

Analysis of Hispanic-White Differences in Traffic Stops and Searches in Goldsboro, NC, 2002-2013

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Table 1. Overview of the Data

Data Subsets	Observations
Total stops	95,691
-2014	2,407
-Passengers	1,865
-Checkpoint stops	2,991
Stops for analysis	88,835
Searches	3,562

Search Rate = 4.01

Figure 1. Number of Traffic Stops per Year

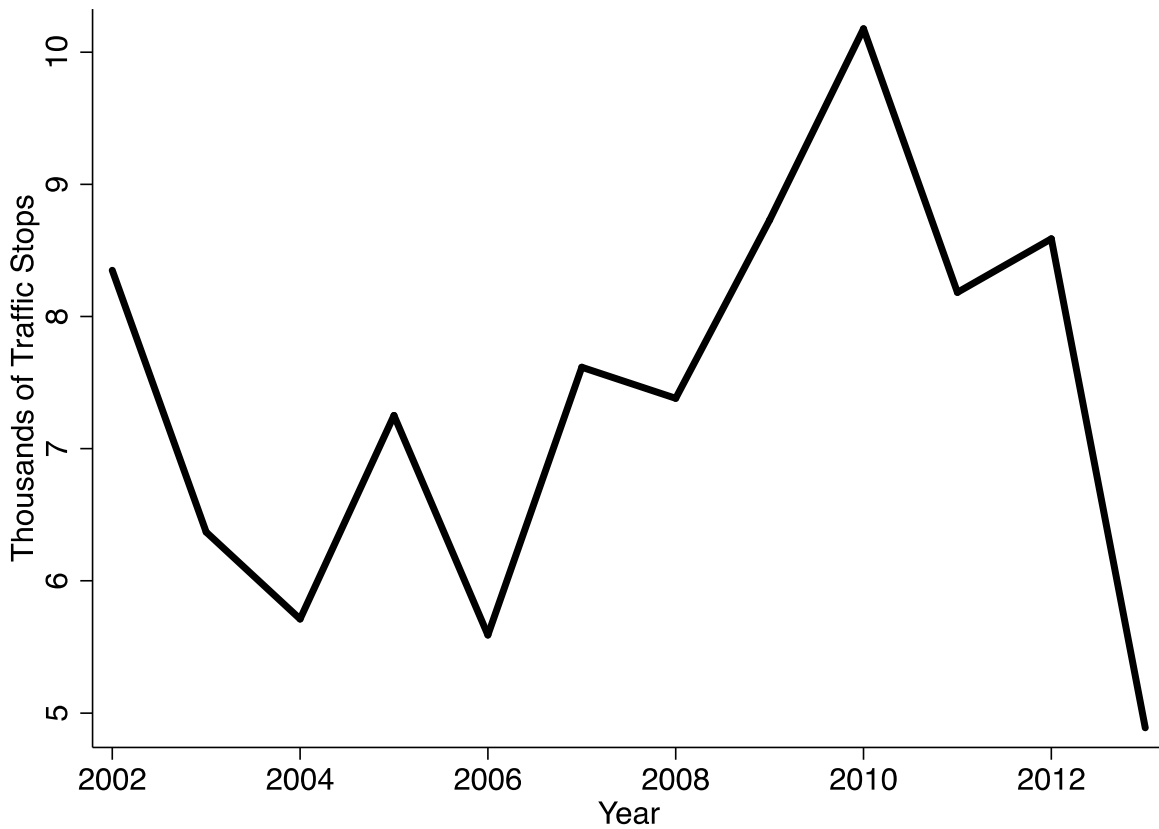


Figure 2. Ethnic Composition of Traffic Stops by Year

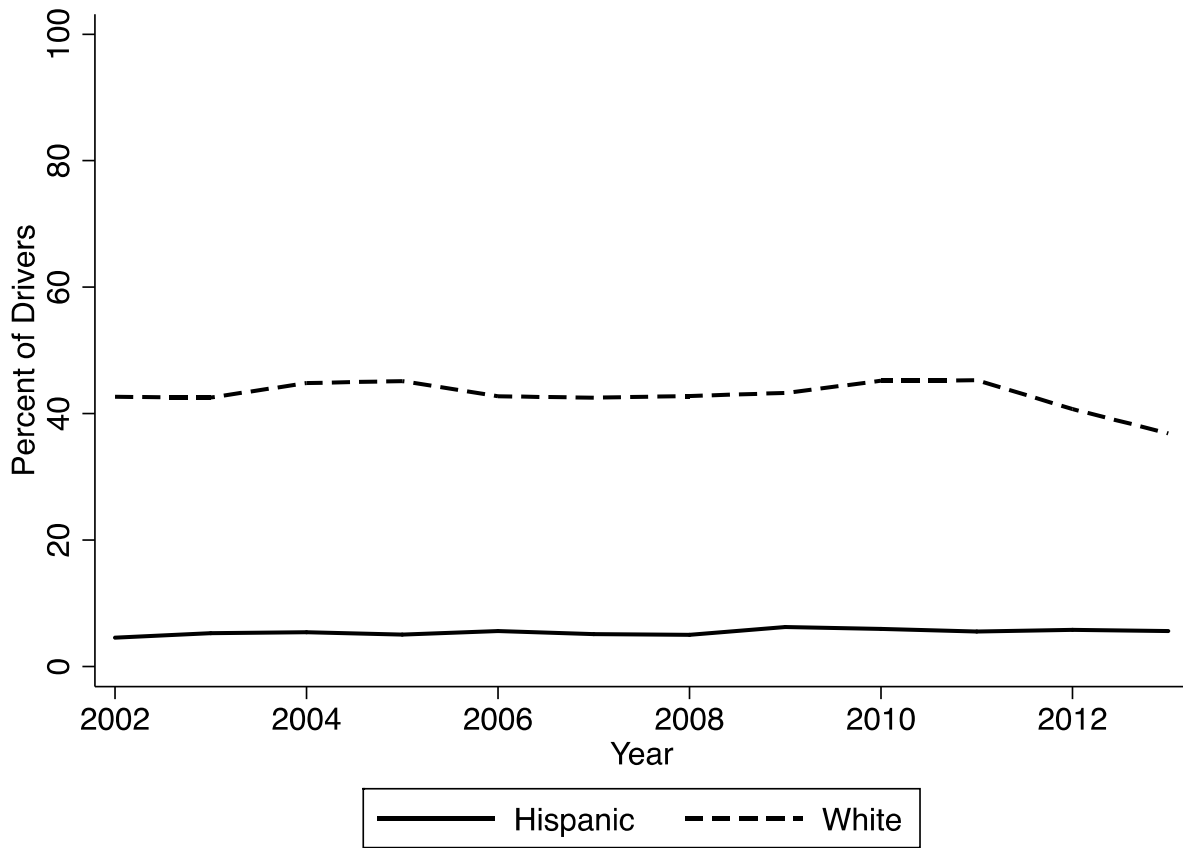


Table 2. Ethnic Composition of Traffic Stops by Purpose, Drivers

Purpose	Number	Percent	
		White	Hispanic
Total Stops	88,835	45.58	5.46
Speed Limit	35,647	49.64	5.66
Stop Light/Sign	4,879	42.45	5.80
Driving Impaired	1,442	49.26	11.44
Safe Movement	4,180	46.03	6.87
Vehicle Equipment	8,409	33.00	4.84
Vehicle Regulatory	15,183	44.21	4.28
Seat Belt	9,838	51.01	3.27
Investigation	4,984	37.87	7.02
Other Vehicle	4,273	39.47	7.56

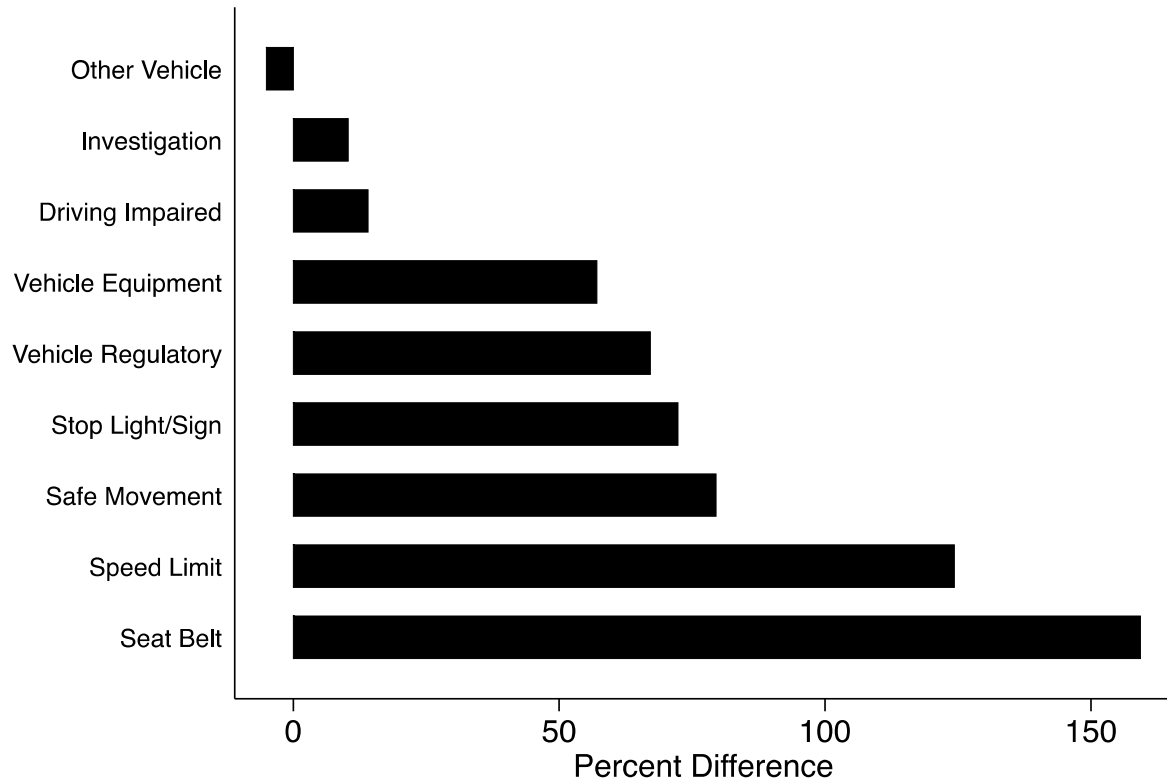
Note: Includes only drivers. Excludes 2,991 checkpoint stops. Excludes 1,865 passengers.

Table 3. Percent Searched by Ethnicity and Purpose of Stop

Purpose	Number	% Total	% White	% His.	Ratio
					Hispanic:White
Total Stops	88,835	-	45.58	5.46	-
Total Searches	3,562	4.01	2.71	5.16	1.90
Speed Limit	35,647	2.13	1.41	3.17	2.25
Stop Light/Sign	4,879	3.48	1.85	3.18	1.72
Driving Impaired	1,442	21.71	21.78	24.85	1.14
Safe Movement	4,180	6.10	4.46	8.01	1.80
Vehicle Equipment	8,409	5.47	3.60	5.65	1.57
Vehicle Regulatory	15,183	3.47	2.12	3.54	1.67
Seat Belt	9,838	1.74	1.16	3.01	2.59
Investigation	4,984	13.52	11.40	12.57	1.10
Other Vehicle	4,273	5.41	3.91	3.72	0.95

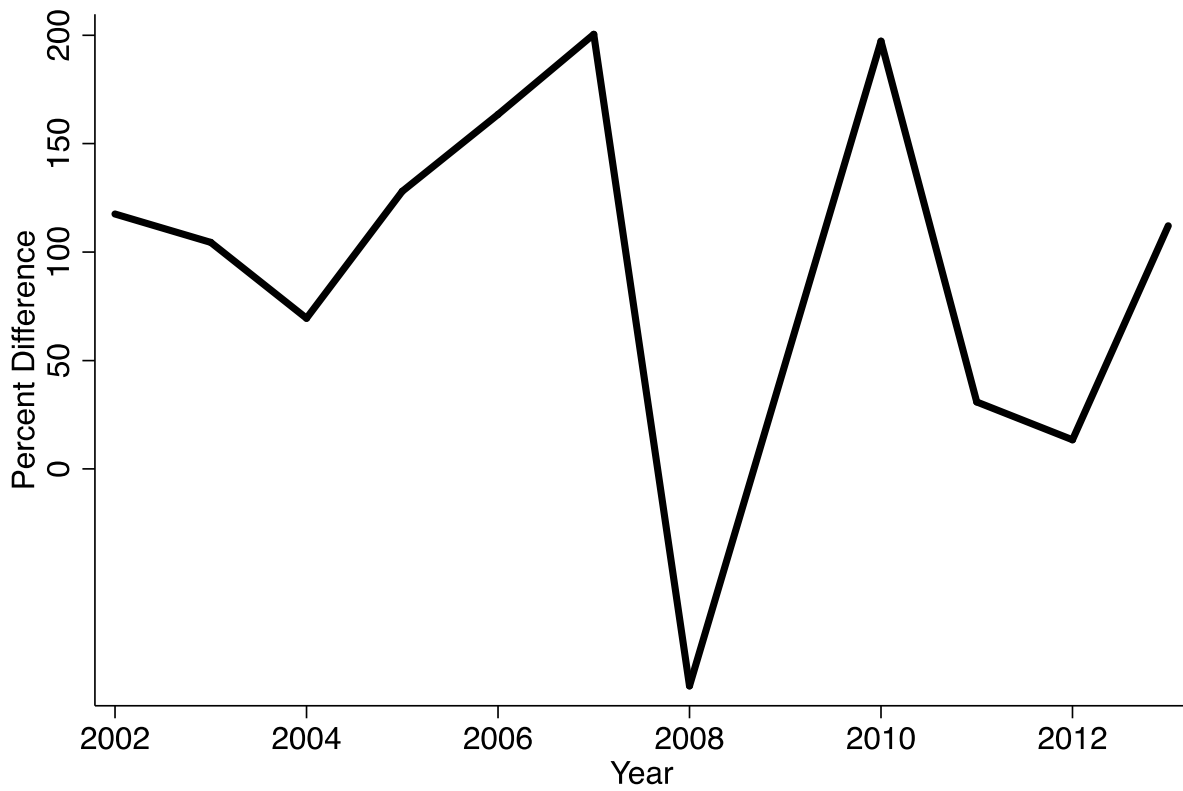
Note: See the appendix for this same table broken down for Men and Women.

Figure 3. Difference in Likelihood of Being Searched, by Ethnicity and Type of Stop



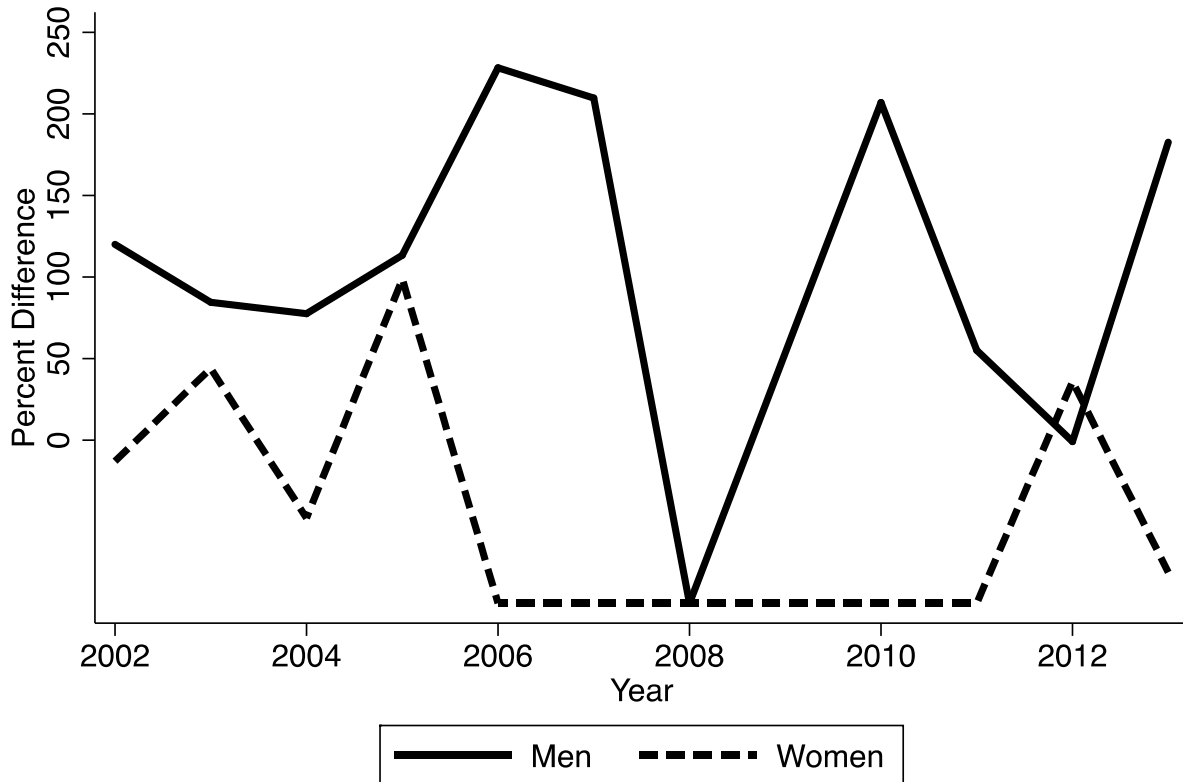
The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites by purpose of stop.

Figure 4. Ethnic Differences in the Likelihood of Search



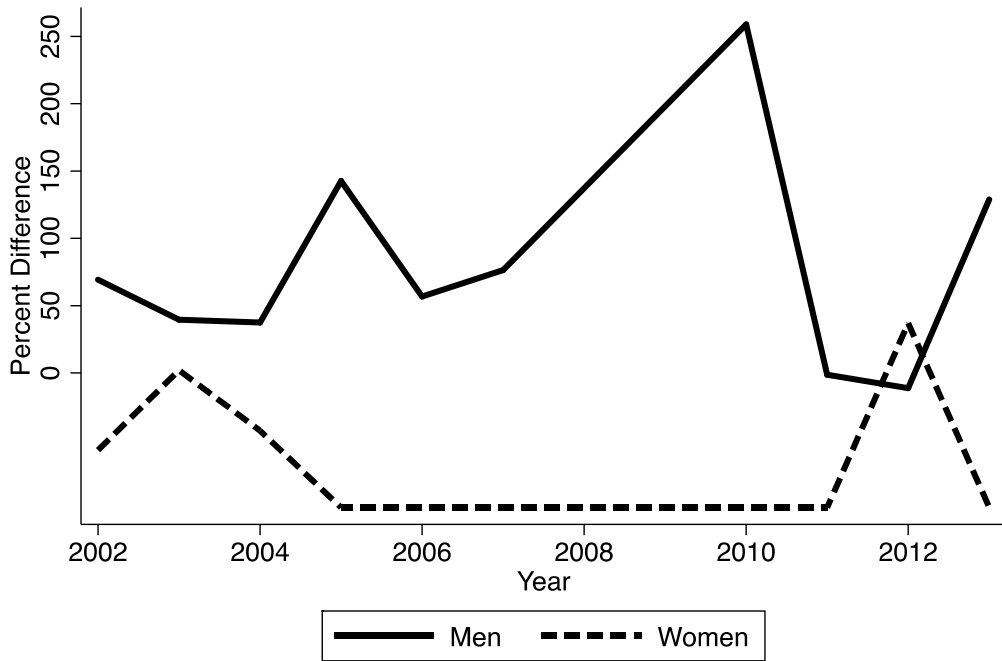
The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites.

Figure 5. Ethnic Differences in the Likelihood of Search by Gender



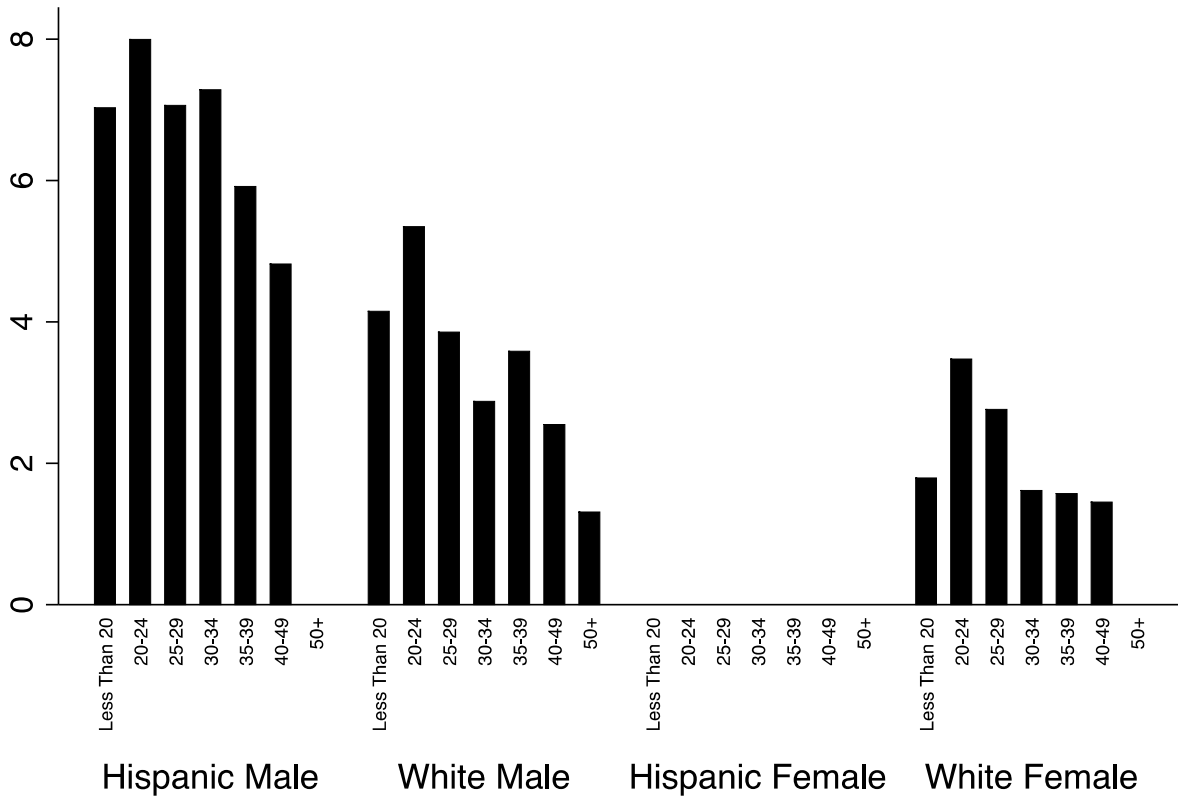
The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites by gender.

Figure 6. Ethnic Differences in the Likelihood of Search by Gender, for Drivers Under 30



The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites by gender for motorists under 30.

Figure 7. Search Rates by Ethnicity, Gender, and Age Group



Based on 88,835 traffic stops from 2002 through 2013, and 3,562 searches. Overall rate of search: 4.01 percent. No data are presented for categories with fewer than 10 searches.

Figure 8. Number of Stops, by Ethnicity and Gender

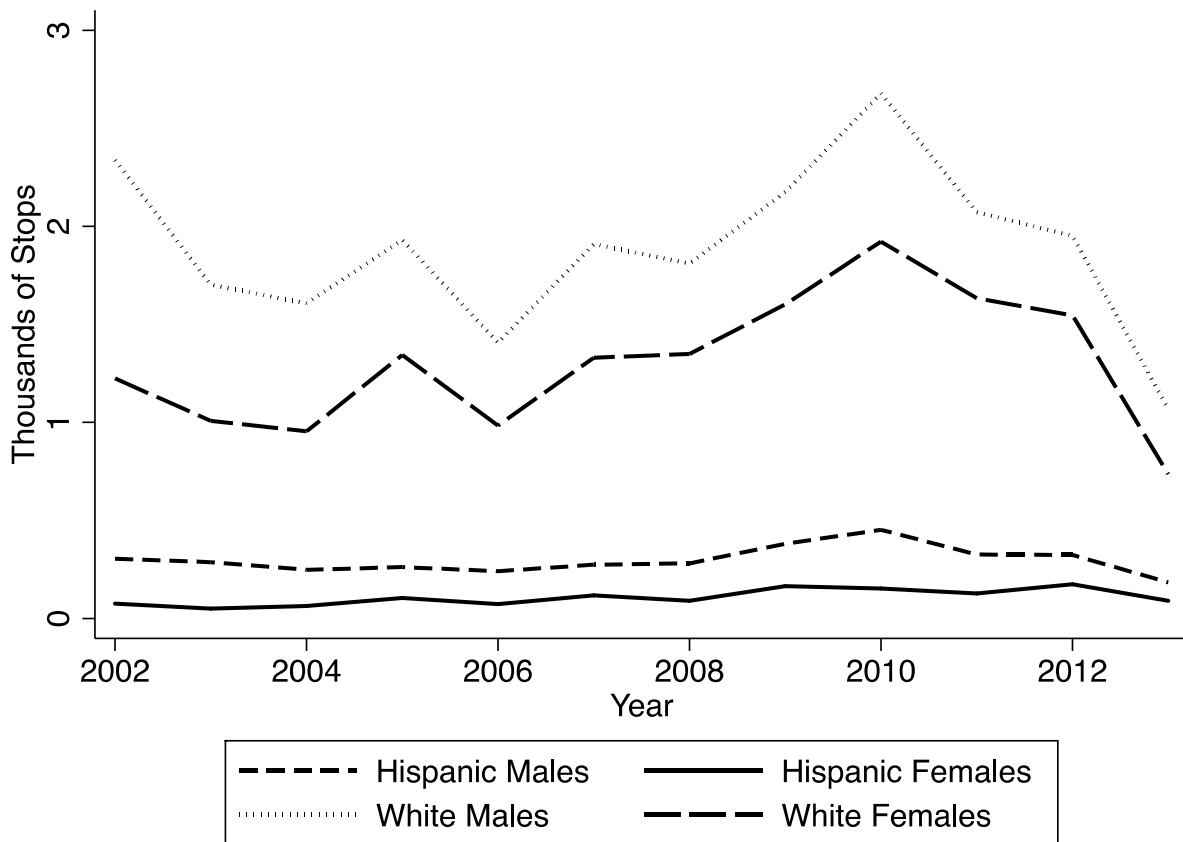


Figure 9. Percent of Stops Resulting in a Search, by Ethnicity and Gender

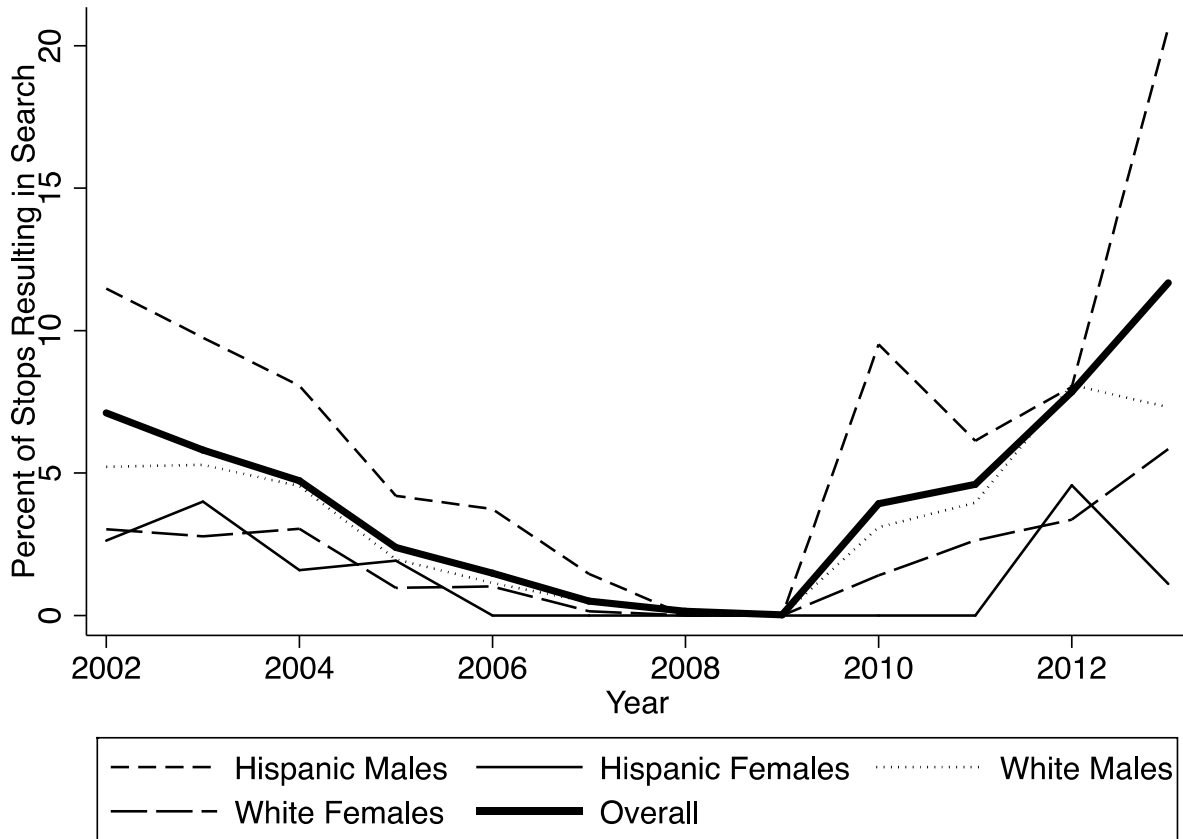


Table 4. Type of Search by Ethnicity

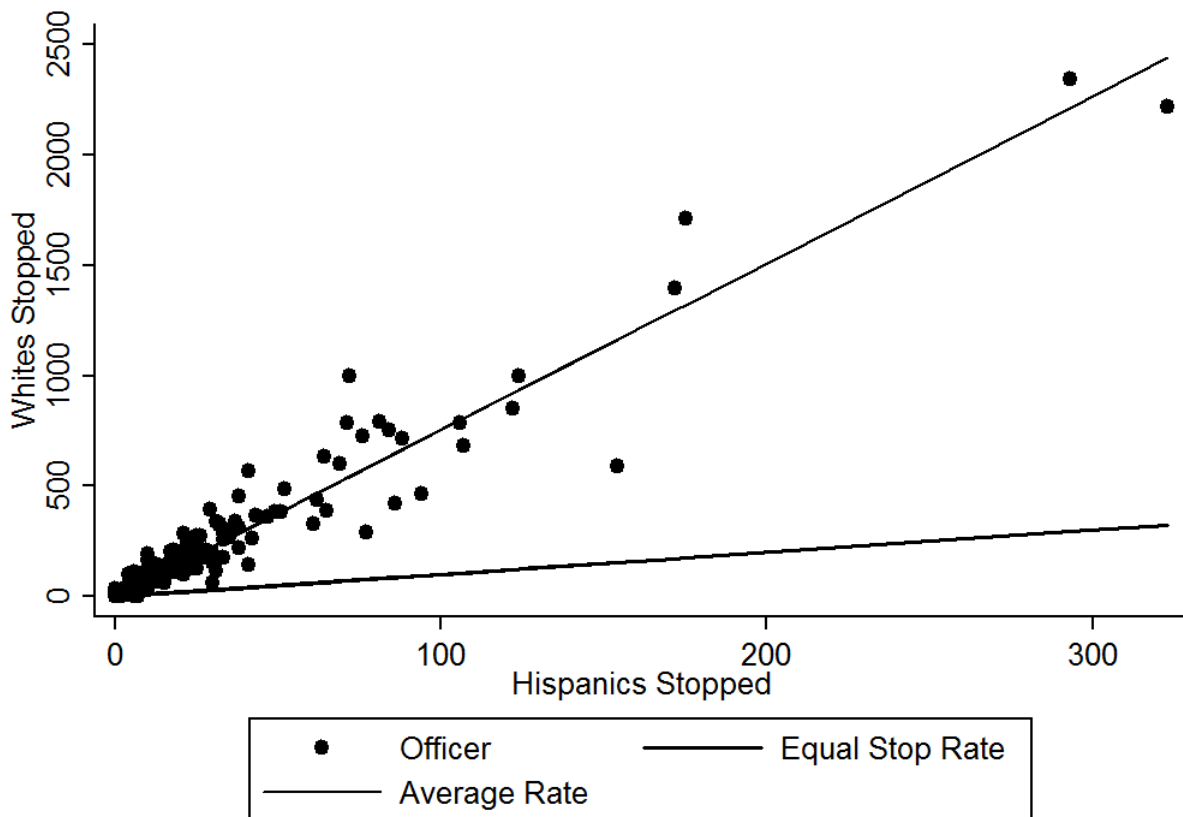
Search Type	Number	% Total	% White	% Hispanic	Ratio
					Hispanic:White
Total Stops	88,835	-	45.58	5.46	-
Total Searches	3,562	4.01	2.71	5.16	1.90
Consent	934	1.05	0.82	1.24	1.51
Search Warrant	20	0.02	0.02	0.02	1.00
Probable Cause	1,496	1.65	1.02	1.86	1.82
Incident to Arrest	1,043	1.17	0.79	1.98	2.51
Protective Frisk	96	0.11	0.06	0.06	1.00

Note: See the appendix for this same table separately for Men and Women.

Table 5. Distribution of Officer IDs by Stop

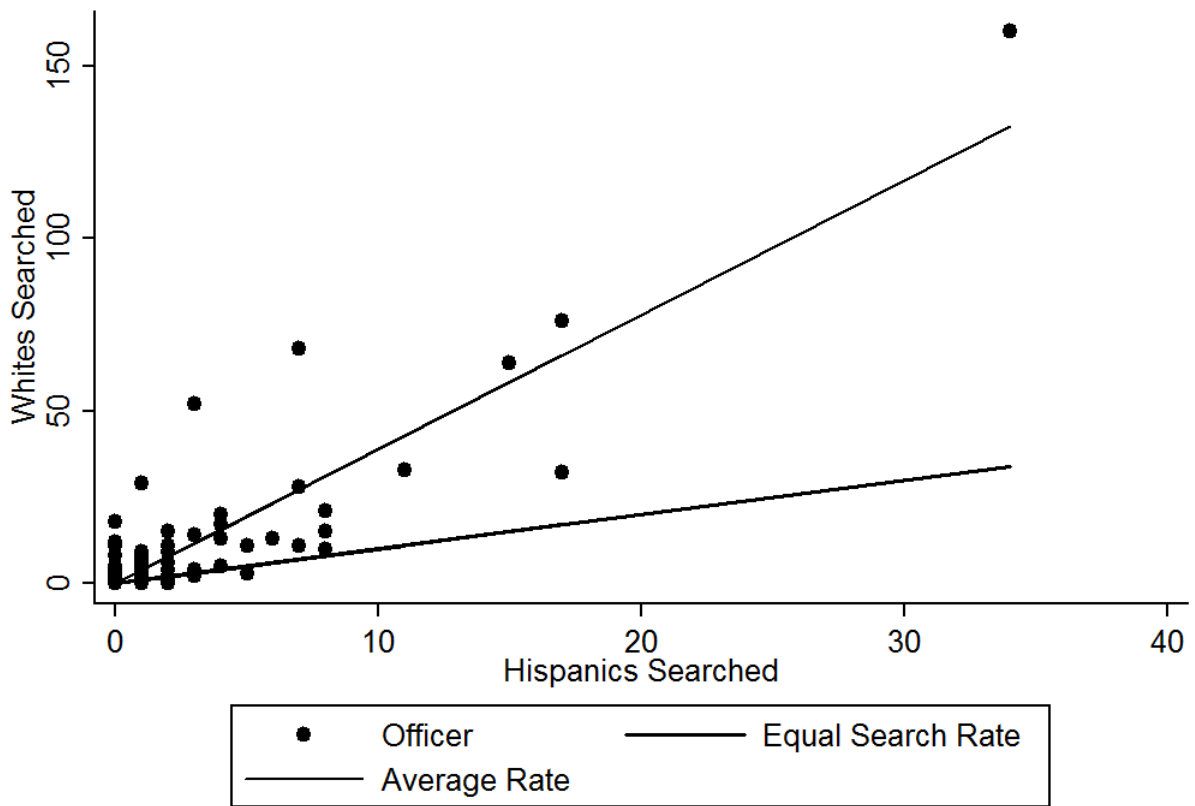
Number of Stops	Officers w/ this many Stops	Percent of Officers	Cumulative Percent	Percent of Stops	Cumulative Percent
1	123	28.28	28.28	0.14	0.14
2 – 10	114	26.21	54.48	0.60	0.74
11 - 100	74	17.01	71.49	3.07	3.81
101 – 1,000	102	23.45	94.94	47.14	50.95
1,001 +	22	5.06	100.00	49.05	100.00
Total	435	100	-	100	-

Figure 10. Number of Hispanic and White Motorists Stopped, by Officer



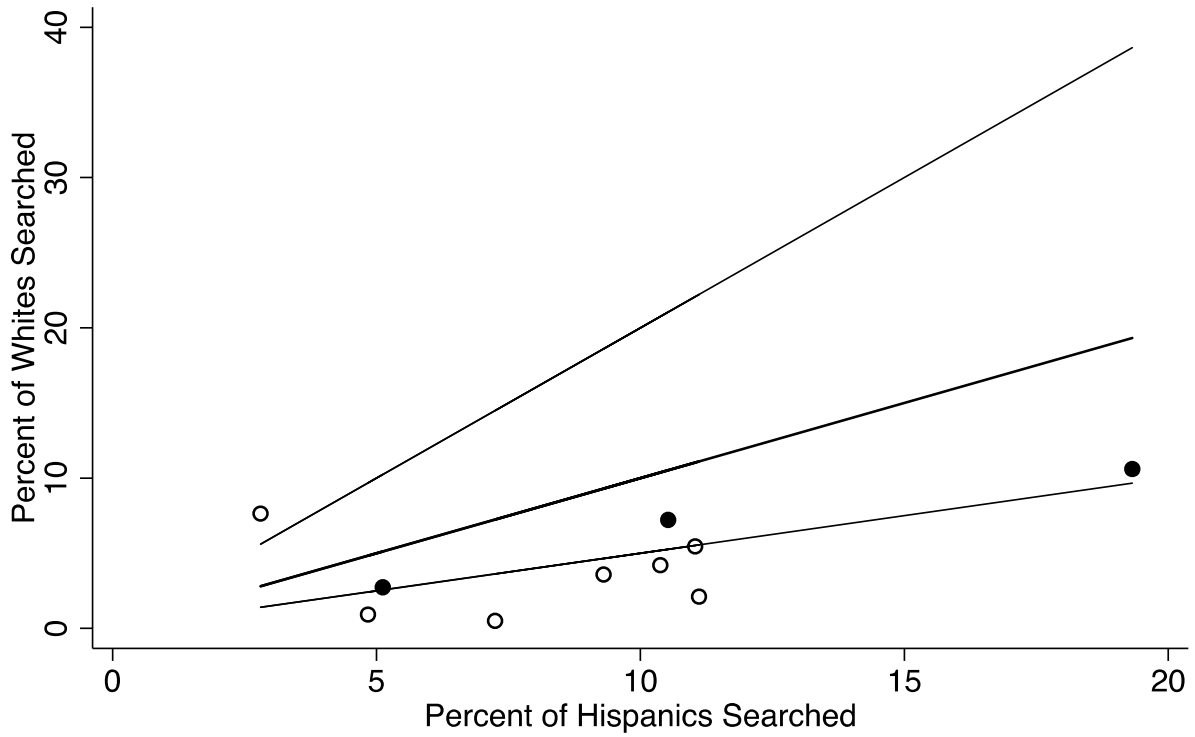
On average, officers stop 7.55 Whites for each Hispanic stopped.

Figure 11. Number of Hispanic and White Motorists Searched, by Officer



On average, officers search 3.90 Whites for each Hispanic searched.

Figure 12. Percent of White and Hispanic Drivers Searched, by Officer



Includes 10 officers with a minimum of 50 White stops, 50 Hispanic stops, and a search rate above the department average of 4.01 for either ethnicity. The hollow circles indicate high disparity officers. 1 officer searches Whites at more than twice the rate that he or she searches Hispanics. 6 officers search Hispanics at more than twice the rate that they search Whites.

Appendix

Table A1. Ethnic Composition of Traffic Stops by Purpose, Passengers

Purpose	Number	Percent	
		White	Hispanic
Total Stops	1,766	24.61	5.44
Speed Limit	286	27.37	4.20
Stop Light/Sign	100	19.59	3.00
Driving Impaired	106	48.89	15.09
Safe Movement	77	18.06	6.49
Vehicle Equipment	294	17.54	3.06
Vehicle Regulatory	276	21.32	6.52
Seat Belt	103	32.63	7.77
Investigation	371	24.51	4.31
Other Vehicle	153	25.69	5.88

Table A2. Percent of Men Searched by Ethnicity and Purpose of Stop

Purpose	Number	% Total	% White	% Hispanic	Ratio
					Hispanic:White
Total Stops	52,981	-	45.83	6.73	-
Total Searches	2,856	5.39	3.33	6.56	1.97
Speed Limit	19,219	3.08	1.74	4.17	2.40
Stop Light/Sign	2,914	4.87	2.57	3.86	1.50
Driving Impaired	1,131	23.25	23.21	25.66	1.11
Safe Movement	2,671	7.60	5.45	9.72	1.78
Vehicle Equipment	5,405	6.90	4.20	7.01	1.67
Vehicle Regulatory	8,484	4.71	2.70	4.57	1.69
Seat Belt	6,716	2.10	1.23	3.74	3.04
Investigation	3,619	15.28	11.92	14.98	1.26
Other Vehicle	2,822	6.73	4.79	4.49	0.94

Table A3. Percent of Women Searched by Ethnicity and Purpose of Stop

Purpose	Number	% Total	% White	% Hispanic	Ratio
					Hispanic:White
Total Stops	35,845	-	45.22	3.58	-
Total Searches	706	1.97	1.82	1.25	0.69
Speed Limit	16,428	1.03	1.02	0.96	0.94
Stop Light/Sign	1,965	1.42	0.77	1.32	1.71
Driving Impaired	311	16.08	17.86	15.38	0.86
Safe Movement	1,509	3.45	2.89	2.82	0.98
Vehicle Equipment	3,004	2.90	2.56	1.08	0.42
Vehicle Regulatory	6,699	1.90	1.43	1.05	0.73
Seat Belt	3,122	0.96	0.98	-	-
Investigation	1,365	8.86	10.27	1.59	0.15
Other Vehicle	1,451	2.83	2.33	1.28	0.55

Table A4. Type of Search by Ethnicity: Men

Search Type	Number	% Total	% White	% Hispanic	Ratio Hispanic:White
Total Stops	52,981	-	45.83	6.73	-
Total Searches	2,856	5.39	3.33	6.56	1.97
Consent	751	1.42	0.97	1.51	1.56
Search Warrant	17	0.03	0.02	0.03	1.50
Probable Cause	1,173	2.21	1.25	2.30	1.84
Incident to Arrest	848	1.60	1.02	2.64	2.59
Protective Frisk	67	0.13	0.07	0.08	1.14

Table A5. Type of Search by Ethnicity: Women

Search Type	Number	% Total	% White	% Hispanic	Ratio Hispanic:White
Total Stops	35,845	-	45.22	3.58	-
Total Searches	706	1.97	1.82	1.25	0.69
Consent	183	0.51	0.59	0.47	0.80
Search Warrant	3	0.01	0.01	-	-
Probable Cause	296	0.83	0.70	0.62	0.89
Incident to Arrest	195	0.54	0.47	0.16	0.34
Protective Frisk	29	0.08	0.05	-	-

Figure A1. Stops by Day of the Week

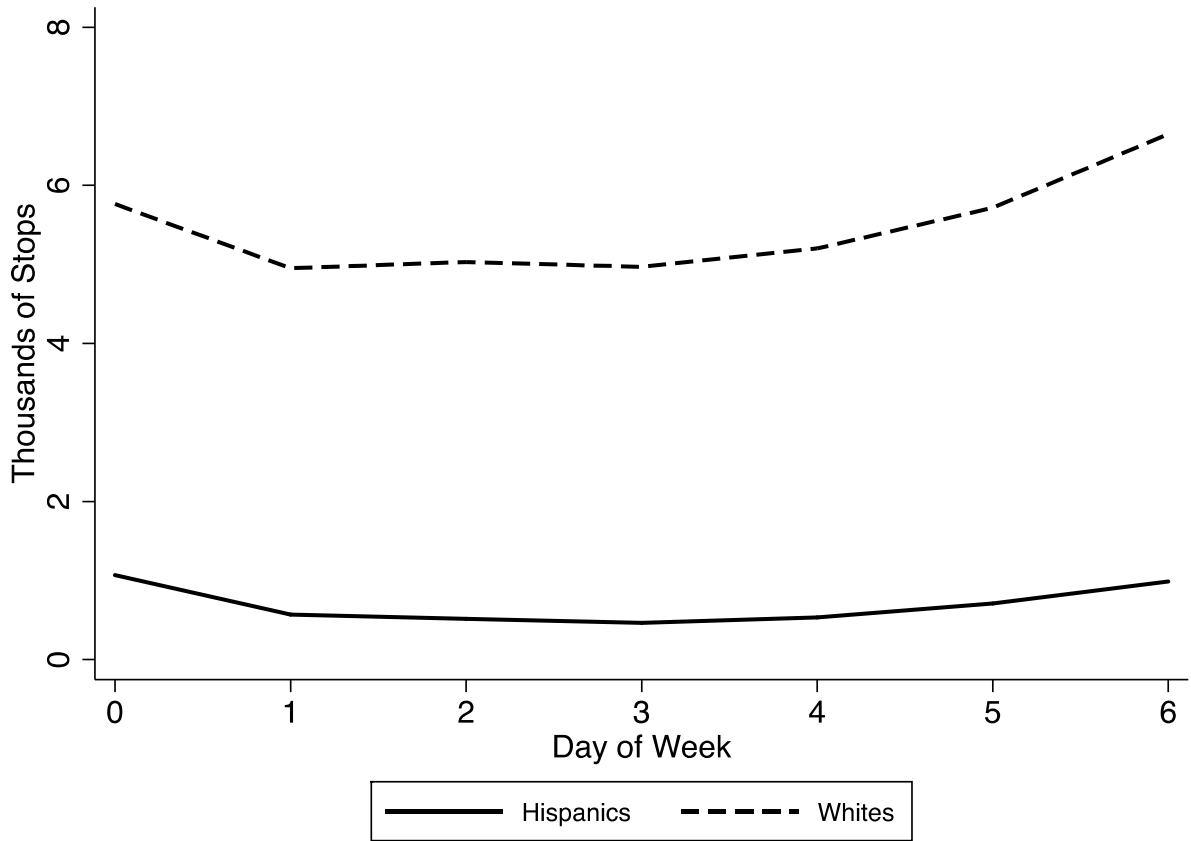


Figure A2. Searches by Day of the Week

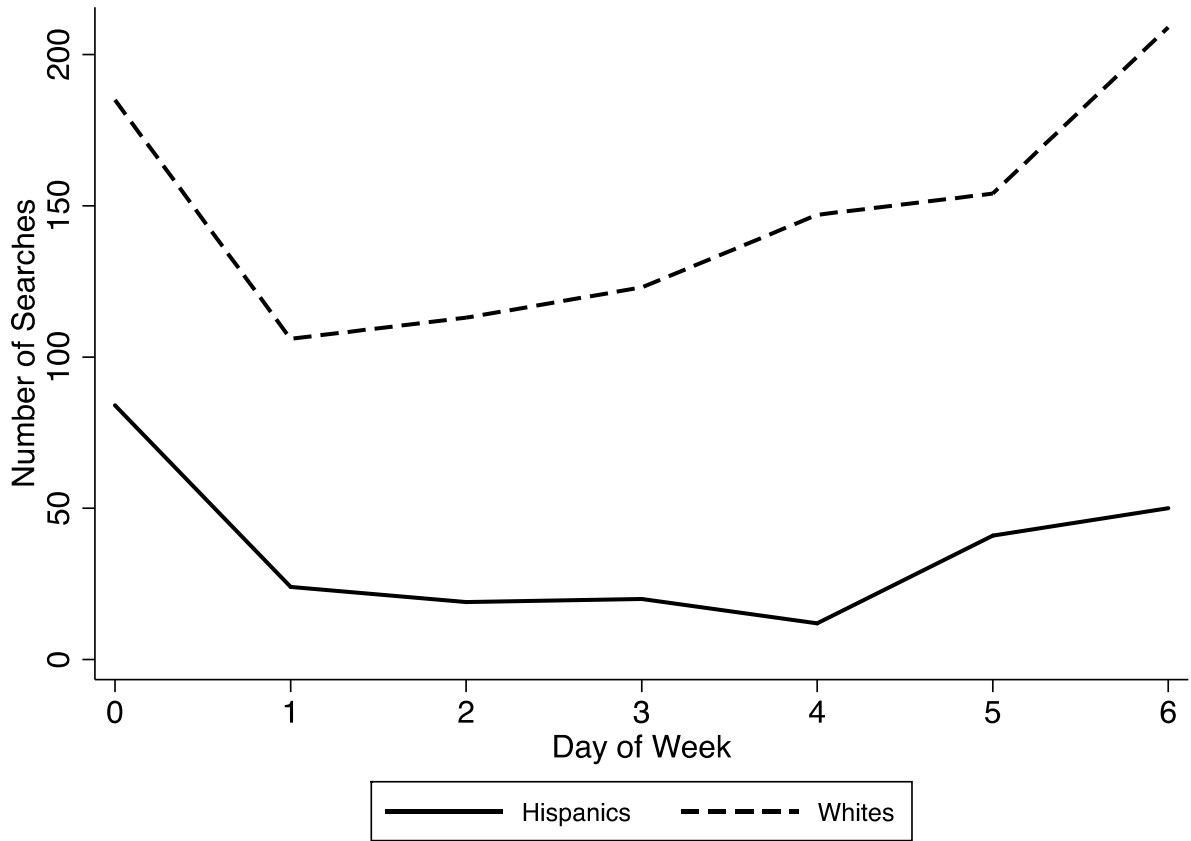
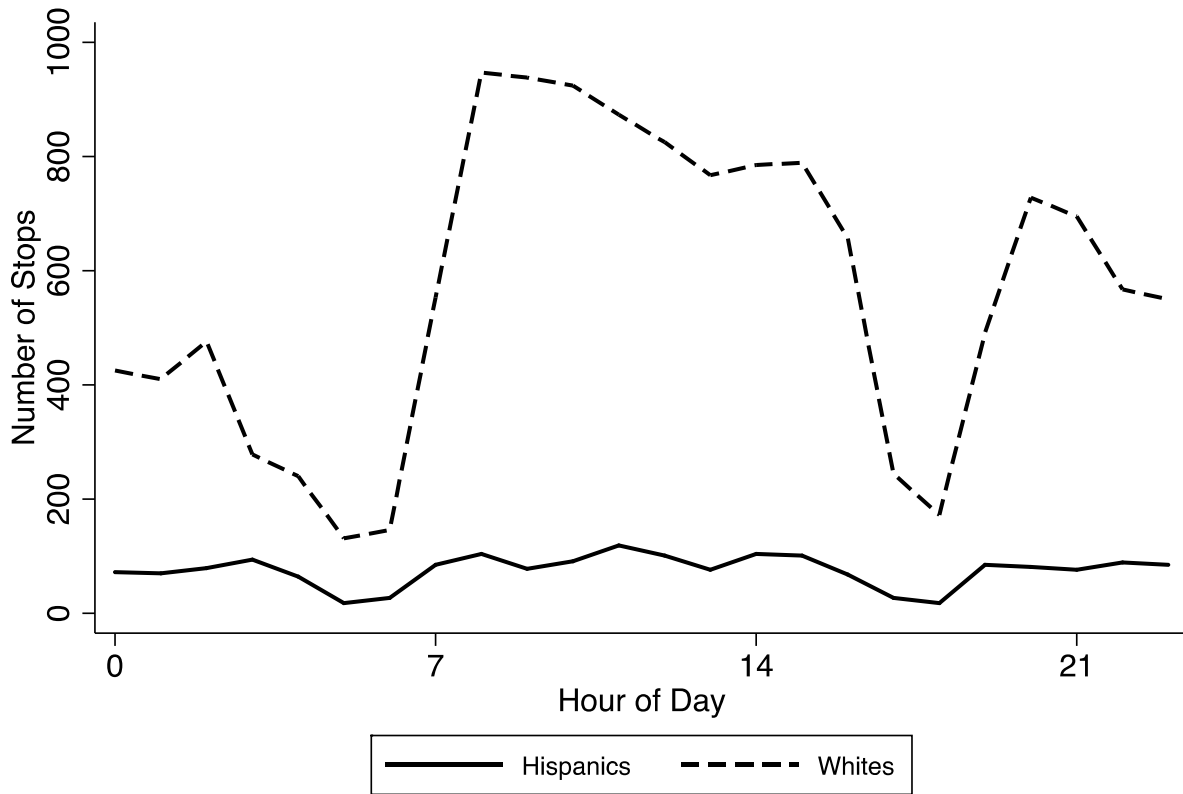
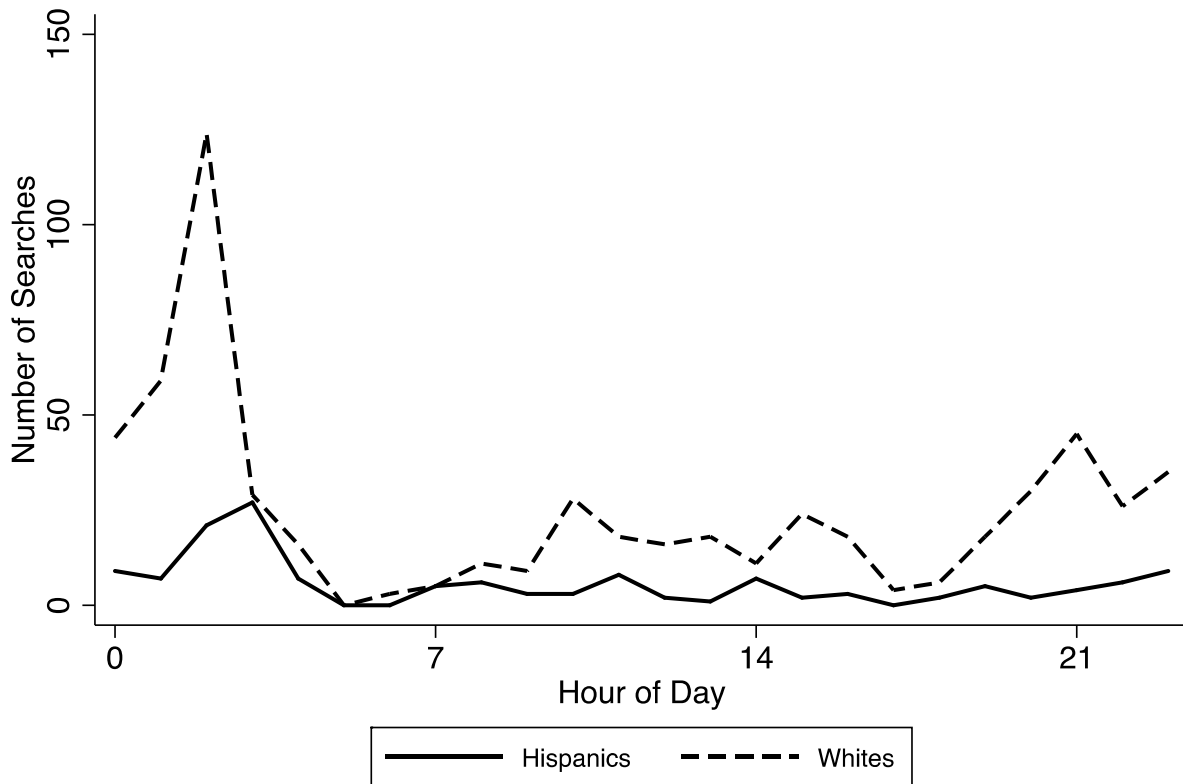


Figure A3. Stops by Hour of the Day



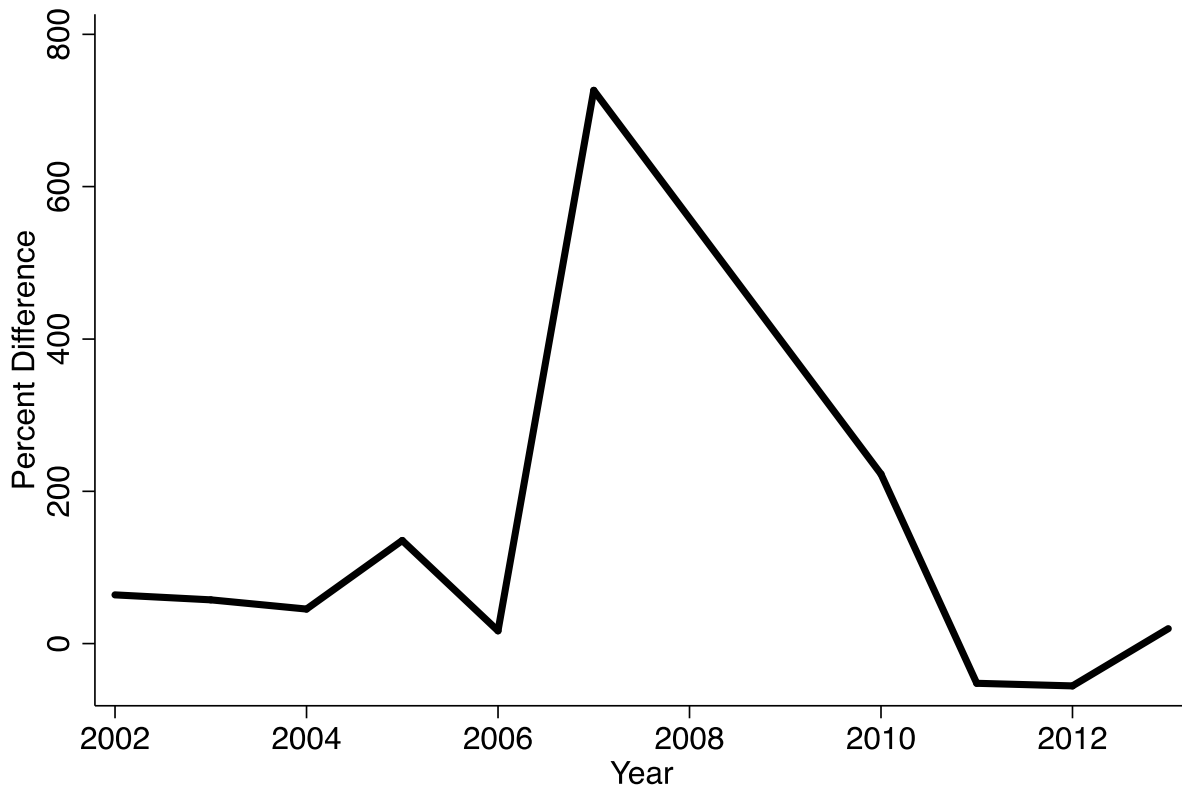
The figure excludes cases where the hour and minute was exactly 0:00. These cases were presumed to be missing data.

Figure A4. Searches by Hour of the Day



The figure excludes cases where the hour and minute was exactly 0:00. These cases were presumed to be missing data.

Figure A5. Ethnic Differences in the Likelihood of Search: Consent Searches Only



The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites; consent searches only.

Table A6. Likelihood of Finding Contraband Given a Search, by Ethnicity

Contraband	Number	% Total	% White	% Hispanic
Yes	779	21.87	20.35	12.80
No	2,783	78.13	79.65	87.20
Total	4,522	100.00	100.00	100.00

Table A7. Differential Outcomes by Whether or not a Search Occurs

Race	Search Occur	N	No Action	Verbal Warning	Written Warning	Citation Issued	Arrest	Total
White	No	37,240	2.94	17.14	7.66	70.39	1.87	100.0
Hispanic	No	4,599	2.15	14.13	4.24	74.08	5.39	100.0
Total	No	85,273	3.05	18.02	7.22	68.98	2.73	100.0
White	Yes	1,037	2.89	5.21	2.41	27.68	61.81	100.0
Hispanic	Yes	250	0.80	5.20	-	19.60	74.40	100.0
Total	Yes	3,562	2.53	6.65	1.99	28.97	59.85	100.0