA	NA	NA	NA	63.6%	80.6%
Hit rates (excl. warnings as outcomes)	64.2%	NA	NA	NA	NA	63.6%	64.2%
Hit rates (outcome = arrest)	11.9%	NA	NA	NA	NA	9.1%	11.9%

Table A.5. Hartford Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	7,692	304	257	142	22	113	8,530
Excluding externally generated stops	7,566	300	254	138	22	111	8,391
Reasons For Stops							
Safety Stops	5,365	212	204	99	15	76	5,971
Moving Violation	5,348	211	204	99	15	76	5,953
Suspicion of DWI	17	1	0	0	0	0	18
Investigatory/Pretextual Stops	2,088	74	46	37	7	19	2,271
Investigatory Stop	31	0	1	3	0	1	36
Vehicle Equipment	2,057	74	45	34	7	18	2,235
Externally Generated Stop	126	4	3	4	0	2	139
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	1	2
Multiple Reasons - Moving Violation & Vehicle Equipment	36	0	3	0	0	1	40
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	76	14	1	2	0	14	107
Outcomes							
Ticket	1,264	60	48	31	1	33	1,437
Warning	6,200	228	203	105	21	64	6,821
No Action Taken	3	0	0	0	0	0	3
Arrest for violation	94	5	3	1	1	0	104
Arrest for warrant	6	1	0	0	0	0	7
Searches							
Total Stops with No Search	7,397	279	251	130	22	93	8,172
No Search & Contraband & Arrest for violation	2	0	0	0	0	0	2
No Search & Contraband & No arrest	10	1	1	0	1	0	13
No Search (all others)	7,385	278	250	130	21	93	8,157
Total Stops with Unknown Search	72	14	1	2	0	17	106
Total Stops with Search	97	7	2	6	0	1	113
Search with Probable Cause (PC)	66	2	1	5	0	1	75
Stops with PC Searches, No contraband	15	1	0	2	0	0	18
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	50	1	1	3	0	1	56
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	6	0	0	0	0	1	7
Stops with PC Searches, Contraband and Ticket	27	1	1	3	0	0	32
Stops with PC Searches, Contraband and Arrest	17	0	0	0	0	0	17
Search with Reasonable Suspicion (RS)	28	3	1	1	0	0	33
Stops with RS Searches, No contraband	8	1	1	1	0	0	11
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	20	2	0	0	0	0	22
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Ticket	11	1	0	0	0	0	12
Stops with RS Searches, Contraband & Arrest	5	1	0	0	0	0	6
Search with Warrant	3	2	0	0	0	0	5
Stops with Warrant Searches, No contraband	0	2	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	3	0	0	0	0	0	3
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	91.4%	3.6%	3.1%	1.7%	0.3%	1.3%	
Excluding externally generated stops	91.4%	3.6%	3.1%	1.7%	0.3%	1.3%	
Driver Percentage (using local ACS)	95.1%	1.4%	2.8%		0.7%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	94.6%	1.8%	2.0%	0.8%	0.9%		
Disparity Index (using local ACS)	0.98	2.63	1.11		0.39		
Disparity Index (using county ACS)	0.97	3.35	2.08		0.25		
Disparity Index (using DMV Accident data)	0.97	2.01	1.53	2.08	0.30		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	278	767	326		117		286
Stop Reason as % of All Stops							
Safety Stops	69.8%	69.7%	79.4%	69.7%	68.2%	67.3%	70.0%
Moving Violation	69.5%	69.4%	79.4%	69.7%	68.2%	67.3%	69.8%
Suspicion of DWI	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	27.2%	24.3%	17.9%	26.1%	31.8%	16.8%	26.8%
Investigatory Stops	0.4%	0.0%	0.4%	2.1%	0.0%	0.9%	0.4%
Vehicle Equipment	26.7%	24.3%	17.5%	23.9%	31.8%	15.9%	26.3%
Externally Generated Stops	1.6%	1.3%	1.2%	2.8%	0.0%	1.8%	1.6%
Multiple Reasons	0.5%	0.0%	1.2%	0.0%	0.0%	1.8%	0.5%
Unknown Reason	1.0%	4.6%	0.4%	1.4%	0.0%	12.4%	1.1%
Outcome Rates as a % of All Stops							
Warning Rate	82.0%	76.0%	79.9%	76.1%	95.5%	57.7%	81.6%
Ticket Rate	16.7%	20.0%	18.9%	22.5%	4.6%	29.7%	17.0%
Arrest for Violation Rate	1.2%	1.7%	1.2%	0.7%	4.6%	0.0%	1.3%
Arrest for Warrant Rate	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	1.2%	1.7%	0.8%	4.4%	0.0%	0.9%	1.3%
Search rate (incl. searches on warrant)	1.3%	2.3%	0.8%	4.4%	0.0%	0.9%	1.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	75.3%	42.9%	50.0%	50.0%	NA	100.0%	71.4%
Hit rates (excl. warnings as outcomes)	65.0%	42.9%	50.0%	50.0%	NA	0.0%	62.5%
Hit rates (outcome = arrest)	24.7%	14.3%	0.0%	0.0%	NA	0.0%	22.3%

Table A.5. Hinesburg Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	4,726	90	47	22	3	5	4,893
Excluding externally generated stops	4,581	88	46	21	3	5	4,744
Reasons For Stops							
Safety Stops	4,039	82	41	17	3	5	4,187
Moving Violation	4,034	82	41	17	3	5	4,182
Suspicion of DWI	5	0	0	0	0	0	5
Investigatory/Pretextual Stops	533	6	5	4	0	0	548
Investigatory Stop	115	1	0	0	0	0	116
Vehicle Equipment	418	5	5	4	0	0	432
Externally Generated Stop	145	2	1	1	0	0	149
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	8	0	0	0	0	0	8
Outcomes							
Ticket	2,574	49	23	16	3	4	2,669
Warning	1,973	37	23	5	0	1	2,039
No Action Taken	24	0	0	0	0	0	24
Arrest for violation	13	2	0	0	0	0	15
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	4,564	88	46	21	3	5	4,727
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	4,564	88	46	21	3	5	4,727
Total Stops with Unknown Search	3	0	0	0	0	0	3
Total Stops with Search	14	0	0	0	0	0	14
Search with Probable Cause (PC)	10	0	0	0	0	0	10
Stops with PC Searches, No contraband	5	0	0	0	0	0	5
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	5	0	0	0	0	0	5
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Ticket	4	0	0	0	0	0	4
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	4	0	0	0	0	0	4
Stops with RS Searches, No contraband	1	0	0	0	0	0	1
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	3	0	0	0	0	0	3
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.7%	1.8%	1.0%	0.5%	0.1%	0.1%	
Excluding externally generated stops	96.7%	1.9%	1.0%	0.4%	0.1%	0.1%	
Driver Percentage (using local ACS)	96.1%	2.2%	1.7%				
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	97.1%	1.3%	0.8%	0.7%			
Disparity Index (using local ACS)	1.01	0.85	0.57				
Disparity Index (using county ACS)	1.06	0.72	0.22		0.07		
Disparity Index (using DMV Accident data)	1.00	1.43	1.21	0.63			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,715	1,393	955				1,696
Stop Reason as % of All Stops							
Safety Stops	85.5%	91.1%	87.2%	77.3%	100.0%	100.0%	85.6%
Moving Violation	85.4%	91.1%	87.2%	77.3%	100.0%	100.0%	85.5%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	11.3%	6.7%	10.6%	18.2%	0.0%	0.0%	11.2%
Investigatory Stops	2.4%	1.1%	0.0%	0.0%	0.0%	0.0%	2.4%
Vehicle Equipment	8.8%	5.6%	10.6%	18.2%	0.0%	0.0%	8.8%
Externally Generated Stops	3.1%	2.2%	2.1%	4.6%	0.0%	0.0%	3.1%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Outcome Rates as a % of All Stops							
Warning Rate	43.1%	42.1%	50.0%	23.8%	0.0%	20.0%	43.0%
Ticket Rate	56.2%	55.7%	50.0%	76.2%	100.0%	80.0%	56.2%
Arrest for Violation Rate	0.3%	2.3%	0.0%	0.0%	0.0%	0.0%	0.3%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	57.1%	NA	NA	NA	NA	NA	57.1%
Hit rates (excl. warnings as outcomes)	50.0%	NA	NA	NA	NA	NA	50.0%
Hit rates (outcome = arrest)	0.0%	NA	NA	NA	NA	NA	0.0%

Table A.5. Killington Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	1,380	28	34	16	0	5	1,463
Excluding externally generated stops	1,369	28	30	16	0	5	1,448
Reasons For Stops							
Safety Stops	1,275	25	27	16	0	2	1,345
Moving Violation	1,275	25	27	16	0	2	1,345
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	78	1	1	0	0	0	80
Investigatory Stop	4	0	0	0	0	0	4
Vehicle Equipment	74	1	1	0	0	0	76
Externally Generated Stop	11	0	4	0	0	0	15
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	7	1	0	0	0	0	8
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	9	1	2	0	0	3	15
Outcomes							
Ticket	881	15	17	12	0	2	927
Warning	474	12	14	3	0	0	503
No Action Taken	4	0	0	0	0	1	5
Arrest for violation	19	1	0	1	0	0	21
Arrest for warrant	1	1	0	0	0	0	2
Searches							
Total Stops with No Search	1,345	25	29	15	0	1	1,415
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	6	0	0	0	0	0	6
No Search (all others)	1,339	25	29	15	0	1	1,409
Total Stops with Unknown Search	1	0	1	0	0	3	5
Total Stops with Search	23	3	0	1	0	1	28
Search with Probable Cause (PC)	18	3	0	0	0	0	21
Stops with PC Searches, No contraband	3	0	0	0	0	0	3
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	15	3	0	0	0	0	18
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	11	1	0	0	0	0	12
Stops with PC Searches, Contraband and Arrest	2	2	0	0	0	0	4
Search with Reasonable Suspicion (RS)	2	0	0	1	0	1	4
Stops with RS Searches, No contraband	2	0	0	0	0	0	2
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	1	0	1	2
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	1	0	1	2
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	3	0	0	0	0	0	3
Stops with Warrant Searches, No contraband	3	0	0	0	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.7%	1.9%	2.3%	1.1%		0.3%	
Excluding externally generated stops	94.9%	1.9%	2.1%	1.1%		0.3%	
Driver Percentage (using local ACS)	95.7%		4.3%				
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	91.9%	2.3%	3.5%	2.3%			
Disparity Index (using local ACS)	1.00		0.49				
Disparity Index (using county ACS)	0.99	2.18	1.75				
Disparity Index (using DMV Accident data)	1.03	0.84	0.59	0.48			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	600		274				598
Stop Reason as % of All Stops							
Safety Stops	92.4%	89.3%	79.4%	100.0%	0.0%	40.0%	92.1%
Moving Violation	92.4%	89.3%	79.4%	100.0%	0.0%	40.0%	92.1%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	5.7%	3.6%	2.9%	0.0%	0.0%	0.0%	5.5%
Investigatory Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	5.4%	3.6%	2.9%	0.0%	0.0%	0.0%	5.2%
Externally Generated Stops	0.8%	0.0%	11.8%	0.0%	0.0%	0.0%	1.0%
Multiple Reasons	0.5%	3.6%	0.0%	0.0%	0.0%	0.0%	0.6%
Unknown Reason	0.7%	3.6%	5.9%	0.0%	0.0%	60.0%	0.8%
Outcome Rates as a % of All Stops							
Warning Rate	34.6%	42.9%	46.7%	18.8%	0.0%	0.0%	34.9%
Ticket Rate	64.4%	53.6%	56.7%	75.0%	0.0%	40.0%	64.1%
Arrest for Violation Rate	1.4%	3.6%	0.0%	6.3%	0.0%	0.0%	1.5%
Arrest for Warrant Rate	0.1%	3.6%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.3%	0.0%	0.0%	0.0%	0.0%	20.0%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	1.5%	10.7%	0.0%	6.3%	0.0%	20.0%	1.7%
Search rate (incl. searches on warrant)	1.7%	10.7%	0.0%	6.3%	0.0%	20.0%	1.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	65.2%	100.0%	NA	100.0%	NA	100.0%	70.4%
Hit rates (excl. warnings as outcomes)	56.5%	100.0%	NA	100.0%	NA	100.0%	63.0%
Hit rates (outcome = arrest)	8.7%	66.7%	NA	0.0%	NA	0.0%	14.8%

Table A.5. Ludlow Raw Traffic Stop Data, 2017,19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	631	9	7	6	0	1	654
Excluding externally generated stops	629	9	7	6	0	1	652
Reasons For Stops							
Safety Stops	245	7	4	2	0	1	259
Moving Violation	245	7	4	2	0	1	259
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	74	2	1	4	0	0	81
Investigatory Stop	14	1	0	1	0	0	16
Vehicle Equipment	60	1	1	3	0	0	65
Externally Generated Stop	2	0	0	0	0	0	2
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	310	0	2	0	0	0	312
Outcomes							
Ticket	49	1	2	1	0	0	53
Warning	116	5	3	4	0	0	128
No Action Taken	5	1	0	1	0	0	7
Arrest for violation	8	0	0	0	0	0	8
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	169	5	5	5	0	0	184
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	169	5	5	5	0	0	184
Total Stops with Unknown Search	460	4	2	1	0	1	468
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.6%	1.4%	1.1%	0.9%		0.2%	
Excluding externally generated stops	96.6%	1.4%	1.1%	0.9%		0.2%	
Driver Percentage (using local ACS)	91.0%	2.7%	2.7%		3.6%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	95.4%	1.0%	2.7%	0.7%	0.1%		
Disparity Index (using local ACS)	1.07	0.52	0.40				
Disparity Index (using county ACS)	1.01	1.27	0.72				
Disparity Index (using DMV Accident data)	1.01	1.38	0.40	1.32			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	883	429	333				824
Stop Reason as % of All Stops							
Safety Stops	38.8%	77.8%	57.1%	33.3%	0.0%	100.0%	39.5%
Moving Violation	38.8%	77.8%	57.1%	33.3%	0.0%	100.0%	39.5%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	11.7%	22.2%	14.3%	66.7%	0.0%	0.0%	12.4%
Investigatory Stops	2.2%	11.1%	0.0%	16.7%	0.0%	0.0%	2.5%
Vehicle Equipment	9.5%	11.1%	14.3%	50.0%	0.0%	0.0%	10.0%
Externally Generated Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	49.1%	0.0%	28.6%	0.0%	0.0%	0.0%	47.8%
Outcome Rates as a % of All Stops							
Warning Rate	18.4%	55.6%	42.9%	66.7%	0.0%	0.0%	19.7%
Ticket Rate	7.8%	11.1%	28.6%	16.7%	0.0%	0.0%	8.1%
Arrest for Violation Rate	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.8%	11.1%	0.0%	16.7%	0.0%	0.0%	1.1%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Lyndon Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	815	14	2	2	0	2	835
Excluding externally generated stops	812	14	2	2	0	2	832
Reasons For Stops							
Safety Stops	365	5	1	1	0	1	373
Moving Violation	365	5	1	1	0	1	373
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	184	4	1	0	0	0	189
Investigatory Stop	6	0	0	0	0	0	6
Vehicle Equipment	178	4	1	0	0	0	183
Externally Generated Stop	3	0	0	0	0	0	3
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	263	5	0	1	0	1	270
Outcomes							
Ticket	109	4	0	1	0	1	115
Warning	695	10	2	1	0	1	709
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	13	0	0	0	0	0	13
Arrest for warrant	4	0	0	0	0	0	4
Searches							
Total Stops with No Search	805	14	2	2	0	2	825
No Search & Contraband & Arrest for violation	2	0	0	0	0	0	2
No Search & Contraband & No arrest	7	0	0	0	0	0	7
No Search (all others)	796	14	2	2	0	2	816
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	7	0	0	0	0	0	7
Search with Probable Cause (PC)	5	0	0	0	0	0	5
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	5	0	0	0	0	0	5
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	2	0	0	0	0	0	2
Stops with RS Searches, No contraband	2	0	0	0	0	0	2
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.8%	1.7%	0.2%	0.2%		0.2%	
Excluding externally generated stops	97.8%	1.7%	0.2%	0.2%		0.2%	
Driver Percentage (using local ACS)	97.6%		1.8%		0.6%		
Driver Percentage (using county ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (DMV Accident data)	100.0%						
Disparity Index (using local ACS)	1.01		0.13				
Disparity Index (using county ACS)	1.02	1.69	0.20				
Disparity Index (using DMV Accident data)	0.98						
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	140		19				140
Stop Reason as % of All Stops							
Safety Stops	44.8%	35.7%	50.0%	50.0%	0.0%	50.0%	44.7%
Moving Violation	44.8%	35.7%	50.0%	50.0%	0.0%	50.0%	44.7%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	22.6%	28.6%	50.0%	0.0%	0.0%	0.0%	22.7%
Investigatory Stops	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Vehicle Equipment	21.8%	28.6%	50.0%	0.0%	0.0%	0.0%	22.0%
Externally Generated Stops	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	32.3%	35.7%	0.0%	50.0%	0.0%	50.0%	32.3%
Outcome Rates as a % of All Stops							
Warning Rate	85.6%	71.4%	100.0%	50.0%	0.0%	50.0%	85.3%
Ticket Rate	13.4%	28.6%	0.0%	50.0%	0.0%	50.0%	13.7%
Arrest for Violation Rate	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%
Arrest for Warrant Rate	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Search rate (incl. searches on warrant)	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	71.4%	NA	NA	NA	NA	NA	71.4%
Hit rates (excl. warnings as outcomes)	42.9%	NA	NA	NA	NA	NA	42.9%
Hit rates (outcome = arrest)	0.0%	NA	NA	NA	NA	NA	0.0%

Table A.5. Manchester Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	6,128	140	72	47	0	107	6,494
Excluding externally generated stops	6,111	140	72	47	0	106	6,476
Reasons For Stops							
Safety Stops	4,642	104	62	34	0	64	4,906
Moving Violation	4,640	104	62	34	0	64	4,904
Suspicion of DWI	2	0	0	0	0	0	2
Investigatory/Pretextual Stops	997	24	9	10	0	20	1,060
Investigatory Stop	24	0	0	1	0	1	26
Vehicle Equipment	973	24	9	9	0	19	1,034
Externally Generated Stop	17	0	0	0	0	1	18
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	10	0	0	1	0	1	12
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	462	12	1	2	0	21	498
Outcomes							
Ticket	1,006	26	17	15	0	14	1,078
Warning	4,704	104	53	31	0	71	4,963
No Action Taken	8	0	0	0	0	0	8
Arrest for violation	14	1	0	0	0	0	15
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	5,488	125	70	44	0	81	5,808
No Search & Contraband & Arrest for violation	2	0	0	0	0	0	2
No Search & Contraband & No arrest	7	0	0	0	0	0	7
No Search (all others)	5,479	125	70	44	0	81	5,799
Total Stops with Unknown Search	582	10	2	2	0	24	620
Total Stops with Search	41	5	0	1	0	1	48
Search with Probable Cause (PC)	25	4	0	1	0	1	31
Stops with PC Searches, No contraband	7	0	0	0	0	1	8
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	18	4	0	1	0	0	23
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	2	0	0	0	0	4
Stops with PC Searches, Contraband and Ticket	16	2	0	1	0	0	19
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	8	0	0	0	0	0	8
Stops with RS Searches, No contraband	4	0	0	0	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	4	0	0	0	0	0	4
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	8	1	0	0	0	0	9
Stops with Warrant Searches, No contraband	5	1	0	0	0	0	6
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	3	0	0	0	0	0	3
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	95.9%	2.2%	1.1%	0.7%		1.7%	
Excluding externally generated stops	95.9%	2.2%	1.1%	0.7%		1.7%	
Driver Percentage (using local ACS)	98.1%		1.9%				
Driver Percentage (using county ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (DMV Accident data)	95.5%	1.8%	2.2%	0.5%			
Disparity Index (using local ACS)	0.99		0.60				
Disparity Index (using county ACS)	1.01	1.30	1.63				
Disparity Index (using DMV Accident data)	1.01	1.22	0.51	1.48			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	2,208		1,273				2,239
Stop Reason as % of All Stops							
Safety Stops	75.8%	74.3%	86.1%	72.3%	0.0%	59.8%	75.8%
Moving Violation	75.7%	74.3%	86.1%	72.3%	0.0%	59.8%	75.8%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	16.3%	17.1%	12.5%	21.3%	0.0%	18.7%	16.3%
Investigatory Stops	0.4%	0.0%	0.0%	2.1%	0.0%	0.9%	0.4%
Vehicle Equipment	15.9%	17.1%	12.5%	19.2%	0.0%	17.8%	15.9%
Externally Generated Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.9%	0.3%
Multiple Reasons	0.2%	0.0%	0.0%	2.1%	0.0%	0.9%	0.2%
Unknown Reason	7.5%	8.6%	1.4%	4.3%	0.0%	19.6%	7.5%
Outcome Rates as a % of All Stops							
Warning Rate	77.0%	74.3%	73.6%	66.0%	0.0%	67.0%	76.8%
Ticket Rate	16.5%	18.6%	23.6%	31.9%	0.0%	13.2%	16.7%
Arrest for Violation Rate	0.2%	0.7%	0.0%	0.0%	0.0%	0.0%	0.2%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	2.9%	0.0%	2.1%	0.0%	0.9%	0.6%
Search rate (incl. searches on warrant)	0.7%	3.6%	0.0%	2.1%	0.0%	0.9%	0.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	61.0%	80.0%	NA	100.0%	NA	0.0%	63.8%
Hit rates (excl. warnings as outcomes)	53.7%	40.0%	NA	100.0%	NA	0.0%	53.2%
Hit rates (outcome = arrest)	2.4%	0.0%	NA	0.0%	NA	0.0%	2.1%

Table A.5. Middlebury Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	4,395	123	80	29	4	16	4,647
Excluding externally generated stops	4,338	121	79	29	4	15	4,586
Reasons For Stops							
Safety Stops	2,651	84	49	20	3	7	2,814
Moving Violation	2,639	84	49	20	3	7	2,802
Suspicion of DWI	12	0	0	0	0	0	12
Investigatory/Pretextual Stops	1,543	30	26	9	1	6	1,615
Investigatory Stop	14	0	0	0	0	0	14
Vehicle Equipment	1,529	30	26	9	1	6	1,601
Externally Generated Stop	57	2	1	0	0	1	61
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	3	0	0	0	0	0	3
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	141	7	4	0	0	2	154
Outcomes							
Ticket	713	19	8	4	1	3	748
Warning	3,564	100	69	24	3	11	3,771
No Action Taken	4	0	0	0	0	0	4
Arrest for violation	61	2	1	1	0	0	65
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	4,266	121	78	28	4	14	4,511
No Search & Contraband & Arrest for violation	6	0	0	0	0	0	6
No Search & Contraband & No arrest	12	0	2	0	0	0	14
No Search (all others)	4,248	121	76	28	4	14	4,491
Total Stops with Unknown Search	7	0	1	0	0	1	9
Total Stops with Search	65	0	0	1	0	0	66
Search with Probable Cause (PC)	55	0	0	1	0	0	56
Stops with PC Searches, No contraband	14	0	0	1	0	0	15
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	41	0	0	0	0	0	41
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	8	0	0	0	0	0	8
Stops with PC Searches, Contraband and Ticket	24	0	0	0	0	0	24
Stops with PC Searches, Contraband and Arrest	9	0	0	0	0	0	9
Search with Reasonable Suspicion (RS)	8	0	0	0	0	0	8
Stops with RS Searches, No contraband	4	0	0	0	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	4	0	0	0	0	0	4
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	2	0	0	0	0	0	2
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.9%	2.7%	1.7%	0.6%	0.1%	0.3%	
Excluding externally generated stops	94.9%	2.6%	1.7%	0.6%	0.1%	0.3%	
Driver Percentage (using local ACS)	88.0%	3.8%	7.4%		0.8%		
Driver Percentage (using county ACS)	95.1%	1.7%	2.4%		0.9%		
Driver Percentage (DMV Accident data)	95.1%	1.2%	1.1%	0.5%	2.1%		
Disparity Index (using local ACS)	1.09	0.70	0.24		0.11		
Disparity Index (using county ACS)	1.00	1.57	0.73		0.10		
Disparity Index (using DMV Accident data)	1.00	2.21	1.57	1.27	0.04		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	177	113	38		16		163
Stop Reason as % of All Stops							
Safety Stops	60.3%	68.3%	61.3%	69.0%	75.0%	43.8%	60.6%
Moving Violation	60.1%	68.3%	61.3%	69.0%	75.0%	43.8%	60.4%
Suspicion of DWI	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	35.1%	24.4%	32.5%	31.0%	25.0%	37.5%	34.7%
Investigatory Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	34.8%	24.4%	32.5%	31.0%	25.0%	37.5%	34.4%
Externally Generated Stops	1.3%	1.6%	1.3%	0.0%	0.0%	6.3%	1.3%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	3.2%	5.7%	5.0%	0.0%	0.0%	12.5%	3.3%
Outcome Rates as a % of All Stops							
Warning Rate	82.2%	82.6%	87.3%	82.8%	75.0%	73.3%	82.3%
Ticket Rate	16.4%	15.7%	10.1%	13.8%	25.0%	20.0%	16.3%
Arrest for Violation Rate	1.4%	1.7%	1.3%	3.5%	0.0%	0.0%	1.4%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	1.5%	0.0%	0.0%	3.5%	0.0%	0.0%	1.4%
Search rate (incl. searches on warrant)	1.5%	0.0%	0.0%	3.5%	0.0%	0.0%	1.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	70.8%	NA	NA	0.0%	NA	NA	69.7%
Hit rates (excl. warnings as outcomes)	58.5%	NA	NA	0.0%	NA	NA	57.6%
Hit rates (outcome = arrest)	15.4%	NA	NA	0.0%	NA	NA	15.2%

Table A.5. Milton Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	14,906	323	146	58	8	337	15,778
Excluding externally generated stops	14,792	319	145	57	8	327	15,648
Reasons For Stops							
Safety Stops	12,547	260	133	46	6	209	13,201
Moving Violation	12,445	249	130	44	5	209	13,082
Suspicion of DWI	102	11	3	2	1	0	119
Investigatory/Pretextual Stops	2,068	53	10	9	1	8	2,149
Investigatory Stop	91	3	2	0	0	5	101
Vehicle Equipment	1,977	50	8	9	1	3	2,048
Externally Generated Stop	114	4	1	1	0	10	130
Multiple Reasons - Moving Violation & Suspicion of DWI	2	0	0	0	0	0	2
Multiple Reasons - Moving Violation & Vehicle Equipment	12	0	0	0	0	0	12
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	163	6	2	2	1	110	284
Outcomes							
Ticket	3,190	64	27	14	1	58	3,354
Warning	11,311	240	113	42	6	166	11,878
No Action Taken	123	6	2	0	0	1	132
Arrest for violation	268	10	3	0	0	0	281
Arrest for warrant	12	0	0	0	0	0	12
Searches							
Total Stops with No Search	14,554	310	144	56	7	212	15,283
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	30	1	0	0	1	2	34
No Search (all others)	14,521	309	144	56	6	210	15,246
Total Stops with Unknown Search	111	2	1	1	1	110	226
Total Stops with Search	127	7	0	0	0	5	139
Search with Probable Cause (PC)	46	3	0	0	0	1	50
Stops with PC Searches, No contraband	9	1	0	0	0	0	10
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	36	2	0	0	0	1	39
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Ticket	26	1	0	0	0	1	28
Stops with PC Searches, Contraband and Arrest	9	1	0	0	0	0	10
Search with Reasonable Suspicion (RS)	67	4	0	0	0	2	73
Stops with RS Searches, No contraband	23	3	0	0	0	1	27
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	44	1	0	0	0	1	46
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	14	0	0	0	0	0	14
Stops with RS Searches, Contraband & Ticket	22	1	0	0	0	1	24
Stops with RS Searches, Contraband & Arrest	8	0	0	0	0	0	8
Search with Warrant	14	0	0	0	0	2	16
Stops with Warrant Searches, No contraband	8	0	0	0	0	0	8
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	6	0	0	0	0	2	8
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	4	0	0	0	0	2	6
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	96.5%	2.1%	0.9%	0.4%	0.1%	2.2%	
Excluding externally generated stops	96.5%	2.1%	0.9%	0.4%	0.1%	2.1%	
Driver Percentage (using local ACS)	100.0%						
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	97.8%	1.3%	0.7%	0.2%	0.1%		
Disparity Index (using local ACS)	0.97						
Disparity Index (using county ACS)	1.05	0.80	0.21		0.06		
Disparity Index (using DMV Accident data)	0.99	1.60	1.35	1.86	0.52		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,947						2,012
Stop Reason as % of All Stops							
Safety Stops	84.2%	80.5%	91.1%	79.3%	75.0%	62.0%	84.1%
Moving Violation	83.5%	77.1%	89.0%	75.9%	62.5%	62.0%	83.4%
Suspicion of DWI	0.7%	3.4%	2.1%	3.5%	12.5%	0.0%	0.8%
Investigatory/Pretextual Stops	13.9%	16.4%	6.9%	15.5%	12.5%	2.4%	13.9%
Investigatory Stops	0.6%	0.9%	1.4%	0.0%	0.0%	1.5%	0.6%
Vehicle Equipment	13.3%	15.5%	5.5%	15.5%	12.5%	0.9%	13.2%
Externally Generated Stops	0.8%	1.2%	0.7%	1.7%	0.0%	3.0%	0.8%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	1.1%	1.9%	1.4%	3.5%	12.5%	32.6%	1.1%
Outcome Rates as a % of All Stops							
Warning Rate	76.5%	75.2%	77.9%	73.7%	75.0%	50.8%	76.4%
Ticket Rate	21.6%	20.1%	18.6%	24.6%	12.5%	17.7%	21.5%
Arrest for Violation Rate	1.8%	3.1%	2.1%	0.0%	0.0%	0.0%	1.8%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.8%	1.9%	1.4%	0.0%	0.0%	0.3%	0.9%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	2.2%	0.0%	0.0%	0.0%	0.9%	0.8%
Search rate (incl. searches on warrant)	0.9%	2.2%	0.0%	0.0%	0.0%	1.5%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	67.7%	42.9%	NA	NA	NA	80.0%	66.4%
Hit rates (excl. warnings as outcomes)	55.9%	42.9%	NA	NA	NA	80.0%	55.2%
Hit rates (outcome = arrest)	15.0%	14.3%	NA	NA	NA	0.0%	14.9%

Table A.5. Montpelier Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	9,206	181	127	51	3	288	9,856
Excluding externally generated stops	9,064	174	127	48	2	283	9,698
Reasons For Stops							
Safety Stops	5,163	102	83	28	1	122	5,499
Moving Violation	5,142	102	83	28	1	122	5,478
Suspicion of DWI	21	0	0	0	0	0	21
Investigatory/Pretextual Stops	3,630	64	43	16	1	119	3,873
Investigatory Stop	86	2	2	1	1	1	93
Vehicle Equipment	3,544	62	41	15	0	118	3,780
Externally Generated Stop	142	7	0	3	1	5	158
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	12	0	0	0	0	0	12
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	258	8	1	4	0	42	313
Outcomes							
Ticket	1,509	40	17	15	0	52	1,633
Warning	7,634	141	113	33	1	218	8,140
No Action Taken	5	0	0	0	0	0	5
Arrest for violation	86	0	1	1	1	0	89
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	8,493	158	113	44	2	255	9,065
No Search & Contraband & Arrest for violation	4	0	0	1	0	0	5
No Search & Contraband & No arrest	21	0	0	0	0	2	23
No Search (all others)	8,468	158	113	43	2	253	9,037
Total Stops with Unknown Search	522	13	13	4	0	28	580
Total Stops with Search	49	3	1	0	0	0	53
Search with Probable Cause (PC)	36	2	0	0	0	0	38
Stops with PC Searches, No contraband	2	0	0	0	0	0	2
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	34	2	0	0	0	0	36
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	13	2	0	0	0	0	15
Stops with PC Searches, Contraband and Ticket	12	0	0	0	0	0	12
Stops with PC Searches, Contraband and Arrest	9	0	0	0	0	0	9
Search with Reasonable Suspicion (RS)	9	1	1	0	0	0	11
Stops with RS Searches, No contraband	4	0	1	0	0	0	5
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	5	1	0	0	0	0	6
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	3	1	0	0	0	0	4
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	4	0	0	0	0	0	4
Stops with Warrant Searches, No contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	2	0	0	0	0	0	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	96.2%	1.9%	1.3%	0.5%	0.0%	3.0%	
Excluding externally generated stops	96.3%	1.8%	1.3%	0.5%	0.0%	3.0%	
Driver Percentage (using local ACS)	95.3%	2.9%	1.4%		0.4%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	96.7%	1.5%	0.8%	0.8%	0.2%		
Disparity Index (using local ACS)	1.02	0.64	0.97		0.05		
Disparity Index (using county ACS)	1.01	1.33	0.97		0.02		
Disparity Index (using DMV Accident data)	1.00	1.23	1.69	0.64	0.11		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	326	214	304		19		321
Stop Reason as % of All Stops							
Safety Stops	56.1%	56.4%	65.4%	54.9%	33.3%	42.4%	56.2%
Moving Violation	55.9%	56.4%	65.4%	54.9%	33.3%	42.4%	56.0%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	39.4%	35.4%	33.9%	31.4%	33.3%	41.3%	39.2%
Investigatory Stops	0.9%	1.1%	1.6%	2.0%	33.3%	0.4%	1.0%
Vehicle Equipment	38.5%	34.3%	32.3%	29.4%	0.0%	41.0%	38.3%
Externally Generated Stops	1.5%	3.9%	0.0%	5.9%	33.3%	1.7%	1.6%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	2.8%	4.4%	0.8%	7.8%	0.0%	14.6%	2.8%
Outcome Rates as a % of All Stops							
Warning Rate	84.2%	81.0%	89.0%	68.8%	50.0%	77.0%	84.1%
Ticket Rate	16.7%	23.0%	13.4%	31.3%	0.0%	18.4%	16.8%
Arrest for Violation Rate	1.0%	0.0%	0.8%	2.1%	50.0%	0.0%	1.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	1.7%	0.8%	0.0%	0.0%	0.0%	0.5%
Search rate (incl. searches on warrant)	0.5%	1.7%	0.8%	0.0%	0.0%	0.0%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	83.7%	100.0%	0.0%	NA	NA	NA	83.0%
Hit rates (excl. warnings as outcomes)	55.1%	33.3%	0.0%	NA	NA	NA	52.8%
Hit rates (outcome = arrest)	22.5%	0.0%	0.0%	NA	NA	NA	20.8%

Table A.5. Morristown Raw Traffic Stop Data, 2017-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	2,335	57	8	17	3	7	2,427
Excluding externally generated stops	2,302	56	8	17	3	7	2,393
Reasons For Stops							
Safety Stops	1,347	38	4	12	2	3	1,406
Moving Violation	1,335	38	4	12	2	3	1,394
Suspicion of DWI	12	0	0	0	0	0	12
Investigatory/Pretextual Stops	917	18	3	4	1	4	947
Investigatory Stop	45	2	2	0	0	0	49
Vehicle Equipment	872	16	1	4	1	4	898
Externally Generated Stop	33	1	0	0	0	0	34
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	38	0	1	1	0	0	40
Outcomes							
Ticket	594	15	1	2	1	1	614
Warning	1,684	41	6	14	2	6	1,753
No Action Taken	14	1	1	0	0	0	16
Arrest for violation	29	1	0	1	0	0	31
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	2,279	56	8	17	3	6	2,369
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	10	0	0	0	0	0	10
No Search (all others)	2,268	56	8	17	3	6	2,358
Total Stops with Unknown Search	4	0	0	0	0	1	5
Total Stops with Search	19	0	0	0	0	0	19
Search with Probable Cause (PC)	10	0	0	0	0	0	10
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	9	0	0	0	0	0	9
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Ticket	7	0	0	0	0	0	7
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	1	0	0	0	0	0	1
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	0	0	0	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	8	0	0	0	0	0	8
Stops with Warrant Searches, No contraband	5	0	0	0	0	0	5
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	3	0	0	0	0	0	3
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.5%	2.4%	0.3%	0.7%	0.1%	0.3%	
Excluding externally generated stops	96.5%	2.3%	0.3%	0.7%	0.1%	0.3%	
Driver Percentage (using local ACS)	92.9%	2.8%	1.1%		3.2%		
Driver Percentage (using county ACS)	95.9%	1.5%	1.0%		1.5%		
Driver Percentage (DMV Accident data)	97.1%	1.2%	0.7%	0.7%	0.3%		
Disparity Index (using local ACS)	1.05	0.84	0.31		0.04		
Disparity Index (using county ACS)	1.01	1.58	0.34		0.08		
Disparity Index (using DMV Accident data)	0.99	1.96	0.48	1.02	0.42		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	180	145	51		7		172
Stop Reason as % of All Stops							
Safety Stops	57.7%	66.7%	50.0%	70.6%	66.7%	42.9%	58.0%
Moving Violation	57.2%	66.7%	50.0%	70.6%	66.7%	42.9%	57.5%
Suspicion of DWI	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Investigatory/Pretextual Stops	39.3%	31.6%	37.5%	23.5%	33.3%	57.1%	39.0%
Investigatory Stops	1.9%	3.5%	25.0%	0.0%	0.0%	0.0%	2.0%
Vehicle Equipment	37.3%	28.1%	12.5%	23.5%	33.3%	57.1%	36.9%
Externally Generated Stops	1.4%	1.8%	0.0%	0.0%	0.0%	0.0%	1.4%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	1.6%	0.0%	12.5%	5.9%	0.0%	0.0%	1.7%
Outcome Rates as a % of All Stops							
Warning Rate	73.2%	73.2%	75.0%	82.4%	66.7%	85.7%	73.2%
Ticket Rate	25.8%	26.8%	12.5%	11.8%	33.3%	14.3%	25.7%
Arrest for Violation Rate	1.3%	1.8%	0.0%	5.9%	0.0%	0.0%	1.3%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.6%	1.8%	12.5%	0.0%	0.0%	0.0%	0.7%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Search rate (incl. searches on warrant)	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	68.4%	NA	NA	NA	NA	NA	68.4%
Hit rates (excl. warnings as outcomes)	63.2%	NA	NA	NA	NA	NA	63.2%
Hit rates (outcome = arrest)	5.3%	NA	NA	NA	NA	NA	5.3%

Table A.5. Newport Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	4,191	67	13	17	1	16	4,305
Excluding externally generated stops	4,121	66	13	17	1	16	4,234
Reasons For Stops							
Safety Stops	3,403	53	12	13	0	9	3,490
Moving Violation	3,401	53	12	13	0	9	3,488
Suspicion of DWI	2	0	0	0	0	0	2
Investigatory/Pretextual Stops	550	10	0	2	0	2	564
Investigatory Stop	34	2	0	0	0	0	36
Vehicle Equipment	516	8	0	2	0	2	528
Externally Generated Stop	70	1	0	0	0	0	71
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	166	3	1	2	1	5	178
Outcomes							
Ticket	1,419	23	4	7	1	6	1,460
Warning	2,649	41	9	9	0	6	2,714
No Action Taken	16	1	0	0	0	0	17
Arrest for violation	31	2	0	0	0	0	33
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	3,993	61	12	16	1	10	4,093
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	13	0	0	0	0	0	13
No Search (all others)	3,980	61	12	16	1	10	4,080
Total Stops with Unknown Search	91	2	0	1	0	6	100
Total Stops with Search	37	3	1	0	0	0	41
Search with Probable Cause (PC)	16	0	1	0	0	0	17
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	15	0	1	0	0	0	16
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Ticket	10	0	1	0	0	0	11
Stops with PC Searches, Contraband and Arrest	2	0	0	0	0	0	2
Search with Reasonable Suspicion (RS)	17	1	0	0	0	0	18
Stops with RS Searches, No contraband	9	1	0	0	0	0	10
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	8	0	0	0	0	0	8
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	6	0	0	0	0	0	6
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	4	2	0	0	0	0	6
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	4	2	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	2	2	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	97.7%	1.6%	0.3%	0.4%	0.0%	0.4%	
Excluding externally generated stops	97.7%	1.6%	0.3%	0.4%	0.0%	0.4%	
Driver Percentage (using local ACS)	97.3%	1.4%		1.3%			
Driver Percentage (using county ACS)	96.2%	1.1%	0.6%	2.0%			
Driver Percentage (DMV Accident data)	96.8%	0.9%	1.3%	0.8%	0.2%		
Disparity Index (using local ACS)	1.01	1.12		0.02			
Disparity Index (using county ACS)	1.02	1.43	0.52	0.01			
Disparity Index (using DMV Accident data)	1.01	1.74	0.24	0.50	0.12		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	323	360			7		320
Stop Reason as % of All Stops							
Safety Stops	81.2%	79.1%	92.3%	76.5%	0.0%	56.3%	81.2%
Moving Violation	81.2%	79.1%	92.3%	76.5%	0.0%	56.3%	81.1%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	13.1%	14.9%	0.0%	11.8%	0.0%	12.5%	13.1%
Investigatory Stops	0.8%	3.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Vehicle Equipment	12.3%	11.9%	0.0%	11.8%	0.0%	12.5%	12.3%
Externally Generated Stops	1.7%	1.5%	0.0%	0.0%	0.0%	0.0%	1.7%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	4.0%	4.5%	7.7%	11.8%	100.0%	31.3%	4.0%
Outcome Rates as a % of All Stops							
Warning Rate	64.3%	62.1%	69.2%	52.9%	0.0%	37.5%	64.2%
Ticket Rate	34.4%	34.9%	30.8%	41.2%	100.0%	37.5%	34.5%
Arrest for Violation Rate	0.8%	3.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.4%	1.5%	0.0%	0.0%	0.0%	0.0%	0.4%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	1.5%	7.7%	0.0%	0.0%	0.0%	0.8%
Search rate (incl. searches on warrant)	0.9%	4.6%	7.7%	0.0%	0.0%	0.0%	1.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	73.0%	66.7%	100.0%	NA	NA	NA	73.2%
Hit rates (excl. warnings as outcomes)	56.8%	66.7%	100.0%	NA	NA	NA	58.5%
Hit rates (outcome = arrest)	13.5%	66.7%	0.0%	NA	NA	NA	17.1%

Table A.5. Northfield Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	1,828	46	20	29	2	41	1,966
Excluding externally generated stops	1,772	46	20	28	2	41	1,909
Reasons For Stops							
Safety Stops	1,034	30	18	19	1	20	1,122
Moving Violation	1,029	29	18	19	1	20	1,116
Suspicion of DWI	5	1	0	0	0	0	6
Investigatory/Pretextual Stops	692	14	1	9	1	7	724
Investigatory Stop	14	0	0	0	0	0	14
Vehicle Equipment	678	14	1	9	1	7	710
Externally Generated Stop	56	0	0	1	0	0	57
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	4	0	0	0	0	0	4
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	42	2	1	0	0	14	59
Outcomes							
Ticket	143	4	3	1	0	0	151
Warning	1,087	29	14	16	2	3	1,151
No Action Taken	43	0	0	0	0	0	43
Arrest for violation	12	0	0	0	0	0	12
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	1,275	32	17	17	2	3	1,346
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	1,275	32	17	17	2	3	1,346
Total Stops with Unknown Search	474	14	3	11	0	38	540
Total Stops with Search	23	0	0	0	0	0	23
Search with Probable Cause (PC)	12	0	0	0	0	0	12
Stops with PC Searches, No contraband	2	0	0	0	0	0	2
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	10	0	0	0	0	0	10
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with PC Searches, Contraband and Ticket	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Arrest	3	0	0	0	0	0	3
Search with Reasonable Suspicion (RS)	8	0	0	0	0	0	8
Stops with RS Searches, No contraband	4	0	0	0	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	4	0	0	0	0	0	4
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	3	0	0	0	0	0	3
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	95.0%	2.4%	1.0%	1.5%	0.1%	2.1%	
Excluding externally generated stops	94.9%	2.5%	1.1%	1.5%	0.1%	2.2%	
Driver Percentage (using local ACS)	97.0%	1.6%	0.7%		0.7%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	96.3%	1.4%	1.1%	0.9%	0.3%		
Disparity Index (using local ACS)	0.99	1.56	1.55		0.16		
Disparity Index (using county ACS)	1.00	1.79	0.78		0.10		
Disparity Index (using DMV Accident data)	0.99	1.76	0.97	1.67	0.36		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	301	411	375		42		302
Stop Reason as % of All Stops							
Safety Stops	56.6%	65.2%	90.0%	65.5%	50.0%	48.8%	57.3%
Moving Violation	56.3%	63.0%	90.0%	65.5%	50.0%	48.8%	56.9%
Suspicion of DWI	0.3%	2.2%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	37.9%	30.4%	5.0%	31.0%	50.0%	17.1%	37.3%
Investigatory Stops	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Vehicle Equipment	37.1%	30.4%	5.0%	31.0%	50.0%	17.1%	36.5%
Externally Generated Stops	3.1%	0.0%	0.0%	3.5%	0.0%	0.0%	3.0%
Multiple Reasons	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Unknown Reason	2.3%	4.4%	5.0%	0.0%	0.0%	34.2%	2.3%
Outcome Rates as a % of All Stops							
Warning Rate	61.3%	63.0%	70.0%	57.1%	100.0%	7.3%	61.5%
Ticket Rate	8.1%	8.7%	15.0%	3.6%	0.0%	0.0%	8.1%
Arrest for Violation Rate	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
Search rate (incl. searches on warrant)	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	60.9%	NA	NA	NA	NA	NA	60.9%
Hit rates (excl. warnings as outcomes)	39.1%	NA	NA	NA	NA	NA	39.1%
Hit rates (outcome = arrest)	13.0%	NA	NA	NA	NA	NA	13.0%

Table A.5. Norwich Raw Traffic Stop Data, 2019							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	669	5	22	8	2	5	711
Excluding externally generated stops	651	5	21	8	1	2	688
Reasons For Stops							
Safety Stops	538	5	21	7	1	2	574
Moving Violation	538	5	21	7	1	2	574
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	110	0	0	1	0	0	111
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	110	0	0	1	0	0	111
Externally Generated Stop	18	0	1	0	1	3	23
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	3	0	0	0	0	0	3
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	0	0	0	0	0
Outcomes							
Ticket	261	1	9	6	1	1	279
Warning	401	4	12	3	0	1	421
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	651	5	21	8	1	2	688
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	651	5	21	8	1	2	688
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.8%	0.7%	3.1%	1.1%	0.3%	0.7%	
Excluding externally generated stops	94.9%	0.7%	3.1%	1.2%	0.1%	0.3%	
Driver Percentage (using local ACS)	90.7%	2.5%	6.9%				
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	94.0%	1.2%	3.7%	0.9%	0.2%		
Disparity Index (using local ACS)	1.06	0.30	0.45				
Disparity Index (using county ACS)	1.00	0.67	2.07		0.13		
Disparity Index (using DMV Accident data)	1.01	0.61	0.83	1.30	0.73		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,177	333	500				1,111
Stop Reason as % of All Stops							
Safety Stops	80.4%	100.0%	95.5%	87.5%	50.0%	40.0%	81.0%
Moving Violation	80.4%	100.0%	95.5%	87.5%	50.0%	40.0%	81.0%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	16.4%	0.0%	0.0%	12.5%	0.0%	0.0%	15.7%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	16.4%	0.0%	0.0%	12.5%	0.0%	0.0%	15.7%
Externally Generated Stops	2.7%	0.0%	4.6%	0.0%	50.0%	60.0%	2.8%
Multiple Reasons	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	61.6%	80.0%	57.1%	37.5%	0.0%	50.0%	61.2%
Ticket Rate	40.1%	20.0%	42.9%	75.0%	100.0%	50.0%	40.5%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Pawlet Raw Traffic Stop Data, 2017-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	14	2	0	0	0	0	16
Excluding externally generated stops	14	2	0	0	0	0	16
Reasons For Stops							
Safety Stops	14	1	0	0	0	0	15
Moving Violation	14	1	0	0	0	0	15
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	0	0	0	0	0	0	0
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	0	0	0	0	0	0	0
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	1	0	0	0	0	1
Outcomes							
Ticket	14	1	0	0	0	0	15
Warning	0	0	0	0	0	0	0
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	14	1	0	0	0	0	15
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	14	1	0	0	0	0	15
Total Stops with Unknown Search	0	1	0	0	0	0	1
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	87.5%	12.5%					
Excluding externally generated stops	87.5%	12.5%					
Driver Percentage (using local ACS)	95.5%	1.8%			2.6%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	0.92	6.94					
Disparity Index (using county ACS)	0.90	13.89					
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	100.0%	50.0%	0.0%	0.0%	0.0%	0.0%	93.8%
Moving Violation	100.0%	50.0%	0.0%	0.0%	0.0%	0.0%	93.8%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	6.3%
Outcome Rates as a % of All Stops							
Warning Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ticket Rate	100.0%	50.0%	0.0%	0.0%	0.0%	0.0%	93.8%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Pittsford Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	944	67	12	17	1	39	1,080
Excluding externally generated stops	944	67	12	17	1	39	1,080
Reasons For Stops							
Safety Stops	905	67	12	16	1	37	1,038
Moving Violation	902	67	12	16	1	37	1,035
Suspicion of DWI	3	0	0	0	0	0	3
Investigatory/Pretextual Stops	36	0	0	1	0	2	39
Investigatory Stop	4	0	0	0	0	0	4
Vehicle Equipment	32	0	0	1	0	2	35
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	3	0	0	0	0	0	3
Outcomes							
Ticket	681	61	9	16	1	31	799
Warning	259	6	3	1	0	8	277
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	3	0	0	0	0	0	3
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	934	66	12	17	1	38	1,068
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	934	66	12	17	1	38	1,068
Total Stops with Unknown Search	6	1	0	0	0	1	8
Total Stops with Search	4	0	0	0	0	0	4
Search with Probable Cause (PC)	1	0	0	0	0	0	1
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	2	0	0	0	0	0	2
Stops with RS Searches, No contraband	2	0	0	0	0	0	2
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	1	0	0	0	0	0	1
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	90.7%	6.4%	1.2%	1.6%	0.1%	3.7%	
Excluding externally generated stops	90.7%	6.4%	1.2%	1.6%	0.1%	3.7%	
Driver Percentage (using local ACS)	87.7%	1.0%	6.7%		4.6%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	94.4%	1.9%	1.9%	1.9%			
Disparity Index (using local ACS)	1.05	6.54	0.18		0.02		
Disparity Index (using county ACS)	0.95	7.27	0.98		0.10		
Disparity Index (using DMV Accident data)	0.96	3.39	0.61	0.86			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	352	2,233	59		7		335
Stop Reason as % of All Stops							
Safety Stops	95.9%	100.0%	100.0%	94.1%	100.0%	94.9%	96.2%
Moving Violation	95.6%	100.0%	100.0%	94.1%	100.0%	94.9%	95.9%
Suspicion of DWI	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	3.8%	0.0%	0.0%	5.9%	0.0%	5.1%	3.6%
Investigatory Stops	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Vehicle Equipment	3.4%	0.0%	0.0%	5.9%	0.0%	5.1%	3.2%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Outcome Rates as a % of All Stops							
Warning Rate	27.4%	9.0%	25.0%	5.9%	0.0%	20.5%	25.8%
Ticket Rate	72.1%	91.0%	75.0%	94.1%	100.0%	79.5%	73.8%
Arrest for Violation Rate	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	0.0%	NA	NA	NA	NA	NA	0.0%
Hit rates (excl. warnings as outcomes)	0.0%	NA	NA	NA	NA	NA	0.0%
Hit rates (outcome = arrest)	0.0%	NA	NA	NA	NA	NA	0.0%

Table A.5. Poultney Raw Traffic Stop Data, 2017-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	516	6	2	2	0	25	551
Excluding externally generated stops	516	6	2	2	0	25	551
Reasons For Stops							
Safety Stops	508	6	2	2	0	23	541
Moving Violation	508	6	2	2	0	23	541
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	3	0	0	0	0	0	3
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	3	0	0	0	0	0	3
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	5	0	0	0	0	2	7
Outcomes							
Ticket	412	5	2	1	0	24	444
Warning	98	1	0	1	0	1	101
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	5	0	0	0	0	0	5
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	515	6	2	2	0	25	550
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	1	0	0	0	0	0	1
No Search (all others)	514	6	2	2	0	25	549
Total Stops with Unknown Search	1	0	0	0	0	0	1
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	98.1%	1.1%	0.4%	0.4%		4.8%	
Excluding externally generated stops	98.1%	1.1%	0.4%	0.4%		4.8%	
Driver Percentage (using local ACS)	94.6%	2.8%	1.0%		1.6%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.04	0.41	0.38				
Disparity Index (using county ACS)	1.02	1.27	0.32				
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	196	81	77				189
Stop Reason as % of All Stops							
Safety Stops	98.5%	100.0%	100.0%	100.0%	0.0%	92.0%	98.5%
Moving Violation	98.5%	100.0%	100.0%	100.0%	0.0%	92.0%	98.5%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	1.0%	0.0%	0.0%	0.0%	0.0%	8.0%	1.0%
Outcome Rates as a % of All Stops							
Warning Rate	19.0%	16.7%	0.0%	50.0%	0.0%	4.0%	19.0%
Ticket Rate	79.8%	83.3%	100.0%	50.0%	0.0%	96.0%	79.9%
Arrest for Violation Rate	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Randolph Raw Traffic Stop Data, 2014-18							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	1,153	15	3	11	2	16	1,200
Excluding externally generated stops	1,091	15	3	11	2	14	1,136
Reasons For Stops							
Safety Stops	625	10	2	5	0	8	650
Moving Violation	622	10	2	5	0	8	647
Suspicion of DWI	3	0	0	0	0	0	3
Investigatory/Pretextual Stops	440	5	1	6	2	3	457
Investigatory Stop	74	1	0	0	1	0	76
Vehicle Equipment	366	4	1	6	1	3	381
Externally Generated Stop	62	0	0	0	0	2	64
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	7	0	0	0	0	0	7
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	19	0	0	0	0	3	22
Outcomes							
Ticket	415	4	1	4	1	6	431
Warning	675	11	2	7	1	8	704
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	11	0	0	0	0	0	11
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,059	15	2	11	2	13	1,102
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	3	0	0	0	0	1	4
No Search (all others)	1,056	15	2	11	2	12	1,098
Total Stops with Unknown Search	20	0	1	0	0	1	22
Total Stops with Search	12	0	0	0	0	0	12
Search with Probable Cause (PC)	10	0	0	0	0	0	10
Stops with PC Searches, No contraband	2	0	0	0	0	0	2
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	7	0	0	0	0	0	7
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	6	0	0	0	0	0	6
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	2	0	0	0	0	0	2
Stops with RS Searches, No contraband	1	0	0	0	0	0	1
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	0	0	0	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.4%	1.3%	0.3%	0.9%	0.2%	1.4%	
Excluding externally generated stops	97.2%	1.3%	0.3%	1.0%	0.2%	1.2%	
Driver Percentage (using local ACS)	98.3%		1.7%				
Driver Percentage (using county ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (DMV Accident data)	94.0%	2.0%	3.0%	1.0%			
Disparity Index (using local ACS)	1.00		0.16				
Disparity Index (using county ACS)	1.01	1.50	0.34		0.13		
Disparity Index (using DMV Accident data)	1.03	0.67	0.09	0.98			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	183		16				185
Stop Reason as % of All Stops							
Safety Stops	54.2%	66.7%	66.7%	45.5%	0.0%	50.0%	54.2%
Moving Violation	54.0%	66.7%	66.7%	45.5%	0.0%	50.0%	54.0%
Suspicion of DWI	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	38.2%	33.3%	33.3%	54.6%	100.0%	18.8%	38.3%
Investigatory Stops	6.4%	6.7%	0.0%	0.0%	50.0%	0.0%	6.4%
Vehicle Equipment	31.7%	26.7%	33.3%	54.6%	50.0%	18.8%	31.9%
Externally Generated Stops	5.4%	0.0%	0.0%	0.0%	0.0%	12.5%	5.2%
Multiple Reasons	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Unknown Reason	1.7%	0.0%	0.0%	0.0%	0.0%	18.8%	1.6%
Outcome Rates as a % of All Stops							
Warning Rate	61.9%	73.3%	66.7%	63.6%	50.0%	57.1%	62.0%
Ticket Rate	38.0%	26.7%	33.3%	36.4%	50.0%	42.9%	37.9%
Arrest for Violation Rate	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
Search rate (incl. searches on warrant)	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	66.7%	NA	NA	NA	NA	NA	66.7%
Hit rates (excl. warnings as outcomes)	66.7%	NA	NA	NA	NA	NA	66.7%
Hit rates (outcome = arrest)	8.3%	NA	NA	NA	NA	NA	8.3%

Table A.5. Richmond Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	6,064	81	74	51	11	11	6,292
Excluding externally generated stops	6,003	77	73	49	11	10	6,223
Reasons For Stops							
Safety Stops	4,561	60	60	43	7	5	4,736
Moving Violation	4,542	59	60	43	7	5	4,716
Suspicion of DWI	19	1	0	0	0	0	20
Investigatory/Pretextual Stops	1,416	16	13	6	4	4	1,459
Investigatory Stop	64	0	0	0	0	0	64
Vehicle Equipment	1,352	16	13	6	4	4	1,395
Externally Generated Stop	61	4	1	2	0	1	69
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	23	1	0	0	0	0	24
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	2	0	0	0	0	1	3
Outcomes							
Ticket	3,185	41	41	31	5	5	3,308
Warning	2,871	39	32	18	6	4	2,970
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	56	0	0	1	0	0	57
Arrest for warrant	0	1	0	0	0	0	1
Searches							
Total Stops with No Search	5,944	72	73	49	11	9	6,158
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	1	0	0	0	0	0	1
No Search (all others)	5,943	72	73	49	11	9	6,157
Total Stops with Unknown Search	1	0	0	0	0	1	2
Total Stops with Search	58	5	0	0	0	0	63
Search with Probable Cause (PC)	44	4	0	0	0	0	48
Stops with PC Searches, No contraband	12	1	0	0	0	0	13
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	32	3	0	0	0	0	35
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Ticket	23	3	0	0	0	0	26
Stops with PC Searches, Contraband and Arrest	6	0	0	0	0	0	6
Search with Reasonable Suspicion (RS)	7	1	0	0	0	0	8
Stops with RS Searches, No contraband	5	1	0	0	0	0	6
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	2	0	0	0	0	0	2
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	7	0	0	0	0	0	7
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	7	0	0	0	0	0	7
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	96.5%	1.3%	1.2%	0.8%	0.2%	0.2%	
Excluding externally generated stops	96.6%	1.2%	1.2%	0.8%	0.2%	0.2%	
Driver Percentage (using local ACS)	100.0%						
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	95.6%	1.7%	2.1%	0.6%			
Disparity Index (using local ACS)	0.97						
Disparity Index (using county ACS)	1.06	0.48	0.26		0.20		
Disparity Index (using DMV Accident data)	1.01	0.73	0.56	1.31			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	3,859						3,963
Stop Reason as % of All Stops							
Safety Stops	75.2%	74.1%	81.1%	84.3%	63.6%	45.5%	75.3%
Moving Violation	74.9%	72.8%	81.1%	84.3%	63.6%	45.5%	75.0%
Suspicion of DWI	0.3%	1.2%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	23.4%	19.8%	17.6%	11.8%	36.4%	36.4%	23.2%
Investigatory Stops	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Vehicle Equipment	22.3%	19.8%	17.6%	11.8%	36.4%	36.4%	22.2%
Externally Generated Stops	1.0%	4.9%	1.4%	3.9%	0.0%	9.1%	1.1%
Multiple Reasons	0.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	47.8%	50.7%	43.8%	36.7%	54.6%	40.0%	47.7%
Ticket Rate	53.1%	53.3%	56.2%	63.3%	45.5%	50.0%	53.2%
Arrest for Violation Rate	0.9%	0.0%	0.0%	2.0%	0.0%	0.0%	0.9%
Arrest for Warrant Rate	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	6.5%	0.0%	0.0%	0.0%	0.0%	0.9%
Search rate (incl. searches on warrant)	1.0%	6.5%	0.0%	0.0%	0.0%	0.0%	1.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	70.7%	60.0%	NA	NA	NA	NA	69.8%
Hit rates (excl. warnings as outcomes)	65.5%	60.0%	NA	NA	NA	NA	65.1%
Hit rates (outcome = arrest)	17.2%	0.0%	NA	NA	NA	NA	15.9%

Table A.5. Royalton Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	736	25	7	5	0	47	820
Excluding externally generated stops	715	23	7	5	0	44	794
Reasons For Stops							
Safety Stops	513	16	6	4	0	39	578
Moving Violation	513	16	6	4	0	39	578
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	182	7	1	1	0	4	195
Investigatory Stop	14	2	0	0	0	0	16
Vehicle Equipment	168	5	1	1	0	4	179
Externally Generated Stop	21	2	0	0	0	3	26
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	2	0	0	0	0	0	2
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	18	0	0	0	0	1	19
Outcomes							
Ticket	314	13	4	2	0	13	346
Warning	365	6	3	3	0	14	391
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	1	0	0	0	0	0	1
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	705	23	7	5	0	44	784
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	705	23	7	5	0	44	784
Total Stops with Unknown Search	5	0	0	0	0	0	5
Total Stops with Search	5	0	0	0	0	0	5
Search with Probable Cause (PC)	5	0	0	0	0	0	5
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	4	0	0	0	0	0	4
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	95.2%	3.2%	0.9%	0.6%		6.1%	
Excluding externally generated stops	95.3%	3.1%	0.9%	0.7%		5.9%	
Driver Percentage (using local ACS)	98.9%	0.9%	0.2%				
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	96.1%	2.4%	1.0%		0.5%		
Disparity Index (using local ACS)	0.97	3.43	4.70				
Disparity Index (using county ACS)	1.00	2.81	0.63				
Disparity Index (using DMV Accident data)	0.99	1.28	0.93				
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	64	350	200				67
Stop Reason as % of All Stops							
Safety Stops	69.7%	64.0%	85.7%	80.0%	0.0%	83.0%	69.7%
Moving Violation	69.7%	64.0%	85.7%	80.0%	0.0%	83.0%	69.7%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	24.7%	28.0%	14.3%	20.0%	0.0%	8.5%	24.7%
Investigatory Stops	1.9%	8.0%	0.0%	0.0%	0.0%	0.0%	2.1%
Vehicle Equipment	22.8%	20.0%	14.3%	20.0%	0.0%	8.5%	22.6%
Externally Generated Stops	2.9%	8.0%	0.0%	0.0%	0.0%	6.4%	3.0%
Multiple Reasons	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Unknown Reason	2.5%	0.0%	0.0%	0.0%	0.0%	2.1%	2.3%
Outcome Rates as a % of All Stops							
Warning Rate	51.1%	26.1%	42.9%	60.0%	0.0%	31.8%	50.3%
Ticket Rate	43.9%	56.5%	57.1%	40.0%	0.0%	29.6%	44.4%
Arrest for Violation Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Search rate (incl. searches on warrant)	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.0%	NA	NA	NA	NA	NA	80.0%
Hit rates (excl. warnings as outcomes)	80.0%	NA	NA	NA	NA	NA	80.0%
Hit rates (outcome = arrest)	20.0%	NA	NA	NA	NA	NA	20.0%

Table A.5. Rutland Raw Traffic Stop Data, 2014-19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	17,317	585	168	217	19	134	18,440
Excluding externally generated stops	16,045	541	156	205	17	128	17,092
Reasons For Stops							
Safety Stops	10,753	384	130	132	15	91	11,505
Moving Violation	10,678	380	129	129	15	91	11,422
Suspicion of DWI	75	4	1	3	0	0	83
Investigatory/Pretextual Stops	5,025	149	23	63	2	33	5,295
Investigatory Stop	274	11	0	1	1	0	287
Vehicle Equipment	4,751	138	23	62	1	33	5,008
Externally Generated Stop	1,272	44	12	12	2	6	1,348
Multiple Reasons - Moving Violation & Suspicion of DWI	7	0	0	0	0	0	7
Multiple Reasons - Moving Violation & Vehicle Equipment	83	2	0	1	0	0	86
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	2	0	0	0	0	0	2
Unknown Stop Reason	179	6	3	9	0	4	201
Outcomes							
Ticket	7,282	225	70	90	8	52	7,727
Warning	8,662	311	84	113	9	72	9,251
No Action Taken	31	0	0	0	0	2	33
Arrest for violation	388	26	2	11	0	0	427
Arrest for warrant	5	0	0	0	0	0	5
Searches							
Total Stops with No Search	15,831	519	155	202	17	123	16,847
No Search & Contraband & Arrest for violation	2	2	0	0	0	0	4
No Search & Contraband & No arrest	36	1	0	5	0	0	42
No Search (all others)	15,793	516	155	197	17	123	16,801
Total Stops with Unknown Search	24	0	0	0	0	4	28
Total Stops with Search	190	22	1	3	0	1	217
Search with Probable Cause (PC)	140	11	1	1	0	0	153
Stops with PC Searches, No contraband	30	3	0	0	0	0	33
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	110	8	1	1	0	0	120
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	5	1	0	0	0	0	6
Stops with PC Searches, Contraband and Ticket	72	4	0	1	0	0	77
Stops with PC Searches, Contraband and Arrest	33	3	1	0	0	0	37
Search with Reasonable Suspicion (RS)	43	10	0	2	0	1	56
Stops with RS Searches, No contraband	9	4	0	1	0	0	14
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	34	6	0	1	0	1	42
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Ticket	23	3	0	1	0	1	28
Stops with RS Searches, Contraband & Arrest	7	3	0	0	0	0	10
Search with Warrant	7	1	0	0	0	0	8
Stops with Warrant Searches, No contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	5	1	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	1	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	3	0	0	0	0	0	3
Racial Shares of Stops							
Including externally generated stops	94.6%	3.2%	0.9%	1.2%	0.1%	0.7%	
Excluding externally generated stops	94.6%	3.2%	0.9%	1.2%	0.1%	0.8%	
Driver Percentage (using local ACS)	96.0%	1.7%	1.9%		0.4%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	97.0%	1.2%	0.9%	0.7%	0.3%		
Disparity Index (using local ACS)	1.00	1.90	0.49		0.25		
Disparity Index (using county ACS)	0.99	3.59	0.78		0.10		
Disparity Index (using DMV Accident data)	0.98	2.66	1.02	1.73	0.33		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	250	476	123		87		251
Stop Reason as % of All Stops							
Safety Stops	62.1%	65.6%	77.4%	60.8%	79.0%	67.9%	62.4%
Moving Violation	61.7%	65.0%	76.8%	59.5%	79.0%	67.9%	61.9%
Suspicion of DWI	0.4%	0.7%	0.6%	1.4%	0.0%	0.0%	0.5%
Investigatory/Pretextual Stops	29.0%	25.5%	13.7%	29.0%	10.5%	24.6%	28.7%
Investigatory Stops	1.6%	1.9%	0.0%	0.5%	5.3%	0.0%	1.6%
Vehicle Equipment	27.4%	23.6%	13.7%	28.6%	5.3%	24.6%	27.2%
Externally Generated Stops	7.4%	7.5%	7.1%	5.5%	10.5%	4.5%	7.3%
Multiple Reasons	0.5%	0.3%	0.0%	0.5%	0.0%	0.0%	0.5%
Unknown Reason	1.0%	1.0%	1.8%	4.2%	0.0%	3.0%	1.1%
Outcome Rates as a % of All Stops							
Warning Rate	54.0%	57.5%	53.9%	55.1%	52.9%	56.3%	54.1%
Ticket Rate	45.4%	41.6%	44.9%	43.9%	47.1%	40.6%	45.2%
Arrest for Violation Rate	2.4%	4.8%	1.3%	5.4%	0.0%	0.0%	2.5%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.2%	0.0%	0.0%	0.0%	0.0%	1.6%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	3.9%	0.6%	1.5%	0.0%	0.8%	1.2%
Search rate (incl. searches on warrant)	1.2%	4.1%	0.6%	1.5%	0.0%	0.8%	1.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	78.4%	68.2%	100.0%	66.7%	NA	100.0%	77.3%
Hit rates (excl. warnings as outcomes)	73.7%	63.6%	100.0%	66.7%	NA	100.0%	72.7%
Hit rates (outcome = arrest)	22.6%	27.3%	100.0%	0.0%	NA	0.0%	23.2%

Table A.5. Rutland Town Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	1,363	31	11	14	1	2	1,422
Excluding externally generated stops	1,362	31	11	14	1	2	1,421
Reasons For Stops							
Safety Stops	1,352	31	11	13	1	2	1,410
Moving Violation	1,351	31	11	13	1	2	1,409
Suspicion of DWI	1	0	0	0	0	0	1
Investigatory/Pretextual Stops	9	0	0	1	0	0	10
Investigatory Stop	4	0	0	1	0	0	5
Vehicle Equipment	5	0	0	0	0	0	5
Externally Generated Stop	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	1	0	0	0	0	0	1
Outcomes							
Ticket	811	23	6	12	1	1	854
Warning	557	8	5	2	0	1	573
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,360	30	11	14	1	2	1,418
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	1,360	30	11	14	1	2	1,418
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	2	1	0	0	0	0	3
Search with Probable Cause (PC)	1	1	0	0	0	0	2
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	1	0	0	0	0	1
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	1	0	0	0	0	1
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	1	0	0	0	0	0	1
Stops with RS Searches, No contraband	1	0	0	0	0	0	1
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.0%	2.2%	0.8%	1.0%	0.1%	0.1%	
Excluding externally generated stops	96.0%	2.2%	0.8%	1.0%	0.1%	0.1%	
Driver Percentage (using local ACS)	97.0%	1.2%			1.8%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	92.8%	2.0%	4.0%	0.4%	0.8%		
Disparity Index (using local ACS)	1.00	1.84			0.04		
Disparity Index (using county ACS)	1.00	2.45	0.65		0.07		
Disparity Index (using DMV Accident data)	1.03	1.09	0.19	2.47	0.09		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	87	159			4		87
Stop Reason as % of All Stops							
Safety Stops	99.2%	100.0%	100.0%	92.9%	100.0%	100.0%	99.2%
Moving Violation	99.1%	100.0%	100.0%	92.9%	100.0%	100.0%	99.1%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	0.7%	0.0%	0.0%	7.1%	0.0%	0.0%	0.7%
Investigatory Stops	0.3%	0.0%	0.0%	7.1%	0.0%	0.0%	0.4%
Vehicle Equipment	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Externally Generated Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	40.9%	25.8%	45.5%	14.3%	0.0%	50.0%	40.3%
Ticket Rate	59.5%	74.2%	54.6%	85.7%	100.0%	50.0%	60.1%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	3.2%	0.0%	0.0%	0.0%	0.0%	0.2%
Search rate (incl. searches on warrant)	0.2%	3.2%	0.0%	0.0%	0.0%	0.0%	0.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	0.0%	100.0%	NA	NA	NA	NA	33.3%
Hit rates (excl. warnings as outcomes)	0.0%	100.0%	NA	NA	NA	NA	33.3%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	NA	NA	NA	0.0%

Table A.5. S. Burlington Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	14,256	949	551	136	10	221	16,123
Excluding externally generated stops	14,157	939	548	136	10	221	16,011
Reasons For Stops							
Safety Stops	9,933	625	415	89	8	58	11,128
Moving Violation	9,909	624	415	89	8	57	11,102
Suspicion of DWI	24	1	0	0	0	1	26
Investigatory/Pretextual Stops	4,046	292	126	44	2	27	4,537
Investigatory Stop	59	7	1	0	0	2	69
Vehicle Equipment	3,987	285	125	44	2	25	4,468
Externally Generated Stop	99	10	3	0	0	0	112
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	7	1	0	0	0	0	8
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	170	21	7	3	0	136	337
Outcomes							
Ticket	4,887	268	190	58	3	29	5,435
Warning	9,109	655	356	76	6	57	10,259
No Action Taken	12	2	1	0	0	0	15
Arrest for violation	173	17	3	2	1	0	196
Arrest for warrant	8	0	0	0	0	0	8
Searches							
Total Stops with No Search	14,006	905	540	133	10	85	15,679
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	12	0	0	0	0	0	12
No Search (all others)	13,993	905	540	133	10	85	15,666
Total Stops with Unknown Search	21	0	2	0	0	136	159
Total Stops with Search	130	34	6	3	0	0	173
Search with Probable Cause (PC)	78	17	4	1	0	0	100
Stops with PC Searches, No contraband	14	4	2	0	0	0	20
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	64	13	2	1	0	0	80
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	27	9	1	1	0	0	38
Stops with PC Searches, Contraband and Ticket	21	4	0	0	0	0	25
Stops with PC Searches, Contraband and Arrest	16	0	1	0	0	0	17
Search with Reasonable Suspicion (RS)	38	15	2	2	0	0	57
Stops with RS Searches, No contraband	9	7	1	2	0	0	19
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	29	8	1	0	0	0	38
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	15	2	1	0	0	0	18
Stops with RS Searches, Contraband & Ticket	10	3	0	0	0	0	13
Stops with RS Searches, Contraband & Arrest	4	3	0	0	0	0	7
Search with Warrant	14	2	0	0	0	0	16
Stops with Warrant Searches, No contraband	1	1	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	13	1	0	0	0	0	14
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	7	0	0	0	0	0	7
Stops with Warrant Searches, Contraband & Arrest	5	1	0	0	0	0	6
Racial Shares of Stops							
Including externally generated stops	89.6%	6.0%	3.5%	0.9%	0.1%	1.4%	
Excluding externally generated stops	89.7%	5.9%	3.5%	0.9%	0.1%	1.4%	
Driver Percentage (using local ACS)	91.6%	2.9%	4.2%		1.4%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	91.6%	3.5%	3.7%	0.8%	0.4%		
Disparity Index (using local ACS)	0.99	2.07	0.83		0.05		
Disparity Index (using county ACS)	0.98	2.31	0.78		0.07		
Disparity Index (using DMV Accident data)	0.98	1.70	0.94	1.08	0.16		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	178	400	158		11		181
Stop Reason as % of All Stops							
Safety Stops	69.7%	65.9%	75.3%	65.4%	80.0%	26.2%	69.6%
Moving Violation	69.5%	65.8%	75.3%	65.4%	80.0%	25.8%	69.5%
Suspicion of DWI	0.2%	0.1%	0.0%	0.0%	0.0%	0.5%	0.2%
Investigatory/Pretextual Stops	28.4%	30.8%	22.9%	32.4%	20.0%	12.2%	28.4%
Investigatory Stops	0.4%	0.7%	0.2%	0.0%	0.0%	0.9%	0.4%
Vehicle Equipment	28.0%	30.0%	22.7%	32.4%	20.0%	11.3%	27.9%
Externally Generated Stops	0.7%	1.1%	0.5%	0.0%	0.0%	0.0%	0.7%
Multiple Reasons	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	1.2%	2.2%	1.3%	2.2%	0.0%	61.5%	1.3%
Outcome Rates as a % of All Stops							
Warning Rate	64.3%	69.8%	65.0%	55.9%	60.0%	25.8%	64.6%
Ticket Rate	34.5%	28.5%	34.7%	42.7%	30.0%	13.1%	34.2%
Arrest for Violation Rate	1.2%	1.8%	0.6%	1.5%	10.0%	0.0%	1.2%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.1%	0.2%	0.2%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	3.4%	1.1%	2.2%	0.0%	0.0%	1.0%
Search rate (incl. searches on warrant)	0.9%	3.6%	1.1%	2.2%	0.0%	0.0%	1.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	81.5%	64.7%	50.0%	33.3%	NA	NA	76.3%
Hit rates (excl. warnings as outcomes)	48.5%	32.4%	16.7%	0.0%	NA	NA	43.4%
Hit rates (outcome = arrest)	19.2%	11.8%	16.7%	0.0%	NA	NA	17.3%

Table A.5. Shelburne Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	4,081	229	107	70	2	1,093	5,582
Excluding externally generated stops	4,075	229	107	70	2	1,093	5,576
Reasons For Stops							
Safety Stops	3,575	209	95	64	2	1,020	4,965
Moving Violation	3,575	209	95	64	2	1,020	4,965
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	391	15	10	5	0	13	434
Investigatory Stop	19	1	0	0	0	7	27
Vehicle Equipment	372	14	10	5	0	6	407
Externally Generated Stop	6	0	0	0	0	0	6
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	109	5	2	1	0	60	177
Outcomes							
Ticket	2,853	175	75	55	1	1,004	4,163
Warning	1,184	51	31	15	0	87	1,368
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	23	2	0	0	0	0	25
Arrest for warrant	2	0	0	0	0	0	2
Searches							
Total Stops with No Search	2,733	172	91	62	2	154	3,214
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	5	0	0	0	0	0	5
No Search (all others)	2,727	172	91	62	2	154	3,208
Total Stops with Unknown Search	1,302	47	16	8	0	936	2,309
Total Stops with Search	40	10	0	0	0	3	53
Search with Probable Cause (PC)	8	8	0	0	0	2	18
Stops with PC Searches, No contraband	2	3	0	0	0	0	5
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	5	5	0	0	0	2	12
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	5	4	0	0	0	2	11
Stops with PC Searches, Contraband and Arrest	0	1	0	0	0	0	1
Search with Reasonable Suspicion (RS)	32	2	0	0	0	1	35
Stops with RS Searches, No contraband	8	1	0	0	0	1	10
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	24	1	0	0	0	0	25
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	22	1	0	0	0	0	23
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	90.9%	5.1%	2.4%	1.6%	0.0%	24.3%	
Excluding externally generated stops	90.9%	5.1%	2.4%	1.6%	0.0%	24.4%	
Driver Percentage (using local ACS)	100.0%						
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	94.3%	2.4%	2.2%	0.8%	0.3%		
Disparity Index (using local ACS)	0.92						
Disparity Index (using county ACS)	1.01	2.00	0.54		0.05		
Disparity Index (using DMV Accident data)	0.96	2.13	1.09	1.95	0.15		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,627						1,762
Stop Reason as % of All Stops							
Safety Stops	87.6%	91.3%	88.8%	91.4%	100.0%	93.3%	87.9%
Moving Violation	87.6%	91.3%	88.8%	91.4%	100.0%	93.3%	87.9%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	9.6%	6.6%	9.4%	7.1%	0.0%	1.2%	9.4%
Investigatory Stops	0.5%	0.4%	0.0%	0.0%	0.0%	0.6%	0.5%
Vehicle Equipment	9.1%	6.1%	9.4%	7.1%	0.0%	0.6%	8.9%
Externally Generated Stops	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	2.7%	2.2%	1.9%	1.4%	0.0%	5.5%	2.6%
Outcome Rates as a % of All Stops							
Warning Rate	29.1%	22.3%	29.0%	21.4%	0.0%	8.0%	28.6%
Ticket Rate	70.0%	76.4%	70.1%	78.6%	50.0%	91.9%	70.5%
Arrest for Violation Rate	0.6%	0.9%	0.0%	0.0%	0.0%	0.0%	0.6%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	1.0%	4.4%	0.0%	0.0%	0.0%	0.3%	1.1%
Search rate (incl. searches on warrant)	1.0%	4.4%	0.0%	0.0%	0.0%	0.3%	1.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	72.5%	60.0%	NA	NA	NA	66.7%	70.0%
Hit rates (excl. warnings as outcomes)	70.0%	60.0%	NA	NA	NA	66.7%	68.0%
Hit rates (outcome = arrest)	2.5%	10.0%	NA	NA	NA	0.0%	4.0%

Table A.5. Springfield Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	13,867	216	91	112	4	757	15,047
Excluding externally generated stops	13,729	212	91	110	4	750	14,896
Reasons For Stops							
Safety Stops	8,421	136	72	75	4	483	9,191
Moving Violation	8,397	136	72	75	4	483	9,167
Suspicion of DWI	24	0	0	0	0	0	24
Investigatory/Pretextual Stops	5,146	71	16	32	0	222	5,487
Investigatory Stop	47	1	0	0	0	0	48
Vehicle Equipment	5,099	70	16	32	0	222	5,439
Externally Generated Stop	138	4	0	2	0	7	151
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	67	2	1	3	0	0	73
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	95	3	2	0	0	45	145
Outcomes							
Ticket	1,818	35	16	19	0	97	1,985
Warning	11,844	177	73	92	4	607	12,797
No Action Taken	45	0	0	0	0	4	49
Arrest for violation	72	0	1	0	0	0	73
Arrest for warrant	16	0	0	1	0	1	18
Searches							
Total Stops with No Search	13,479	205	90	105	4	699	14,582
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	9	0	0	0	0	0	9
No Search (all others)	13,469	205	90	105	4	699	14,572
Total Stops with Unknown Search	52	2	1	0	0	46	101
Total Stops with Search	198	5	0	5	0	5	213
Search with Probable Cause (PC)	58	2	0	0	0	2	62
Stops with PC Searches, No contraband	16	0	0	0	0	0	16
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	42	2	0	0	0	2	46
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	16	1	0	0	0	1	18
Stops with PC Searches, Contraband and Ticket	18	1	0	0	0	1	20
Stops with PC Searches, Contraband and Arrest	8	0	0	0	0	0	8
Search with Reasonable Suspicion (RS)	131	3	0	5	0	3	142
Stops with RS Searches, No contraband	47	0	0	5	0	1	53
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	84	3	0	0	0	2	89
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	35	1	0	0	0	2	38
Stops with RS Searches, Contraband & Ticket	32	2	0	0	0	0	34
Stops with RS Searches, Contraband & Arrest	17	0	0	0	0	0	17
Search with Warrant	9	0	0	0	0	0	9
Stops with Warrant Searches, No contraband	4	0	0	0	0	0	4
Stops with Warrant Searches, Unknown contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband	3	0	0	0	0	0	3
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	97.0%	1.5%	0.6%	0.8%	0.0%	5.3%	
Excluding externally generated stops	97.1%	1.5%	0.6%	0.8%	0.0%	5.3%	
Driver Percentage (using local ACS)	94.5%	1.6%	0.6%		3.3%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	96.7%	1.0%	0.9%	0.9%	0.5%		
Disparity Index (using local ACS)	1.04	0.94	1.08		0.01		
Disparity Index (using county ACS)	1.02	1.37	0.43		0.03		
Disparity Index (using DMV Accident data)	1.00	1.50	0.72	0.86	0.06		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	895	786	938		10		864
Stop Reason as % of All Stops							
Safety Stops	60.7%	63.0%	79.1%	67.0%	100.0%	63.8%	60.9%
Moving Violation	60.6%	63.0%	79.1%	67.0%	100.0%	63.8%	60.8%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	37.1%	32.9%	17.6%	28.6%	0.0%	29.3%	36.8%
Investigatory Stops	0.3%	0.5%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	36.8%	32.4%	17.6%	28.6%	0.0%	29.3%	36.5%
Externally Generated Stops	1.0%	1.9%	0.0%	1.8%	0.0%	0.9%	1.0%
Multiple Reasons	0.5%	0.9%	1.1%	2.7%	0.0%	0.0%	0.5%
Unknown Reason	0.7%	1.4%	2.2%	0.0%	0.0%	5.9%	0.7%
Outcome Rates as a % of All Stops							
Warning Rate	86.3%	83.5%	80.2%	83.6%	100.0%	80.9%	86.2%
Ticket Rate	13.2%	16.5%	17.6%	17.3%	0.0%	12.9%	13.4%
Arrest for Violation Rate	0.5%	0.0%	1.1%	0.0%	0.0%	0.0%	0.5%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.9%	0.0%	0.1%	0.1%
No Action Rate	0.3%	0.0%	0.0%	0.0%	0.0%	0.5%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	1.4%	2.4%	0.0%	4.6%	0.0%	0.7%	1.4%
Search rate (incl. searches on warrant)	1.4%	2.4%	0.0%	4.6%	0.0%	0.7%	1.5%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	65.2%	100.0%	NA	0.0%	NA	80.0%	64.4%
Hit rates (excl. warnings as outcomes)	38.9%	60.0%	NA	0.0%	NA	20.0%	38.5%
Hit rates (outcome = arrest)	13.6%	0.0%	NA	0.0%	NA	0.0%	13.0%

Table A.5. St. Albans Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	12,673	274	78	70	10	2,874	15,979
Excluding externally generated stops	12,293	263	74	70	10	2,802	15,512
Reasons For Stops							
Safety Stops	7,550	138	52	45	6	2,078	9,869
Moving Violation	7,517	137	52	45	6	2,078	9,835
Suspicion of DWI	33	1	0	0	0	0	34
Investigatory/Pretextual Stops	4,105	111	19	24	3	538	4,800
Investigatory Stop	325	11	1	3	0	69	409
Vehicle Equipment	3,780	100	18	21	3	469	4,391
Externally Generated Stop	380	11	4	0	0	72	467
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	51	0	1	0	0	8	60
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	585	14	2	1	1	178	781
Outcomes							
Ticket	3,531	90	17	24	0	713	4,375
Warning	8,344	163	53	44	9	1,971	10,584
No Action Taken	54	2	0	0	0	2	58
Arrest for violation	309	10	2	1	1	15	338
Arrest for warrant	19	0	0	0	0	2	21
Searches							
Total Stops with No Search	11,837	246	72	69	9	2,640	14,873
No Search & Contraband & Arrest for violation	4	0	0	0	0	0	4
No Search & Contraband & No arrest	15	1	0	0	0	1	17
No Search (all others)	11,818	245	72	69	9	2,639	14,852
Total Stops with Unknown Search	267	10	1	1	0	153	432
Total Stops with Search	189	7	1	0	1	9	207
Search with Probable Cause (PC)	125	5	0	0	1	9	140
Stops with PC Searches, No contraband	8	0	0	0	0	0	8
Stops with PC Searches, Unknown contraband	20	0	0	0	0	1	21
Stops with PC Searches, Contraband	97	5	0	0	1	8	111
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	16	0	0	0	0	2	18
Stops with PC Searches, Contraband and Ticket	56	3	0	0	0	3	62
Stops with PC Searches, Contraband and Arrest	25	2	0	0	1	3	31
Search with Reasonable Suspicion (RS)	47	2	0	0	0	0	49
Stops with RS Searches, No contraband	12	0	0	0	0	0	12
Stops with RS Searches, Unknown contraband	9	2	0	0	0	0	11
Stops with RS Searches, Contraband	26	0	0	0	0	0	26
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	6	0	0	0	0	0	6
Stops with RS Searches, Contraband & Ticket	14	0	0	0	0	0	14
Stops with RS Searches, Contraband & Arrest	6	0	0	0	0	0	6
Search with Warrant	17	0	1	0	0	0	18
Stops with Warrant Searches, No contraband	6	0	1	0	0	0	7
Stops with Warrant Searches, Unknown contraband	7	0	0	0	0	0	7
Stops with Warrant Searches, Contraband	4	0	0	0	0	0	4
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	96.7%	2.1%	0.6%	0.5%	0.1%	21.9%	
Excluding externally generated stops	96.7%	2.1%	0.6%	0.6%	0.1%	22.0%	
Driver Percentage (using local ACS)	91.7%	4.1%	1.7%		2.5%		
Driver Percentage (using county ACS)	95.3%	1.2%	0.6%		2.9%		
Driver Percentage (DMV Accident data)	96.0%	1.1%	1.8%	1.0%	0.2%		
Disparity Index (using local ACS)	1.06	0.51	0.34		0.03		
Disparity Index (using county ACS)	1.02	1.73	0.98		0.03		
Disparity Index (using DMV Accident data)	1.01	1.88	0.32	0.55	0.39		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	508	253	176		15		479
Stop Reason as % of All Stops							
Safety Stops	59.6%	50.4%	66.7%	64.3%	60.0%	72.3%	59.5%
Moving Violation	59.3%	50.0%	66.7%	64.3%	60.0%	72.3%	59.2%
Suspicion of DWI	0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	32.4%	40.5%	24.4%	34.3%	30.0%	18.7%	32.5%
Investigatory Stops	2.6%	4.0%	1.3%	4.3%	0.0%	2.4%	2.6%
Vehicle Equipment	29.8%	36.5%	23.1%	30.0%	30.0%	16.3%	29.9%
Externally Generated Stops	3.0%	4.0%	5.1%	0.0%	0.0%	2.5%	3.0%
Multiple Reasons	0.4%	0.0%	1.3%	0.0%	0.0%	0.3%	0.4%
Unknown Reason	4.6%	5.1%	2.6%	1.4%	10.0%	6.2%	4.6%
Outcome Rates as a % of All Stops							
Warning Rate	67.9%	62.0%	71.6%	62.9%	90.0%	70.3%	67.8%
Ticket Rate	28.7%	34.2%	23.0%	34.3%	0.0%	25.5%	28.8%
Arrest for Violation Rate	2.5%	3.8%	2.7%	1.4%	10.0%	0.5%	2.5%
Arrest for Warrant Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
No Action Rate	0.4%	0.8%	0.0%	0.0%	0.0%	0.1%	0.4%
Search Rates							
Search rate (excl. searches on warrant)	1.4%	2.7%	0.0%	0.0%	10.0%	0.3%	1.4%
Search rate (incl. searches on warrant)	1.5%	2.7%	1.4%	0.0%	10.0%	0.3%	1.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	67.2%	71.4%	0.0%	NA	100.0%	88.9%	67.2%
Hit rates (excl. warnings as outcomes)	55.6%	71.4%	0.0%	NA	100.0%	66.7%	56.1%
Hit rates (outcome = arrest)	18.5%	28.6%	0.0%	NA	100.0%	33.3%	19.2%

Table A.5. St. Johnsbury Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	7,174	118	45	37	2	109	7,485
Excluding externally generated stops	6,782	108	45	35	2	107	7,079
Reasons For Stops							
Safety Stops	3,764	53	29	17	2	40	3,905
Moving Violation	3,749	52	29	17	2	40	3,889
Suspicion of DWI	15	1	0	0	0	0	16
Investigatory/Pretextual Stops	2,937	51	15	14	0	39	3,056
Investigatory Stop	684	19	5	3	0	12	723
Vehicle Equipment	2,253	32	10	11	0	27	2,333
Externally Generated Stop	392	10	0	2	0	2	406
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	15	1	0	0	0	0	16
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	65	3	1	4	0	28	101
Outcomes							
Ticket	1,777	36	11	14	0	20	1,858
Warning	5,090	73	35	17	2	59	5,276
No Action Taken	7	0	1	0	0	0	8
Arrest for violation	76	2	0	0	0	0	78
Arrest for warrant	5	0	0	0	0	0	5
Searches							
Total Stops with No Search	6,658	104	42	31	2	76	6,913
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	12	1	1	0	0	0	14
No Search (all others)	6,643	103	41	31	2	76	6,896
Total Stops with Unknown Search	55	2	1	4	0	28	90
Total Stops with Search	69	2	2	0	0	3	76
Search with Probable Cause (PC)	30	1	0	0	0	1	32
Stops with PC Searches, No contraband	11	1	0	0	0	1	13
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	19	0	0	0	0	0	19
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with PC Searches, Contraband and Ticket	6	0	0	0	0	0	6
Stops with PC Searches, Contraband and Arrest	9	0	0	0	0	0	9
Search with Reasonable Suspicion (RS)	28	0	2	0	0	2	32
Stops with RS Searches, No contraband	9	0	1	0	0	0	10
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	19	0	1	0	0	2	22
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	2	4
Stops with RS Searches, Contraband & Ticket	15	0	1	0	0	0	16
Stops with RS Searches, Contraband & Arrest	2	0	0	0	0	0	2
Search with Warrant	11	1	0	0	0	0	12
Stops with Warrant Searches, No contraband	3	1	0	0	0	0	4
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	8	0	0	0	0	0	8
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	3	0	0	0	0	0	3
Racial Shares of Stops							
Including externally generated stops	97.3%	1.6%	0.6%	0.5%	0.0%	1.5%	
Excluding externally generated stops	97.3%	1.5%	0.6%	0.5%	0.0%	1.5%	
Driver Percentage (using local ACS)	97.5%	0.5%	1.6%		0.4%		
Driver Percentage (using county ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (DMV Accident data)	97.6%	1.3%	0.8%	0.3%			
Disparity Index (using local ACS)	1.00	3.11	0.41		0.07		
Disparity Index (using county ACS)	1.01	1.56	0.54		0.02		
Disparity Index (using DMV Accident data)	1.00	1.19	0.81	1.67			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	272	985	100				272
Stop Reason as % of All Stops							
Safety Stops	52.5%	44.9%	64.4%	46.0%	100.0%	36.7%	52.4%
Moving Violation	52.3%	44.1%	64.4%	46.0%	100.0%	36.7%	52.2%
Suspicion of DWI	0.2%	0.9%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	40.9%	43.2%	33.3%	37.8%	0.0%	35.8%	40.9%
Investigatory Stops	9.5%	16.1%	11.1%	8.1%	0.0%	11.0%	9.6%
Vehicle Equipment	31.4%	27.1%	22.2%	29.7%	0.0%	24.8%	31.3%
Externally Generated Stops	5.5%	8.5%	0.0%	5.4%	0.0%	1.8%	5.5%
Multiple Reasons	0.2%	0.9%	0.0%	0.0%	0.0%	0.0%	0.2%
Unknown Reason	0.9%	2.5%	2.2%	10.8%	0.0%	25.7%	1.0%
Outcome Rates as a % of All Stops							
Warning Rate	75.1%	67.6%	77.8%	48.6%	100.0%	55.1%	74.8%
Ticket Rate	26.2%	33.3%	24.4%	40.0%	0.0%	18.7%	26.4%
Arrest for Violation Rate	1.1%	1.9%	0.0%	0.0%	0.0%	0.0%	1.1%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.1%	0.0%	2.2%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	0.9%	4.4%	0.0%	0.0%	2.8%	0.9%
Search rate (incl. searches on warrant)	1.0%	1.9%	4.4%	0.0%	0.0%	2.8%	1.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	66.7%	0.0%	50.0%	NA	NA	66.7%	64.4%
Hit rates (excl. warnings as outcomes)	55.1%	0.0%	50.0%	NA	NA	0.0%	53.4%
Hit rates (outcome = arrest)	20.3%	0.0%	0.0%	NA	NA	0.0%	19.2%

Table A.5. Stowe Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	6,863	196	87	33	9	206	7,394
Excluding externally generated stops	6,730	188	86	32	9	197	7,242
Reasons For Stops							
Safety Stops	5,127	150	73	24	7	152	5,533
Moving Violation	5,099	148	72	23	7	152	5,501
Suspicion of DWI	28	2	1	1	0	0	32
Investigatory/Pretextual Stops	1,445	35	12	8	2	28	1,530
Investigatory Stop	42	1	0	0	0	4	47
Vehicle Equipment	1,403	34	12	8	2	24	1,483
Externally Generated Stop	133	8	1	1	0	9	152
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	20	2	0	0	0	1	23
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	137	1	1	0	0	16	155
Outcomes							
Ticket	1,414	37	18	3	1	53	1,526
Warning	5,166	145	67	27	8	141	5,554
No Action Taken	16	1	0	0	0	0	17
Arrest for violation	163	6	2	4	0	0	175
Arrest for warrant	4	0	0	0	0	0	4
Searches							
Total Stops with No Search	6,573	184	84	32	9	185	7,067
No Search & Contraband & Arrest for violation	5	0	0	0	0	0	5
No Search & Contraband & No arrest	26	3	0	0	0	0	29
No Search (all others)	6,542	181	84	32	9	185	7,033
Total Stops with Unknown Search	41	1	0	0	0	6	48
Total Stops with Search	116	3	2	0	0	6	127
Search with Probable Cause (PC)	101	3	1	0	0	6	111
Stops with PC Searches, No contraband	15	0	0	0	0	1	16
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	86	3	1	0	0	5	95
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	6	1	1	0	0	0	8
Stops with PC Searches, Contraband and Ticket	64	2	0	0	0	5	71
Stops with PC Searches, Contraband and Arrest	16	0	0	0	0	0	16
Search with Reasonable Suspicion (RS)	8	0	0	0	0	0	8
Stops with RS Searches, No contraband	5	0	0	0	0	0	5
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	3	0	0	0	0	0	3
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	7	0	1	0	0	0	8
Stops with Warrant Searches, No contraband	2	0	1	0	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	5	0	0	0	0	0	5
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	95.5%	2.7%	1.2%	0.5%	0.1%	2.9%	
Excluding externally generated stops	95.5%	2.7%	1.2%	0.5%	0.1%	2.8%	
Driver Percentage (using local ACS)	92.7%				7.3%		
Driver Percentage (using county ACS)	95.9%	1.5%	1.0%		1.5%		
Driver Percentage (DMV Accident data)	93.7%	2.5%	1.9%	1.2%	0.6%		
Disparity Index (using local ACS)	1.04				0.02		
Disparity Index (using county ACS)	1.00	1.79	1.23		0.09		
Disparity Index (using DMV Accident data)	1.02	1.07	0.64	0.38	0.21		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	3,668				62		3,542
Stop Reason as % of All Stops							
Safety Stops	74.7%	76.5%	83.9%	72.7%	77.8%	73.8%	74.9%
Moving Violation	74.3%	75.5%	82.8%	69.7%	77.8%	73.8%	74.4%
Suspicion of DWI	0.4%	1.0%	1.2%	3.0%	0.0%	0.0%	0.5%
Investigatory/Pretextual Stops	21.1%	17.9%	13.8%	24.2%	22.2%	13.6%	20.9%
Investigatory Stops	0.6%	0.5%	0.0%	0.0%	0.0%	1.9%	0.6%
Vehicle Equipment	20.4%	17.4%	13.8%	24.2%	22.2%	11.7%	20.3%
Externally Generated Stops	1.9%	4.1%	1.2%	3.0%	0.0%	4.4%	2.0%
Multiple Reasons	0.3%	1.0%	0.0%	0.0%	0.0%	0.5%	0.3%
Unknown Reason	2.0%	0.5%	1.2%	0.0%	0.0%	7.8%	1.9%
Outcome Rates as a % of All Stops							
Warning Rate	76.8%	77.1%	77.9%	84.4%	88.9%	71.6%	76.8%
Ticket Rate	21.0%	19.7%	20.9%	9.4%	11.1%	26.9%	20.9%
Arrest for Violation Rate	2.4%	3.2%	2.3%	12.5%	0.0%	0.0%	2.5%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	1.6%	1.6%	1.2%	0.0%	0.0%	3.1%	1.6%
Search rate (incl. searches on warrant)	1.7%	1.6%	2.3%	0.0%	0.0%	3.1%	1.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	81.0%	100.0%	50.0%	NA	NA	83.3%	81.0%
Hit rates (excl. warnings as outcomes)	75.0%	66.7%	0.0%	NA	NA	83.3%	73.6%
Hit rates (outcome = arrest)	15.5%	0.0%	0.0%	NA	NA	0.0%	14.9%

Table A.5. Swanton Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	1,957	15	7	18	1	92	2,090
Excluding externally generated stops	1,951	15	7	17	1	92	2,083
Reasons For Stops							
Safety Stops	1,647	14	7	15	1	79	1,763
Moving Violation	1,644	14	7	15	1	79	1,760
Suspicion of DWI	3	0	0	0	0	0	3
Investigatory/Pretextual Stops	292	1	0	2	0	10	305
Investigatory Stop	6	0	0	0	0	0	6
Vehicle Equipment	286	1	0	2	0	10	299
Externally Generated Stop	6	0	0	1	0	0	7
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	7	0	0	0	0	0	7
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	4	0	0	0	0	3	7
Outcomes							
Ticket	646	6	2	4	0	29	687
Warning	1,319	9	5	13	1	65	1,412
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	13	0	0	0	0	0	13
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,946	15	7	17	1	92	2,078
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	2	0	0	0	0	0	2
No Search (all others)	1,944	15	7	17	1	92	2,076
Total Stops with Unknown Search	2	0	0	0	0	0	2
Total Stops with Search	3	0	0	0	0	0	3
Search with Probable Cause (PC)	3	0	0	0	0	0	3
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	2	0	0	0	0	0	2
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	2	0	0	0	0	0	2
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.9%	0.8%	0.4%	0.9%	0.1%	4.6%	
Excluding externally generated stops	98.0%	0.8%	0.4%	0.9%	0.1%	4.6%	
Driver Percentage (using local ACS)	96.5%			3.5%			
Driver Percentage (using county ACS)	95.3%	1.2%	0.6%	2.9%			
Driver Percentage (DMV Accident data)	98.0%	1.0%	0.8%	0.3%			
Disparity Index (using local ACS)	1.02			0.01			
Disparity Index (using county ACS)	1.04	0.63	0.59	0.02			
Disparity Index (using DMV Accident data)	1.00	0.75	0.44	0.17			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	216			3			211
Stop Reason as % of All Stops							
Safety Stops	84.2%	93.3%	100.0%	83.3%	100.0%	85.9%	84.3%
Moving Violation	84.0%	93.3%	100.0%	83.3%	100.0%	85.9%	84.1%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	14.9%	6.7%	0.0%	11.1%	0.0%	10.9%	14.8%
Investigatory Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	14.6%	6.7%	0.0%	11.1%	0.0%	10.9%	14.5%
Externally Generated Stops	0.3%	0.0%	0.0%	5.6%	0.0%	0.0%	0.4%
Multiple Reasons	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	0.2%	0.0%	0.0%	0.0%	0.0%	3.3%	0.2%
Outcome Rates as a % of All Stops							
Warning Rate	67.6%	60.0%	71.4%	76.5%	100.0%	70.7%	67.7%
Ticket Rate	33.1%	40.0%	28.6%	23.5%	0.0%	31.5%	33.1%
Arrest for Violation Rate	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search rate (incl. searches on warrant)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	66.7%	NA	NA	NA	NA	NA	66.7%
Hit rates (excl. warnings as outcomes)	66.7%	NA	NA	NA	NA	NA	66.7%
Hit rates (outcome = arrest)	66.7%	NA	NA	NA	NA	NA	66.7%

Table A.5. Thetford Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	930	10	13	7	1	19	980
Excluding externally generated stops	901	9	13	6	1	19	949
Reasons For Stops							
Safety Stops	716	9	13	4	0	17	759
Moving Violation	716	9	13	4	0	17	759
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	178	0	0	2	1	1	182
Investigatory Stop	0	0	0	1	0	0	1
Vehicle Equipment	178	0	0	1	1	1	181
Externally Generated Stop	29	1	0	1	0	0	31
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	6	0	0	0	0	1	7
Outcomes							
Ticket	296	2	6	2	0	2	308
Warning	607	7	7	4	1	16	642
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	3	0	0	0	0	0	3
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	893	9	13	6	1	18	940
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	893	9	13	6	1	18	940
Total Stops with Unknown Search	3	0	0	0	0	1	4
Total Stops with Search	5	0	0	0	0	0	5
Search with Probable Cause (PC)	4	0	0	0	0	0	4
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	3	0	0	0	0	0	3
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Ticket	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	1	0	0	0	0	0	1
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	0	0	0	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.8%	1.0%	1.4%	0.7%	0.1%	2.0%	
Excluding externally generated stops	96.9%	1.0%	1.4%	0.6%	0.1%	2.0%	
Driver Percentage (using local ACS)	97.3%	1.1%		1.7%			
Driver Percentage (using county ACS)	97.0%	0.9%	0.8%	1.4%			
Driver Percentage (DMV Accident data)	95.2%	3.6%	1.2%				
Disparity Index (using local ACS)	1.00	0.89		0.06			
Disparity Index (using county ACS)	1.01	1.08	1.76	0.08			
Disparity Index (using DMV Accident data)	1.02	0.27	1.17				
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	86	78			6		86
Stop Reason as % of All Stops							
Safety Stops	77.0%	90.0%	100.0%	57.1%	0.0%	89.5%	77.2%
Moving Violation	77.0%	90.0%	100.0%	57.1%	0.0%	89.5%	77.2%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	19.1%	0.0%	0.0%	28.6%	100.0%	5.3%	18.8%
Investigatory Stops	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	0.1%
Vehicle Equipment	19.1%	0.0%	0.0%	14.3%	100.0%	5.3%	18.7%
Externally Generated Stops	3.1%	10.0%	0.0%	14.3%	0.0%	0.0%	3.2%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	0.7%	0.0%	0.0%	0.0%	0.0%	5.3%	0.6%
Outcome Rates as a % of All Stops							
Warning Rate	67.4%	77.8%	53.9%	66.7%	100.0%	84.2%	67.3%
Ticket Rate	32.9%	22.2%	46.2%	33.3%	0.0%	10.5%	32.9%
Arrest for Violation Rate	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Search rate (incl. searches on warrant)	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.0%	NA	NA	NA	NA	NA	80.0%
Hit rates (excl. warnings as outcomes)	60.0%	NA	NA	NA	NA	NA	60.0%
Hit rates (outcome = arrest)	0.0%	NA	NA	NA	NA	NA	0.0%

Table A.5. UVM Raw Traffic Stop Data, 2014;2015;2017;2018;2019							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	6,331	599	292	51	16	57	7,346
Excluding externally generated stops	6,327	597	292	51	16	57	7,340
Reasons For Stops							
Safety Stops	3,275	308	173	23	8	12	3,799
Moving Violation	3,266	307	172	23	8	12	3,788
Suspicion of DWI	9	1	1	0	0	0	11
Investigatory/Pretextual Stops	2,134	216	84	21	8	4	2,467
Investigatory Stop	16	2	0	0	0	0	18
Vehicle Equipment	2,118	214	84	21	8	4	2,449
Externally Generated Stop	4	2	0	0	0	0	6
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	9	1	0	0	0	0	10
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	909	72	35	7	0	41	1,064
Outcomes							
Ticket	663	84	35	9	1	10	802
Warning	5,456	496	251	40	15	17	6,275
No Action Taken	6	0	0	0	0	0	6
Arrest for violation	172	15	3	1	0	0	191
Arrest for warrant	5	0	0	0	0	0	5
Searches							
Total Stops with No Search	6,115	569	285	49	16	31	7,065
No Search & Contraband & Arrest for violation	2	1	0	0	0	0	3
No Search & Contraband & No arrest	15	3	0	0	0	0	18
No Search (all others)	6,098	565	285	49	16	31	7,044
Total Stops with Unknown Search	58	2	3	1	0	26	90
Total Stops with Search	154	26	4	1	0	0	185
Search with Probable Cause (PC)	120	17	2	0	0	0	139
Stops with PC Searches, No contraband	56	4	2	0	0	0	62
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	64	13	0	0	0	0	77
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	18	2	0	0	0	0	20
Stops with PC Searches, Contraband and Ticket	31	8	0	0	0	0	39
Stops with PC Searches, Contraband and Arrest	15	3	0	0	0	0	18
Search with Reasonable Suspicion (RS)	18	7	1	0	0	0	26
Stops with RS Searches, No contraband	11	4	0	0	0	0	15
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	7	3	1	0	0	0	11
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	2	1	0	0	0	0	3
Stops with RS Searches, Contraband & Ticket	4	2	1	0	0	0	7
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	16	2	1	1	0	0	20
Stops with Warrant Searches, No contraband	11	1	1	1	0	0	14
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	5	1	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	1	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	3	0	0	0	0	0	3
Racial Shares of Stops							
Including externally generated stops	86.9%	8.2%	4.0%	0.7%	0.2%	0.8%	
Excluding externally generated stops	86.9%	8.2%	4.0%	0.7%	0.2%	0.8%	
Driver Percentage (using local ACS)	87.1%	5.2%	6.8%		0.9%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	87.1%	6.5%	5.3%	0.8%	0.3%		
Disparity Index (using local ACS)	1.00	1.59	0.59		0.25		
Disparity Index (using county ACS)	0.95	3.18	0.90		0.25		
Disparity Index (using DMV Accident data)	1.00	1.26	0.76	0.88	0.73		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	43	70	26		11		43
Stop Reason as % of All Stops							
Safety Stops	51.7%	51.4%	59.3%	45.1%	50.0%	21.1%	52.0%
Moving Violation	51.6%	51.3%	58.9%	45.1%	50.0%	21.1%	51.8%
Suspicion of DWI	0.1%	0.2%	0.3%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	33.7%	36.1%	28.8%	41.2%	50.0%	7.0%	33.8%
Investigatory Stops	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	33.5%	35.7%	28.8%	41.2%	50.0%	7.0%	33.5%
Externally Generated Stops	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%
Multiple Reasons	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	14.4%	12.0%	12.0%	13.7%	0.0%	71.9%	14.0%
Outcome Rates as a % of All Stops							
Warning Rate	86.2%	83.1%	86.0%	78.4%	93.8%	29.8%	85.9%
Ticket Rate	10.5%	14.1%	12.0%	17.7%	6.3%	17.5%	10.9%
Arrest for Violation Rate	2.7%	2.5%	1.0%	2.0%	0.0%	0.0%	2.6%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	2.2%	4.0%	1.0%	0.0%	0.0%	0.0%	2.3%
Search rate (incl. searches on warrant)	2.4%	4.4%	1.4%	2.0%	0.0%	0.0%	2.5%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	49.4%	65.4%	25.0%	0.0%	NA	NA	50.8%
Hit rates (excl. warnings as outcomes)	36.4%	53.9%	25.0%	0.0%	NA	NA	38.4%
Hit rates (outcome = arrest)	12.3%	11.5%	0.0%	0.0%	NA	NA	11.9%

Table A.5. Vergennes Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	11,552	490	285	232	9	170	12,738
Excluding externally generated stops	11,488	481	285	227	9	170	12,660
Reasons For Stops							
Safety Stops	10,519	434	271	210	8	148	11,590
Moving Violation	10,508	434	271	209	8	148	11,578
Suspicion of DWI	11	0	0	1	0	0	12
Investigatory/Pretextual Stops	692	33	7	15	1	14	762
Investigatory Stop	60	3	0	1	0	0	64
Vehicle Equipment	632	30	7	14	1	14	698
Externally Generated Stop	64	9	0	5	0	0	78
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	7	1	0	0	0	0	8
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	270	13	7	2	0	8	300
Outcomes							
Ticket	6,008	264	191	158	4	69	6,694
Warning	5,195	198	90	67	5	93	5,648
No Action Taken	31	1	0	0	0	0	32
Arrest for violation	97	9	0	2	0	0	108
Arrest for warrant	7	1	0	0	0	0	8
Searches							
Total Stops with No Search	11,109	452	277	222	9	162	12,231
No Search & Contraband & Arrest for violation	7	1	0	0	0	0	8
No Search & Contraband & No arrest	30	1	2	3	0	1	37
No Search (all others)	11,072	450	275	219	9	161	12,186
Total Stops with Unknown Search	247	8	7	1	0	8	271
Total Stops with Search	132	21	1	4	0	0	158
Search with Probable Cause (PC)	89	19	1	4	0	0	113
Stops with PC Searches, No contraband	7	6	0	1	0	0	14
Stops with PC Searches, Unknown contraband	0	0	0	1	0	0	1
Stops with PC Searches, Contraband	82	13	1	2	0	0	98
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Ticket	75	13	1	2	0	0	91
Stops with PC Searches, Contraband and Arrest	6	0	0	0	0	0	6
Search with Reasonable Suspicion (RS)	36	1	0	0	0	0	37
Stops with RS Searches, No contraband	18	1	0	0	0	0	19
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	17	0	0	0	0	0	17
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	13	0	0	0	0	0	13
Stops with RS Searches, Contraband & Arrest	3	0	0	0	0	0	3
Search with Warrant	7	1	0	0	0	0	8
Stops with Warrant Searches, No contraband	3	0	0	0	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	4	1	0	0	0	0	5
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	2	1	0	0	0	0	3
Racial Shares of Stops							
Including externally generated stops	91.9%	3.9%	2.3%	1.8%	0.1%	1.4%	
Excluding externally generated stops	92.0%	3.9%	2.3%	1.8%	0.1%	1.4%	
Driver Percentage (using local ACS)	98.5%	0.7%		0.8%			
Driver Percentage (using county ACS)	95.1%	1.7%	2.4%	0.9%			
Driver Percentage (DMV Accident data)	96.9%	0.9%	1.8%	0.4%			
Disparity Index (using local ACS)	0.95	5.60		0.09			
Disparity Index (using county ACS)	0.99	2.31	0.97	0.08			
Disparity Index (using DMV Accident data)	0.95	4.28	1.27	4.54			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,034	6,013			106		1,087
Stop Reason as % of All Stops							
Safety Stops	91.1%	88.6%	95.1%	90.5%	88.9%	87.1%	91.0%
Moving Violation	91.0%	88.6%	95.1%	90.1%	88.9%	87.1%	91.0%
Suspicion of DWI	0.1%	0.0%	0.0%	0.4%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	6.0%	6.7%	2.5%	6.5%	11.1%	8.2%	6.0%
Investigatory Stops	0.5%	0.6%	0.0%	0.4%	0.0%	0.0%	0.5%
Vehicle Equipment	5.5%	6.1%	2.5%	6.0%	11.1%	8.2%	5.4%
Externally Generated Stops	0.6%	1.8%	0.0%	2.2%	0.0%	0.0%	0.6%
Multiple Reasons	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	2.3%	2.7%	2.5%	0.9%	0.0%	4.7%	2.3%
Outcome Rates as a % of All Stops							
Warning Rate	45.2%	41.2%	31.6%	29.5%	55.6%	54.7%	44.5%
Ticket Rate	52.3%	54.9%	67.0%	69.6%	44.4%	40.6%	53.0%
Arrest for Violation Rate	0.8%	1.9%	0.0%	0.9%	0.0%	0.0%	0.9%
Arrest for Warrant Rate	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	4.2%	0.4%	1.8%	0.0%	0.0%	1.2%
Search rate (incl. searches on warrant)	1.2%	4.4%	0.4%	1.8%	0.0%	0.0%	1.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	78.0%	66.7%	100.0%	50.0%	NA	NA	76.0%
Hit rates (excl. warnings as outcomes)	76.5%	66.7%	100.0%	50.0%	NA	NA	74.7%
Hit rates (outcome = arrest)	8.3%	4.8%	0.0%	0.0%	NA	NA	7.6%

Table A.5. VT DMV Raw Traffic Stop Data, 2017-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	13,333	1,105	330	710	10	1	15,489
Excluding externally generated stops	13,223	1,096	327	702	10	1	15,359
Reasons For Stops							
Safety Stops	6,046	475	158	289	7	0	6,975
Moving Violation	6,043	474	158	289	7	0	6,971
Suspicion of DWI	3	1	0	0	0	0	4
Investigatory/Pretextual Stops	7,032	620	168	406	3	1	8,230
Investigatory Stop	52	0	0	0	1	0	53
Vehicle Equipment	6,980	620	168	406	2	1	8,177
Externally Generated Stop	110	9	3	8	0	0	130
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	144	1	1	7	0	0	153
Outcomes							
Ticket	4,417	308	106	230	7	1	5,069
Warning	4,803	460	115	266	2	0	5,646
No Action Taken	3,972	326	105	204	1	0	4,608
Arrest for violation	35	2	1	2	0	0	40
Arrest for warrant	4	0	0	0	0	0	4
Searches							
Total Stops with No Search	13,189	1,086	326	694	10	1	15,306
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	12	1	0	1	0	0	14
No Search (all others)	13,177	1,085	326	693	10	1	15,292
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	34	10	1	8	0	0	53
Search with Probable Cause (PC)	14	6	1	5	0	0	26
Stops with PC Searches, No contraband	1	0	0	1	0	0	2
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	13	6	1	4	0	0	24
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	10	5	1	4	0	0	20
Stops with PC Searches, Contraband and Arrest	1	1	0	0	0	0	2
Search with Reasonable Suspicion (RS)	14	4	0	2	0	0	20
Stops with RS Searches, No contraband	9	2	0	1	0	0	12
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	5	2	0	1	0	0	8
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	5	2	0	1	0	0	8
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	6	0	0	1	0	0	7
Stops with Warrant Searches, No contraband	6	0	0	1	0	0	7
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	86.1%	7.1%	2.1%	4.6%	0.1%	0.0%	
Excluding externally generated stops	86.1%	7.1%	2.1%	4.6%	0.1%	0.0%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)	96.4%	1.8%	0.9%	0.9%			
Disparity Index (using local ACS)	0.95	4.67	1.06		0.05		
Disparity Index (using county ACS)	0.95	4.67	1.06		0.05		
Disparity Index (using DMV Accident data)	0.89	3.97	2.37	5.08			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	9	42	10				9
Stop Reason as % of All Stops							
Safety Stops	45.4%	43.0%	47.9%	40.7%	70.0%	0.0%	45.0%
Moving Violation	45.3%	42.9%	47.9%	40.7%	70.0%	0.0%	45.0%
Suspicion of DWI	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	52.7%	56.1%	50.9%	57.2%	30.0%	100.0%	53.1%
Investigatory Stops	0.4%	0.0%	0.0%	0.0%	10.0%	0.0%	0.3%
Vehicle Equipment	52.4%	56.1%	50.9%	57.2%	20.0%	100.0%	52.8%
Externally Generated Stops	0.8%	0.8%	0.9%	1.1%	0.0%	0.0%	0.8%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	1.1%	0.1%	0.3%	1.0%	0.0%	0.0%	1.0%
Outcome Rates as a % of All Stops							
Warning Rate	36.3%	42.0%	35.2%	37.9%	20.0%	0.0%	36.8%
Ticket Rate	33.4%	28.1%	32.4%	32.8%	70.0%	100.0%	33.0%
Arrest for Violation Rate	0.3%	0.2%	0.3%	0.3%	0.0%	0.0%	0.3%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	30.0%	29.7%	32.1%	29.1%	10.0%	0.0%	30.0%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	0.9%	0.3%	1.0%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.3%	0.9%	0.3%	1.1%	0.0%	0.0%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	52.9%	80.0%	100.0%	62.5%	NA	NA	60.4%
Hit rates (excl. warnings as outcomes)	47.1%	80.0%	100.0%	62.5%	NA	NA	56.6%
Hit rates (outcome = arrest)	2.9%	10.0%	0.0%	0.0%	NA	NA	3.8%

Table A.5. VT Fish and Wildlife Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	326	7	5	8	0	12	358
Excluding externally generated stops	321	7	5	8	0	12	353
Reasons For Stops							
Safety Stops	214	6	3	6	0	6	235
Moving Violation	200	4	3	5	0	6	218
Suspicion of DWI	14	2	0	1	0	0	17
Investigatory/Pretextual Stops	55	1	0	0	0	2	58
Investigatory Stop	29	0	0	0	0	1	30
Vehicle Equipment	26	1	0	0	0	1	28
Externally Generated Stop	5	0	0	0	0	0	5
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	52	0	2	2	0	4	60
Outcomes							
Ticket	154	4	3	3	0	3	167
Warning	147	3	2	5	0	7	164
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	8	0	0	0	0	0	8
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	293	6	4	8	0	11	322
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	5	0	0	0	0	0	5
No Search (all others)	287	6	4	8	0	11	316
Total Stops with Unknown Search	24	0	1	0	0	1	26
Total Stops with Search	4	1	0	0	0	0	5
Search with Probable Cause (PC)	2	1	0	0	0	0	3
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	2	1	0	0	0	0	3
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	1	0	0	0	0	3
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	1	0	0	0	0	0	1
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	0	0	0	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	1	0	0	0	0	0	1
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.2%	2.0%	1.4%	2.3%		3.5%	
Excluding externally generated stops	94.1%	2.1%	1.5%	2.3%		3.5%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.02	1.31	0.72				
Disparity Index (using county ACS)	1.02	1.31	0.72				
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	65.6%	85.7%	60.0%	75.0%	0.0%	50.0%	66.2%
Moving Violation	61.4%	57.1%	60.0%	62.5%	0.0%	50.0%	61.3%
Suspicion of DWI	4.3%	28.6%	0.0%	12.5%	0.0%	0.0%	4.9%
Investigatory/Pretextual Stops	16.9%	14.3%	0.0%	0.0%	0.0%	16.7%	16.2%
Investigatory Stops	8.9%	0.0%	0.0%	0.0%	0.0%	8.3%	8.4%
Vehicle Equipment	8.0%	14.3%	0.0%	0.0%	0.0%	8.3%	7.8%
Externally Generated Stops	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	16.0%	0.0%	40.0%	25.0%	0.0%	33.3%	16.2%
Outcome Rates as a % of All Stops							
Warning Rate	45.8%	42.9%	40.0%	62.5%	0.0%	58.3%	46.0%
Ticket Rate	48.0%	57.1%	60.0%	37.5%	0.0%	25.0%	48.1%
Arrest for Violation Rate	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%
Arrest for Warrant Rate	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
No Action Rate	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	14.3%	0.0%	0.0%	0.0%	0.0%	1.2%
Search rate (incl. searches on warrant)	1.3%	14.3%	0.0%	0.0%	0.0%	0.0%	1.5%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	75.0%	100.0%	NA	NA	NA	NA	80.0%
Hit rates (excl. warnings as outcomes)	0.0%	0.0%	NA	NA	NA	NA	0.0%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	NA	NA	NA	0.0%

Table A.5. Waterbury Raw Traffic Stop Data, 2017

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	36	1	0	1	0	0	38
Excluding externally generated stops	34	1	0	1	0	0	36
Reasons For Stops							
Safety Stops	33	1	0	1	0	0	35
Moving Violation	33	1	0	1	0	0	35
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	0	0	0	0	0	0	0
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	0	0	0	0	0	0	0
Externally Generated Stop	2	0	0	0	0	0	2
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	0	0	0	0	0
Outcomes							
Ticket	31	1	0	1	0	0	33
Warning	3	0	0	0	0	0	3
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	34	1	0	1	0	0	36
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	34	1	0	1	0	0	36
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.7%	2.6%		2.6%			
Excluding externally generated stops	94.4%	2.8%		2.8%			
Driver Percentage (using local ACS)	98.2%		1.8%				
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	97.8%		2.2%				
Disparity Index (using local ACS)	0.99						
Disparity Index (using county ACS)	1.01	2.04					
Disparity Index (using DMV Accident data)	0.97						
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	91.7%	100.0%	0.0%	100.0%	0.0%	0.0%	92.1%
Moving Violation	91.7%	100.0%	0.0%	100.0%	0.0%	0.0%	92.1%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Externally Generated Stops	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%
Multiple Reasons	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	8.8%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%
Ticket Rate	91.2%	100.0%	0.0%	100.0%	0.0%	0.0%	91.7%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Weathersfield Raw Traffic Stop Data, 2015-19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	3,093	35	27	28	1	29	3,213
Excluding externally generated stops	3,092	35	27	28	1	29	3,212
Reasons For Stops							
Safety Stops	3,025	35	27	26	1	28	3,142
Moving Violation	3,025	35	27	26	1	28	3,142
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	36	0	0	2	0	1	39
Investigatory Stop	1	0	0	1	0	0	2
Vehicle Equipment	35	0	0	1	0	1	37
Externally Generated Stop	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	31	0	0	0	0	0	31
Outcomes							
Ticket	1,314	22	17	14	1	19	1,387
Warning	1,802	13	10	15	0	10	1,850
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	4	0	0	1	0	0	5
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	3,040	33	27	27	1	23	3,151
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	1	0	0	0	0	0	1
No Search (all others)	3,039	33	27	27	1	23	3,150
Total Stops with Unknown Search	35	1	0	0	0	6	42
Total Stops with Search	17	1	0	1	0	0	19
Search with Probable Cause (PC)	9	0	0	1	0	0	10
Stops with PC Searches, No contraband	0	0	0	1	0	0	1
Stops with PC Searches, Unknown contraband	4	0	0	0	0	0	4
Stops with PC Searches, Contraband	5	0	0	0	0	0	5
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	4	0	0	0	0	0	4
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	7	1	0	0	0	0	8
Stops with RS Searches, No contraband	2	0	0	0	0	0	2
Stops with RS Searches, Unknown contraband	0	1	0	0	0	0	1
Stops with RS Searches, Contraband	5	0	0	0	0	0	5
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	1	0	0	0	0	0	1
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.1%	1.1%	0.8%	0.9%	0.0%	0.9%	
Excluding externally generated stops	97.1%	1.1%	0.8%	0.9%	0.0%	0.9%	
Driver Percentage (using local ACS)	97.6%	1.6%		0.9%	0.8%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%	1.1%	1.1%		
Driver Percentage (DMV Accident data)	95.8%	1.3%	0.6%	0.6%	1.6%		
Disparity Index (using local ACS)	1.00	0.69			0.04		
Disparity Index (using county ACS)	1.02	1.01	0.57		0.03		
Disparity Index (using DMV Accident data)	1.01	0.85	1.41	1.47	0.02		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	266	189			11		265
Stop Reason as % of All Stops							
Safety Stops	97.8%	100.0%	100.0%	92.9%	100.0%	96.6%	97.8%
Moving Violation	97.8%	100.0%	100.0%	92.9%	100.0%	96.6%	97.8%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	1.2%	0.0%	0.0%	7.1%	0.0%	3.5%	1.2%
Investigatory Stops	0.0%	0.0%	0.0%	3.6%	0.0%	0.0%	0.1%
Vehicle Equipment	1.1%	0.0%	0.0%	3.6%	0.0%	3.5%	1.1%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Outcome Rates as a % of All Stops							
Warning Rate	58.3%	37.1%	37.0%	53.6%	0.0%	34.5%	57.8%
Ticket Rate	42.5%	62.9%	63.0%	50.0%	100.0%	65.5%	43.0%
Arrest for Violation Rate	0.1%	0.0%	0.0%	3.6%	0.0%	0.0%	0.2%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	2.9%	0.0%	3.6%	0.0%	0.0%	0.6%
Search rate (incl. searches on warrant)	0.6%	2.9%	0.0%	3.6%	0.0%	0.0%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	58.8%	0.0%	NA	0.0%	NA	NA	52.6%
Hit rates (excl. warnings as outcomes)	52.9%	0.0%	NA	0.0%	NA	NA	47.4%
Hit rates (outcome = arrest)	5.9%	0.0%	NA	0.0%	NA	NA	5.3%

Table A.5. Wells Raw Traffic Stop Data, 2017,19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	6	0	0	0	0	0	6
Excluding externally generated stops	6	0	0	0	0	0	6
Reasons For Stops							
Safety Stops	6	0	0	0	0	0	6
Moving Violation	6	0	0	0	0	0	6
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	0	0	0	0	0	0	0
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	0	0	0	0	0	0	0
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	0	0	0	0	0
Outcomes							
Ticket	6	0	0	0	0	0	6
Warning	0	0	0	0	0	0	0
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	6	0	0	0	0	0	6
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	6	0	0	0	0	0	6
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	0	0	0	0	0	0	0
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	0	0	0	0	0	0	0
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	100.0%						
Excluding externally generated stops	100.0%						
Driver Percentage (using local ACS)	95.9%		1.5%		2.6%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.04						
Disparity Index (using county ACS)	1.03						
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Moving Violation	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ticket Rate	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search rate (incl. searches on warrant)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (excl. warnings as outcomes)	NA	NA	NA	NA	NA	NA	NA
Hit rates (outcome = arrest)	NA	NA	NA	NA	NA	NA	NA

Table A.5. Williston Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	16,114	758	408	223	12	244	17,759
Excluding externally generated stops	15,614	722	391	215	12	236	17,190
Reasons For Stops							
Safety Stops	8,211	401	235	128	8	129	9,112
Moving Violation	8,190	401	234	128	8	129	9,090
Suspicion of DWI	21	0	1	0	0	0	22
Investigatory/Pretextual Stops	7,225	314	151	83	4	102	7,879
Investigatory Stop	936	27	20	10	0	7	1,000
Vehicle Equipment	6,289	287	131	73	4	95	6,879
Externally Generated Stop	500	36	17	8	0	8	569
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	21	0	0	1	0	0	22
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	156	7	5	3	0	5	176
Outcomes							
Ticket	3,807	206	96	79	2	33	4,223
Warning	11,249	470	286	125	10	199	12,339
No Action Taken	78	3	0	0	0	1	82
Arrest for violation	466	35	11	11	0	0	523
Arrest for warrant	9	5	0	0	0	0	14
Searches							
Total Stops with No Search	15,398	703	391	210	12	232	16,946
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	78	1	0	1	0	0	80
No Search (all others)	15,317	702	391	209	12	232	16,863
Total Stops with Unknown Search	39	3	0	2	0	4	48
Total Stops with Search	177	16	0	3	0	0	196
Search with Probable Cause (PC)	131	15	0	3	0	0	149
Stops with PC Searches, No contraband	25	3	0	1	0	0	29
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	106	12	0	2	0	0	120
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	27	3	0	1	0	0	31
Stops with PC Searches, Contraband and Ticket	53	9	0	1	0	0	63
Stops with PC Searches, Contraband and Arrest	26	0	0	0	0	0	26
Search with Reasonable Suspicion (RS)	34	1	0	0	0	0	35
Stops with RS Searches, No contraband	7	0	0	0	0	0	7
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	27	1	0	0	0	0	28
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	8	0	0	0	0	0	8
Stops with RS Searches, Contraband & Ticket	13	1	0	0	0	0	14
Stops with RS Searches, Contraband & Arrest	6	0	0	0	0	0	6
Search with Warrant	12	0	0	0	0	0	12
Stops with Warrant Searches, No contraband	3	0	0	0	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	9	0	0	0	0	0	9
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	6	0	0	0	0	0	6
Racial Shares of Stops							
Including externally generated stops	92.0%	4.3%	2.3%	1.3%	0.1%	1.4%	
Excluding externally generated stops	92.1%	4.3%	2.3%	1.3%	0.1%	1.4%	
Driver Percentage (using local ACS)	93.8%	1.3%	4.8%		0.2%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	94.3%	2.3%	2.2%	0.7%	0.5%		
Disparity Index (using local ACS)	0.99	3.32	0.49		0.36		
Disparity Index (using county ACS)	1.02	1.66	0.52		0.08		
Disparity Index (using DMV Accident data)	0.98	1.85	1.05	1.81	0.14		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	442	1,588	224		231		446
Stop Reason as % of All Stops							
Safety Stops	51.0%	52.9%	57.6%	57.4%	66.7%	52.9%	51.3%
Moving Violation	50.8%	52.9%	57.4%	57.4%	66.7%	52.9%	51.2%
Suspicion of DWI	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	44.8%	41.4%	37.0%	37.2%	33.3%	41.8%	44.4%
Investigatory Stops	5.8%	3.6%	4.9%	4.5%	0.0%	2.9%	5.7%
Vehicle Equipment	39.0%	37.9%	32.1%	32.7%	33.3%	38.9%	38.7%
Externally Generated Stops	3.1%	4.8%	4.2%	3.6%	0.0%	3.3%	3.2%
Multiple Reasons	0.1%	0.0%	0.0%	0.5%	0.0%	0.0%	0.1%
Unknown Reason	1.0%	0.9%	1.2%	1.4%	0.0%	2.1%	1.0%
Outcome Rates as a % of All Stops							
Warning Rate	72.0%	65.1%	73.2%	58.1%	83.3%	84.3%	71.6%
Ticket Rate	24.4%	28.5%	24.6%	36.7%	16.7%	14.0%	24.7%
Arrest for Violation Rate	3.0%	4.9%	2.8%	5.1%	0.0%	0.0%	3.1%
Arrest for Warrant Rate	0.1%	0.7%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.5%	0.4%	0.0%	0.0%	0.0%	0.4%	0.5%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	2.2%	0.0%	1.4%	0.0%	0.0%	1.1%
Search rate (incl. searches on warrant)	1.1%	2.2%	0.0%	1.4%	0.0%	0.0%	1.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.2%	81.3%	NA	66.7%	NA	NA	80.1%
Hit rates (excl. warnings as outcomes)	59.9%	62.5%	NA	33.3%	NA	NA	59.7%
Hit rates (outcome = arrest)	21.5%	0.0%	NA	0.0%	NA	NA	19.4%

Table A.5. Wilmington Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	3,557	71	67	111	2	132	3,940
Excluding externally generated stops	3,497	69	65	110	2	129	3,872
Reasons For Stops							
Safety Stops	2,940	56	60	92	2	49	3,199
Moving Violation	2,940	56	60	92	2	49	3,199
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	462	11	5	14	0	10	502
Investigatory Stop	15	1	0	1	0	2	19
Vehicle Equipment	447	10	5	13	0	8	483
Externally Generated Stop	60	2	2	1	0	3	68
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	5	0	0	0	0	0	5
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	90	2	0	4	0	70	166
Outcomes							
Ticket	2,151	43	40	66	1	105	2,406
Warning	1,350	24	24	44	1	14	1,457
No Action Taken	2	0	0	0	0	0	2
Arrest for violation	16	0	0	1	0	1	18
Arrest for warrant	0	0	1	0	0	0	1
Searches							
Total Stops with No Search	3,408	66	64	108	2	98	3,746
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	15	0	0	0	0	2	17
No Search (all others)	3,393	66	64	108	2	96	3,729
Total Stops with Unknown Search	61	2	0	0	0	31	94
Total Stops with Search	28	1	1	2	0	0	32
Search with Probable Cause (PC)	18	1	1	1	0	0	21
Stops with PC Searches, No contraband	4	1	0	0	0	0	5
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	14	0	1	1	0	0	16
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	10	0	1	1	0	0	12
Stops with PC Searches, Contraband and Arrest	2	0	0	0	0	0	2
Search with Reasonable Suspicion (RS)	10	0	0	1	0	0	11
Stops with RS Searches, No contraband	3	0	0	1	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	7	0	0	0	0	0	7
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	6	0	0	0	0	0	6
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	93.4%	1.9%	1.8%	2.9%	0.1%	3.5%	
Excluding externally generated stops	93.4%	1.8%	1.7%	2.9%	0.1%	3.4%	
Driver Percentage (using local ACS)	100.0%						
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	92.4%	1.7%	4.1%	1.5%	0.3%		
Disparity Index (using local ACS)	0.96						
Disparity Index (using county ACS)	1.01	1.12	1.12		0.04		
Disparity Index (using DMV Accident data)	1.01	1.08	0.42	1.96	0.18		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	3,036						3,163
Stop Reason as % of All Stops							
Safety Stops	82.7%	78.9%	89.6%	82.9%	100.0%	37.1%	82.7%
Moving Violation	82.7%	78.9%	89.6%	82.9%	100.0%	37.1%	82.7%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	13.0%	15.5%	7.5%	12.6%	0.0%	7.6%	12.9%
Investigatory Stops	0.4%	1.4%	0.0%	0.9%	0.0%	1.5%	0.5%
Vehicle Equipment	12.6%	14.1%	7.5%	11.7%	0.0%	6.1%	12.5%
Externally Generated Stops	1.7%	2.8%	3.0%	0.9%	0.0%	2.3%	1.7%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	2.5%	2.8%	0.0%	3.6%	0.0%	53.0%	2.5%
Outcome Rates as a % of All Stops							
Warning Rate	38.6%	34.8%	36.9%	40.0%	50.0%	10.9%	38.6%
Ticket Rate	61.5%	62.3%	61.5%	60.0%	50.0%	81.4%	61.5%
Arrest for Violation Rate	0.5%	0.0%	0.0%	0.9%	0.0%	0.8%	0.5%
Arrest for Warrant Rate	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	1.5%	1.5%	1.8%	0.0%	0.0%	0.9%
Search rate (incl. searches on warrant)	0.8%	1.5%	1.5%	1.8%	0.0%	0.0%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	75.0%	0.0%	100.0%	50.0%	NA	NA	71.9%
Hit rates (excl. warnings as outcomes)	64.3%	0.0%	100.0%	50.0%	NA	NA	62.5%
Hit rates (outcome = arrest)	7.1%	0.0%	0.0%	0.0%	NA	NA	6.3%

Table A.5. Windsor Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	3,448	61	27	35	3	2,554	6,128
Excluding externally generated stops	3,366	59	27	35	3	2,554	6,044
Reasons For Stops							
Safety Stops	2,437	44	23	28	2	15	2,549
Moving Violation	2,431	44	23	28	2	15	2,543
Suspicion of DWI	6	0	0	0	0	0	6
Investigatory/Pretextual Stops	848	14	4	5	1	3	875
Investigatory Stop	26	1	0	0	0	0	27
Vehicle Equipment	822	13	4	5	1	3	848
Externally Generated Stop	82	2	0	0	0	0	84
Multiple Reasons - Moving Violation & Suspicion of DWI	2	0	0	0	0	0	2
Multiple Reasons - Moving Violation & Vehicle Equipment	13	0	0	0	0	0	13
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	66	1	0	2	0	2,536	2,605
Outcomes							
Ticket	742	11	7	15	0	23	798
Warning	2,649	46	21	21	3	12	2,752
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	14	2	0	0	0	0	16
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	3,270	57	27	33	3	17	3,407
No Search & Contraband & Arrest for violation	1	1	0	0	0	0	2
No Search & Contraband & No arrest	10	1	0	1	0	0	12
No Search (all others)	3,259	55	27	32	3	17	3,393
Total Stops with Unknown Search	68	1	0	2	0	2,537	2,608
Total Stops with Search	28	1	0	0	0	0	29
Search with Probable Cause (PC)	10	1	0	0	0	0	11
Stops with PC Searches, No contraband	2	0	0	0	0	0	2
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	8	1	0	0	0	0	9
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	6	0	0	0	0	0	6
Stops with PC Searches, Contraband and Arrest	2	1	0	0	0	0	3
Search with Reasonable Suspicion (RS)	17	0	0	0	0	0	17
Stops with RS Searches, No contraband	4	0	0	0	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	13	0	0	0	0	0	13
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	11	0	0	0	0	0	11
Stops with RS Searches, Contraband & Arrest	2	0	0	0	0	0	2
Search with Warrant	1	0	0	0	0	0	1
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	96.5%	1.7%	0.8%	1.0%	0.1%	71.5%	
Excluding externally generated stops	96.4%	1.7%	0.8%	1.0%	0.1%	73.2%	
Driver Percentage (using local ACS)	91.2%	5.2%	1.9%		1.7%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	97.2%	1.4%	0.7%	0.4%	0.4%		
Disparity Index (using local ACS)	1.07	0.33	0.41		0.05		
Disparity Index (using county ACS)	1.01	1.55	0.52		0.08		
Disparity Index (using DMV Accident data)	0.99	1.21	1.11	2.51	0.22		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	462	141	177		18		432
Stop Reason as % of All Stops							
Safety Stops	70.7%	72.1%	85.2%	80.0%	66.7%	0.6%	70.9%
Moving Violation	70.5%	72.1%	85.2%	80.0%	66.7%	0.6%	70.7%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	24.6%	23.0%	14.8%	14.3%	33.3%	0.1%	24.4%
Investigatory Stops	0.8%	1.6%	0.0%	0.0%	0.0%	0.0%	0.8%
Vehicle Equipment	23.8%	21.3%	14.8%	14.3%	33.3%	0.1%	23.6%
Externally Generated Stops	2.4%	3.3%	0.0%	0.0%	0.0%	0.0%	2.4%
Multiple Reasons	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	1.9%	1.6%	0.0%	5.7%	0.0%	99.3%	1.9%
Outcome Rates as a % of All Stops							
Warning Rate	78.7%	78.0%	77.8%	60.0%	100.0%	0.5%	78.5%
Ticket Rate	22.0%	18.6%	25.9%	42.9%	0.0%	0.9%	22.2%
Arrest for Violation Rate	0.4%	3.4%	0.0%	0.0%	0.0%	0.0%	0.5%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	1.7%	0.0%	0.0%	0.0%	0.0%	0.8%
Search rate (incl. searches on warrant)	0.8%	1.7%	0.0%	0.0%	0.0%	0.0%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	78.6%	100.0%	NA	NA	NA	NA	79.3%
Hit rates (excl. warnings as outcomes)	78.6%	100.0%	NA	NA	NA	NA	79.3%
Hit rates (outcome = arrest)	17.9%	100.0%	NA	NA	NA	NA	20.7%

Table A.5. Winhall Raw Traffic Stop Data, 2015,17-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	3,286	71	56	14	2	251	3,680
Excluding externally generated stops	3,273	71	56	14	2	249	3,665
Reasons For Stops							
Safety Stops	2,518	57	53	10	2	200	2,840
Moving Violation	2,513	57	53	10	2	200	2,835
Suspicion of DWI	5	0	0	0	0	0	5
Investigatory/Pretextual Stops	561	12	3	2	0	36	614
Investigatory Stop	27	0	0	0	0	1	28
Vehicle Equipment	534	12	3	2	0	35	586
Externally Generated Stop	13	0	0	0	0	2	15
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	9	0	0	1	0	0	10
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	185	2	0	1	0	13	201
Outcomes							
Ticket	888	18	25	5	0	31	967
Warning	2,391	53	31	10	2	210	2,697
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	15	0	0	0	0	1	16
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	3,043	60	51	13	2	231	3,400
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	10	0	0	0	0	0	10
No Search (all others)	3,033	60	51	13	2	231	3,390
Total Stops with Unknown Search	199	5	5	0	0	15	224
Total Stops with Search	31	6	0	1	0	3	41
Search with Probable Cause (PC)	25	6	0	1	0	2	34
Stops with PC Searches, No contraband	2	2	0	0	0	0	4
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	23	4	0	1	0	2	30
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	5	2	0	0	0	1	8
Stops with PC Searches, Contraband and Ticket	16	2	0	1	0	1	20
Stops with PC Searches, Contraband and Arrest	2	0	0	0	0	0	2
Search with Reasonable Suspicion (RS)	5	0	0	0	0	0	5
Stops with RS Searches, No contraband	4	0	0	0	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	1	0	0	0	0	0	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	1	0	0	0	0	1	2
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	1	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	1	2
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	95.8%	2.1%	1.6%	0.4%	0.1%	7.3%	
Excluding externally generated stops	95.8%	2.1%	1.6%	0.4%	0.1%	7.3%	
Driver Percentage (using local ACS)	94.8%	4.6%	0.6%				
Driver Percentage (using county ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (DMV Accident data)	91.7%	0.9%	3.9%	3.5%			
Disparity Index (using local ACS)	1.02	0.45	2.74				
Disparity Index (using county ACS)	1.00	1.23	2.35		0.04		
Disparity Index (using DMV Accident data)	1.05	2.31	0.42	0.12			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	2,029	867	5,889				1,998
Stop Reason as % of All Stops							
Safety Stops	76.6%	80.3%	94.6%	71.4%	100.0%	79.7%	77.0%
Moving Violation	76.5%	80.3%	94.6%	71.4%	100.0%	79.7%	76.8%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	17.1%	16.9%	5.4%	14.3%	0.0%	14.3%	16.9%
Investigatory Stops	0.8%	0.0%	0.0%	0.0%	0.0%	0.4%	0.8%
Vehicle Equipment	16.3%	16.9%	5.4%	14.3%	0.0%	13.9%	16.1%
Externally Generated Stops	0.4%	0.0%	0.0%	0.0%	0.0%	0.8%	0.4%
Multiple Reasons	0.3%	0.0%	0.0%	7.1%	0.0%	0.0%	0.3%
Unknown Reason	5.6%	2.8%	0.0%	7.1%	0.0%	5.2%	5.5%
Outcome Rates as a % of All Stops							
Warning Rate	73.1%	74.7%	55.4%	71.4%	100.0%	84.3%	72.8%
Ticket Rate	27.1%	25.4%	44.6%	35.7%	0.0%	12.5%	27.4%
Arrest for Violation Rate	0.5%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	8.5%	0.0%	7.1%	0.0%	0.8%	1.1%
Search rate (incl. searches on warrant)	1.0%	8.5%	0.0%	7.1%	0.0%	1.2%	1.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.7%	66.7%	NA	100.0%	NA	100.0%	79.0%
Hit rates (excl. warnings as outcomes)	61.3%	33.3%	NA	100.0%	NA	66.7%	57.9%
Hit rates (outcome = arrest)	6.5%	0.0%	NA	0.0%	NA	0.0%	5.3%

Table A.5. Winooski Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	6,341	943	367	36	6	229	7,922
Excluding externally generated stops	6,291	937	366	36	6	228	7,864
Reasons For Stops							
Safety Stops	3,784	498	232	23	2	138	4,677
Moving Violation	3,778	498	229	23	2	138	4,668
Suspicion of DWI	6	0	3	0	0	0	9
Investigatory/Pretextual Stops	2,119	380	107	8	3	48	2,665
Investigatory Stop	82	10	3	0	0	7	102
Vehicle Equipment	2,037	370	104	8	3	41	2,563
Externally Generated Stop	50	6	1	0	0	1	58
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	13	2	0	0	0	0	15
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	375	57	27	5	1	42	507
Outcomes							
Ticket	1,167	199	64	7	1	46	1,484
Warning	4,899	713	292	26	3	141	6,074
No Action Taken	18	2	0	0	0	7	27
Arrest for violation	135	26	10	1	1	4	177
Arrest for warrant	14	3	1	0	0	0	18
Searches							
Total Stops with No Search	5,990	871	355	33	5	187	7,441
No Search & Contraband & Arrest for violation	2	0	1	0	0	0	3
No Search & Contraband & No arrest	18	5	0	0	0	2	25
No Search (all others)	5,970	866	354	33	5	185	7,413
Total Stops with Unknown Search	175	24	7	2	1	37	246
Total Stops with Search	126	42	4	1	0	4	177
Search with Probable Cause (PC)	53	17	2	0	0	2	74
Stops with PC Searches, No contraband	8	3	1	0	0	1	13
Stops with PC Searches, Unknown contraband	10	2	0	0	0	0	12
Stops with PC Searches, Contraband	35	12	1	0	0	1	49
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	9	2	1	0	0	0	12
Stops with PC Searches, Contraband and Ticket	14	7	0	0	0	1	22
Stops with PC Searches, Contraband and Arrest	12	3	0	0	0	0	15
Search with Reasonable Suspicion (RS)	59	24	1	1	0	2	87
Stops with RS Searches, No contraband	17	9	0	0	0	1	27
Stops with RS Searches, Unknown contraband	12	2	1	0	0	0	15
Stops with RS Searches, Contraband	30	13	0	1	0	1	45
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	11	7	0	0	0	1	19
Stops with RS Searches, Contraband & Ticket	17	5	0	1	0	0	23
Stops with RS Searches, Contraband & Arrest	2	1	0	0	0	0	3
Search with Warrant	14	1	1	0	0	0	16
Stops with Warrant Searches, No contraband	7	1	0	0	0	0	8
Stops with Warrant Searches, Unknown contraband	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband	4	0	1	0	0	0	5
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	0	0	1	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	3	0	0	0	0	0	3
Racial Shares of Stops							
Including externally generated stops	82.4%	12.3%	4.8%	0.5%	0.1%	3.0%	
Excluding externally generated stops	82.4%	12.3%	4.8%	0.5%	0.1%	3.0%	
Driver Percentage (using local ACS)	84.2%	3.7%	11.4%		0.7%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	81.4%	9.8%	8.0%	0.6%	0.2%		
Disparity Index (using local ACS)	0.98	3.33	0.42		0.11		
Disparity Index (using county ACS)	0.90	4.74	1.07		0.09		
Disparity Index (using DMV Accident data)	1.01	1.25	0.60	0.79	0.39		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	236	840	101		33		242
Stop Reason as % of All Stops							
Safety Stops	59.7%	52.8%	63.2%	63.9%	33.3%	60.3%	59.0%
Moving Violation	59.6%	52.8%	62.4%	63.9%	33.3%	60.3%	58.9%
Suspicion of DWI	0.1%	0.0%	0.8%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	33.4%	40.3%	29.2%	22.2%	50.0%	21.0%	34.0%
Investigatory Stops	1.3%	1.1%	0.8%	0.0%	0.0%	3.1%	1.2%
Vehicle Equipment	32.1%	39.2%	28.3%	22.2%	50.0%	17.9%	32.8%
Externally Generated Stops	0.8%	0.6%	0.3%	0.0%	0.0%	0.4%	0.7%
Multiple Reasons	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%
Unknown Reason	5.9%	6.0%	7.4%	13.9%	16.7%	18.3%	6.0%
Outcome Rates as a % of All Stops							
Warning Rate	77.9%	76.1%	79.8%	72.2%	50.0%	61.8%	77.7%
Ticket Rate	18.6%	21.2%	17.5%	19.4%	16.7%	20.2%	18.8%
Arrest for Violation Rate	2.2%	2.8%	2.7%	2.8%	16.7%	1.8%	2.3%
Arrest for Warrant Rate	0.2%	0.3%	0.3%	0.0%	0.0%	0.0%	0.2%
No Action Rate	0.3%	0.2%	0.0%	0.0%	0.0%	3.1%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	1.8%	4.4%	0.8%	2.8%	0.0%	1.8%	2.1%
Search rate (incl. searches on warrant)	2.0%	4.5%	1.1%	2.8%	0.0%	1.8%	2.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	54.8%	59.5%	50.0%	100.0%	NA	50.0%	56.1%
Hit rates (excl. warnings as outcomes)	38.1%	38.1%	25.0%	100.0%	NA	25.0%	38.2%
Hit rates (outcome = arrest)	13.5%	9.5%	0.0%	0.0%	NA	0.0%	12.1%

Table A.5. Woodstock Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	3,414	119	96	112	2	334	4,077
Excluding externally generated stops	3,380	118	96	112	2	334	4,042
Reasons For Stops							
Safety Stops	2,552	95	86	101	2	118	2,954
Moving Violation	2,542	95	86	101	2	118	2,944
Suspicion of DWI	10	0	0	0	0	0	10
Investigatory/Pretextual Stops	145	7	2	1	0	4	159
Investigatory Stop	79	4	1	1	0	1	86
Vehicle Equipment	66	3	1	0	0	3	73
Externally Generated Stop	34	1	0	0	0	0	35
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	683	16	8	10	0	212	929
Outcomes							
Ticket	2,813	105	90	103	2	255	3,368
Warning	548	13	5	9	0	73	648
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	7	0	0	0	0	1	8
Arrest for warrant	2	0	0	0	0	0	2
Searches							
Total Stops with No Search	2,674	101	89	102	2	118	3,086
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	9	0	0	0	0	1	10
No Search (all others)	2,664	101	89	102	2	117	3,075
Total Stops with Unknown Search	662	16	7	9	0	216	910
Total Stops with Search	44	1	0	1	0	0	46
Search with Probable Cause (PC)	30	0	0	1	0	0	31
Stops with PC Searches, No contraband	6	0	0	0	0	0	6
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	24	0	0	1	0	0	25
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	24	0	0	1	0	0	25
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	9	1	0	0	0	0	10
Stops with RS Searches, No contraband	1	0	0	0	0	0	1
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	8	1	0	0	0	0	9
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	8	1	0	0	0	0	9
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	5	0	0	0	0	0	5
Stops with Warrant Searches, No contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	3	0	0	0	0	0	3
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	91.2%	3.2%	2.6%	3.0%	0.1%	8.9%	
Excluding externally generated stops	91.2%	3.2%	2.6%	3.0%	0.1%	9.0%	
Driver Percentage (using local ACS)	99.1%	0.5%		0.3%			
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%	1.1%			
Driver Percentage (DMV Accident data)	96.6%	1.0%	1.2%	1.0%	0.2%		
Disparity Index (using local ACS)	0.95	6.56		0.19			
Disparity Index (using county ACS)	0.98	2.98	1.78	0.05			
Disparity Index (using DMV Accident data)	0.94	3.18	2.16	3.02	0.27		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1,043	7,067		111			1,102
Stop Reason as % of All Stops							
Safety Stops	74.8%	79.8%	89.6%	90.2%	100.0%	35.3%	75.8%
Moving Violation	74.5%	79.8%	89.6%	90.2%	100.0%	35.3%	75.5%
Suspicion of DWI	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	4.3%	5.9%	2.1%	0.9%	0.0%	1.2%	4.1%
Investigatory Stops	2.3%	3.4%	1.0%	0.9%	0.0%	0.3%	2.3%
Vehicle Equipment	1.9%	2.5%	1.0%	0.0%	0.0%	0.9%	1.9%
Externally Generated Stops	1.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.9%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	20.0%	13.5%	8.3%	8.9%	0.0%	63.5%	19.2%
Outcome Rates as a % of All Stops							
Warning Rate	16.2%	11.0%	5.2%	8.0%	0.0%	21.9%	15.5%
Ticket Rate	83.2%	89.0%	93.8%	92.0%	100.0%	76.4%	84.0%
Arrest for Violation Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	1.2%	0.9%	0.0%	0.9%	0.0%	0.0%	1.1%
Search rate (incl. searches on warrant)	1.3%	0.9%	0.0%	0.9%	0.0%	0.0%	1.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	79.6%	100.0%	NA	100.0%	NA	NA	80.4%
Hit rates (excl. warnings as outcomes)	79.6%	100.0%	NA	100.0%	NA	NA	80.4%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	0.0%	NA	NA	0.0%

Table A.5. Addison County Raw Traffic Stop Data, 2014-18							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	8,844	180	86	60	18	1,127	10,315
Excluding externally generated stops	8,836	180	85	60	18	1,127	10,306
Reasons For Stops							
Safety Stops	8,666	176	84	59	18	1,116	10,119
Moving Violation	8,664	175	84	59	18	1,114	10,114
Suspicion of DWI	2	1	0	0	0	2	5
Investigatory/Pretextual Stops	124	3	1	1	0	5	134
Investigatory Stop	16	0	0	0	0	2	18
Vehicle Equipment	108	3	1	1	0	3	116
Externally Generated Stop	8	0	1	0	0	0	9
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	45	1	0	0	0	6	52
Outcomes							
Ticket	7,967	163	82	57	15	1,096	9,380
Warning	873	13	3	1	3	20	913
No Action Taken	10	1	0	0	0	0	11
Arrest for violation	7	1	0	2	0	4	14
Arrest for warrant	0	0	0	0	0	1	1
Searches							
Total Stops with No Search	8,782	175	84	56	18	1,117	10,232
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	7	0	0	0	0	0	7
No Search (all others)	8,775	175	84	56	18	1,117	10,225
Total Stops with Unknown Search	34	2	0	0	0	6	42
Total Stops with Search	20	3	1	4	0	4	32
Search with Probable Cause (PC)	12	1	0	2	0	2	17
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	8	0	0	0	0	2	10
Stops with PC Searches, Contraband	3	1	0	2	0	0	6
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	2	1	0	1	0	0	4
Stops with PC Searches, Contraband and Arrest	1	0	0	1	0	0	2
Search with Reasonable Suspicion (RS)	5	2	0	2	0	1	10
Stops with RS Searches, No contraband	0	1	0	0	0	0	1
Stops with RS Searches, Unknown contraband	5	1	0	2	0	0	8
Stops with RS Searches, Contraband	0	0	0	0	0	1	1
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	1	1
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	3	0	1	0	0	1	5
Stops with Warrant Searches, No contraband	3	0	1	0	0	0	4
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	1	1
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.3%	2.0%	0.9%	0.7%	0.2%	12.3%	
Excluding externally generated stops	96.3%	2.0%	0.9%	0.7%	0.2%	12.3%	
Driver Percentage (using local ACS)	95.1%	1.7%	2.4%	0.9%			
Driver Percentage (using county ACS)	95.1%	1.7%	2.4%	0.9%			
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.02	1.16	0.39	0.22			
Disparity Index (using county ACS)	1.02	1.16	0.39	0.22			
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	90	98	33		24		88
Stop Reason as % of All Stops							
Safety Stops	98.0%	97.8%	97.7%	98.3%	100.0%	99.0%	98.0%
Moving Violation	98.0%	97.2%	97.7%	98.3%	100.0%	98.9%	98.0%
Suspicion of DWI	0.0%	0.6%	0.0%	0.0%	0.0%	0.2%	0.0%
Investigatory/Pretextual Stops	1.4%	1.7%	1.2%	1.7%	0.0%	0.4%	1.4%
Investigatory Stops	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%
Vehicle Equipment	1.2%	1.7%	1.2%	1.7%	0.0%	0.3%	1.2%
Externally Generated Stops	0.1%	0.0%	1.2%	0.0%	0.0%	0.0%	0.1%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.5%	0.6%	0.0%	0.0%	0.0%	0.5%	0.5%
Outcome Rates as a % of All Stops							
Warning Rate	9.9%	7.2%	3.5%	1.7%	16.7%	1.8%	9.7%
Ticket Rate	90.2%	90.6%	96.5%	95.0%	83.3%	97.3%	90.3%
Arrest for Violation Rate	0.1%	0.6%	0.0%	3.3%	0.0%	0.4%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
No Action Rate	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	1.7%	0.0%	6.7%	0.0%	0.3%	0.3%
Search rate (incl. searches on warrant)	0.2%	1.7%	1.2%	6.7%	0.0%	0.4%	0.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	15.0%	33.3%	0.0%	50.0%	NA	25.0%	21.4%
Hit rates (excl. warnings as outcomes)	15.0%	33.3%	0.0%	50.0%	NA	25.0%	21.4%
Hit rates (outcome = arrest)	5.0%	0.0%	0.0%	25.0%	NA	0.0%	7.1%

Table A.5. Bennington County Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	8,064	107	80	59	11	59	8,380
Excluding externally generated stops	7,969	106	80	58	11	58	8,282
Reasons For Stops							
Safety Stops	6,295	87	74	46	11	20	6,533
Moving Violation	6,282	87	74	46	11	20	6,520
Suspicion of DWI	13	0	0	0	0	0	13
Investigatory/Pretextual Stops	1,607	19	6	11	0	7	1,650
Investigatory Stop	78	2	0	1	0	1	82
Vehicle Equipment	1,529	17	6	10	0	6	1,568
Externally Generated Stop	95	1	0	1	0	1	98
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	13	0	0	0	0	0	13
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	53	0	0	1	0	31	85
Outcomes							
Ticket	3,864	52	44	23	8	31	4,022
Warning	4,207	55	37	35	3	8	4,345
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	20	0	0	0	0	0	20
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	7,892	105	80	58	11	25	8,171
No Search & Contraband & Arrest for violation	2	0	0	0	0	0	2
No Search & Contraband & No arrest	13	0	0	0	0	0	13
No Search (all others)	7,877	105	80	58	11	25	8,156
Total Stops with Unknown Search	4	1	0	0	0	31	36
Total Stops with Search	73	0	0	0	0	2	75
Search with Probable Cause (PC)	56	0	0	0	0	2	58
Stops with PC Searches, No contraband	8	0	0	0	0	0	8
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	48	0	0	0	0	2	50
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Ticket	42	0	0	0	0	2	44
Stops with PC Searches, Contraband and Arrest	3	0	0	0	0	0	3
Search with Reasonable Suspicion (RS)	6	0	0	0	0	0	6
Stops with RS Searches, No contraband	1	0	0	0	0	0	1
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	5	0	0	0	0	0	5
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	11	0	0	0	0	0	11
Stops with Warrant Searches, No contraband	9	0	0	0	0	0	9
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	2	0	0	0	0	0	2
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.9%	1.3%	1.0%	0.7%	0.1%	0.7%	
Excluding externally generated stops	96.9%	1.3%	1.0%	0.7%	0.1%	0.7%	
Driver Percentage (using local ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (using county ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (DMV Accident data)	94.1%	2.4%	2.4%	1.2%			
Disparity Index (using local ACS)	1.02	0.76	1.40		0.09		
Disparity Index (using county ACS)	1.02	0.76	1.40		0.09		
Disparity Index (using DMV Accident data)	1.03	0.54	0.41	0.59			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	66	55	90		4		65
Stop Reason as % of All Stops							
Safety Stops	78.1%	81.3%	92.5%	78.0%	100.0%	33.9%	78.3%
Moving Violation	77.9%	81.3%	92.5%	78.0%	100.0%	33.9%	78.1%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	19.9%	17.8%	7.5%	18.6%	0.0%	11.9%	19.8%
Investigatory Stops	1.0%	1.9%	0.0%	1.7%	0.0%	1.7%	1.0%
Vehicle Equipment	19.0%	15.9%	7.5%	17.0%	0.0%	10.2%	18.8%
Externally Generated Stops	1.2%	0.9%	0.0%	1.7%	0.0%	1.7%	1.2%
Multiple Reasons	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Unknown Reason	0.7%	0.0%	0.0%	1.7%	0.0%	52.5%	0.7%
Outcome Rates as a % of All Stops							
Warning Rate	52.8%	51.9%	46.3%	60.3%	27.3%	13.8%	52.7%
Ticket Rate	48.5%	49.1%	55.0%	39.7%	72.7%	53.5%	48.5%
Arrest for Violation Rate	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	0.0%	0.0%	0.0%	0.0%	3.5%	0.8%
Search rate (incl. searches on warrant)	0.9%	0.0%	0.0%	0.0%	0.0%	3.5%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	75.3%	NA	NA	NA	NA	100.0%	75.3%
Hit rates (excl. warnings as outcomes)	71.2%	NA	NA	NA	NA	100.0%	71.2%
Hit rates (outcome = arrest)	5.5%	NA	NA	NA	NA	0.0%	5.5%

Table A.5. Caledonia County Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	1,418	17	6	3	3	28	1,475
Excluding externally generated stops	1,392	17	6	3	3	28	1,449
Reasons For Stops							
Safety Stops	1,236	17	6	3	3	28	1,293
Moving Violation	1,236	17	6	3	3	28	1,293
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	142	0	0	0	0	0	142
Investigatory Stop	11	0	0	0	0	0	11
Vehicle Equipment	131	0	0	0	0	0	131
Externally Generated Stop	26	0	0	0	0	0	26
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	8	0	0	0	0	0	8
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	6	0	0	0	0	0	6
Outcomes							
Ticket	1,015	14	4	3	2	25	1,063
Warning	379	3	2	0	1	3	388
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	9	0	0	0	0	0	9
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	1,376	17	6	3	3	28	1,433
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	5	0	0	0	0	0	5
No Search (all others)	1,368	17	6	3	3	28	1,425
Total Stops with Unknown Search	5	0	0	0	0	0	5
Total Stops with Search	11	0	0	0	0	0	11
Search with Probable Cause (PC)	4	0	0	0	0	0	4
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	3	0	0	0	0	0	3
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	7	0	0	0	0	0	7
Stops with RS Searches, No contraband	3	0	0	0	0	0	3
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	4	0	0	0	0	0	4
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	98.0%	1.2%	0.4%	0.2%	0.2%	1.9%	
Excluding externally generated stops	98.0%	1.2%	0.4%	0.2%	0.2%	2.0%	
Driver Percentage (using local ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (using county ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (DMV Accident data)	100.0%						
Disparity Index (using local ACS)	1.02	1.20	0.35		0.15		
Disparity Index (using county ACS)	1.02	1.20	0.35		0.15		
Disparity Index (using DMV Accident data)	0.98						
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	14	18	3		3		13
Stop Reason as % of All Stops							
Safety Stops	87.2%	100.0%	100.0%	100.0%	100.0%	100.0%	87.4%
Moving Violation	87.2%	100.0%	100.0%	100.0%	100.0%	100.0%	87.4%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.8%
Investigatory Stops	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Vehicle Equipment	9.2%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%
Externally Generated Stops	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%
Multiple Reasons	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Unknown Reason	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Outcome Rates as a % of All Stops							
Warning Rate	27.2%	17.7%	33.3%	0.0%	33.3%	10.7%	27.1%
Ticket Rate	72.9%	82.4%	66.7%	100.0%	66.7%	89.3%	73.1%
Arrest for Violation Rate	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Search rate (incl. searches on warrant)	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	63.6%	NA	NA	NA	NA	NA	63.6%
Hit rates (excl. warnings as outcomes)	54.6%	NA	NA	NA	NA	NA	54.6%
Hit rates (outcome = arrest)	18.2%	NA	NA	NA	NA	NA	18.2%

Table A.5. Chittenden County Raw Traffic Stop Data, 2015-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	11,340	345	190	58	7	799	12,739
Excluding externally generated stops	11,327	345	190	57	7	799	12,725
Reasons For Stops							
Safety Stops	9,487	256	150	51	7	660	10,611
Moving Violation	9,481	256	150	50	7	660	10,604
Suspicion of DWI	6	0	0	1	0	0	7
Investigatory/Pretextual Stops	823	56	25	4	0	40	948
Investigatory Stop	82	5	1	0	0	3	91
Vehicle Equipment	741	51	24	4	0	37	857
Externally Generated Stop	13	0	0	1	0	0	14
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	19	0	0	0	0	1	20
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	998	33	15	2	0	98	1,146
Outcomes							
Ticket	5,893	174	94	38	4	369	6,572
Warning	5,511	176	94	21	3	432	6,237
No Action Taken	39	0	1	0	0	4	44
Arrest for violation	63	2	0	0	0	4	69
Arrest for warrant	7	0	0	0	0	0	7
Searches							
Total Stops with No Search	11,223	341	188	57	6	791	12,606
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	16	2	0	0	0	0	18
No Search (all others)	11,206	339	188	57	6	791	12,587
Total Stops with Unknown Search	60	1	2	0	1	6	70
Total Stops with Search	44	3	0	0	0	2	49
Search with Probable Cause (PC)	19	3	0	0	0	1	23
Stops with PC Searches, No contraband	4	1	0	0	0	0	5
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	15	2	0	0	0	1	18
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	12	2	0	0	0	1	15
Stops with PC Searches, Contraband and Arrest	3	0	0	0	0	0	3
Search with Reasonable Suspicion (RS)	16	0	0	0	0	1	17
Stops with RS Searches, No contraband	5	0	0	0	0	1	6
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	11	0	0	0	0	0	11
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	9	0	0	0	0	0	9
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	9	0	0	0	0	0	9
Stops with Warrant Searches, No contraband	8	0	0	0	0	0	8
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	95.0%	2.9%	1.6%	0.5%	0.1%	6.7%	
Excluding externally generated stops	95.0%	2.9%	1.6%	0.5%	0.1%	6.7%	
Driver Percentage (using local ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	100.0%						
Disparity Index (using local ACS)	1.04	1.12	0.36		0.07		
Disparity Index (using county ACS)	1.04	1.12	0.36		0.07		
Disparity Index (using DMV Accident data)	0.95						
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	16	14	4		1		15
Stop Reason as % of All Stops							
Safety Stops	83.7%	74.2%	79.0%	87.9%	100.0%	82.6%	83.3%
Moving Violation	83.6%	74.2%	79.0%	86.2%	100.0%	82.6%	83.3%
Suspicion of DWI	0.1%	0.0%	0.0%	1.7%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	7.3%	16.2%	13.2%	6.9%	0.0%	5.0%	7.6%
Investigatory Stops	0.7%	1.5%	0.5%	0.0%	0.0%	0.4%	0.7%
Vehicle Equipment	6.5%	14.8%	12.6%	6.9%	0.0%	4.6%	6.9%
Externally Generated Stops	0.1%	0.0%	0.0%	1.7%	0.0%	0.0%	0.1%
Multiple Reasons	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
Unknown Reason	8.8%	9.6%	7.9%	3.5%	0.0%	12.3%	8.8%
Outcome Rates as a % of All Stops							
Warning Rate	48.7%	51.0%	49.5%	36.8%	42.9%	54.1%	48.7%
Ticket Rate	52.0%	50.4%	49.5%	66.7%	57.1%	46.2%	52.0%
Arrest for Violation Rate	0.6%	0.6%	0.0%	0.0%	0.0%	0.5%	0.6%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.3%	0.0%	0.5%	0.0%	0.0%	0.5%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	0.9%	0.0%	0.0%	0.0%	0.3%	0.3%
Search rate (incl. searches on warrant)	0.4%	0.9%	0.0%	0.0%	0.0%	0.3%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	61.4%	66.7%	NA	NA	NA	50.0%	61.7%
Hit rates (excl. warnings as outcomes)	59.1%	66.7%	NA	NA	NA	50.0%	59.6%
Hit rates (outcome = arrest)	11.4%	0.0%	NA	NA	NA	0.0%	10.6%

Table A.5. Essex County Raw Traffic Stop Data, 2017,19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	648	2	2	5	1	27	685
Excluding externally generated stops	647	2	2	5	1	27	684
Reasons For Stops							
Safety Stops	521	2	2	5	1	20	551
Moving Violation	521	2	2	5	1	20	551
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	76	0	0	0	0	4	80
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	76	0	0	0	0	4	80
Externally Generated Stop	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	50	0	0	0	0	3	53
Outcomes							
Ticket	222	1	1	2	1	6	233
Warning	430	1	1	3	0	21	456
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	0	0	0	0	0	0	0
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	645	2	2	5	1	27	682
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	645	2	2	5	1	27	682
Total Stops with Unknown Search	1	0	0	0	0	0	1
Total Stops with Search	1	0	0	0	0	0	1
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	1	0	0	0	0	0	1
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	0	0	0	0	0	0	0
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	98.5%	0.3%	0.3%	0.8%	0.2%	4.1%	
Excluding externally generated stops	98.5%	0.3%	0.3%	0.8%	0.2%	4.1%	
Driver Percentage (using local ACS)	96.5%	1.5%	0.6%		1.4%		
Driver Percentage (using county ACS)	96.5%	1.5%	0.6%		1.4%		
Driver Percentage (DMV Accident data)	94.3%		4.6%	1.1%			
Disparity Index (using local ACS)	1.03	0.20	0.51		0.11		
Disparity Index (using county ACS)	1.03	0.20	0.51		0.11		
Disparity Index (using DMV Accident data)	1.04		0.07	0.69			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	63	12	33		7		61
Stop Reason as % of All Stops							
Safety Stops	80.4%	100.0%	100.0%	100.0%	100.0%	74.1%	80.7%
Moving Violation	80.4%	100.0%	100.0%	100.0%	100.0%	74.1%	80.7%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	11.7%	0.0%	0.0%	0.0%	0.0%	14.8%	11.6%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	11.7%	0.0%	0.0%	0.0%	0.0%	14.8%	11.6%
Externally Generated Stops	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	7.7%	0.0%	0.0%	0.0%	0.0%	11.1%	7.6%
Outcome Rates as a % of All Stops							
Warning Rate	66.5%	50.0%	50.0%	60.0%	0.0%	77.8%	66.2%
Ticket Rate	34.3%	50.0%	50.0%	40.0%	100.0%	22.2%	34.6%
Arrest for Violation Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search rate (incl. searches on warrant)	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	0.0%	NA	NA	NA	NA	NA	0.0%
Hit rates (excl. warnings as outcomes)	0.0%	NA	NA	NA	NA	NA	0.0%
Hit rates (outcome = arrest)	0.0%	NA	NA	NA	NA	NA	0.0%

Table A.5. Franklin County Raw Traffic Stop Data, 2017-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	4,283	40	22	15	6	268	4,634
Excluding externally generated stops	4,115	34	21	15	5	263	4,453
Reasons For Stops							
Safety Stops	2,374	21	13	10	5	136	2,559
Moving Violation	2,365	21	13	9	5	136	2,549
Suspicion of DWI	9	0	0	1	0	0	10
Investigatory/Pretextual Stops	1,612	12	7	5	0	91	1,727
Investigatory Stop	58	0	0	0	0	4	62
Vehicle Equipment	1,554	12	7	5	0	87	1,665
Externally Generated Stop	168	6	1	0	1	5	181
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	2	0	0	0	0	0	2
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	127	1	1	0	0	36	165
Outcomes							
Ticket	1,543	18	7	5	5	87	1,665
Warning	2,388	14	13	10	0	153	2,578
No Action Taken	17	1	0	0	0	0	18
Arrest for violation	97	1	0	0	0	1	99
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	4,002	34	19	15	5	229	4,304
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	7	0	0	0	0	0	7
No Search (all others)	3,992	34	19	15	5	229	4,294
Total Stops with Unknown Search	73	0	2	0	0	34	109
Total Stops with Search	40	0	0	0	0	0	40
Search with Probable Cause (PC)	25	0	0	0	0	0	25
Stops with PC Searches, No contraband	3	0	0	0	0	0	3
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	22	0	0	0	0	0	22
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with PC Searches, Contraband and Ticket	10	0	0	0	0	0	10
Stops with PC Searches, Contraband and Arrest	8	0	0	0	0	0	8
Search with Reasonable Suspicion (RS)	10	0	0	0	0	0	10
Stops with RS Searches, No contraband	4	0	0	0	0	0	4
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	6	0	0	0	0	0	6
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Arrest	2	0	0	0	0	0	2
Search with Warrant	5	0	0	0	0	0	5
Stops with Warrant Searches, No contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	3	0	0	0	0	0	3
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	3	0	0	0	0	0	3
Racial Shares of Stops							
Including externally generated stops	98.1%	0.9%	0.5%	0.3%	0.1%	6.1%	
Excluding externally generated stops	98.2%	0.8%	0.5%	0.4%	0.1%	6.3%	
Driver Percentage (using local ACS)	95.3%	1.2%	0.6%		2.9%		
Driver Percentage (using county ACS)	95.3%	1.2%	0.6%		2.9%		
Driver Percentage (DMV Accident data)	96.0%	2.0%	1.8%	0.2%			
Disparity Index (using local ACS)	1.03	0.68	0.84		0.04		
Disparity Index (using county ACS)	1.03	0.68	0.84		0.04		
Disparity Index (using DMV Accident data)	1.02	0.41	0.28	1.79			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	36	24	29		1		35
Stop Reason as % of All Stops							
Safety Stops	55.4%	52.5%	59.1%	66.7%	83.3%	50.8%	55.5%
Moving Violation	55.2%	52.5%	59.1%	60.0%	83.3%	50.8%	55.3%
Suspicion of DWI	0.2%	0.0%	0.0%	6.7%	0.0%	0.0%	0.2%
Investigatory/Pretextual Stops	37.6%	30.0%	31.8%	33.3%	0.0%	34.0%	37.5%
Investigatory Stops	1.4%	0.0%	0.0%	0.0%	0.0%	1.5%	1.3%
Vehicle Equipment	36.3%	30.0%	31.8%	33.3%	0.0%	32.5%	36.1%
Externally Generated Stops	3.9%	15.0%	4.6%	0.0%	16.7%	1.9%	4.0%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	3.0%	2.5%	4.6%	0.0%	0.0%	13.4%	3.0%
Outcome Rates as a % of All Stops							
Warning Rate	58.0%	41.2%	61.9%	66.7%	0.0%	58.2%	57.9%
Ticket Rate	37.5%	52.9%	33.3%	33.3%	100.0%	33.1%	37.7%
Arrest for Violation Rate	2.4%	2.9%	0.0%	0.0%	0.0%	0.4%	2.3%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.4%	2.9%	0.0%	0.0%	0.0%	0.0%	0.4%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Search rate (incl. searches on warrant)	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	77.5%	NA	NA	NA	NA	NA	77.5%
Hit rates (excl. warnings as outcomes)	67.5%	NA	NA	NA	NA	NA	67.5%
Hit rates (outcome = arrest)	32.5%	NA	NA	NA	NA	NA	32.5%

Table A.5. Grand Isle County Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	10,168	166	73	75	7	19	10,508
Excluding externally generated stops	10,112	165	73	75	7	18	10,450
Reasons For Stops							
Safety Stops	8,340	135	68	62	6	14	8,625
Moving Violation	8,333	135	68	62	6	14	8,618
Suspicion of DWI	7	0	0	0	0	0	7
Investigatory/Pretextual Stops	1,674	28	5	13	1	3	1,724
Investigatory Stop	5	0	0	0	0	0	5
Vehicle Equipment	1,669	28	5	13	1	3	1,719
Externally Generated Stop	56	1	0	0	0	1	58
Multiple Reasons - Moving Violation & Suspicion of DWI	1	0	0	0	0	0	1
Multiple Reasons - Moving Violation & Vehicle Equipment	92	2	0	0	0	0	94
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	5	0	0	0	0	1	6
Outcomes							
Ticket	1,615	36	14	21	1	2	1,689
Warning	8,724	135	59	55	6	16	8,995
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	11	1	0	0	0	0	12
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	10,074	163	73	75	7	18	10,410
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	2	0	0	0	0	0	2
No Search (all others)	10,072	163	73	75	7	18	10,408
Total Stops with Unknown Search	3	0	0	0	0	0	3
Total Stops with Search	35	2	0	0	0	0	37
Search with Probable Cause (PC)	28	1	0	0	0	0	29
Stops with PC Searches, No contraband	3	0	0	0	0	0	3
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	25	1	0	0	0	0	26
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with PC Searches, Contraband and Ticket	22	0	0	0	0	0	22
Stops with PC Searches, Contraband and Arrest	0	1	0	0	0	0	1
Search with Reasonable Suspicion (RS)	7	1	0	0	0	0	8
Stops with RS Searches, No contraband	4	1	0	0	0	0	5
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	3	0	0	0	0	0	3
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	96.9%	1.6%	0.7%	0.7%	0.1%	0.2%	
Excluding externally generated stops	96.9%	1.6%	0.7%	0.7%	0.1%	0.2%	
Driver Percentage (using local ACS)	94.4%	0.4%	0.6%		4.6%		
Driver Percentage (using county ACS)	94.4%	0.4%	0.6%		4.6%		
Driver Percentage (DMV Accident data)	97.4%	0.5%	0.9%	0.9%	0.3%		
Disparity Index (using local ACS)	1.03	3.98	1.18		0.02		
Disparity Index (using county ACS)	1.03	3.98	1.18		0.02		
Disparity Index (using DMV Accident data)	1.00	3.16	0.78	0.80	0.22		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	377	1,406	424		6		365
Stop Reason as % of All Stops							
Safety Stops	82.0%	81.3%	93.2%	82.7%	85.7%	73.7%	82.1%
Moving Violation	82.0%	81.3%	93.2%	82.7%	85.7%	73.7%	82.0%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	16.5%	16.9%	6.9%	17.3%	14.3%	15.8%	16.4%
Investigatory Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Vehicle Equipment	16.4%	16.9%	6.9%	17.3%	14.3%	15.8%	16.4%
Externally Generated Stops	0.6%	0.6%	0.0%	0.0%	0.0%	5.3%	0.5%
Multiple Reasons	0.9%	1.2%	0.0%	0.0%	0.0%	0.0%	0.9%
Unknown Reason	0.1%	0.0%	0.0%	0.0%	0.0%	5.3%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	86.3%	81.8%	80.8%	73.3%	85.7%	88.9%	86.1%
Ticket Rate	16.0%	21.8%	19.2%	28.0%	14.3%	11.1%	16.2%
Arrest for Violation Rate	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.4%
Search rate (incl. searches on warrant)	0.4%	1.2%	0.0%	0.0%	0.0%	0.0%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.0%	50.0%	NA	NA	NA	NA	78.4%
Hit rates (excl. warnings as outcomes)	71.4%	50.0%	NA	NA	NA	NA	70.3%
Hit rates (outcome = arrest)	2.9%	50.0%	NA	NA	NA	NA	5.4%

Table A.5. Lamoille County Raw Traffic Stop Data, 2015-16,18-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	5,503	121	22	14	2	75	5,737
Excluding externally generated stops	5,452	118	21	13	2	73	5,679
Reasons For Stops							
Safety Stops	3,799	81	16	10	2	52	3,960
Moving Violation	3,786	81	16	10	2	51	3,946
Suspicion of DWI	13	0	0	0	0	1	14
Investigatory/Pretextual Stops	1,570	33	4	3	0	17	1,627
Investigatory Stop	29	0	0	0	0	0	29
Vehicle Equipment	1,541	33	4	3	0	17	1,598
Externally Generated Stop	51	3	1	1	0	2	58
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	17	2	1	0	0	1	21
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	65	2	0	0	0	3	70
Outcomes							
Ticket	1,515	37	7	7	1	15	1,582
Warning	3,983	84	15	6	1	60	4,149
No Action Taken	19	0	0	0	0	0	19
Arrest for violation	34	2	0	0	0	0	36
Arrest for warrant	2	0	0	0	0	0	2
Searches							
Total Stops with No Search	5,398	116	21	13	2	72	5,622
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	22	1	0	0	0	0	23
No Search (all others)	5,375	115	21	13	2	72	5,598
Total Stops with Unknown Search	7	0	0	0	0	1	8
Total Stops with Search	47	2	0	0	0	0	49
Search with Probable Cause (PC)	25	0	0	0	0	0	25
Stops with PC Searches, No contraband	5	0	0	0	0	0	5
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	20	0	0	0	0	0	20
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with PC Searches, Contraband and Ticket	16	0	0	0	0	0	16
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	12	2	0	0	0	0	14
Stops with RS Searches, No contraband	6	2	0	0	0	0	8
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	6	0	0	0	0	0	6
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	10	0	0	0	0	0	10
Stops with Warrant Searches, No contraband	10	0	0	0	0	0	10
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.2%	2.1%	0.4%	0.2%	0.0%	1.3%	
Excluding externally generated stops	97.3%	2.1%	0.4%	0.2%	0.0%	1.3%	
Driver Percentage (using local ACS)	95.9%	1.5%	1.0%		1.5%		
Driver Percentage (using county ACS)	95.9%	1.5%	1.0%		1.5%		
Driver Percentage (DMV Accident data)	96.3%	1.0%	1.6%	0.7%	0.4%		
Disparity Index (using local ACS)	1.02	1.41	0.38		0.02		
Disparity Index (using county ACS)	1.02	1.41	0.38		0.02		
Disparity Index (using DMV Accident data)	1.01	2.11	0.23	0.33	0.09		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	68	95	24		2		67
Stop Reason as % of All Stops							
Safety Stops	69.0%	66.9%	72.7%	71.4%	100.0%	69.3%	69.0%
Moving Violation	68.8%	66.9%	72.7%	71.4%	100.0%	68.0%	68.8%
Suspicion of DWI	0.2%	0.0%	0.0%	0.0%	0.0%	1.3%	0.2%
Investigatory/Pretextual Stops	28.5%	27.3%	18.2%	21.4%	0.0%	22.7%	28.4%
Investigatory Stops	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Vehicle Equipment	28.0%	27.3%	18.2%	21.4%	0.0%	22.7%	27.9%
Externally Generated Stops	0.9%	2.5%	4.6%	7.1%	0.0%	2.7%	1.0%
Multiple Reasons	0.3%	1.7%	4.6%	0.0%	0.0%	1.3%	0.4%
Unknown Reason	1.2%	1.7%	0.0%	0.0%	0.0%	4.0%	1.2%
Outcome Rates as a % of All Stops							
Warning Rate	73.1%	71.2%	71.4%	46.2%	50.0%	82.2%	72.9%
Ticket Rate	27.8%	31.4%	33.3%	53.9%	50.0%	20.6%	28.0%
Arrest for Violation Rate	0.6%	1.7%	0.0%	0.0%	0.0%	0.0%	0.6%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Search Rates							
Search rate (excl. searches on warrant)	0.7%	1.7%	0.0%	0.0%	0.0%	0.0%	0.7%
Search rate (incl. searches on warrant)	0.9%	1.7%	0.0%	0.0%	0.0%	0.0%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	55.3%	0.0%	NA	NA	NA	NA	53.1%
Hit rates (excl. warnings as outcomes)	42.6%	0.0%	NA	NA	NA	NA	40.8%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	NA	NA	NA	0.0%

Table A.5. Orange County Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	4,472	43	37	38	3	42	4,635
Excluding externally generated stops	4,422	43	37	38	3	40	4,583
Reasons For Stops							
Safety Stops	3,312	24	32	34	2	27	3,431
Moving Violation	3,294	24	32	34	2	27	3,413
Suspicion of DWI	18	0	0	0	0	0	18
Investigatory/Pretextual Stops	576	13	2	1	1	10	603
Investigatory Stop	37	0	0	0	1	2	40
Vehicle Equipment	539	13	2	1	0	8	563
Externally Generated Stop	50	0	0	0	0	2	52
Multiple Reasons - Moving Violation & Suspicion of DWI	3	0	0	0	0	0	3
Multiple Reasons - Moving Violation & Vehicle Equipment	14	1	0	0	0	0	15
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	518	5	3	3	0	3	532
Outcomes							
Ticket	2,853	23	22	26	3	25	2,952
Warning	1,303	17	13	10	0	14	1,357
No Action Taken	10	0	0	0	0	0	10
Arrest for violation	47	0	0	1	0	0	48
Arrest for warrant	4	0	0	0	0	0	4
Searches							
Total Stops with No Search	4,089	39	34	36	3	36	4,237
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	14	0	0	0	1	0	15
No Search (all others)	4,075	39	34	36	2	36	4,222
Total Stops with Unknown Search	306	4	3	2	0	3	318
Total Stops with Search	27	0	0	0	0	1	28
Search with Probable Cause (PC)	17	0	0	0	0	0	17
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	15	0	0	0	0	0	15
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	11	0	0	0	0	0	11
Stops with PC Searches, Contraband and Arrest	4	0	0	0	0	0	4
Search with Reasonable Suspicion (RS)	7	0	0	0	0	1	8
Stops with RS Searches, No contraband	1	0	0	0	0	0	1
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	5	0	0	0	0	1	6
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	4	0	0	0	0	1	5
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	3	0	0	0	0	0	3
Stops with Warrant Searches, No contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.4%	0.9%	0.8%	0.8%	0.1%	0.9%	
Excluding externally generated stops	97.3%	0.9%	0.8%	0.8%	0.1%	0.9%	
Driver Percentage (using local ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (using county ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (DMV Accident data)	88.9%	3.2%	7.1%	0.8%			
Disparity Index (using local ACS)	1.01	1.06	1.03		0.05		
Disparity Index (using county ACS)	1.01	1.06	1.03		0.05		
Disparity Index (using DMV Accident data)	1.10	0.30	0.12	1.05			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	44	50	43		2		44
Stop Reason as % of All Stops							
Safety Stops	74.1%	55.8%	86.5%	89.5%	66.7%	64.3%	74.1%
Moving Violation	73.7%	55.8%	86.5%	89.5%	66.7%	64.3%	73.7%
Suspicion of DWI	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Investigatory/Pretextual Stops	12.9%	30.2%	5.4%	2.6%	33.3%	23.8%	12.9%
Investigatory Stops	0.8%	0.0%	0.0%	0.0%	33.3%	4.8%	0.8%
Vehicle Equipment	12.1%	30.2%	5.4%	2.6%	0.0%	19.1%	12.1%
Externally Generated Stops	1.1%	0.0%	0.0%	0.0%	0.0%	4.8%	1.1%
Multiple Reasons	0.4%	2.3%	0.0%	0.0%	0.0%	0.0%	0.4%
Unknown Reason	11.6%	11.6%	8.1%	7.9%	0.0%	7.1%	11.5%
Outcome Rates as a % of All Stops							
Warning Rate	29.5%	39.5%	35.1%	26.3%	0.0%	35.0%	29.6%
Ticket Rate	64.5%	53.5%	59.5%	68.4%	100.0%	62.5%	64.4%
Arrest for Violation Rate	1.1%	0.0%	0.0%	2.6%	0.0%	0.0%	1.1%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	0.0%	0.0%	0.0%	0.0%	2.5%	0.5%
Search rate (incl. searches on warrant)	0.6%	0.0%	0.0%	0.0%	0.0%	2.5%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	77.8%	NA	NA	NA	NA	100.0%	77.8%
Hit rates (excl. warnings as outcomes)	77.8%	NA	NA	NA	NA	100.0%	77.8%
Hit rates (outcome = arrest)	18.5%	NA	NA	NA	NA	0.0%	18.5%

Table A.5. Orleans County Raw Traffic Stop Data, 2015-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	7,814	89	75	65	3	19	8,065
Excluding externally generated stops	7,760	88	75	61	3	17	8,004
Reasons For Stops							
Safety Stops	7,159	82	71	58	3	16	7,389
Moving Violation	7,157	82	71	58	3	16	7,387
Suspicion of DWI	2	0	0	0	0	0	2
Investigatory/Pretextual Stops	498	6	1	2	0	1	508
Investigatory Stop	60	1	0	0	0	0	61
Vehicle Equipment	438	5	1	2	0	1	447
Externally Generated Stop	54	1	0	4	0	2	61
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	58	0	0	1	0	0	59
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	45	0	3	0	0	0	48
Outcomes							
Ticket	5,314	60	59	47	2	6	5,488
Warning	2,629	29	17	15	1	11	2,702
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	6	0	0	0	0	0	6
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	7,687	86	75	61	3	17	7,929
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	1	0	0	0	0	0	1
No Search (all others)	7,686	86	75	61	3	17	7,928
Total Stops with Unknown Search	2	0	0	0	0	0	2
Total Stops with Search	71	2	0	0	0	0	73
Search with Probable Cause (PC)	16	1	0	0	0	0	17
Stops with PC Searches, No contraband	4	1	0	0	0	0	5
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	12	0	0	0	0	0	12
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	12	0	0	0	0	0	12
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	38	1	0	0	0	0	39
Stops with RS Searches, No contraband	3	0	0	0	0	0	3
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	35	1	0	0	0	0	36
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	8	0	0	0	0	0	8
Stops with RS Searches, Contraband & Ticket	27	1	0	0	0	0	28
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	17	0	0	0	0	0	17
Stops with Warrant Searches, No contraband	16	0	0	0	0	0	16
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.1%	1.1%	0.9%	0.8%	0.0%	0.2%	
Excluding externally generated stops	97.2%	1.1%	0.9%	0.8%	0.0%	0.2%	
Driver Percentage (using local ACS)	96.2%	1.1%	0.6%		2.0%		
Driver Percentage (using county ACS)	96.2%	1.1%	0.6%		2.0%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.02	1.01	1.58		0.02		
Disparity Index (using county ACS)	1.02	1.01	1.58		0.02		
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	106	97	185		1		104
Stop Reason as % of All Stops							
Safety Stops	91.6%	92.1%	94.7%	89.2%	100.0%	84.2%	91.6%
Moving Violation	91.6%	92.1%	94.7%	89.2%	100.0%	84.2%	91.6%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	6.4%	6.7%	1.3%	3.1%	0.0%	5.3%	6.3%
Investigatory Stops	0.8%	1.1%	0.0%	0.0%	0.0%	0.0%	0.8%
Vehicle Equipment	5.6%	5.6%	1.3%	3.1%	0.0%	5.3%	5.5%
Externally Generated Stops	0.7%	1.1%	0.0%	6.2%	0.0%	10.5%	0.7%
Multiple Reasons	0.7%	0.0%	0.0%	1.5%	0.0%	0.0%	0.7%
Unknown Reason	0.6%	0.0%	4.0%	0.0%	0.0%	0.0%	0.6%
Outcome Rates as a % of All Stops							
Warning Rate	33.9%	33.0%	22.7%	24.6%	33.3%	64.7%	33.7%
Ticket Rate	68.5%	68.2%	78.7%	77.1%	66.7%	35.3%	68.6%
Arrest for Violation Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.7%	2.3%	0.0%	0.0%	0.0%	0.0%	0.7%
Search rate (incl. searches on warrant)	0.9%	2.3%	0.0%	0.0%	0.0%	0.0%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	67.6%	50.0%	NA	NA	NA	NA	67.1%
Hit rates (excl. warnings as outcomes)	56.3%	50.0%	NA	NA	NA	NA	56.2%
Hit rates (outcome = arrest)	0.0%	0.0%	NA	NA	NA	NA	0.0%

Table A.5. Rutland County Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	22,315	293	207	90	8	58	22,971
Excluding externally generated stops	22,259	293	207	85	8	58	22,910
Reasons For Stops							
Safety Stops	20,741	269	200	79	7	39	21,335
Moving Violation	20,735	269	200	79	7	39	21,329
Suspicion of DWI	6	0	0	0	0	0	6
Investigatory/Pretextual Stops	1,138	21	3	1	1	8	1,172
Investigatory Stop	20	0	0	0	0	0	20
Vehicle Equipment	1,118	21	3	1	1	8	1,152
Externally Generated Stop	56	0	0	5	0	0	61
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	119	2	0	2	0	0	123
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	261	1	4	3	0	11	280
Outcomes							
Ticket	14,400	187	150	65	5	33	14,840
Warning	8,365	117	56	22	3	24	8,587
No Action Taken	5	0	0	0	0	0	5
Arrest for violation	41	0	2	1	0	1	45
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	21,510	284	201	79	8	2	22,084
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	17	0	0	0	0	0	17
No Search (all others)	21,492	284	201	79	8	2	22,066
Total Stops with Unknown Search	668	8	5	6	0	56	743
Total Stops with Search	81	1	1	0	0	0	83
Search with Probable Cause (PC)	28	0	0	0	0	0	28
Stops with PC Searches, No contraband	3	0	0	0	0	0	3
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	25	0	0	0	0	0	25
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Ticket	23	0	0	0	0	0	23
Stops with PC Searches, Contraband and Arrest	1	0	0	0	0	0	1
Search with Reasonable Suspicion (RS)	36	1	1	0	0	0	38
Stops with RS Searches, No contraband	7	0	1	0	0	0	8
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	29	1	0	0	0	0	30
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	7	0	0	0	0	0	7
Stops with RS Searches, Contraband & Ticket	22	1	0	0	0	0	23
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	17	0	0	0	0	0	17
Stops with Warrant Searches, No contraband	16	0	0	0	0	0	16
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.4%	1.3%	0.9%	0.4%	0.0%	0.3%	
Excluding externally generated stops	97.4%	1.3%	0.9%	0.4%	0.0%	0.3%	
Driver Percentage (using local ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	94.8%	1.2%	2.0%	0.9%	1.2%		
Disparity Index (using local ACS)	1.01	1.43	0.76		0.04		
Disparity Index (using county ACS)	1.01	1.43	0.76		0.04		
Disparity Index (using DMV Accident data)	1.03	1.07	0.45	0.41	0.03		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	87	122	67		3		87
Stop Reason as % of All Stops							
Safety Stops	93.0%	91.8%	96.6%	87.8%	87.5%	67.2%	92.9%
Moving Violation	92.9%	91.8%	96.6%	87.8%	87.5%	67.2%	92.9%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	5.1%	7.2%	1.5%	1.1%	12.5%	13.8%	5.1%
Investigatory Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Vehicle Equipment	5.0%	7.2%	1.5%	1.1%	12.5%	13.8%	5.0%
Externally Generated Stops	0.3%	0.0%	0.0%	5.6%	0.0%	0.0%	0.3%
Multiple Reasons	0.5%	0.7%	0.0%	2.2%	0.0%	0.0%	0.5%
Unknown Reason	1.2%	0.3%	1.9%	3.3%	0.0%	19.0%	1.2%
Outcome Rates as a % of All Stops							
Warning Rate	37.6%	39.9%	27.1%	25.9%	37.5%	41.4%	37.5%
Ticket Rate	64.7%	63.8%	72.5%	76.5%	62.5%	56.9%	64.8%
Arrest for Violation Rate	0.2%	0.0%	1.0%	1.2%	0.0%	1.7%	0.2%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	0.3%	0.5%	0.0%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.4%	0.3%	0.5%	0.0%	0.0%	0.0%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	67.9%	100.0%	0.0%	NA	NA	NA	67.5%
Hit rates (excl. warnings as outcomes)	56.8%	100.0%	0.0%	NA	NA	NA	56.6%
Hit rates (outcome = arrest)	1.2%	0.0%	0.0%	NA	NA	NA	1.2%

Table A.5. Washington County Raw Traffic Stop Data, 2017-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	5,847	77	43	19	1	24	6,011
Excluding externally generated stops	5,842	77	43	19	1	24	6,006
Reasons For Stops							
Safety Stops	3,301	44	33	16	1	15	3,410
Moving Violation	3,297	44	33	16	1	15	3,406
Suspicion of DWI	4	0	0	0	0	0	4
Investigatory/Pretextual Stops	1,152	16	8	2	0	5	1,183
Investigatory Stop	19	0	0	0	0	0	19
Vehicle Equipment	1,133	16	8	2	0	5	1,164
Externally Generated Stop	5	0	0	0	0	0	5
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	1	0	0	0	0	0	1
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	1,388	17	2	1	0	4	1,412
Outcomes							
Ticket	1,862	30	24	8	1	6	1,931
Warning	3,825	46	19	10	0	18	3,918
No Action Taken	32	0	0	0	0	0	32
Arrest for violation	86	1	0	1	0	0	88
Arrest for warrant	12	0	0	0	0	0	12
Searches							
Total Stops with No Search	5,779	72	43	19	1	24	5,938
No Search & Contraband & Arrest for violation	1	1	0	0	0	0	2
No Search & Contraband & No arrest	52	0	1	0	0	0	53
No Search (all others)	5,726	71	42	19	1	24	5,883
Total Stops with Unknown Search	21	0	0	0	0	0	21
Total Stops with Search	42	5	0	0	0	0	47
Search with Probable Cause (PC)	22	4	0	0	0	0	26
Stops with PC Searches, No contraband	1	1	0	0	0	0	2
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	21	3	0	0	0	0	24
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	15	3	0	0	0	0	18
Stops with PC Searches, Contraband and Arrest	6	0	0	0	0	0	6
Search with Reasonable Suspicion (RS)	10	1	0	0	0	0	11
Stops with RS Searches, No contraband	3	0	0	0	0	0	3
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	7	1	0	0	0	0	8
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	6	1	0	0	0	0	7
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	10	0	0	0	0	0	10
Stops with Warrant Searches, No contraband	10	0	0	0	0	0	10
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	97.7%	1.3%	0.7%	0.3%	0.0%	0.4%	
Excluding externally generated stops	97.7%	1.3%	0.7%	0.3%	0.0%	0.4%	
Driver Percentage (using local ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	94.5%	1.4%	1.4%	1.4%	1.4%		
Disparity Index (using local ACS)	1.02	0.92	0.52		0.02		
Disparity Index (using county ACS)	1.02	0.92	0.52		0.02		
Disparity Index (using DMV Accident data)	1.03	0.92	0.51	0.23	0.01		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	41	36	20		1		40
Stop Reason as % of All Stops							
Safety Stops	56.5%	57.1%	76.7%	84.2%	100.0%	62.5%	56.7%
Moving Violation	56.4%	57.1%	76.7%	84.2%	100.0%	62.5%	56.6%
Suspicion of DWI	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	19.7%	20.8%	18.6%	10.5%	0.0%	20.8%	19.7%
Investigatory Stops	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Vehicle Equipment	19.4%	20.8%	18.6%	10.5%	0.0%	20.8%	19.4%
Externally Generated Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	23.7%	22.1%	4.7%	5.3%	0.0%	16.7%	23.5%
Outcome Rates as a % of All Stops							
Warning Rate	65.5%	59.7%	44.2%	52.6%	0.0%	75.0%	65.2%
Ticket Rate	31.9%	39.0%	55.8%	42.1%	100.0%	25.0%	32.2%
Arrest for Violation Rate	1.5%	1.3%	0.0%	5.3%	0.0%	0.0%	1.5%
Arrest for Warrant Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
No Action Rate	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Search Rates							
Search rate (excl. searches on warrant)	0.6%	6.5%	0.0%	0.0%	0.0%	0.0%	0.6%
Search rate (incl. searches on warrant)	0.7%	6.5%	0.0%	0.0%	0.0%	0.0%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	66.7%	80.0%	NA	NA	NA	NA	68.1%
Hit rates (excl. warnings as outcomes)	66.7%	80.0%	NA	NA	NA	NA	68.1%
Hit rates (outcome = arrest)	16.7%	0.0%	NA	NA	NA	NA	14.9%

Table A.5. Windham County Raw Traffic Stop Data, 2017-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	8,198	40	19	36	0	210	8,503
Excluding externally generated stops	8,180	39	19	36	0	210	8,484
Reasons For Stops							
Safety Stops	7,362	29	11	28	0	0	7,430
Moving Violation	7,361	29	11	28	0	0	7,429
Suspicion of DWI	1	0	0	0	0	0	1
Investigatory/Pretextual Stops	721	8	7	7	0	0	743
Investigatory Stop	9	0	0	0	0	0	9
Vehicle Equipment	712	8	7	7	0	0	734
Externally Generated Stop	18	1	0	0	0	0	19
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	97	2	1	1	0	210	311
Outcomes							
Ticket	4,639	13	5	9	0	0	4,666
Warning	3,441	24	14	24	0	0	3,503
No Action Taken	18	0	0	0	0	0	18
Arrest for violation	78	1	0	3	0	0	82
Arrest for warrant	1	1	0	0	0	0	2
Searches							
Total Stops with No Search	8,148	38	19	35	0	0	8,240
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	12	0	0	0	0	0	12
No Search (all others)	8,136	38	19	35	0	0	8,228
Total Stops with Unknown Search	9	0	0	0	0	210	219
Total Stops with Search	23	1	0	1	0	0	25
Search with Probable Cause (PC)	4	1	0	0	0	0	5
Stops with PC Searches, No contraband	1	0	0	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	3	1	0	0	0	0	4
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	1	1	0	0	0	0	2
Search with Reasonable Suspicion (RS)	11	0	0	1	0	0	12
Stops with RS Searches, No contraband	6	0	0	0	0	0	6
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	5	0	0	1	0	0	6
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	4	0	0	1	0	0	5
Search with Warrant	8	0	0	0	0	0	8
Stops with Warrant Searches, No contraband	7	0	0	0	0	0	7
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	98.9%	0.5%	0.2%	0.4%		2.5%	
Excluding externally generated stops	98.9%	0.5%	0.2%	0.4%		2.5%	
Driver Percentage (using local ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	96.7%	1.0%	1.6%	0.3%	0.3%		
Disparity Index (using local ACS)	1.04	0.28	0.14				
Disparity Index (using county ACS)	1.04	0.28	0.14				
Disparity Index (using DMV Accident data)	1.02	0.47	0.14	1.45			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	78	20	11				74
Stop Reason as % of All Stops							
Safety Stops	89.8%	72.5%	57.9%	77.8%	0.0%	0.0%	89.6%
Moving Violation	89.8%	72.5%	57.9%	77.8%	0.0%	0.0%	89.6%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	8.8%	20.0%	36.8%	19.4%	0.0%	0.0%	9.0%
Investigatory Stops	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Vehicle Equipment	8.7%	20.0%	36.8%	19.4%	0.0%	0.0%	8.9%
Externally Generated Stops	0.2%	2.5%	0.0%	0.0%	0.0%	0.0%	0.2%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	1.2%	5.0%	5.3%	2.8%	0.0%	100.0%	1.2%
Outcome Rates as a % of All Stops							
Warning Rate	42.1%	61.5%	73.7%	66.7%	0.0%	0.0%	42.3%
Ticket Rate	56.7%	33.3%	26.3%	25.0%	0.0%	0.0%	56.4%
Arrest for Violation Rate	1.0%	2.6%	0.0%	8.3%	0.0%	0.0%	1.0%
Arrest for Warrant Rate	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.2%	2.6%	0.0%	2.8%	0.0%	0.0%	0.2%
Search rate (incl. searches on warrant)	0.3%	2.6%	0.0%	2.8%	0.0%	0.0%	0.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	39.1%	100.0%	NA	100.0%	NA	NA	44.0%
Hit rates (excl. warnings as outcomes)	21.7%	100.0%	NA	100.0%	NA	NA	28.0%
Hit rates (outcome = arrest)	21.7%	100.0%	NA	100.0%	NA	NA	28.0%

Table A.5. Windsor County Raw Traffic Stop Data, 2016-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	19,883	266	560	326	14	42	21,091
Excluding externally generated stops	19,883	266	560	326	14	42	21,091
Reasons For Stops							
Safety Stops	7,584	98	185	119	7	26	8,019
Moving Violation	7,584	98	185	119	7	26	8,019
Suspicion of DWI	0	0	0	0	0	0	0
Investigatory/Pretextual Stops	1	0	0	0	0	0	1
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	1	0	0	0	0	0	1
Externally Generated Stop	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	12,298	168	375	207	7	16	13,071
Outcomes							
Ticket	6,520	83	178	111	6	17	6,915
Warning	1,126	17	8	8	1	11	1,171
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	19	0	0	0	0	0	19
Arrest for warrant	0	1	0	0	0	0	1
Searches							
Total Stops with No Search	7,582	98	184	119	7	26	8,016
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	6	0	0	0	0	0	6
No Search (all others)	7,575	98	184	119	7	26	8,009
Total Stops with Unknown Search	12,292	168	375	207	7	16	13,065
Total Stops with Search	9	0	1	0	0	0	10
Search with Probable Cause (PC)	1	0	1	0	0	0	2
Stops with PC Searches, No contraband	0	0	1	0	0	0	1
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	1	0	0	0	0	0	1
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	1	0	0	0	0	0	1
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	8	0	0	0	0	0	8
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	8	0	0	0	0	0	8
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	8	0	0	0	0	0	8
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.5%	1.3%	2.7%	1.5%	0.1%	0.2%	
Excluding externally generated stops	94.5%	1.3%	2.7%	1.5%	0.1%	0.2%	
Driver Percentage (using local ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	96.2%		2.3%	1.5%			
Disparity Index (using local ACS)	1.00	1.17	1.80		0.06		
Disparity Index (using county ACS)	1.00	1.17	1.80		0.06		
Disparity Index (using DMV Accident data)	0.98		1.16	1.03			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	132	152	224		7		132
Stop Reason as % of All Stops							
Safety Stops	38.1%	36.8%	33.0%	36.5%	50.0%	61.9%	38.0%
Moving Violation	38.1%	36.8%	33.0%	36.5%	50.0%	61.9%	38.0%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Externally Generated Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	61.9%	63.2%	67.0%	63.5%	50.0%	38.1%	62.0%
Outcome Rates as a % of All Stops							
Warning Rate	5.7%	6.4%	1.4%	2.5%	7.1%	26.2%	5.5%
Ticket Rate	32.8%	31.2%	31.8%	34.1%	42.9%	40.5%	32.8%
Arrest for Violation Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Arrest for Warrant Rate	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%
Search rate (incl. searches on warrant)	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	100.0%	NA	0.0%	NA	NA	NA	90.0%
Hit rates (excl. warnings as outcomes)	100.0%	NA	0.0%	NA	NA	NA	90.0%
Hit rates (outcome = arrest)	0.0%	NA	0.0%	NA	NA	NA	0.0%

Table A.5. VSP HQ - BCI/SIU/NIU Raw Traffic Stop Data, 2014-19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	128	1	4	2	0	0	135
Excluding externally generated stops	125	1	4	2	0	0	132
Reasons For Stops							
Safety Stops	116	1	4	2	0	0	123
Moving Violation	115	1	4	2	0	0	122
Suspicion of DWI	1	0	0	0	0	0	1
Investigatory/Pretextual Stops	9	0	0	0	0	0	9
Investigatory Stop	0	0	0	0	0	0	0
Vehicle Equipment	9	0	0	0	0	0	9
Externally Generated Stop	3	0	0	0	0	0	3
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	0	0	0	0	0
Outcomes							
Ticket	33	0	0	1	0	0	34
Warning	89	1	4	1	0	0	95
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	3	0	0	0	0	0	3
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	122	1	4	2	0	0	129
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	122	1	4	2	0	0	129
Total Stops with Unknown Search	0	0	0	0	0	0	0
Total Stops with Search	3	0	0	0	0	0	3
Search with Probable Cause (PC)	0	0	0	0	0	0	0
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	0	0	0	0	0	0	0
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Ticket	0	0	0	0	0	0	0
Stops with PC Searches, Contraband and Arrest	0	0	0	0	0	0	0
Search with Reasonable Suspicion (RS)	3	0	0	0	0	0	3
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	3	0	0	0	0	0	3
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	0	0	0	0	0	0	0
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	0	0	0	0	0	0	0
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	0	0	0	0	0	0	0
Racial Shares of Stops							
Including externally generated stops	94.8%	0.7%	3.0%	1.5%			
Excluding externally generated stops	94.7%	0.8%	3.0%	1.5%			
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.01	0.48	1.47				
Disparity Index (using county ACS)	1.01	0.48	1.47				
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)							
Stop Reason as % of All Stops							
Safety Stops	90.6%	100.0%	100.0%	100.0%	0.0%	0.0%	91.1%
Moving Violation	89.8%	100.0%	100.0%	100.0%	0.0%	0.0%	90.4%
Suspicion of DWI	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Investigatory/Pretextual Stops	7.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
Investigatory Stops	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vehicle Equipment	7.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%
Externally Generated Stops	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	71.2%	100.0%	100.0%	50.0%	0.0%	0.0%	72.0%
Ticket Rate	26.4%	0.0%	0.0%	50.0%	0.0%	0.0%	25.8%
Arrest for Violation Rate	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%
Search Rates							
Search rate (excl. searches on warrant)	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
Search rate (incl. searches on warrant)	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	100.0%	NA	NA	NA	NA	NA	100.0%
Hit rates (excl. warnings as outcomes)	33.3%	NA	NA	NA	NA	NA	33.3%
Hit rates (outcome = arrest)	33.3%	NA	NA	NA	NA	NA	33.3%

Table A.5. VSP HQ - Field Force Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	3,718	129	75	65	3	43	4,033
Excluding externally generated stops	3,692	127	73	64	3	42	4,001
Reasons For Stops							
Safety Stops	3,012	105	70	55	3	34	3,279
Moving Violation	3,009	105	69	55	3	34	3,275
Suspicion of DWI	3	0	1	0	0	0	4
Investigatory/Pretextual Stops	667	21	3	9	0	3	703
Investigatory Stop	36	0	0	1	0	0	37
Vehicle Equipment	631	21	3	8	0	3	666
Externally Generated Stop	26	2	2	1	0	1	32
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	8	0	0	0	0	0	8
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	5	1	0	0	0	5	11
Outcomes							
Ticket	1,222	40	27	24	1	14	1,328
Warning	2,399	78	43	39	2	23	2,584
No Action Taken	7	1	0	0	0	0	8
Arrest for violation	82	7	3	0	0	0	92
Arrest for warrant	4	0	0	1	0	0	5
Searches							
Total Stops with No Search	3,595	110	72	63	3	37	3,880
No Search & Contraband & Arrest for violation	1	0	0	0	0	0	1
No Search & Contraband & No arrest	0	0	0	0	0	0	0
No Search (all others)	3,594	110	72	63	3	37	3,879
Total Stops with Unknown Search	7	1	0	0	0	5	13
Total Stops with Search	90	16	1	1	0	0	108
Search with Probable Cause (PC)	64	9	1	1	0	0	75
Stops with PC Searches, No contraband	4	1	0	1	0	0	6
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	59	8	1	0	0	0	68
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	10	4	1	0	0	0	15
Stops with PC Searches, Contraband and Ticket	29	2	0	0	0	0	31
Stops with PC Searches, Contraband and Arrest	20	2	0	0	0	0	22
Search with Reasonable Suspicion (RS)	17	5	0	0	0	0	22
Stops with RS Searches, No contraband	4	2	0	0	0	0	6
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	13	3	0	0	0	0	16
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	5	1	0	0	0	0	6
Stops with RS Searches, Contraband & Ticket	0	2	0	0	0	0	2
Stops with RS Searches, Contraband & Arrest	8	0	0	0	0	0	8
Search with Warrant	9	2	0	0	0	0	11
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	8	2	0	0	0	0	10
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	6	2	0	0	0	0	8
Racial Shares of Stops							
Including externally generated stops	93.2%	3.2%	1.9%	1.6%	0.1%	1.1%	
Excluding externally generated stops	93.3%	3.2%	1.8%	1.6%	0.1%	1.1%	
Driver Percentage (using local ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (using county ACS)	95.0%	1.6%	2.1%		1.3%		
Driver Percentage (DMV Accident data)							
Disparity Index (using local ACS)	1.00	2.04	0.89		0.06		
Disparity Index (using county ACS)	1.00	2.04	0.89		0.06		
Disparity Index (using DMV Accident data)							
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	1	3	1				1
Stop Reason as % of All Stops							
Safety Stops	81.0%	81.4%	93.3%	84.6%	100.0%	79.1%	81.3%
Moving Violation	80.9%	81.4%	92.0%	84.6%	100.0%	79.1%	81.2%
Suspicion of DWI	0.1%	0.0%	1.3%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	17.9%	16.3%	4.0%	13.9%	0.0%	7.0%	17.5%
Investigatory Stops	1.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.9%
Vehicle Equipment	17.0%	16.3%	4.0%	12.3%	0.0%	7.0%	16.6%
Externally Generated Stops	0.7%	1.6%	2.7%	1.5%	0.0%	2.3%	0.8%
Multiple Reasons	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Unknown Reason	0.1%	0.8%	0.0%	0.0%	0.0%	11.6%	0.2%
Outcome Rates as a % of All Stops							
Warning Rate	65.0%	61.4%	58.9%	60.9%	66.7%	54.8%	64.7%
Ticket Rate	33.1%	31.5%	37.0%	37.5%	33.3%	33.3%	33.2%
Arrest for Violation Rate	2.2%	5.5%	4.1%	0.0%	0.0%	0.0%	2.3%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	1.6%	0.0%	0.0%	0.1%
No Action Rate	0.2%	0.8%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	2.2%	11.0%	1.4%	1.6%	0.0%	0.0%	2.5%
Search rate (incl. searches on warrant)	2.4%	12.6%	1.4%	1.6%	0.0%	0.0%	2.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	88.9%	81.3%	100.0%	0.0%	NA	NA	87.0%
Hit rates (excl. warnings as outcomes)	71.1%	50.0%	0.0%	0.0%	NA	NA	66.7%
Hit rates (outcome = arrest)	37.8%	25.0%	0.0%	0.0%	NA	NA	35.2%

Table A.5. VSP_Bradford Raw Traffic Stop Data, 2014;2015;2016;2017;2019							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	6,921	118	86	62	10	55	7,252
Excluding externally generated stops	6,860	115	86	61	10	54	7,186
Reasons For Stops							
Safety Stops	6,100	106	84	58	9	45	6,402
Moving Violation	6,077	106	82	57	9	45	6,376
Suspicion of DWI	23	0	2	1	0	0	26
Investigatory/Pretextual Stops	758	9	2	3	1	7	780
Investigatory Stop	92	2	0	0	0	0	94
Vehicle Equipment	666	7	2	3	1	7	686
Externally Generated Stop	61	3	0	1	0	1	66
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	0	0	0	0	0	0	0
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	2	0	0	0	0	2	4
Outcomes							
Ticket	3,092	73	55	31	7	18	3,276
Warning	3,787	42	30	28	3	34	3,924
No Action Taken	6	0	0	0	0	0	6
Arrest for violation	25	1	1	3	0	0	30
Arrest for warrant	1	0	0	0	0	0	1
Searches							
Total Stops with No Search	6,823	111	86	58	10	52	7,140
No Search & Contraband & Arrest for violation	2	0	0	0	0	0	2
No Search & Contraband & No arrest	1	0	0	0	0	0	1
No Search (all others)	6,820	111	86	58	10	52	7,137
Total Stops with Unknown Search	2	0	0	0	0	2	4
Total Stops with Search	35	4	0	3	0	0	42
Search with Probable Cause (PC)	26	4	0	3	0	0	33
Stops with PC Searches, No contraband	0	0	0	0	0	0	0
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	26	4	0	3	0	0	33
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with PC Searches, Contraband and Ticket	19	3	0	0	0	0	22
Stops with PC Searches, Contraband and Arrest	5	1	0	3	0	0	9
Search with Reasonable Suspicion (RS)	8	0	0	0	0	0	8
Stops with RS Searches, No contraband	2	0	0	0	0	0	2
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	6	0	0	0	0	0	6
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	5	0	0	0	0	0	5
Stops with RS Searches, Contraband & Arrest	1	0	0	0	0	0	1
Search with Warrant	1	0	0	0	0	0	1
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	1	0	0	0	0	0	1
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Arrest	1	0	0	0	0	0	1
Racial Shares of Stops							
Including externally generated stops	96.2%	1.6%	1.2%	0.9%	0.1%	0.8%	
Excluding externally generated stops	96.2%	1.6%	1.2%	0.9%	0.1%	0.8%	
Driver Percentage (using local ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (using county ACS)	97.0%	0.9%	0.8%		1.4%		
Driver Percentage (DMV Accident data)	96.6%	1.3%	1.6%	0.3%	0.1%		
Disparity Index (using local ACS)	1.00	1.81	1.52		0.10		
Disparity Index (using county ACS)	1.00	1.81	1.52		0.10		
Disparity Index (using DMV Accident data)	1.00	1.24	0.75	2.85	1.40		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	57	107	89		9		57
Stop Reason as % of All Stops							
Safety Stops	88.1%	89.8%	97.7%	93.6%	90.0%	81.8%	88.3%
Moving Violation	87.8%	89.8%	95.4%	91.9%	90.0%	81.8%	88.0%
Suspicion of DWI	0.3%	0.0%	2.3%	1.6%	0.0%	0.0%	0.4%
Investigatory/Pretextual Stops	11.0%	7.6%	2.3%	4.8%	10.0%	12.7%	10.7%
Investigatory Stops	1.3%	1.7%	0.0%	0.0%	0.0%	0.0%	1.3%
Vehicle Equipment	9.6%	5.9%	2.3%	4.8%	10.0%	12.7%	9.4%
Externally Generated Stops	0.9%	2.5%	0.0%	1.6%	0.0%	1.8%	0.9%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	55.2%	36.5%	34.9%	45.9%	30.0%	63.0%	54.5%
Ticket Rate	45.1%	63.5%	64.0%	50.8%	70.0%	33.3%	45.7%
Arrest for Violation Rate	0.4%	0.9%	1.2%	4.9%	0.0%	0.0%	0.4%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	3.5%	0.0%	4.9%	0.0%	0.0%	0.6%
Search rate (incl. searches on warrant)	0.5%	3.5%	0.0%	4.9%	0.0%	0.0%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	94.3%	100.0%	NA	100.0%	NA	NA	95.2%
Hit rates (excl. warnings as outcomes)	88.6%	100.0%	NA	100.0%	NA	NA	90.5%
Hit rates (outcome = arrest)	20.0%	25.0%	NA	100.0%	NA	NA	26.2%

Table A.5. VSP_Brattleboro Raw Traffic Stop Data, 2014;2015;2016;2017;2019							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	5,880	192	126	117	3	22	6,340
Excluding externally generated stops	5,857	189	125	117	3	22	6,313
Reasons For Stops							
Safety Stops	4,510	150	108	99	3	15	4,885
Moving Violation	4,494	150	108	99	3	15	4,869
Suspicion of DWI	16	0	0	0	0	0	16
Investigatory/Pretextual Stops	1,345	39	16	18	0	7	1,425
Investigatory Stop	46	2	1	0	0	0	49
Vehicle Equipment	1,299	37	15	18	0	7	1,376
Externally Generated Stop	23	3	1	0	0	0	27
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	2	0	0	0	0	0	2
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	0	0	1	0	0	0	1
Outcomes							
Ticket	2,394	72	65	50	3	0	2,584
Warning	3,423	115	58	67	0	22	3,685
No Action Taken	0	0	0	0	0	0	0
Arrest for violation	51	2	1	0	0	0	54
Arrest for warrant	0	0	0	0	0	0	0
Searches							
Total Stops with No Search	5,786	179	123	114	3	22	6,227
No Search & Contraband & Arrest for violation	6	0	0	0	0	0	6
No Search & Contraband & No arrest	9	0	0	0	0	0	9
No Search (all others)	5,771	179	123	114	3	22	6,212
Total Stops with Unknown Search	1	0	1	0	0	0	2
Total Stops with Search	70	10	1	3	0	0	84
Search with Probable Cause (PC)	48	6	1	3	0	0	58
Stops with PC Searches, No contraband	2	1	0	0	0	0	3
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	45	5	1	3	0	0	54
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	5	2	0	0	0	0	7
Stops with PC Searches, Contraband and Ticket	30	2	0	3	0	0	35
Stops with PC Searches, Contraband and Arrest	10	1	1	0	0	0	12
Search with Reasonable Suspicion (RS)	16	4	0	0	0	0	20
Stops with RS Searches, No contraband	3	2	0	0	0	0	5
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	13	2	0	0	0	0	15
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	1	0	0	0	0	2
Stops with RS Searches, Contraband & Ticket	9	1	0	0	0	0	10
Stops with RS Searches, Contraband & Arrest	3	0	0	0	0	0	3
Search with Warrant	6	0	0	0	0	0	6
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	6	0	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	93.1%	3.0%	2.0%	1.9%	0.0%	0.3%	
Excluding externally generated stops	93.1%	3.0%	2.0%	1.9%	0.0%	0.4%	
Driver Percentage (using local ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	94.2%	2.1%	2.2%	1.5%			
Disparity Index (using local ACS)	1.00	1.80	1.27		0.04		
Disparity Index (using county ACS)	1.00	1.80	1.27		0.04		
Disparity Index (using DMV Accident data)	0.99	1.43	0.90	1.24			
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	26	45	28		1		26
Stop Reason as % of All Stops							
Safety Stops	76.7%	78.1%	85.7%	84.6%	100.0%	68.2%	77.1%
Moving Violation	76.4%	78.1%	85.7%	84.6%	100.0%	68.2%	76.8%
Suspicion of DWI	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	22.9%	20.3%	12.7%	15.4%	0.0%	31.8%	22.4%
Investigatory Stops	0.8%	1.0%	0.8%	0.0%	0.0%	0.0%	0.8%
Vehicle Equipment	22.1%	19.3%	11.9%	15.4%	0.0%	31.8%	21.7%
Externally Generated Stops	0.4%	1.6%	0.8%	0.0%	0.0%	0.0%	0.4%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%
Outcome Rates as a % of All Stops							
Warning Rate	58.4%	60.9%	46.4%	57.3%	0.0%	100.0%	58.2%
Ticket Rate	40.9%	38.1%	52.0%	42.7%	100.0%	0.0%	41.1%
Arrest for Violation Rate	0.9%	1.1%	0.8%	0.0%	0.0%	0.0%	0.9%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	1.1%	5.3%	0.8%	2.6%	0.0%	0.0%	1.2%
Search rate (incl. searches on warrant)	1.2%	5.3%	0.8%	2.6%	0.0%	0.0%	1.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	91.4%	70.0%	100.0%	100.0%	NA	NA	89.3%
Hit rates (excl. warnings as outcomes)	82.9%	40.0%	100.0%	100.0%	NA	NA	78.6%
Hit rates (outcome = arrest)	21.4%	10.0%	100.0%	0.0%	NA	NA	20.2%

Table A.5. VSP_Derby Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	13,020	152	113	65	5	20	13,375
Excluding externally generated stops	12,699	149	110	61	5	20	13,044
Reasons For Stops							
Safety Stops	10,493	128	101	52	3	18	10,795
Moving Violation	10,488	128	101	52	3	18	10,790
Suspicion of DWI	5	0	0	0	0	0	5
Investigatory/Pretextual Stops	2,105	21	9	9	2	2	2,148
Investigatory Stop	70	0	1	1	0	1	73
Vehicle Equipment	2,035	21	8	8	2	1	2,075
Externally Generated Stop	321	3	3	4	0	0	331
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	72	0	0	0	0	0	72
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	29	0	0	0	0	0	29
Outcomes							
Ticket	4,646	65	49	20	1	9	4,790
Warning	8,377	85	59	41	3	11	8,576
No Action Taken	19	1	1	0	0	0	21
Arrest for violation	94	1	1	1	1	0	98
Arrest for warrant	3	0	0	0	0	0	3
Searches							
Total Stops with No Search	12,643	146	110	59	5	20	12,983
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	2	0	0	0	0	0	2
No Search (all others)	12,641	146	110	59	5	20	12,981
Total Stops with Unknown Search	8	0	0	0	0	0	8
Total Stops with Search	48	3	0	2	0	0	53
Search with Probable Cause (PC)	35	2	0	2	0	0	39
Stops with PC Searches, No contraband	7	0	0	0	0	0	7
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	27	2	0	2	0	0	31
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	2	1	0	0	0	0	3
Stops with PC Searches, Contraband and Ticket	17	1	0	1	0	0	19
Stops with PC Searches, Contraband and Arrest	8	0	0	1	0	0	9
Search with Reasonable Suspicion (RS)	4	0	0	0	0	0	4
Stops with RS Searches, No contraband	0	0	0	0	0	0	0
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	4	0	0	0	0	0	4
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with RS Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Arrest	2	0	0	0	0	0	2
Search with Warrant	9	1	0	0	0	0	10
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband	8	1	0	0	0	0	9
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	1	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	6	0	0	0	0	0	6
Racial Shares of Stops							
Including externally generated stops	97.5%	1.1%	0.8%	0.5%	0.0%	0.2%	
Excluding externally generated stops	97.5%	1.1%	0.8%	0.5%	0.0%	0.2%	
Driver Percentage (using local ACS)	96.2%	1.1%	0.6%		2.0%		
Driver Percentage (using county ACS)	96.2%	1.1%	0.6%		2.0%		
Driver Percentage (DMV Accident data)	96.8%	1.1%	1.0%	0.8%	0.4%		
Disparity Index (using local ACS)	1.02	1.05	1.41		0.02		
Disparity Index (using county ACS)	1.02	1.05	1.41		0.02		
Disparity Index (using DMV Accident data)	1.01	1.04	0.85	0.59	0.10		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	112	108	166		2		110
Stop Reason as % of All Stops							
Safety Stops	80.6%	84.2%	89.4%	80.0%	60.0%	90.0%	80.7%
Moving Violation	80.6%	84.2%	89.4%	80.0%	60.0%	90.0%	80.7%
Suspicion of DWI	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Investigatory/Pretextual Stops	16.2%	13.8%	8.0%	13.9%	40.0%	10.0%	16.1%
Investigatory Stops	0.5%	0.0%	0.9%	1.5%	0.0%	5.0%	0.5%
Vehicle Equipment	15.6%	13.8%	7.1%	12.3%	40.0%	5.0%	15.5%
Externally Generated Stops	2.5%	2.0%	2.7%	6.2%	0.0%	0.0%	2.5%
Multiple Reasons	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Unknown Reason	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Outcome Rates as a % of All Stops							
Warning Rate	66.0%	57.1%	53.6%	67.2%	60.0%	55.0%	65.8%
Ticket Rate	36.6%	43.6%	44.6%	32.8%	20.0%	45.0%	36.7%
Arrest for Violation Rate	0.7%	0.7%	0.9%	1.6%	20.0%	0.0%	0.8%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.2%	0.7%	0.9%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	1.3%	0.0%	3.3%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.4%	2.0%	0.0%	3.3%	0.0%	0.0%	0.4%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	81.3%	100.0%	NA	100.0%	NA	NA	83.0%
Hit rates (excl. warnings as outcomes)	77.1%	66.7%	NA	100.0%	NA	NA	77.4%
Hit rates (outcome = arrest)	33.3%	0.0%	NA	50.0%	NA	NA	32.1%

Table A.5. VSP_Middlesex Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	22,656	775	537	352	56	106	24,482
Excluding externally generated stops	22,002	756	535	345	54	105	23,797
Reasons For Stops							
Safety Stops	15,608	612	495	286	48	64	17,113
Moving Violation	15,542	610	491	286	48	64	17,041
Suspicion of DWI	66	2	4	0	0	0	72
Investigatory/Pretextual Stops	6,236	137	38	58	6	23	6,498
Investigatory Stop	771	20	2	4	0	4	801
Vehicle Equipment	5,465	117	36	54	6	19	5,697
Externally Generated Stop	654	19	2	7	2	1	685
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	52	2	0	0	0	0	54
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	106	5	2	1	0	18	132
Outcomes							
Ticket	9,872	380	328	185	34	21	10,820
Warning	11,691	357	203	155	18	65	12,489
No Action Taken	48	3	0	2	0	0	53
Arrest for violation	448	16	5	2	2	0	473
Arrest for warrant	10	0	0	1	0	0	11
Searches							
Total Stops with No Search	21,813	741	532	339	53	86	23,564
No Search & Contraband & Arrest for violation	6	0	0	0	0	0	6
No Search & Contraband & No arrest	22	1	0	0	0	0	23
No Search (all others)	21,785	740	532	339	53	86	23,535
Total Stops with Unknown Search	52	2	0	0	0	19	73
Total Stops with Search	137	13	3	6	1	0	160
Search with Probable Cause (PC)	101	11	2	3	0	0	117
Stops with PC Searches, No contraband	13	1	0	1	0	0	15
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	88	10	2	2	0	0	102
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	12	2	0	0	0	0	14
Stops with PC Searches, Contraband and Ticket	56	6	2	2	0	0	66
Stops with PC Searches, Contraband and Arrest	20	2	0	0	0	0	22
Search with Reasonable Suspicion (RS)	29	0	1	2	0	0	32
Stops with RS Searches, No contraband	15	0	0	1	0	0	16
Stops with RS Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with RS Searches, Contraband	13	0	1	1	0	0	15
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	5	0	1	0	0	0	6
Stops with RS Searches, Contraband & Ticket	5	0	0	1	0	0	6
Stops with RS Searches, Contraband & Arrest	3	0	0	0	0	0	3
Search with Warrant	7	2	0	1	1	0	11
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband	5	2	0	1	1	0	9
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	1	0	0	2
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	3	2	0	0	1	0	6
Racial Shares of Stops							
Including externally generated stops	92.9%	3.2%	2.2%	1.4%	0.2%	0.4%	
Excluding externally generated stops	92.9%	3.2%	2.3%	1.5%	0.2%	0.4%	
Driver Percentage (using local ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (using county ACS)	96.0%	1.4%	1.4%		1.1%		
Driver Percentage (DMV Accident data)	93.2%	2.5%	2.3%	1.6%	0.5%		
Disparity Index (using local ACS)	0.98	2.31	1.64		0.21		
Disparity Index (using county ACS)	0.98	2.31	1.64		0.21		
Disparity Index (using DMV Accident data)	1.00	1.28	0.98	0.91	0.46		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	86	197	139		17		87
Stop Reason as % of All Stops							
Safety Stops	68.9%	79.0%	92.2%	81.3%	85.7%	60.4%	69.9%
Moving Violation	68.6%	78.7%	91.4%	81.3%	85.7%	60.4%	69.7%
Suspicion of DWI	0.3%	0.3%	0.7%	0.0%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	27.5%	17.7%	7.1%	16.5%	10.7%	21.7%	26.6%
Investigatory Stops	3.4%	2.6%	0.4%	1.1%	0.0%	3.8%	3.3%
Vehicle Equipment	24.1%	15.1%	6.7%	15.3%	10.7%	17.9%	23.3%
Externally Generated Stops	2.9%	2.5%	0.4%	2.0%	3.6%	0.9%	2.8%
Multiple Reasons	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%
Unknown Reason	0.5%	0.7%	0.4%	0.3%	0.0%	17.0%	0.5%
Outcome Rates as a % of All Stops							
Warning Rate	53.1%	47.2%	37.9%	44.9%	33.3%	61.9%	52.4%
Ticket Rate	44.9%	50.3%	61.3%	53.6%	63.0%	20.0%	45.6%
Arrest for Violation Rate	2.0%	2.1%	0.9%	0.6%	3.7%	0.0%	2.0%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.3%	0.0%	0.0%	0.1%
No Action Rate	0.2%	0.4%	0.0%	0.6%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.6%	1.5%	0.6%	1.5%	0.0%	0.0%	0.6%
Search rate (incl. searches on warrant)	0.6%	1.7%	0.6%	1.7%	1.9%	0.0%	0.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	77.4%	92.3%	100.0%	66.7%	100.0%	NA	78.8%
Hit rates (excl. warnings as outcomes)	64.2%	76.9%	66.7%	50.0%	100.0%	NA	65.0%
Hit rates (outcome = arrest)	19.0%	30.8%	0.0%	0.0%	100.0%	NA	19.4%

Table A.5. VSP_New Haven Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	21,927	447	341	288	18	475	23,496
Excluding externally generated stops	21,545	439	338	281	17	475	23,095
Reasons For Stops							
Safety Stops	15,623	336	281	229	11	443	16,923
Moving Violation	15,365	329	275	221	11	443	16,644
Suspicion of DWI	258	7	6	8	0	0	279
Investigatory/Pretextual Stops	5,879	103	54	52	6	29	6,123
Investigatory Stop	182	6	0	4	0	0	192
Vehicle Equipment	5,697	97	54	48	6	29	5,931
Externally Generated Stop	382	8	3	7	1	0	401
Multiple Reasons - Moving Violation & Suspicion of DWI	2	0	0	0	0	0	2
Multiple Reasons - Moving Violation & Vehicle Equipment	18	0	1	0	0	2	21
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	22	0	2	0	0	1	25
Outcomes							
Ticket	10,476	225	200	153	8	251	11,313
Warning	10,772	205	134	123	9	229	11,472
No Action Taken	206	4	1	3	0	0	214
Arrest for violation	230	5	1	3	0	1	240
Arrest for warrant	11	0	0	0	0	0	11
Searches							
Total Stops with No Search	21,396	432	336	279	16	469	22,928
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	21	0	0	0	0	0	21
No Search (all others)	21,372	432	336	279	16	469	22,904
Total Stops with Unknown Search	9	0	1	0	0	1	11
Total Stops with Search	140	7	1	2	1	5	156
Search with Probable Cause (PC)	101	6	0	1	1	5	114
Stops with PC Searches, No contraband	13	1	0	0	0	0	14
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	88	5	0	1	1	5	100
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	5	0	0	0	0	0	5
Stops with PC Searches, Contraband and Ticket	69	4	0	1	1	4	79
Stops with PC Searches, Contraband and Arrest	14	1	0	0	0	1	16
Search with Reasonable Suspicion (RS)	31	0	1	1	0	0	33
Stops with RS Searches, No contraband	7	0	0	1	0	0	8
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	24	0	1	0	0	0	25
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Ticket	14	0	1	0	0	0	15
Stops with RS Searches, Contraband & Arrest	6	0	0	0	0	0	6
Search with Warrant	8	1	0	0	0	0	9
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	8	1	0	0	0	0	9
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	1	1	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	6	0	0	0	0	0	6
Racial Shares of Stops							
Including externally generated stops	95.2%	1.9%	1.5%	1.3%	0.1%	2.1%	
Excluding externally generated stops	95.2%	1.9%	1.5%	1.2%	0.1%	2.1%	
Driver Percentage (using local ACS)	95.1%	1.7%	2.4%		0.9%		
Driver Percentage (using county ACS)	95.1%	1.7%	2.4%		0.9%		
Driver Percentage (DMV Accident data)	94.0%	2.2%	2.0%	1.3%	0.5%		
Disparity Index (using local ACS)	1.01	1.16	0.63		0.09		
Disparity Index (using county ACS)	1.01	1.16	0.63		0.09		
Disparity Index (using DMV Accident data)	1.01	0.88	0.75	0.96	0.15		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	133	154	85		11		131
Stop Reason as % of All Stops							
Safety Stops	71.3%	75.2%	82.4%	79.5%	61.1%	93.3%	71.6%
Moving Violation	70.1%	73.6%	80.7%	76.7%	61.1%	93.3%	70.4%
Suspicion of DWI	1.2%	1.6%	1.8%	2.8%	0.0%	0.0%	1.2%
Investigatory/Pretextual Stops	26.8%	23.0%	15.8%	18.1%	33.3%	6.1%	26.5%
Investigatory Stops	0.8%	1.3%	0.0%	1.4%	0.0%	0.0%	0.8%
Vehicle Equipment	26.0%	21.7%	15.8%	16.7%	33.3%	6.1%	25.6%
Externally Generated Stops	1.7%	1.8%	0.9%	2.4%	5.6%	0.0%	1.7%
Multiple Reasons	0.1%	0.0%	0.3%	0.0%	0.0%	0.4%	0.1%
Unknown Reason	0.1%	0.0%	0.6%	0.0%	0.0%	0.2%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	50.0%	46.7%	39.6%	43.8%	52.9%	48.2%	49.7%
Ticket Rate	48.6%	51.3%	59.2%	54.5%	47.1%	52.8%	48.9%
Arrest for Violation Rate	1.1%	1.1%	0.3%	1.1%	0.0%	0.2%	1.1%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
No Action Rate	1.0%	0.9%	0.3%	1.1%	0.0%	0.0%	1.0%
Search Rates							
Search rate (excl. searches on warrant)	0.6%	1.4%	0.3%	0.7%	5.9%	1.1%	0.6%
Search rate (incl. searches on warrant)	0.7%	1.6%	0.3%	0.7%	5.9%	1.1%	0.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	85.7%	85.7%	100.0%	50.0%	100.0%	100.0%	85.4%
Hit rates (excl. warnings as outcomes)	78.6%	85.7%	100.0%	50.0%	100.0%	100.0%	78.8%
Hit rates (outcome = arrest)	18.6%	14.3%	0.0%	0.0%	0.0%	20.0%	17.9%

Table A.5. VSP_Rockingham Raw Traffic Stop Data, 2014;2015;2016;2017;2019							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	6,761	237	188	147	6	5	7,344
Excluding externally generated stops	6,615	235	186	147	6	5	7,194
Reasons For Stops							
Safety Stops	5,452	207	171	119	6	3	5,958
Moving Violation	5,448	206	171	119	6	3	5,953
Suspicion of DWI	4	1	0	0	0	0	5
Investigatory/Pretextual Stops	1,156	28	15	28	0	2	1,229
Investigatory Stop	26	3	1	3	0	1	34
Vehicle Equipment	1,130	25	14	25	0	1	1,195
Externally Generated Stop	146	2	2	0	0	0	150
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	3	0	0	0	0	0	3
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	4	0	0	0	0	0	4
Outcomes							
Ticket	1,680	79	74	46	2	0	1,881
Warning	4,871	149	110	98	4	5	5,237
No Action Taken	1	0	0	0	0	0	1
Arrest for violation	83	8	1	2	0	0	94
Arrest for warrant	2	0	0	0	0	0	2
Searches							
Total Stops with No Search	6,507	220	183	137	5	5	7,057
No Search & Contraband & Arrest for violation	0	0	0	0	0	0	0
No Search & Contraband & No arrest	15	0	0	0	0	0	15
No Search (all others)	6,492	220	183	137	5	5	7,042
Total Stops with Unknown Search	3	0	1	0	0	0	4
Total Stops with Search	105	15	2	10	1	0	133
Search with Probable Cause (PC)	67	6	1	5	0	0	79
Stops with PC Searches, No contraband	3	0	0	0	0	0	3
Stops with PC Searches, Unknown contraband	1	0	0	0	0	0	1
Stops with PC Searches, Contraband	63	6	1	5	0	0	75
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	19	1	0	3	0	0	23
Stops with PC Searches, Contraband and Ticket	27	3	0	1	0	0	31
Stops with PC Searches, Contraband and Arrest	17	2	1	1	0	0	21
Search with Reasonable Suspicion (RS)	30	9	1	5	1	0	46
Stops with RS Searches, No contraband	9	4	0	3	1	0	17
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	21	5	1	2	0	0	29
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	10	1	0	2	0	0	13
Stops with RS Searches, Contraband & Ticket	4	1	1	0	0	0	6
Stops with RS Searches, Contraband & Arrest	7	3	0	0	0	0	10
Search with Warrant	8	0	0	0	0	0	8
Stops with Warrant Searches, No contraband	2	0	0	0	0	0	2
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	6	0	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	92.1%	3.2%	2.6%	2.0%	0.1%	0.1%	
Excluding externally generated stops	92.0%	3.3%	2.6%	2.0%	0.1%	0.1%	
Driver Percentage (using local ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	94.5%	2.1%	1.9%	1.3%	0.1%		
Disparity Index (using local ACS)	0.99	1.96	1.65		0.06		
Disparity Index (using county ACS)	0.99	1.96	1.65		0.06		
Disparity Index (using DMV Accident data)	0.97	1.56	1.36	1.57	0.84		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	25	57	49		1		25
Stop Reason as % of All Stops							
Safety Stops	80.6%	87.3%	91.0%	81.0%	100.0%	60.0%	81.1%
Moving Violation	80.6%	86.9%	91.0%	81.0%	100.0%	60.0%	81.1%
Suspicion of DWI	0.1%	0.4%	0.0%	0.0%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	17.1%	11.8%	8.0%	19.1%	0.0%	40.0%	16.7%
Investigatory Stops	0.4%	1.3%	0.5%	2.0%	0.0%	20.0%	0.5%
Vehicle Equipment	16.7%	10.6%	7.5%	17.0%	0.0%	20.0%	16.3%
Externally Generated Stops	2.2%	0.8%	1.1%	0.0%	0.0%	0.0%	2.0%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	73.6%	63.4%	59.1%	66.7%	66.7%	100.0%	72.8%
Ticket Rate	25.4%	33.6%	39.8%	31.3%	33.3%	0.0%	26.2%
Arrest for Violation Rate	1.3%	3.4%	0.5%	1.4%	0.0%	0.0%	1.3%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Search Rates							
Search rate (excl. searches on warrant)	1.5%	6.4%	1.1%	6.8%	16.7%	0.0%	1.7%
Search rate (incl. searches on warrant)	1.6%	6.4%	1.1%	6.8%	16.7%	0.0%	1.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	85.7%	73.3%	100.0%	70.0%	0.0%	NA	82.7%
Hit rates (excl. warnings as outcomes)	57.1%	60.0%	100.0%	20.0%	0.0%	NA	54.9%
Hit rates (outcome = arrest)	26.7%	33.3%	50.0%	10.0%	0.0%	NA	26.3%

Table A.5. VSP_Royalton Raw Traffic Stop Data, 2014-19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	28,461	989	867	546	45	158	31,066
Excluding externally generated stops	28,200	978	865	539	44	158	30,784
Reasons For Stops							
Safety Stops	23,427	889	819	510	39	139	25,823
Moving Violation	23,408	888	819	509	39	139	25,802
Suspicion of DWI	19	1	0	1	0	0	21
Investigatory/Pretextual Stops	4,635	85	44	28	5	14	4,811
Investigatory Stop	333	8	4	4	0	1	350
Vehicle Equipment	4,302	77	40	24	5	13	4,461
Externally Generated Stop	261	11	2	7	1	0	282
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	101	2	0	0	0	0	103
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	37	2	2	1	0	5	47
Outcomes							
Ticket	10,609	466	485	296	20	53	11,929
Warning	17,586	512	378	240	25	101	18,842
No Action Taken	49	2	0	0	0	0	51
Arrest for violation	314	10	4	6	0	1	335
Arrest for warrant	8	0	0	0	0	0	8
Searches							
Total Stops with No Search	28,029	967	863	533	44	152	30,588
No Search & Contraband & Arrest for violation	3	0	0	1	0	0	4
No Search & Contraband & No arrest	14	3	0	1	0	1	19
No Search (all others)	28,012	964	863	531	44	151	30,565
Total Stops with Unknown Search	22	0	1	0	0	5	28
Total Stops with Search	149	11	1	6	0	1	168
Search with Probable Cause (PC)	121	9	1	6	0	0	137
Stops with PC Searches, No contraband	12	1	0	0	0	0	13
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	109	8	1	6	0	0	124
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	17	4	0	0	0	0	21
Stops with PC Searches, Contraband and Ticket	69	2	0	6	0	0	77
Stops with PC Searches, Contraband and Arrest	23	2	1	0	0	0	26
Search with Reasonable Suspicion (RS)	25	1	0	0	0	1	27
Stops with RS Searches, No contraband	13	1	0	0	0	0	14
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	12	0	0	0	0	1	13
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	4	0	0	0	0	0	4
Stops with RS Searches, Contraband & Ticket	5	0	0	0	0	0	5
Stops with RS Searches, Contraband & Arrest	3	0	0	0	0	1	4
Search with Warrant	3	1	0	0	0	0	4
Stops with Warrant Searches, No contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	3	1	0	0	0	0	4
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	1	1	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	92.1%	3.2%	2.8%	1.8%	0.1%	0.5%	
Excluding externally generated stops	92.1%	3.2%	2.8%	1.8%	0.1%	0.5%	
Driver Percentage (using local ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (using county ACS)	96.2%	1.1%	1.5%		1.1%		
Driver Percentage (DMV Accident data)	92.5%	3.5%	3.2%	0.5%	0.3%		
Disparity Index (using local ACS)	0.97	2.96	1.92		0.13		
Disparity Index (using county ACS)	0.97	2.96	1.92		0.13		
Disparity Index (using DMV Accident data)	1.00	0.91	0.88	3.52	0.48		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	118	353	230		16		121
Stop Reason as % of All Stops							
Safety Stops	82.3%	89.9%	94.5%	93.4%	86.7%	88.0%	83.1%
Moving Violation	82.3%	89.8%	94.5%	93.2%	86.7%	88.0%	83.0%
Suspicion of DWI	0.1%	0.1%	0.0%	0.2%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	16.3%	8.6%	5.1%	5.1%	11.1%	8.9%	15.5%
Investigatory Stops	1.2%	0.8%	0.5%	0.7%	0.0%	0.6%	1.1%
Vehicle Equipment	15.1%	7.8%	4.6%	4.4%	11.1%	8.2%	14.4%
Externally Generated Stops	0.9%	1.1%	0.2%	1.3%	2.2%	0.0%	0.9%
Multiple Reasons	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.3%
Unknown Reason	0.1%	0.2%	0.2%	0.2%	0.0%	3.2%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	62.4%	52.4%	43.7%	44.5%	56.8%	63.9%	61.2%
Ticket Rate	37.6%	47.7%	56.1%	54.9%	45.5%	33.5%	38.8%
Arrest for Violation Rate	1.1%	1.0%	0.5%	1.1%	0.0%	0.6%	1.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.5%	1.0%	0.1%	1.1%	0.0%	0.6%	0.5%
Search rate (incl. searches on warrant)	0.5%	1.1%	0.1%	1.1%	0.0%	0.6%	0.6%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	83.2%	81.8%	100.0%	100.0%	NA	100.0%	83.8%
Hit rates (excl. warnings as outcomes)	69.1%	45.5%	100.0%	100.0%	NA	100.0%	68.9%
Hit rates (outcome = arrest)	18.8%	18.2%	100.0%	0.0%	NA	100.0%	18.6%

Table A.5. VSP_Rutland Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	32,175	701	481	382	25	261	34,025
Excluding externally generated stops	31,636	679	477	374	24	247	33,437
Reasons For Stops							
Safety Stops	21,393	471	398	287	13	181	22,743
Moving Violation	21,354	468	398	286	13	180	22,699
Suspicion of DWI	39	3	0	1	0	1	44
Investigatory/Pretextual Stops	10,081	199	79	83	10	63	10,515
Investigatory Stop	275	7	3	2	0	4	291
Vehicle Equipment	9,806	192	76	81	10	59	10,224
Externally Generated Stop	539	22	4	8	1	14	588
Multiple Reasons - Moving Violation & Suspicion of DWI	5	0	0	1	0	1	7
Multiple Reasons - Moving Violation & Vehicle Equipment	110	8	0	0	0	1	119
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	4	0	0	0	0	0	4
Unknown Stop Reason	43	1	0	3	1	1	49
Outcomes							
Ticket	11,564	241	204	138	8	107	12,262
Warning	19,961	436	272	233	16	139	21,057
No Action Taken	221	5	4	2	0	1	233
Arrest for violation	224	6	0	4	0	1	235
Arrest for warrant	5	1	0	0	0	0	6
Searches							
Total Stops with No Search	31,419	664	476	371	24	245	33,199
No Search & Contraband & Arrest for violation	4	0	0	0	0	0	4
No Search & Contraband & No arrest	21	1	0	0	1	1	24
No Search (all others)	31,394	663	476	371	23	244	33,171
Total Stops with Unknown Search	18	0	0	1	0	1	20
Total Stops with Search	199	15	1	2	0	1	218
Search with Probable Cause (PC)	168	11	1	1	0	1	182
Stops with PC Searches, No contraband	13	1	0	0	0	0	14
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	155	10	1	1	0	1	168
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	7	1	0	0	0	0	8
Stops with PC Searches, Contraband and Ticket	118	6	1	0	0	1	126
Stops with PC Searches, Contraband and Arrest	30	3	0	1	0	0	34
Search with Reasonable Suspicion (RS)	24	4	0	1	0	0	29
Stops with RS Searches, No contraband	9	1	0	0	0	0	10
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	15	3	0	1	0	0	19
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	3	0	0	0	0	0	3
Stops with RS Searches, Contraband & Ticket	9	3	0	1	0	0	13
Stops with RS Searches, Contraband & Arrest	3	0	0	0	0	0	3
Search with Warrant	7	0	0	0	0	0	7
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	6	0	0	0	0	0	6
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	95.3%	2.1%	1.4%	1.1%	0.1%	0.8%	
Excluding externally generated stops	95.3%	2.0%	1.4%	1.1%	0.1%	0.7%	
Driver Percentage (using local ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (using county ACS)	96.9%	0.9%	1.2%		1.0%		
Driver Percentage (DMV Accident data)	93.3%	2.2%	3.0%	1.0%	0.5%		
Disparity Index (using local ACS)	1.00	2.30	1.21		0.07		
Disparity Index (using county ACS)	1.00	2.30	1.21		0.07		
Disparity Index (using DMV Accident data)	1.02	0.93	0.48	1.13	0.15		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	124	282	156		9		125
Stop Reason as % of All Stops							
Safety Stops	66.5%	67.2%	82.7%	75.1%	52.0%	69.4%	66.8%
Moving Violation	66.4%	66.8%	82.7%	74.9%	52.0%	69.0%	66.7%
Suspicion of DWI	0.1%	0.4%	0.0%	0.3%	0.0%	0.4%	0.1%
Investigatory/Pretextual Stops	31.3%	28.4%	16.4%	21.7%	40.0%	24.1%	31.0%
Investigatory Stops	0.9%	1.0%	0.6%	0.5%	0.0%	1.5%	0.9%
Vehicle Equipment	30.5%	27.4%	15.8%	21.2%	40.0%	22.6%	30.1%
Externally Generated Stops	1.7%	3.1%	0.8%	2.1%	4.0%	5.4%	1.7%
Multiple Reasons	0.4%	1.1%	0.0%	0.3%	0.0%	0.8%	0.4%
Unknown Reason	0.1%	0.1%	0.0%	0.8%	4.0%	0.4%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	63.1%	64.2%	57.0%	62.3%	66.7%	56.3%	63.0%
Ticket Rate	36.6%	35.5%	42.8%	36.9%	33.3%	43.3%	36.6%
Arrest for Violation Rate	0.7%	0.9%	0.0%	1.1%	0.0%	0.4%	0.7%
Arrest for Warrant Rate	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.7%	0.7%	0.8%	0.5%	0.0%	0.4%	0.7%
Search Rates							
Search rate (excl. searches on warrant)	0.6%	2.2%	0.2%	0.5%	0.0%	0.4%	0.6%
Search rate (incl. searches on warrant)	0.6%	2.2%	0.2%	0.5%	0.0%	0.4%	0.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	88.4%	86.7%	100.0%	100.0%	NA	100.0%	88.5%
Hit rates (excl. warnings as outcomes)	83.4%	80.0%	100.0%	100.0%	NA	100.0%	83.4%
Hit rates (outcome = arrest)	18.6%	20.0%	0.0%	50.0%	NA	0.0%	18.9%

Table A.5. VSP_Shaftsbury Raw Traffic Stop Data, 2014-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	22,411	544	374	339	8	30	23,706
Excluding externally generated stops	22,027	532	374	331	8	27	23,299
Reasons For Stops							
Safety Stops	14,794	391	326	257	7	16	15,791
Moving Violation	14,726	391	324	256	7	16	15,720
Suspicion of DWI	68	0	2	1	0	0	71
Investigatory/Pretextual Stops	7,026	140	48	72	1	9	7,296
Investigatory Stop	288	5	1	4	0	1	299
Vehicle Equipment	6,738	135	47	68	1	8	6,997
Externally Generated Stop	384	12	0	8	0	3	407
Multiple Reasons - Moving Violation & Suspicion of DWI	3	0	0	0	0	0	3
Multiple Reasons - Moving Violation & Vehicle Equipment	148	1	0	1	0	1	151
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	56	0	0	1	0	1	58
Outcomes							
Ticket	7,765	211	170	131	3	14	8,294
Warning	13,876	311	198	189	5	12	14,591
No Action Taken	278	5	4	6	0	0	293
Arrest for violation	262	12	2	7	0	0	283
Arrest for warrant	6	0	0	0	0	0	6
Searches							
Total Stops with No Search	21,792	514	374	324	8	26	23,038
No Search & Contraband & Arrest for violation	3	0	0	0	0	0	3
No Search & Contraband & No arrest	24	1	1	2	0	0	28
No Search (all others)	21,765	513	373	322	8	26	23,007
Total Stops with Unknown Search	22	0	0	0	0	1	23
Total Stops with Search	213	18	0	7	0	0	238
Search with Probable Cause (PC)	188	16	0	6	0	0	210
Stops with PC Searches, No contraband	18	1	0	2	0	0	21
Stops with PC Searches, Unknown contraband	3	0	0	0	0	0	3
Stops with PC Searches, Contraband	167	15	0	4	0	0	186
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	10	1	0	1	0	0	12
Stops with PC Searches, Contraband and Ticket	125	10	0	2	0	0	137
Stops with PC Searches, Contraband and Arrest	32	4	0	1	0	0	37
Search with Reasonable Suspicion (RS)	16	1	0	1	0	0	18
Stops with RS Searches, No contraband	5	1	0	0	0	0	6
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	11	0	0	1	0	0	12
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	1	0	0	1	0	0	2
Stops with RS Searches, Contraband & Ticket	10	0	0	0	0	0	10
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	9	1	0	0	0	0	10
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	8	1	0	0	0	0	9
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	1	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	4	0	0	0	0	0	4
Stops with Warrant Searches, Contraband & Arrest	4	0	0	0	0	0	4
Racial Shares of Stops							
Including externally generated stops	94.7%	2.3%	1.6%	1.4%	0.0%	0.1%	
Excluding externally generated stops	94.7%	2.3%	1.6%	1.4%	0.0%	0.1%	
Driver Percentage (using local ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (using county ACS)	96.1%	1.7%	0.7%		1.5%		
Driver Percentage (DMV Accident data)	94.3%	2.4%	1.5%	1.7%	0.1%		
Disparity Index (using local ACS)	1.00	1.36	2.33		0.02		
Disparity Index (using county ACS)	1.00	1.36	2.33		0.02		
Disparity Index (using DMV Accident data)	1.00	0.95	1.07	0.84	0.34		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	139	193	333		3		140
Stop Reason as % of All Stops							
Safety Stops	66.0%	71.9%	87.2%	75.8%	87.5%	53.3%	66.6%
Moving Violation	65.7%	71.9%	86.6%	75.5%	87.5%	53.3%	66.3%
Suspicion of DWI	0.3%	0.0%	0.5%	0.3%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	31.4%	25.7%	12.8%	21.2%	12.5%	30.0%	30.8%
Investigatory Stops	1.3%	0.9%	0.3%	1.2%	0.0%	3.3%	1.3%
Vehicle Equipment	30.1%	24.8%	12.6%	20.1%	12.5%	26.7%	29.5%
Externally Generated Stops	1.7%	2.2%	0.0%	2.4%	0.0%	10.0%	1.7%
Multiple Reasons	0.7%	0.2%	0.0%	0.3%	0.0%	3.3%	0.7%
Unknown Reason	0.3%	0.0%	0.0%	0.3%	0.0%	3.3%	0.2%
Outcome Rates as a % of All Stops							
Warning Rate	63.0%	58.5%	52.9%	57.1%	62.5%	44.4%	62.7%
Ticket Rate	35.3%	39.7%	45.5%	39.6%	37.5%	51.9%	35.6%
Arrest for Violation Rate	1.2%	2.3%	0.5%	2.1%	0.0%	0.0%	1.2%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	1.3%	0.9%	1.1%	1.8%	0.0%	0.0%	1.3%
Search Rates							
Search rate (excl. searches on warrant)	0.9%	3.2%	0.0%	2.1%	0.0%	0.0%	1.0%
Search rate (incl. searches on warrant)	1.0%	3.4%	0.0%	2.1%	0.0%	0.0%	1.0%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	87.3%	88.9%	NA	71.4%	NA	NA	87.0%
Hit rates (excl. warnings as outcomes)	82.2%	77.8%	NA	42.9%	NA	NA	80.7%
Hit rates (outcome = arrest)	16.9%	22.2%	NA	14.3%	NA	NA	17.2%

Table A.5. VSP_St. Albans Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	22,495	536	287	210	18	2	23,548
Excluding externally generated stops	22,125	525	285	205	17	2	23,159
Reasons For Stops							
Safety Stops	15,363	434	258	168	15	1	16,239
Moving Violation	15,250	430	257	167	15	1	16,120
Suspicion of DWI	113	4	1	1	0	0	119
Investigatory/Pretextual Stops	6,668	86	27	37	2	0	6,820
Investigatory Stop	781	8	0	2	0	0	791
Vehicle Equipment	5,887	78	27	35	2	0	6,029
Externally Generated Stop	370	11	2	5	1	0	389
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	30	0	0	0	0	0	30
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	63	5	0	0	0	1	69
Outcomes							
Ticket	7,232	214	130	88	5	1	7,670
Warning	14,187	290	149	112	11	0	14,749
No Action Taken	173	4	0	1	0	0	178
Arrest for violation	589	16	6	4	1	0	616
Arrest for warrant	34	0	0	0	0	0	34
Searches							
Total Stops with No Search	21,961	514	283	202	17	1	22,978
No Search & Contraband & Arrest for violation	1	0	1	0	0	0	2
No Search & Contraband & No arrest	17	1	0	0	0	0	18
No Search (all others)	21,943	513	282	202	17	1	22,958
Total Stops with Unknown Search	12	2	0	0	0	1	15
Total Stops with Search	152	9	2	3	0	0	166
Search with Probable Cause (PC)	108	7	1	3	0	0	119
Stops with PC Searches, No contraband	16	1	1	1	0	0	19
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	92	6	0	2	0	0	100
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	15	1	0	1	0	0	17
Stops with PC Searches, Contraband and Ticket	53	4	0	1	0	0	58
Stops with PC Searches, Contraband and Arrest	24	1	0	0	0	0	25
Search with Reasonable Suspicion (RS)	33	1	1	0	0	0	35
Stops with RS Searches, No contraband	14	1	1	0	0	0	16
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	19	0	0	0	0	0	19
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	6	0	0	0	0	0	6
Stops with RS Searches, Contraband & Ticket	8	0	0	0	0	0	8
Stops with RS Searches, Contraband & Arrest	5	0	0	0	0	0	5
Search with Warrant	11	1	0	0	0	0	12
Stops with Warrant Searches, No contraband	3	0	0	0	0	0	3
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	8	1	0	0	0	0	9
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	0	0	0	0	0	1
Stops with Warrant Searches, Contraband & Ticket	3	0	0	0	0	0	3
Stops with Warrant Searches, Contraband & Arrest	4	1	0	0	0	0	5
Racial Shares of Stops							
Including externally generated stops	95.5%	2.3%	1.2%	0.9%	0.1%	0.0%	
Excluding externally generated stops	95.5%	2.3%	1.2%	0.9%	0.1%	0.0%	
Driver Percentage (using local ACS)	95.3%	1.2%	0.6%		2.9%		
Driver Percentage (using county ACS)	95.3%	1.2%	0.6%		2.9%		
Driver Percentage (DMV Accident data)	94.9%	1.8%	1.7%	1.0%	0.6%		
Disparity Index (using local ACS)	1.01	1.91	2.07		0.03		
Disparity Index (using county ACS)	1.01	1.91	2.07		0.03		
Disparity Index (using DMV Accident data)	1.01	1.26	0.72	0.89	0.12		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	111	214	230		3		110
Stop Reason as % of All Stops							
Safety Stops	68.3%	81.0%	89.9%	80.0%	83.3%	50.0%	69.0%
Moving Violation	67.8%	80.2%	89.6%	79.5%	83.3%	50.0%	68.5%
Suspicion of DWI	0.5%	0.8%	0.4%	0.5%	0.0%	0.0%	0.5%
Investigatory/Pretextual Stops	29.6%	16.0%	9.4%	17.6%	11.1%	0.0%	29.0%
Investigatory Stops	3.5%	1.5%	0.0%	1.0%	0.0%	0.0%	3.4%
Vehicle Equipment	26.2%	14.6%	9.4%	16.7%	11.1%	0.0%	25.6%
Externally Generated Stops	1.6%	2.1%	0.7%	2.4%	5.6%	0.0%	1.7%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	0.3%	0.9%	0.0%	0.0%	0.0%	50.0%	0.3%
Outcome Rates as a % of All Stops							
Warning Rate	64.1%	55.2%	52.3%	54.6%	64.7%	0.0%	63.7%
Ticket Rate	32.7%	40.8%	45.6%	42.9%	29.4%	50.0%	33.1%
Arrest for Violation Rate	2.7%	3.1%	2.1%	2.0%	5.9%	0.0%	2.7%
Arrest for Warrant Rate	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
No Action Rate	0.8%	0.8%	0.0%	0.5%	0.0%	0.0%	0.8%
Search Rates							
Search rate (excl. searches on warrant)	0.6%	1.5%	0.7%	1.5%	0.0%	0.0%	0.7%
Search rate (incl. searches on warrant)	0.7%	1.7%	0.7%	1.5%	0.0%	0.0%	0.7%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	78.3%	77.8%	0.0%	66.7%	NA	NA	77.1%
Hit rates (excl. warnings as outcomes)	63.8%	66.7%	0.0%	33.3%	NA	NA	62.7%
Hit rates (outcome = arrest)	21.7%	22.2%	0.0%	0.0%	NA	NA	21.1%

Table A.5. VSP_St. Johnsbury Raw Traffic Stop Data, 2014-19							
All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	26,883	441	431	287	14	36	28,092
Excluding externally generated stops	26,243	425	426	276	14	36	27,420
Reasons For Stops							
Safety Stops	21,670	367	407	260	14	23	22,741
Moving Violation	21,572	366	407	260	14	23	22,642
Suspicion of DWI	98	1	0	0	0	0	99
Investigatory/Pretextual Stops	4,471	57	19	16	0	8	4,571
Investigatory Stop	555	2	1	2	0	2	562
Vehicle Equipment	3,916	55	18	14	0	6	4,009
Externally Generated Stop	640	16	5	11	0	0	672
Multiple Reasons - Moving Violation & Suspicion of DWI	4	0	0	0	0	0	4
Multiple Reasons - Moving Violation & Vehicle Equipment	24	0	0	0	0	0	24
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	1	0	0	0	0	0	1
Unknown Stop Reason	73	1	0	0	0	5	79
Outcomes							
Ticket	9,349	176	216	114	5	7	9,867
Warning	16,506	243	210	155	9	24	17,147
No Action Taken	312	6	2	4	0	2	326
Arrest for violation	284	3	0	5	0	1	293
Arrest for warrant	7	0	0	0	0	0	7
Searches							
Total Stops with No Search	26,124	423	426	270	14	32	27,289
No Search & Contraband & Arrest for violation	13	0	0	1	0	0	14
No Search & Contraband & No arrest	15	0	1	0	0	0	16
No Search (all others)	26,096	423	425	269	14	32	27,259
Total Stops with Unknown Search	36	0	0	1	0	4	41
Total Stops with Search	83	2	0	5	0	0	90
Search with Probable Cause (PC)	65	2	0	3	0	0	70
Stops with PC Searches, No contraband	11	0	0	1	0	0	12
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	54	2	0	2	0	0	58
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	5	0	0	0	0	0	5
Stops with PC Searches, Contraband and Ticket	28	2	0	1	0	0	31
Stops with PC Searches, Contraband and Arrest	21	0	0	1	0	0	22
Search with Reasonable Suspicion (RS)	13	0	0	2	0	0	15
Stops with RS Searches, No contraband	7	0	0	1	0	0	8
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	6	0	0	1	0	0	7
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	2	0	0	0	0	0	2
Stops with RS Searches, Contraband & Ticket	4	0	0	1	0	0	5
Stops with RS Searches, Contraband & Arrest	0	0	0	0	0	0	0
Search with Warrant	5	0	0	0	0	0	5
Stops with Warrant Searches, No contraband	1	0	0	0	0	0	1
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	4	0	0	0	0	0	4
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	2	0	0	0	0	0	2
Stops with Warrant Searches, Contraband & Arrest	2	0	0	0	0	0	2
Racial Shares of Stops							
Including externally generated stops	95.8%	1.6%	1.5%	1.0%	0.1%	0.1%	
Excluding externally generated stops	95.8%	1.6%	1.6%	1.0%	0.1%	0.1%	
Driver Percentage (using local ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (using county ACS)	96.4%	1.0%	1.2%		1.4%		
Driver Percentage (DMV Accident data)	95.3%	1.4%	1.8%	1.0%	0.5%		
Disparity Index (using local ACS)	1.00	1.57	1.31		0.04		
Disparity Index (using county ACS)	1.00	1.57	1.31		0.04		
Disparity Index (using DMV Accident data)	1.01	1.11	0.86	1.01	0.10		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	206	320	272		8		205
Stop Reason as % of All Stops							
Safety Stops	80.6%	83.2%	94.4%	90.6%	100.0%	63.9%	81.0%
Moving Violation	80.2%	83.0%	94.4%	90.6%	100.0%	63.9%	80.6%
Suspicion of DWI	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.4%
Investigatory/Pretextual Stops	16.6%	12.9%	4.4%	5.6%	0.0%	22.2%	16.3%
Investigatory Stops	2.1%	0.5%	0.2%	0.7%	0.0%	5.6%	2.0%
Vehicle Equipment	14.6%	12.5%	4.2%	4.9%	0.0%	16.7%	14.3%
Externally Generated Stops	2.4%	3.6%	1.2%	3.8%	0.0%	0.0%	2.4%
Multiple Reasons	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	0.3%	0.2%	0.0%	0.0%	0.0%	13.9%	0.3%
Outcome Rates as a % of All Stops							
Warning Rate	62.9%	57.2%	49.3%	56.2%	64.3%	66.7%	62.5%
Ticket Rate	35.6%	41.4%	50.7%	41.3%	35.7%	19.4%	36.0%
Arrest for Violation Rate	1.1%	0.7%	0.0%	1.8%	0.0%	2.8%	1.1%
Arrest for Warrant Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	1.2%	1.4%	0.5%	1.5%	0.0%	5.6%	1.2%
Search Rates							
Search rate (excl. searches on warrant)	0.3%	0.5%	0.0%	1.8%	0.0%	0.0%	0.3%
Search rate (incl. searches on warrant)	0.3%	0.5%	0.0%	1.8%	0.0%	0.0%	0.3%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	77.1%	100.0%	NA	60.0%	NA	NA	76.7%
Hit rates (excl. warnings as outcomes)	68.7%	100.0%	NA	60.0%	NA	NA	68.9%
Hit rates (outcome = arrest)	27.7%	0.0%	NA	20.0%	NA	NA	26.7%

Table A.5. VSP_Westminster Raw Traffic Stop Data, 2016-19							
All Years	**White**	**Black**	**Asian**	**Hispanic**	**Native American**	**Unknown**	**Total**
Total Traffic Stops							
Including externally generated stops	27,100	954	866	623	22	10	29,575
Excluding externally generated stops	26,944	941	863	617	22	10	29,397
Reasons For Stops							
Safety Stops	21,116	805	801	543	22	6	23,293
Moving Violation	21,086	803	801	542	22	6	23,260
Suspicion of DWI	30	2	0	1	0	0	33
Investigatory/Pretextual Stops	5,752	135	61	73	0	4	6,025
Investigatory Stop	197	13	4	0	0	0	214
Vehicle Equipment	5,555	122	57	73	0	4	5,811
Externally Generated Stop	156	13	3	6	0	0	178
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	6	0	0	0	0	0	6
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	70	1	1	1	0	0	73
Outcomes							
Ticket	11,600	418	478	297	10	0	12,803
Warning	14,972	501	378	302	12	10	16,175
No Action Taken	40	3	0	0	0	0	43
Arrest for violation	351	20	8	16	0	0	395
Arrest for warrant	19	0	0	2	0	0	21
Searches							
Total Stops with No Search	26,753	921	860	597	22	10	29,163
No Search & Contraband & Arrest for violation	4	0	0	0	0	0	4
No Search & Contraband & No arrest	10	1	0	1	0	0	12
No Search (all others)	26,739	920	860	596	22	10	29,147
Total Stops with Unknown Search	1	0	0	0	0	0	1
Total Stops with Search	190	20	3	20	0	0	233
Search with Probable Cause (PC)	146	13	1	12	0	0	172
Stops with PC Searches, No contraband	10	0	0	2	0	0	12
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	136	13	1	10	0	0	160
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	27	4	0	4	0	0	35
Stops with PC Searches, Contraband and Ticket	58	6	0	4	0	0	68
Stops with PC Searches, Contraband and Arrest	51	3	1	2	0	0	57
Search with Reasonable Suspicion (RS)	29	6	0	5	0	0	40
Stops with RS Searches, No contraband	9	1	0	3	0	0	13
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	20	5	0	2	0	0	27
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	5	1	0	1	0	0	7
Stops with RS Searches, Contraband & Ticket	6	2	0	0	0	0	8
Stops with RS Searches, Contraband & Arrest	9	2	0	1	0	0	12
Search with Warrant	15	1	2	3	0	0	21
Stops with Warrant Searches, No contraband	6	0	1	0	0	0	7
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	9	1	1	3	0	0	14
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband & Ticket	0	1	0	0	0	0	1
Stops with Warrant Searches, Contraband & Arrest	9	0	1	3	0	0	13
Racial Shares of Stops							
Including externally generated stops	91.7%	3.2%	2.9%	2.1%	0.1%	0.0%	
Excluding externally generated stops	91.7%	3.2%	2.9%	2.1%	0.1%	0.0%	
Driver Percentage (using local ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (using county ACS)	95.3%	1.7%	1.6%		1.4%		
Driver Percentage (DMV Accident data)	92.4%	2.7%	2.0%	2.3%	0.6%		
Disparity Index (using local ACS)	0.98	1.92	1.88		0.06		
Disparity Index (using county ACS)	0.98	1.92	1.88		0.06		
Disparity Index (using DMV Accident data)	0.99	1.19	1.47	0.91	0.13		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	220	436	421		10		224
Stop Reason as % of All Stops							
Safety Stops	77.9%	84.4%	92.5%	87.2%	100.0%	60.0%	78.8%
Moving Violation	77.8%	84.2%	92.5%	87.0%	100.0%	60.0%	78.7%
Suspicion of DWI	0.1%	0.2%	0.0%	0.2%	0.0%	0.0%	0.1%
Investigatory/Pretextual Stops	21.2%	14.2%	7.0%	11.7%	0.0%	40.0%	20.4%
Investigatory Stops	0.7%	1.4%	0.5%	0.0%	0.0%	0.0%	0.7%
Vehicle Equipment	20.5%	12.8%	6.6%	11.7%	0.0%	40.0%	19.6%
Externally Generated Stops	0.6%	1.4%	0.4%	1.0%	0.0%	0.0%	0.6%
Multiple Reasons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unknown Reason	0.3%	0.1%	0.1%	0.2%	0.0%	0.0%	0.3%
Outcome Rates as a % of All Stops							
Warning Rate	55.6%	53.2%	43.8%	49.0%	54.6%	100.0%	55.0%
Ticket Rate	43.1%	44.4%	55.4%	48.1%	45.5%	0.0%	43.6%
Arrest for Violation Rate	1.3%	2.1%	0.9%	2.6%	0.0%	0.0%	1.3%
Arrest for Warrant Rate	0.1%	0.0%	0.0%	0.3%	0.0%	0.0%	0.1%
No Action Rate	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%
Search Rates							
Search rate (excl. searches on warrant)	0.7%	2.0%	0.1%	2.8%	0.0%	0.0%	0.7%
Search rate (incl. searches on warrant)	0.7%	2.1%	0.4%	3.2%	0.0%	0.0%	0.8%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	86.8%	95.0%	66.7%	75.0%	NA	NA	86.3%
Hit rates (excl. warnings as outcomes)	70.0%	70.0%	66.7%	50.0%	NA	NA	68.2%
Hit rates (outcome = arrest)	36.3%	25.0%	66.7%	30.0%	NA	NA	35.2%

Table A.5. VSP_Williston Raw Traffic Stop Data, 2014-19

All Years	White	Black	Asian	Hispanic	Native American	Unknown	Total
Total Traffic Stops							
Including externally generated stops	29,854	1,078	867	425	24	150	32,398
Excluding externally generated stops	29,031	1,043	842	411	23	144	31,494
Reasons For Stops							
Safety Stops	22,270	863	732	344	20	108	24,337
Moving Violation	22,186	859	730	343	20	108	24,246
Suspicion of DWI	84	4	2	1	0	0	91
Investigatory/Pretextual Stops	6,699	178	110	67	3	27	7,084
Investigatory Stop	298	8	6	3	0	0	315
Vehicle Equipment	6,401	170	104	64	3	27	6,769
Externally Generated Stop	823	35	25	14	1	6	904
Multiple Reasons - Moving Violation & Suspicion of DWI	0	0	0	0	0	0	0
Multiple Reasons - Moving Violation & Vehicle Equipment	21	1	0	0	0	0	22
Multiple Reasons - Suspicion of DWI & Vehicle Equipment	0	0	0	0	0	0	0
Unknown Stop Reason	41	1	0	0	0	9	51
Outcomes							
Ticket	10,407	420	358	180	7	40	11,412
Warning	17,989	569	459	217	16	96	19,346
No Action Taken	138	7	6	4	0	0	155
Arrest for violation	561	50	20	12	0	0	643
Arrest for warrant	10	2	0	0	0	0	12
Searches							
Total Stops with No Search	28,741	1,016	837	405	23	134	31,156
No Search & Contraband & Arrest for violation	4	0	0	0	0	0	4
No Search & Contraband & No arrest	9	0	0	0	0	0	9
No Search (all others)	28,728	1,016	837	405	23	134	31,143
Total Stops with Unknown Search	46	1	0	0	0	9	56
Total Stops with Search	244	26	5	6	0	1	282
Search with Probable Cause (PC)	178	21	2	4	0	1	206
Stops with PC Searches, No contraband	29	6	0	0	0	0	35
Stops with PC Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with PC Searches, Contraband	149	15	2	4	0	1	171
Outcomes of PC Search							
Stops with PC Searches, Contraband & Warning, No Action or Unknown	28	2	0	1	0	0	31
Stops with PC Searches, Contraband and Ticket	84	8	2	3	0	1	98
Stops with PC Searches, Contraband and Arrest	37	5	0	0	0	0	42
Search with Reasonable Suspicion (RS)	48	2	3	2	0	0	55
Stops with RS Searches, No contraband	15	2	1	1	0	0	19
Stops with RS Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with RS Searches, Contraband	33	0	2	1	0	0	36
Outcomes of RS Search							
Stops with RS Searches, Contraband & Warning, No Action or Unknown	8	0	1	0	0	0	9
Stops with RS Searches, Contraband & Ticket	19	0	0	0	0	0	19
Stops with RS Searches, Contraband & Arrest	6	0	1	1	0	0	8
Search with Warrant	18	3	0	0	0	0	21
Stops with Warrant Searches, No contraband	4	1	0	0	0	0	5
Stops with Warrant Searches, Unknown contraband	0	0	0	0	0	0	0
Stops with Warrant Searches, Contraband	14	2	0	0	0	0	16
Outcomes of Warrant Search							
Stops with Warrant Searches, Contraband & Warning, No Action or Unknown	1	1	0	0	0	0	2
Stops with Warrant Searches, Contraband & Ticket	3	1	0	0	0	0	4
Stops with Warrant Searches, Contraband & Arrest	10	0	0	0	0	0	10
Racial Shares of Stops							
Including externally generated stops	92.6%	3.3%	2.7%	1.3%	0.1%	0.5%	
Excluding externally generated stops	92.6%	3.3%	2.7%	1.3%	0.1%	0.5%	
Driver Percentage (using local ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (using county ACS)	91.9%	2.6%	4.5%		0.9%		
Driver Percentage (DMV Accident data)	93.2%	2.3%	3.1%	1.0%	0.4%		
Disparity Index (using local ACS)	1.02	1.30	0.61		0.08		
Disparity Index (using county ACS)	1.02	1.30	0.61		0.08		
Disparity Index (using DMV Accident data)	0.99	1.45	0.87	1.31	0.18		
Stop rate per 1,000 residents (annualized, full years only, ACS17_5yr)	44	56	26		3		43
Stop Reason as % of All Stops							
Safety Stops	74.6%	80.1%	84.4%	80.9%	83.3%	72.0%	75.1%
Moving Violation	74.3%	79.7%	84.2%	80.7%	83.3%	72.0%	74.9%
Suspicion of DWI	0.3%	0.4%	0.2%	0.2%	0.0%	0.0%	0.3%
Investigatory/Pretextual Stops	22.4%	16.5%	12.7%	15.8%	12.5%	18.0%	21.9%
Investigatory Stops	1.0%	0.7%	0.7%	0.7%	0.0%	0.0%	1.0%
Vehicle Equipment	21.4%	15.8%	12.0%	15.1%	12.5%	18.0%	20.9%
Externally Generated Stops	2.8%	3.3%	2.9%	3.3%	4.2%	4.0%	2.8%
Multiple Reasons	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
Unknown Reason	0.1%	0.1%	0.0%	0.0%	0.0%	6.0%	0.1%
Outcome Rates as a % of All Stops							
Warning Rate	62.0%	54.6%	54.5%	52.8%	69.6%	66.7%	61.4%
Ticket Rate	35.9%	40.3%	42.5%	43.8%	30.4%	27.8%	36.3%
Arrest for Violation Rate	1.9%	4.8%	2.4%	2.9%	0.0%	0.0%	2.1%
Arrest for Warrant Rate	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
No Action Rate	0.5%	0.7%	0.7%	1.0%	0.0%	0.0%	0.5%
Search Rates							
Search rate (excl. searches on warrant)	0.8%	2.2%	0.6%	1.5%	0.0%	0.7%	0.8%
Search rate (incl. searches on warrant)	0.8%	2.5%	0.6%	1.5%	0.0%	0.7%	0.9%
Hit rates (as a % of PC, RS & Warrant Searches)							
Hit rates (incl. all outcomes)	80.3%	65.4%	80.0%	83.3%	NA	100.0%	79.0%
Hit rates (excl. warnings as outcomes)	65.2%	53.9%	60.0%	66.7%	NA	100.0%	64.1%
Hit rates (outcome = arrest)	21.7%	19.2%	20.0%	16.7%	NA	0.0%	21.4%