Summary of Traffic Stops Statistics Charlotte-Mecklenburg Police Department

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This report compiles and presents statistical summaries of traffic stops statistics drawn from the NC State Bureau of Investigation database to which each police agency reports their statistics each month.¹ Data in this report cover the period of 2002 through 2020. The data exclude checkpoint stops because such stops are not recorded systematically. The data also include only the driver of the vehicle, excluding any passengers. Passenger information is generally recorded only in the event of an adverse outcome (e.g., search, arrest).²

This report provides the following summary statistics.³

First is a table providing summary statistics on numbers of stops, searches, contraband hits, and arrests, as well as relevant rates of these outcomes.

Second is a series of graphics as follows:

- 1. Number of stops
- 2. Percent of stops by race-gender category
- 3. Percent of stops for "safety" purposes (speeding, stop sign, DUI, unsafe movement)
- 4. Percent of stops resulting in a search, by race-gender category
- 5. Percent of stops resulting in arrest, by race-gender category
- 6. Percent of searches resulting in contraband, by race-gender category
- 7. Percent of searches resulting in contraband and arrest, by race-gender category
- 8. Percent of stops resulting in contraband and arrest, by race-gender category
- 9. Percent of consent searches resulting in contraband and arrest, by race-gender category
- 10. Percent of probable cause resulting in contraband and arrest, by race-gender category
- 11. Percent of contraband hits resulting in arrest, by race-gender category
- 12. Black-White Ratio of search rates, arrest rates, hit rates, and arrest rates per hit, for males

² For a copy of the SBI-122 form filled out by officers following a traffic stop, see: <u>http://fbaum.unc.edu/TrafficStops/SBI-122-form.pdf</u>.

¹ For more information about this database, see: <u>https://trafficstops.ncsbi.gov/</u>.

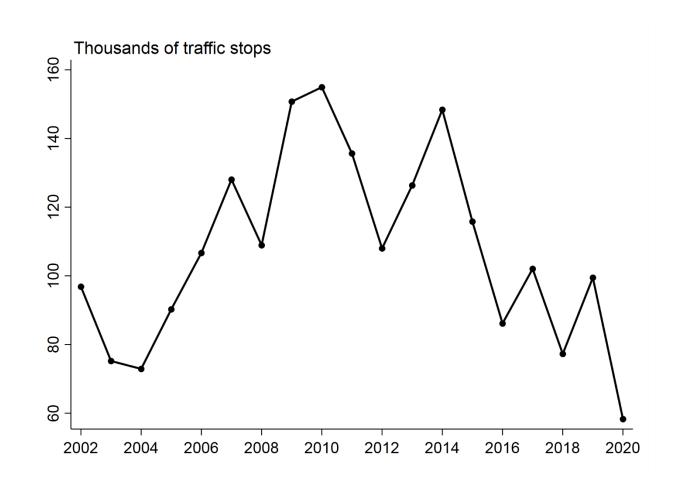
³ All of the data associated with this report is / will be made available at the following website:

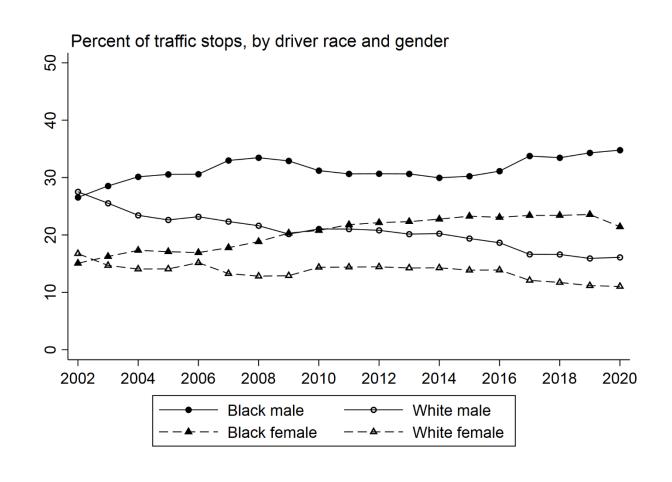
<u>http://fbaum.unc.edu/traffic.htm</u>. Summaries for every agency in North Carolina are available, and the data are presented at three levels of aggregation: All data for that agency; yearly; and monthly. This report uses the yearly data and provides graphical summaries. Percentages are calculated only if there are 100 observations in the relevant category; this avoids erratic findings based on small numbers of observations.

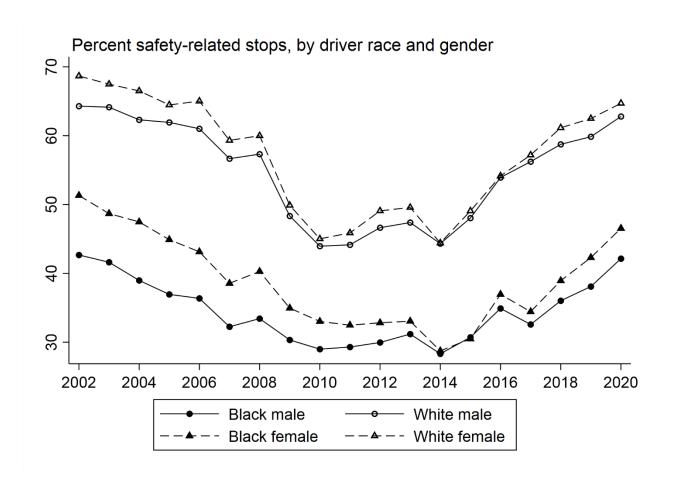
- 13. Black-White Ratio of search rates, arrest rates, hit rates, and arrest rates per hit, for females
- 14. Summary of stops over the year: Stops, percent safety-related, percent ending in citation, search, and arrest
- 15. Test of the "end of month quota" hypothesis. This compares outcomes for the last three days of the month compared to all other days of the month.
- 16. Summary of stops by hour over the week: Stops, percent safety-related, percent ending in citation, search, and arrest
- 17. Summary of stops by hour over the day: Stops, percent safety-related, percent ending in citation, search, and arrest
- 18. Hourly breakdown of percent of stops by race-gender category
- 19. Hourly breakdown of percent of stops related to traffic safety, by race-gender category
- 20. Hourly breakdown of percent of stops resulting in search, by race-gender category
- 21. Hourly breakdown of percent of stops resulting in arrest, by race-gender category

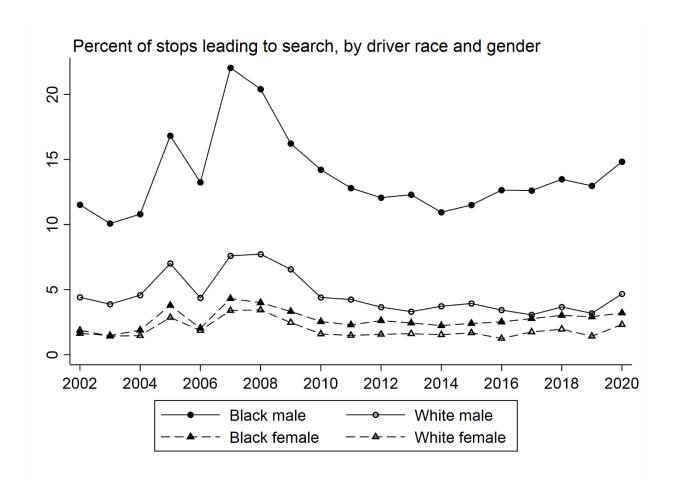
Summary of outcomes

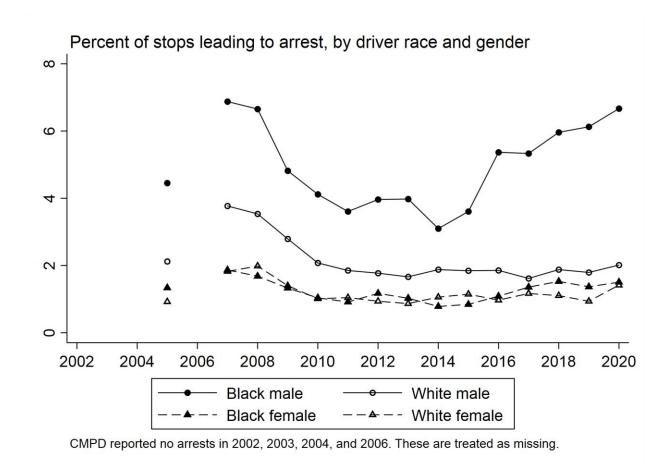
Category	State-wide	CMPD
Stops	24,980,776	2,041,842
Traffic Safety Stops	13,365,910	881,126
Searches	763,343	141,909
Hits	280,152	54,386
Arrests	500,040	47,433
Arrest From Hit From Search	105,784	19,154
Consent Searches	346,475	68,969
Arrest From Hit From Consent Search	20,759	3,316
Probable Cause Searches	264,963	48,193
Arrest From Hit From Probable Cause Search	54,326	11,169
Percent Traffic Safety Stops	53.50%	43.15%
Search Rate Per Stop	3.06%	6.95%
Hit Rate Per Search	33.48%	35.94%
Arrest Rate Per Hit	38.85%	35.51%
Hit-and-Arrest Rate Per Search	13.86%	13.50%
Hit-and-Arrest Rate Per Probable Cause Search	20.50%	23.18%
Hit-and-Arrest Rate Per Consent Search	5.99%	4.81%
Arrest Rate Per Stop	2.00%	2.32%
Hit-and-Arrest Rate Per Stop	0.42%	0.94%

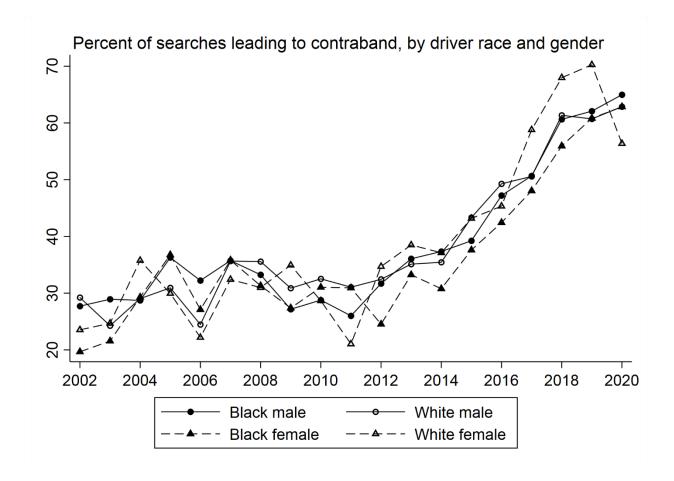


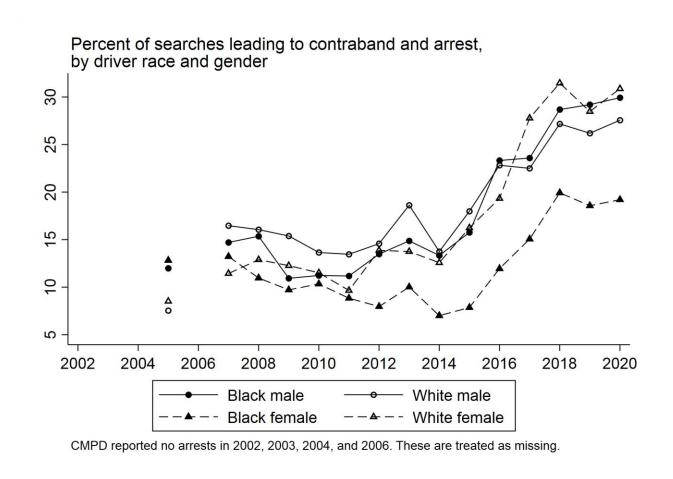


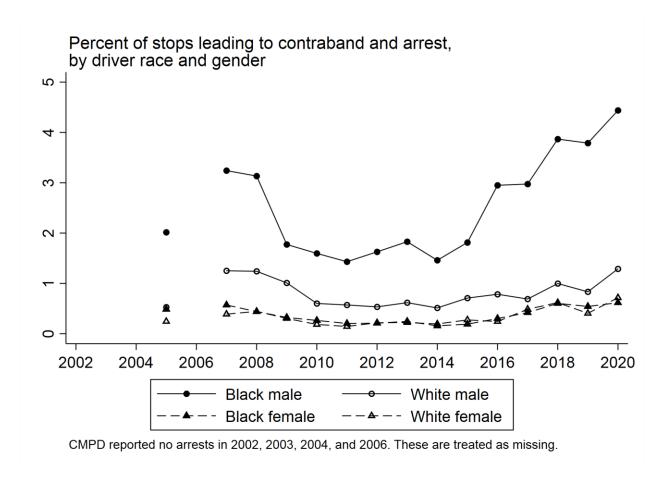


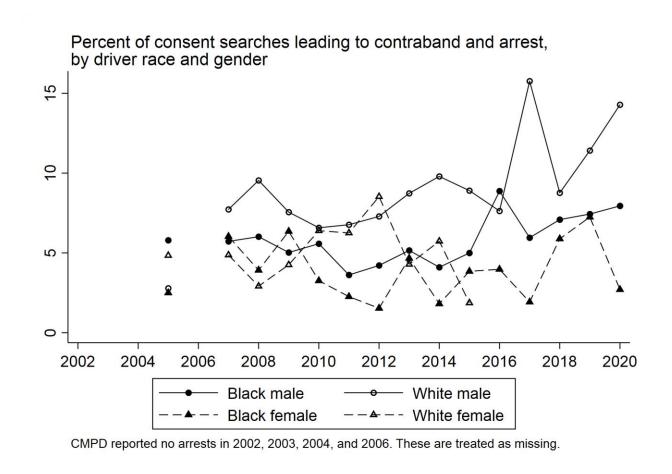


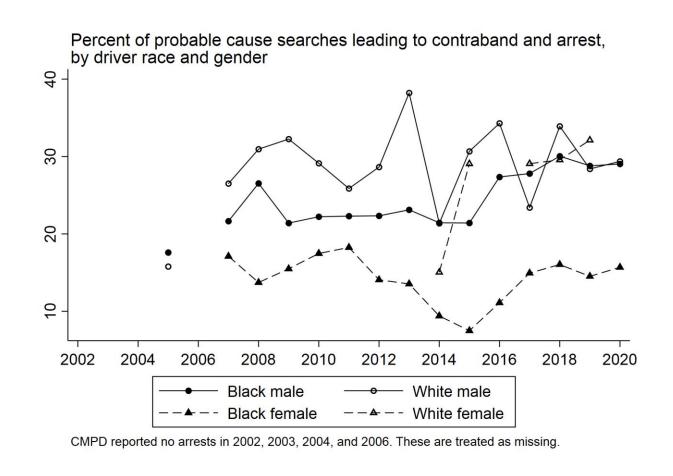


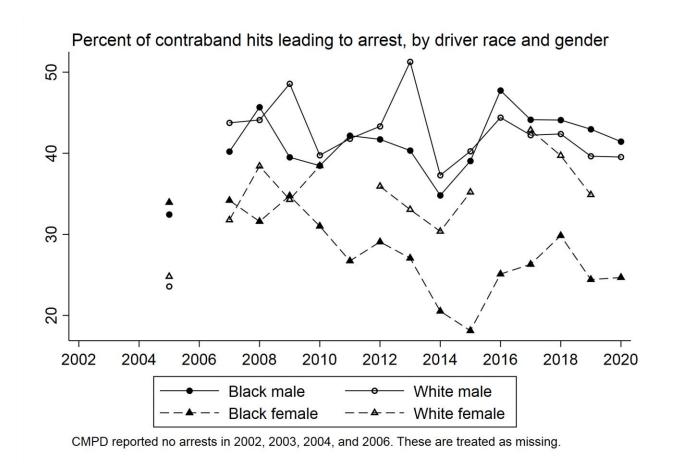


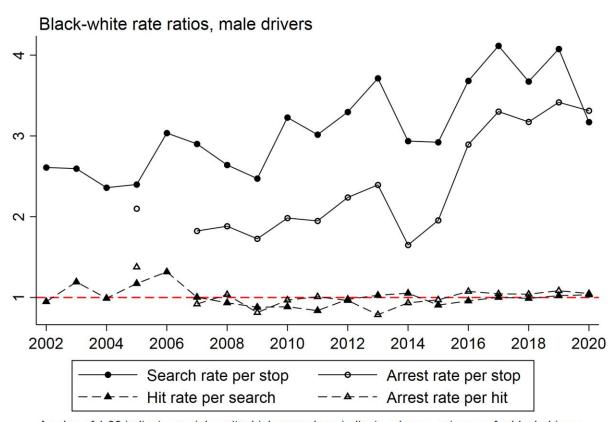




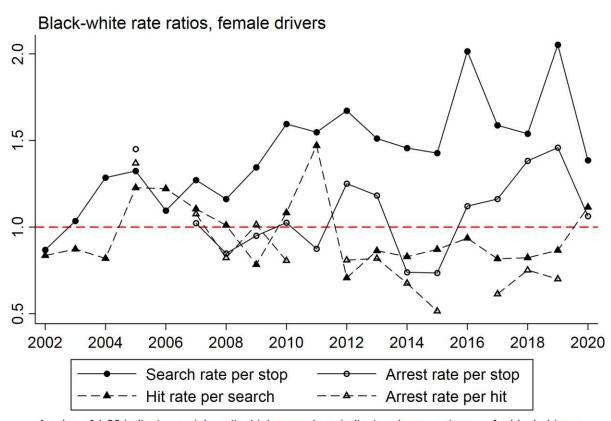




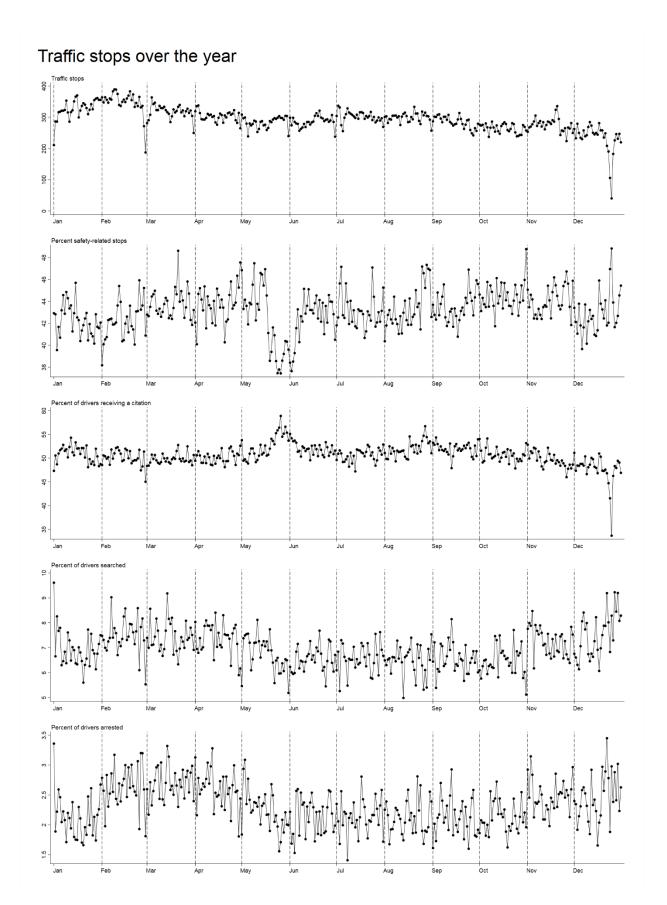


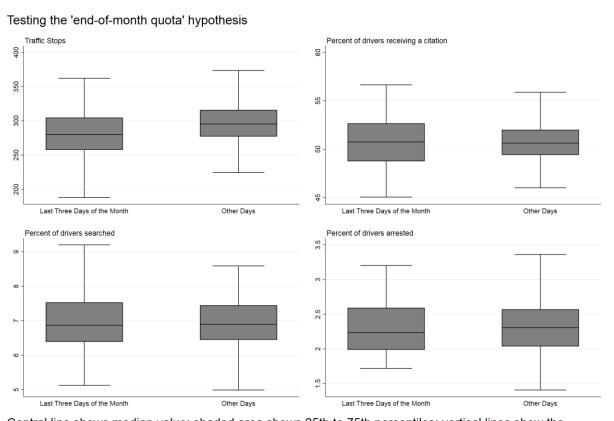


A value of 1.00 indicates racial equity; higher numbers indicate adverse outcomes for black drivers.



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Central line shows median value; shaded area shows 25th to 75th percentiles; vertical lines show the range of contiguous values. None of the four comparisons shows a significant difference, state-wide.

CMPD

