



Traffic Stop Outcomes Analysis, Montgomery County MD, 2005-2011

Data Source

Data Owner:

Shubam Sumbria

Collection Period:

2005 - 2011

Montgomery County,

Maryland

From:

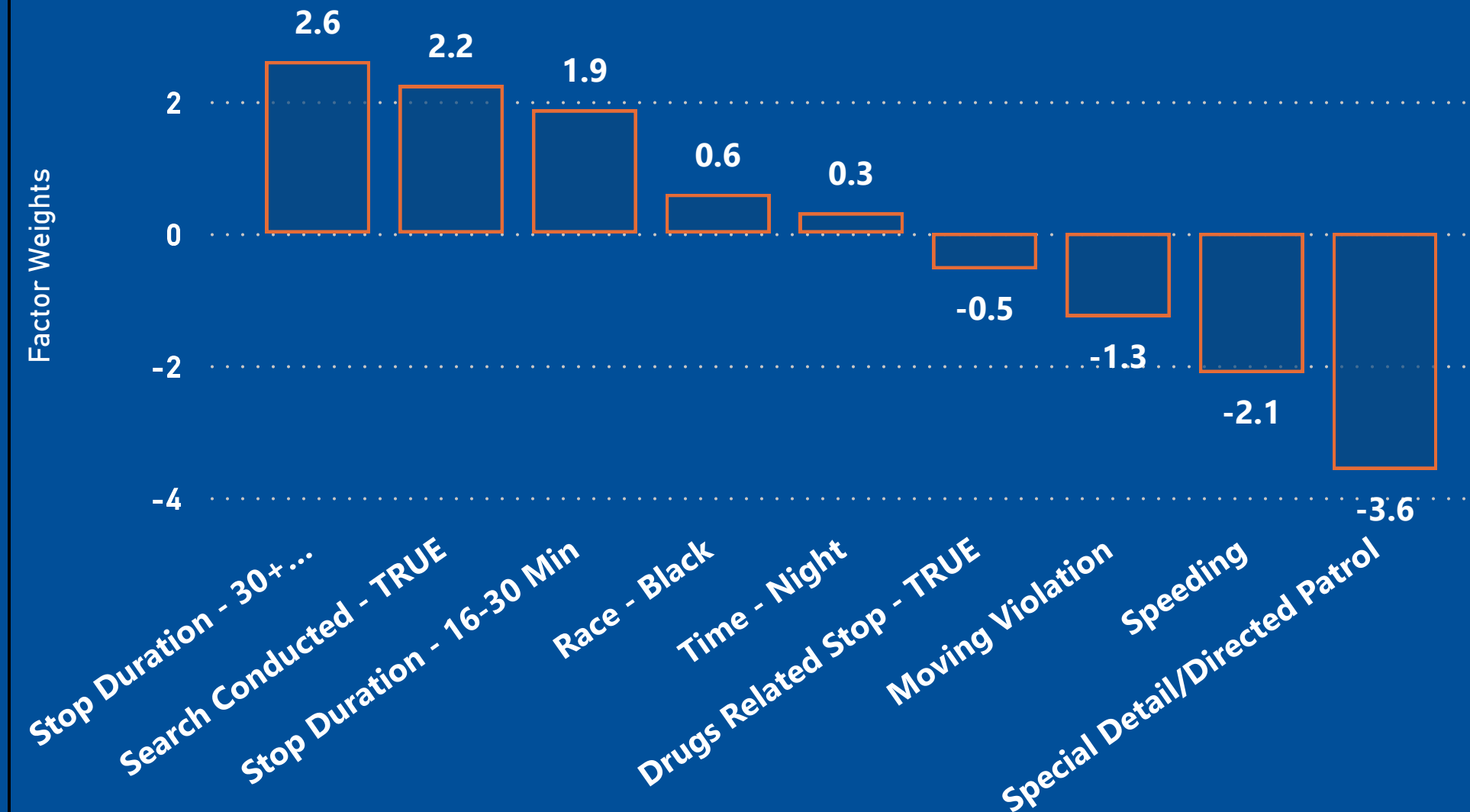
[Maryland Open](#)

[Portal](#)

Created by:

Kim Shellenberger

Likelihood of Arrest Predictive Model



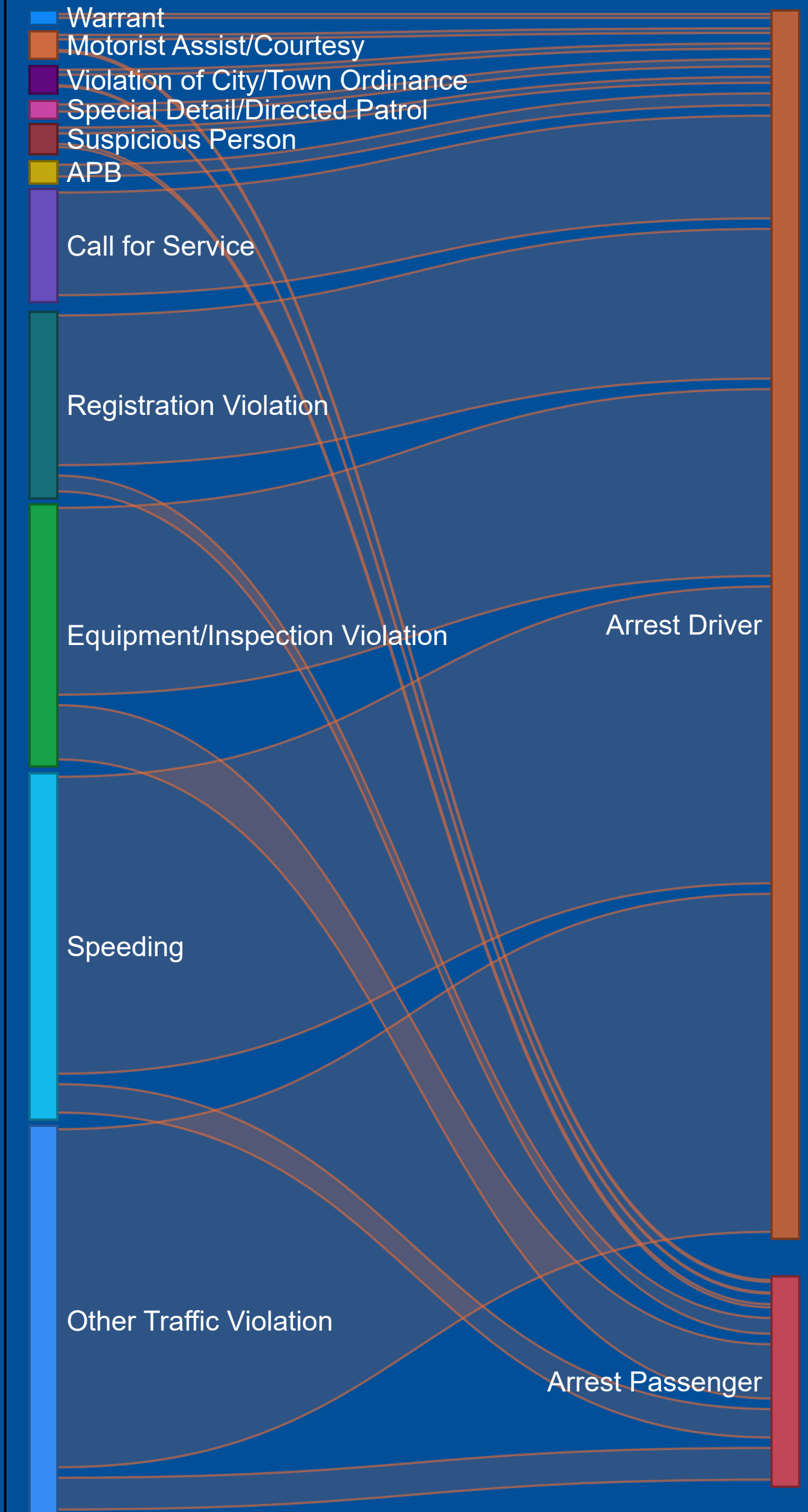
Arrest likelihood was modeled using a **logistic regression** and shows that a **long stop duration, a search being conducted, driver race being Black, and a stop occurring at night** are the **strongest predictors** of a traffic stop resulting in arrest.

Vehicles driven by **Hispanic or Black drivers** are more than twice as likely to be searched.

Passenger arrest is more likely during an **equipment/inspection violation**.

Driver Arrest is more likely in an **'other' traffic violation, speeding, and equipment/inspection violation**.

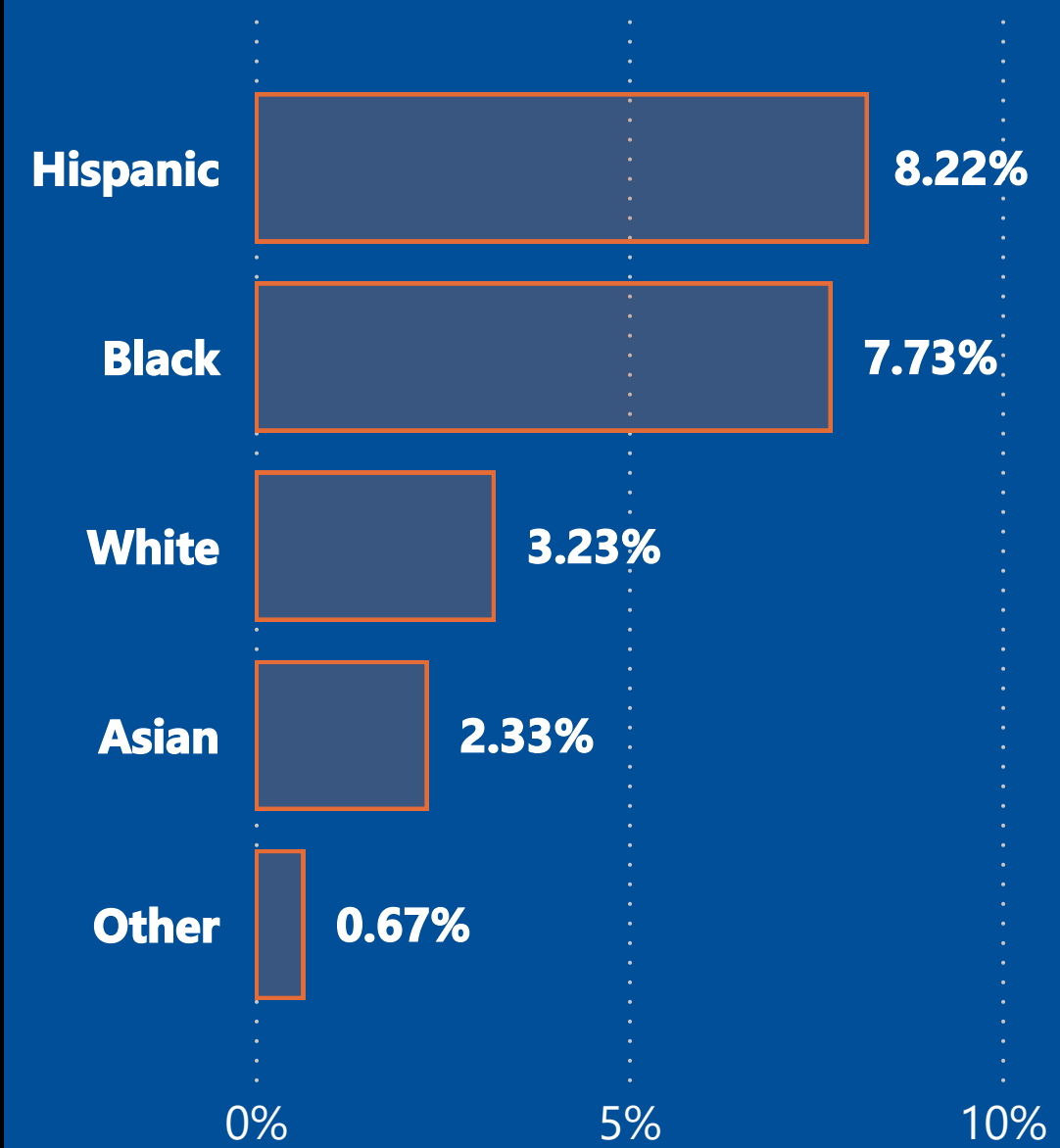
Arrest Breakdown by Violation Type



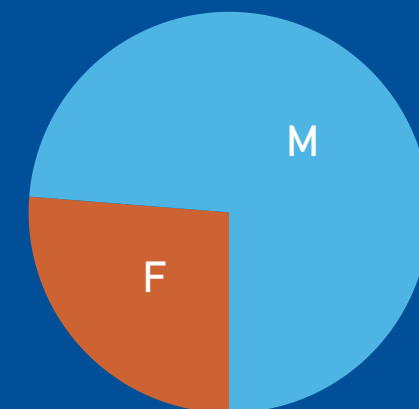
Total Arrests

1869

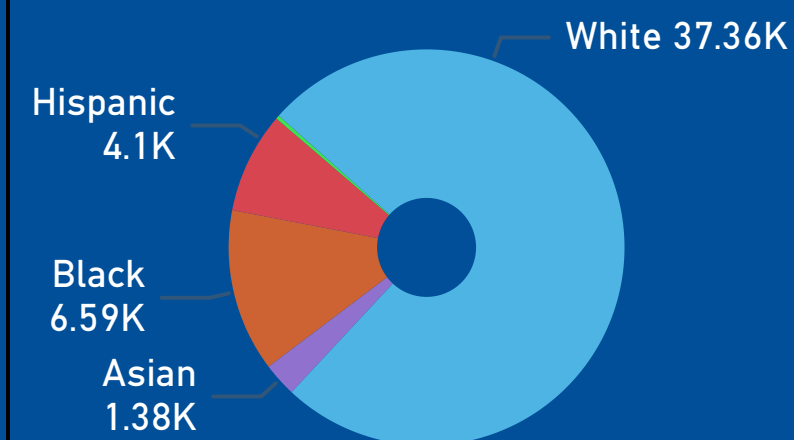
% Stops Resulting in Search / Race



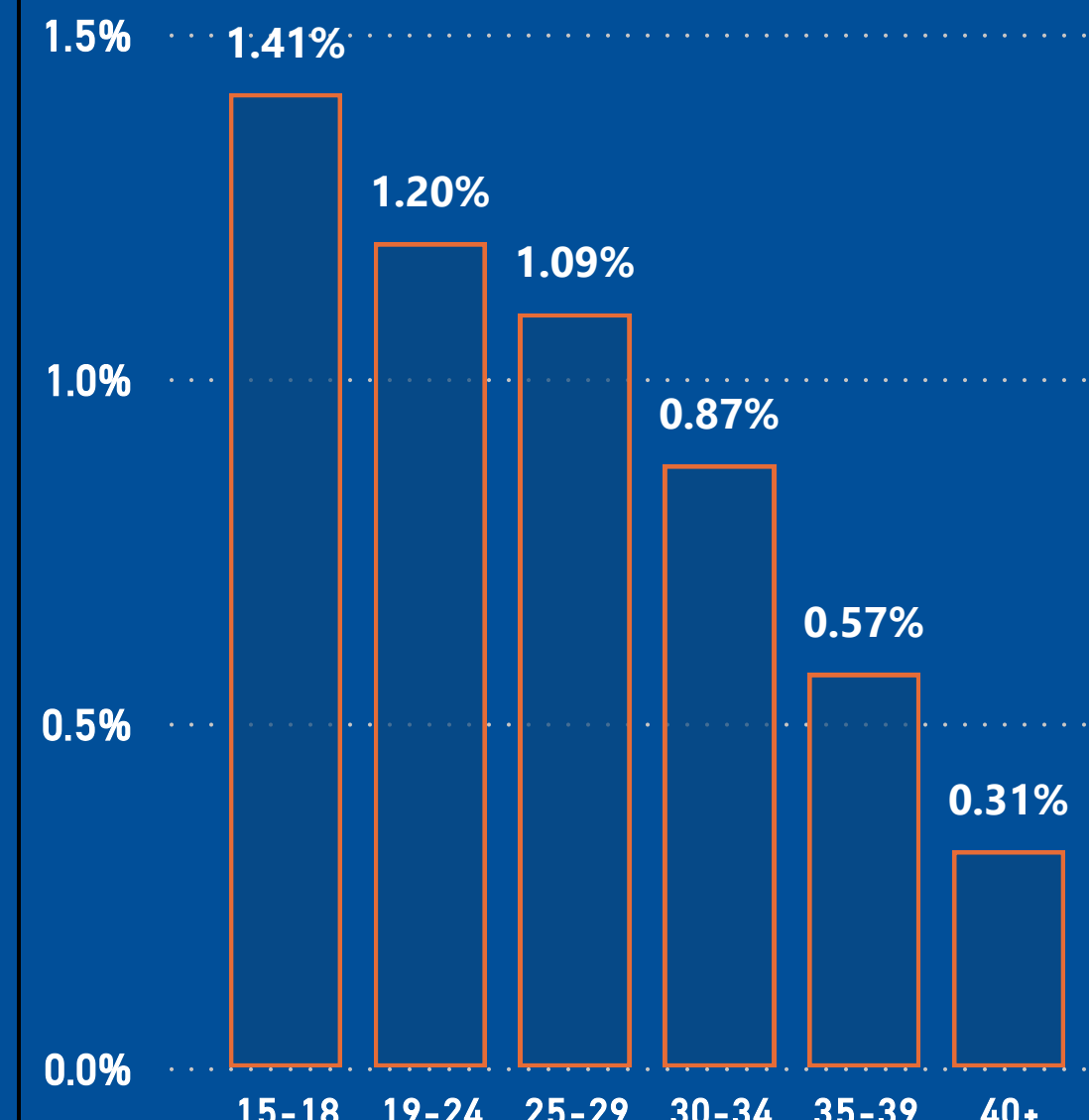
Traffic Stops by Gender



Traffic Stops by Race



% Drug Related Traffic Stops by Age



Total Searches Conducted

52.97K