

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

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Table 1. Overview of the Data

Data Subsets	Observations
Total stops	416,790
-2014	13,115
-Passengers	12,903
-Checkpoint stops	812
Stops for analysis	390,214
Searches	23,189

Search Rate = 5.94

Figure 1. Number of Traffic Stops per Year

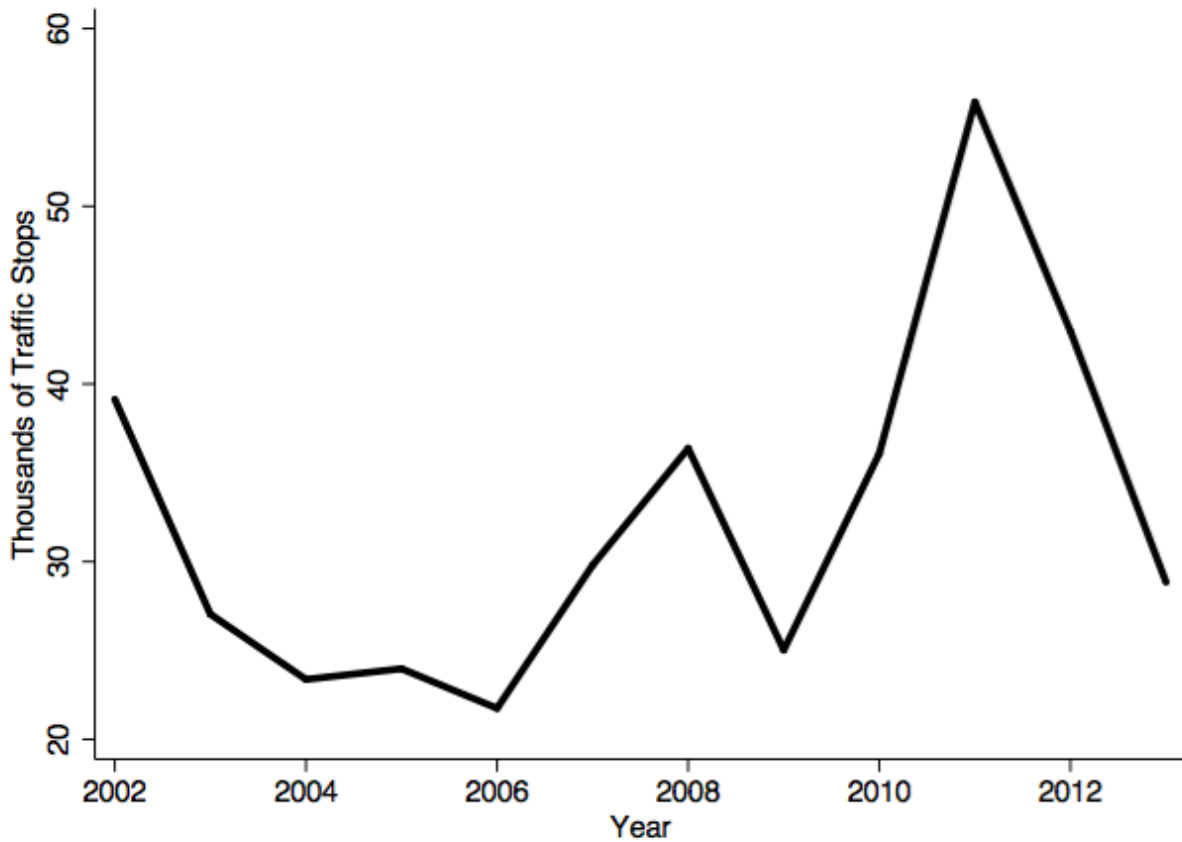


Figure 2. Ethnic Composition of Traffic Stops by Year

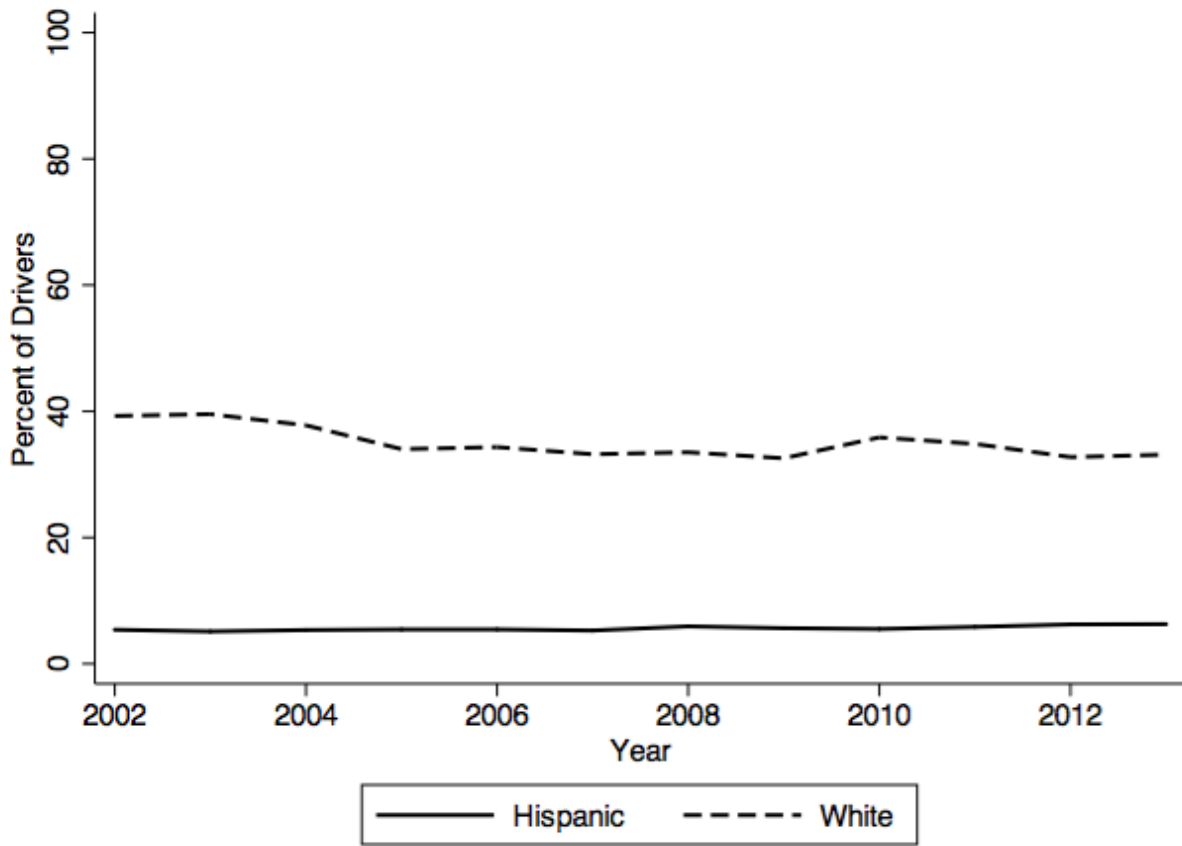


Table 2. Ethnic Composition of Traffic Stops by Purpose, Drivers

Purpose	Number	Percent	
		White	Hispanic
Total Stops	390,214	37.15	5.67
Speed Limit	117,727	43.51	6.53
Stop Light/Sign	29,828	39.95	6.47
Driving Impaired	2,099	50.78	8.34
Safe Movement	20,811	40.32	5.84
Vehicle Equipment	57,820	30.63	4.97
Vehicle Regulatory	113,323	35.14	4.92
Seat Belt	16,408	34.69	4.06
Investigation	15,567	28.01	6.12
Other Vehicle	16,631	29.54	6.27

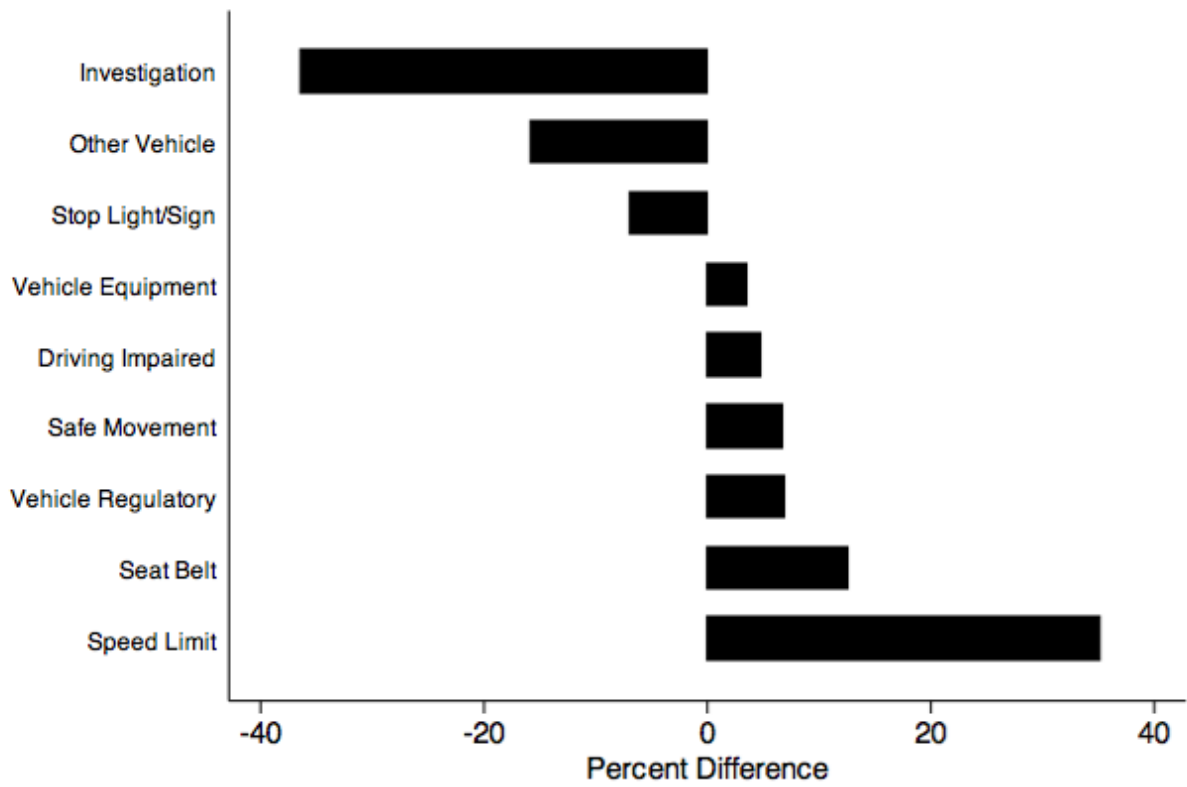
Note: Includes only drivers. Excludes 812 checkpoint stops. Excludes 12,903 passengers.

Table 3. Percent Searched by Ethnicity and Purpose of Stop

Purpose	Number	% Total	% White	% Hispanic	Ratio
					Hispanic:White
Total Stops	390,214	-	37.15	5.67	-
Total Searches	23,189	5.94	4.05	4.27	1.05
Speed Limit	117,727	2.22	1.51	2.04	1.35
Stop Light/Sign	29,828	4.64	3.11	2.90	0.93
Driving Impaired	2,099	31.73	29.99	31.43	1.05
Safe Movement	20,811	8.44	6.70	7.15	1.07
Vehicle Equipment	57,820	8.15	6.21	6.44	1.04
Vehicle Regulatory	113,323	5.24	3.32	3.55	1.07
Seat Belt	16,408	10.32	6.13	6.91	1.13
Investigation	15,567	19.58	17.66	11.24	0.64
Other Vehicle	16,631	8.32	6.15	5.18	0.84

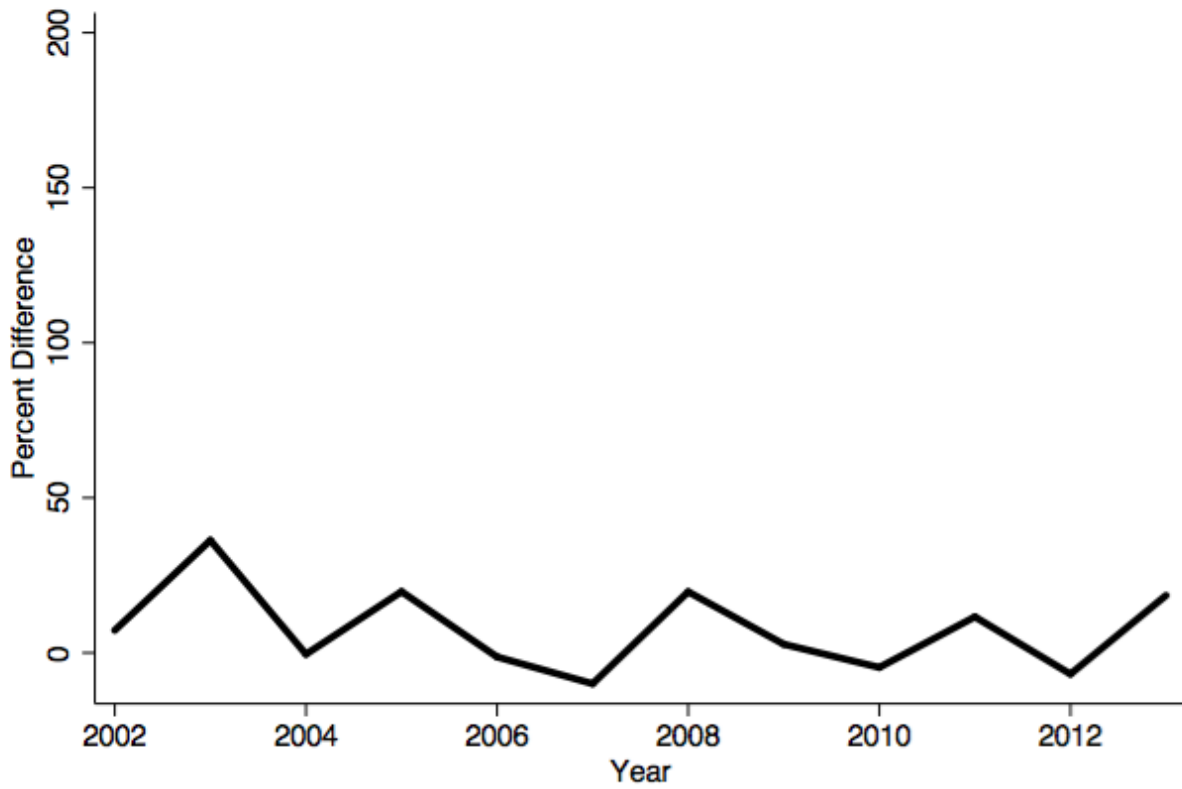
Note: See the appendix for this same table broken down for Men and Women.

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



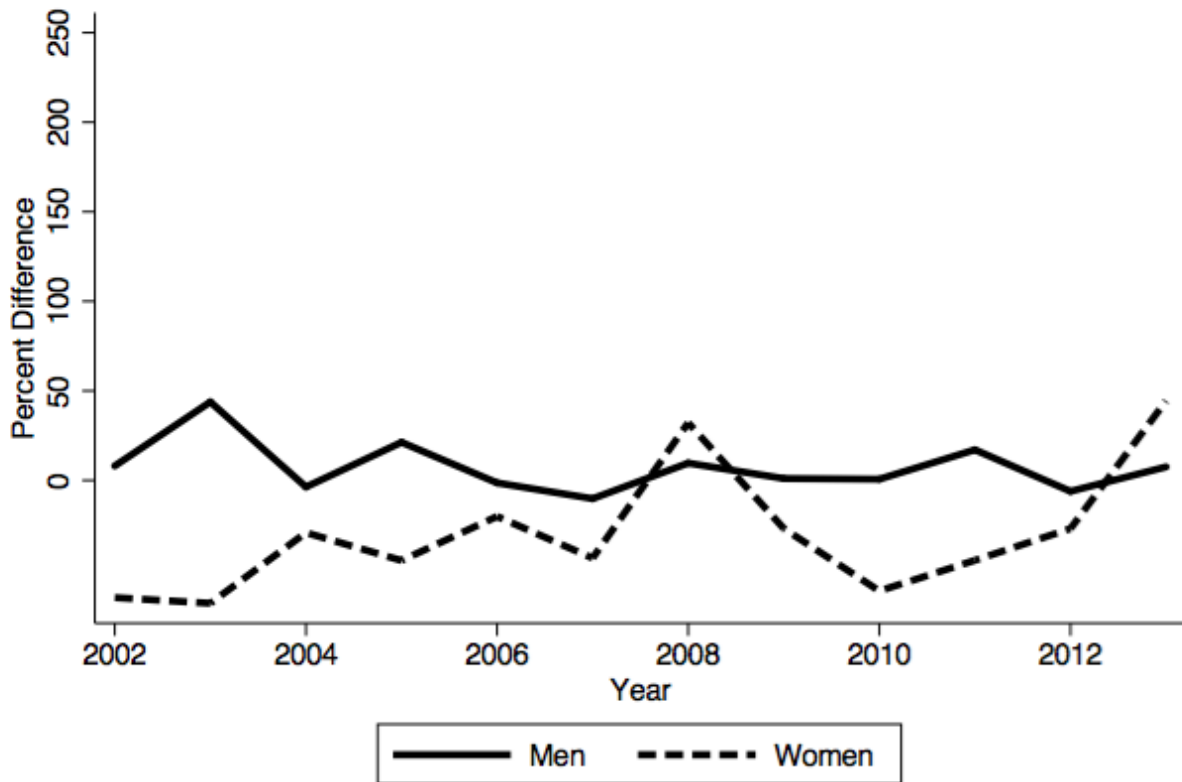
The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites by purpose of stop.

Figure 4. Ethnic Differences in the Likelihood of Search



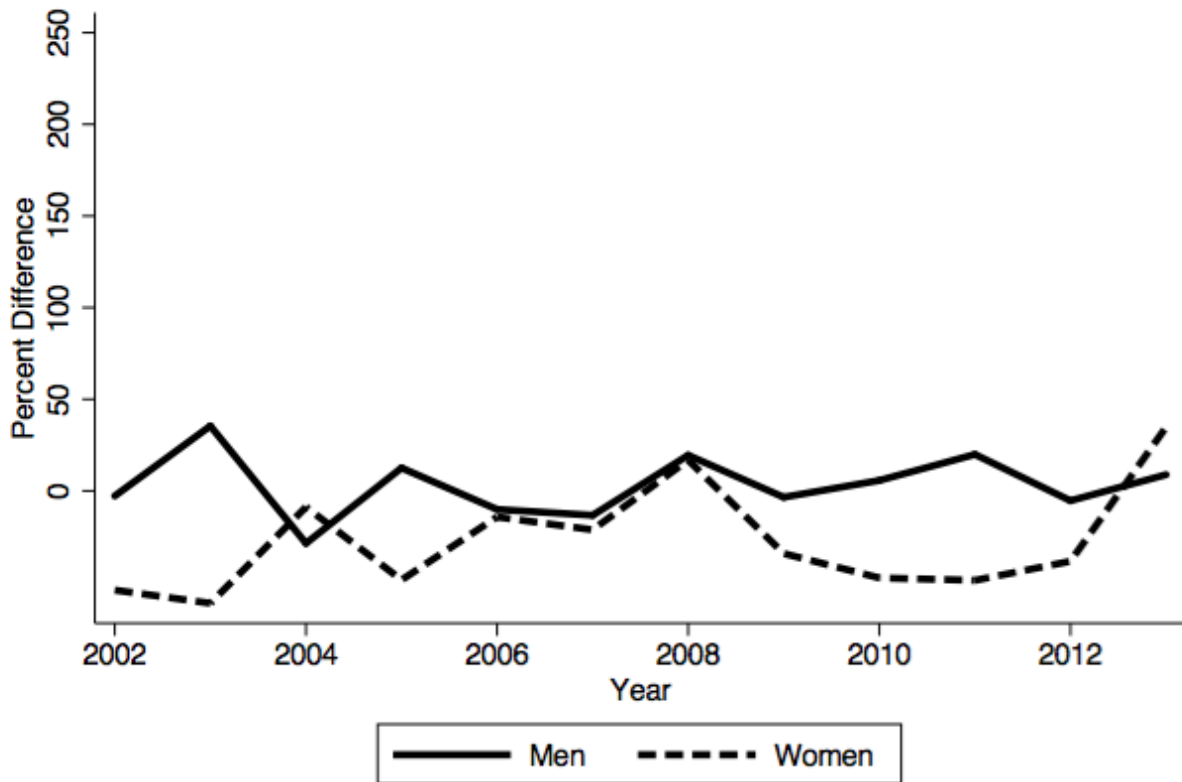
The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites.

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



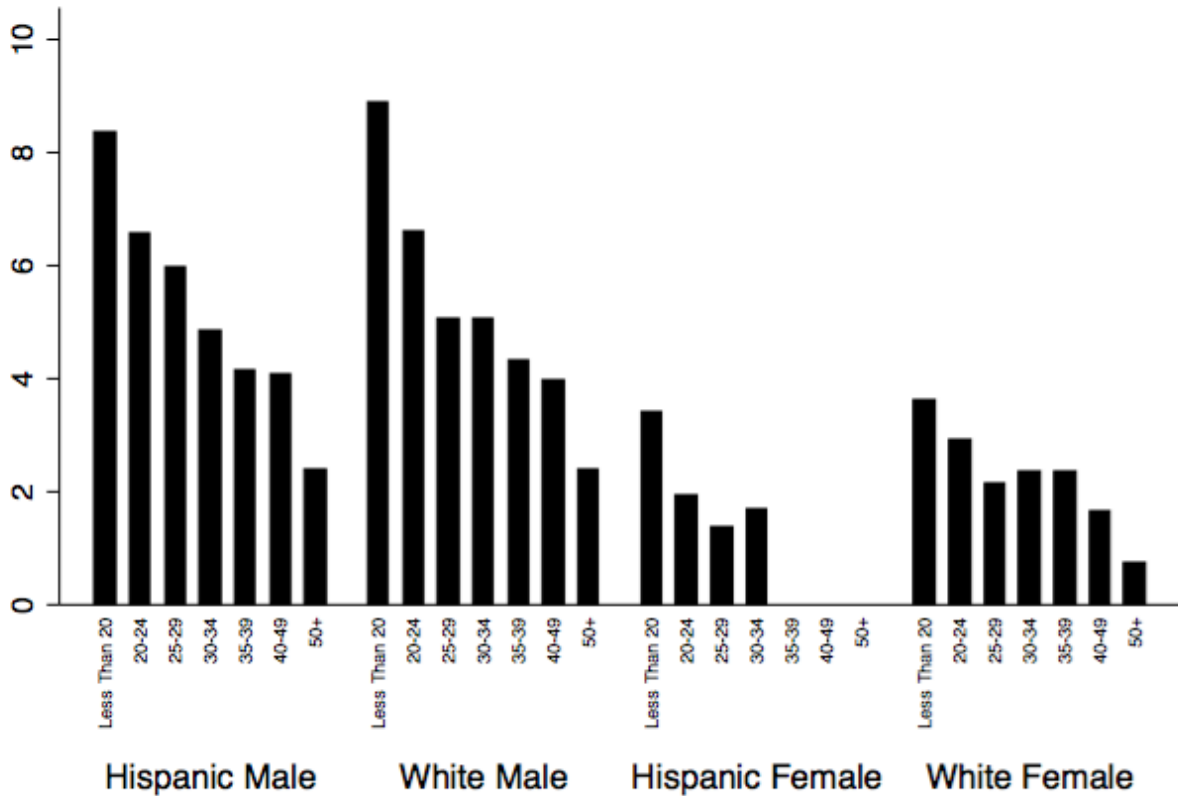
The figure shows the percentage difference in the likelihood of Hispanics being searched as compared to Whites by gender.

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 390,214 traffic stops from 2002 through 2013, and 23,189 searches. Overall rate of search: 5.94 percent. No data are presented for categories with fewer than 10 searches.

Figure 8. Number of Stops, by Ethnicity and Gender

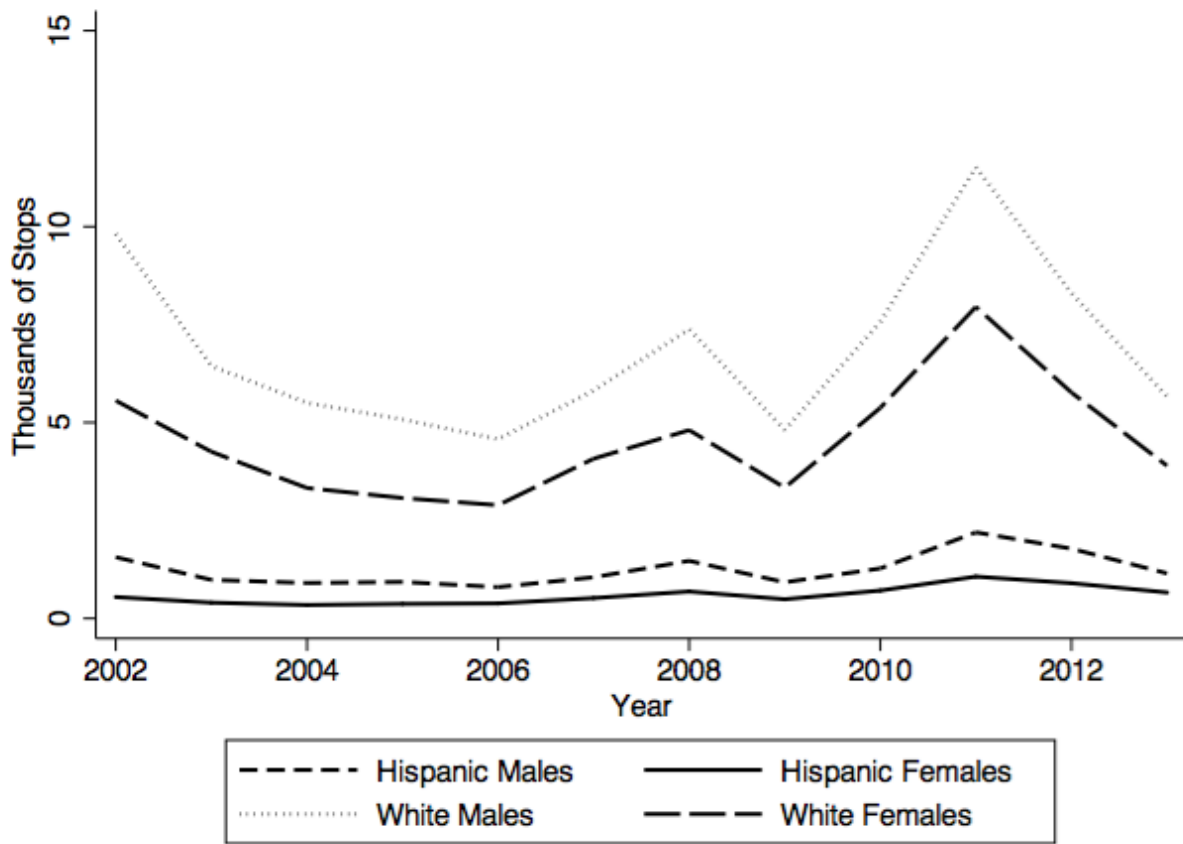


Figure 9. Percent of Stops Resulting in a Search, by Ethnicity and Gender

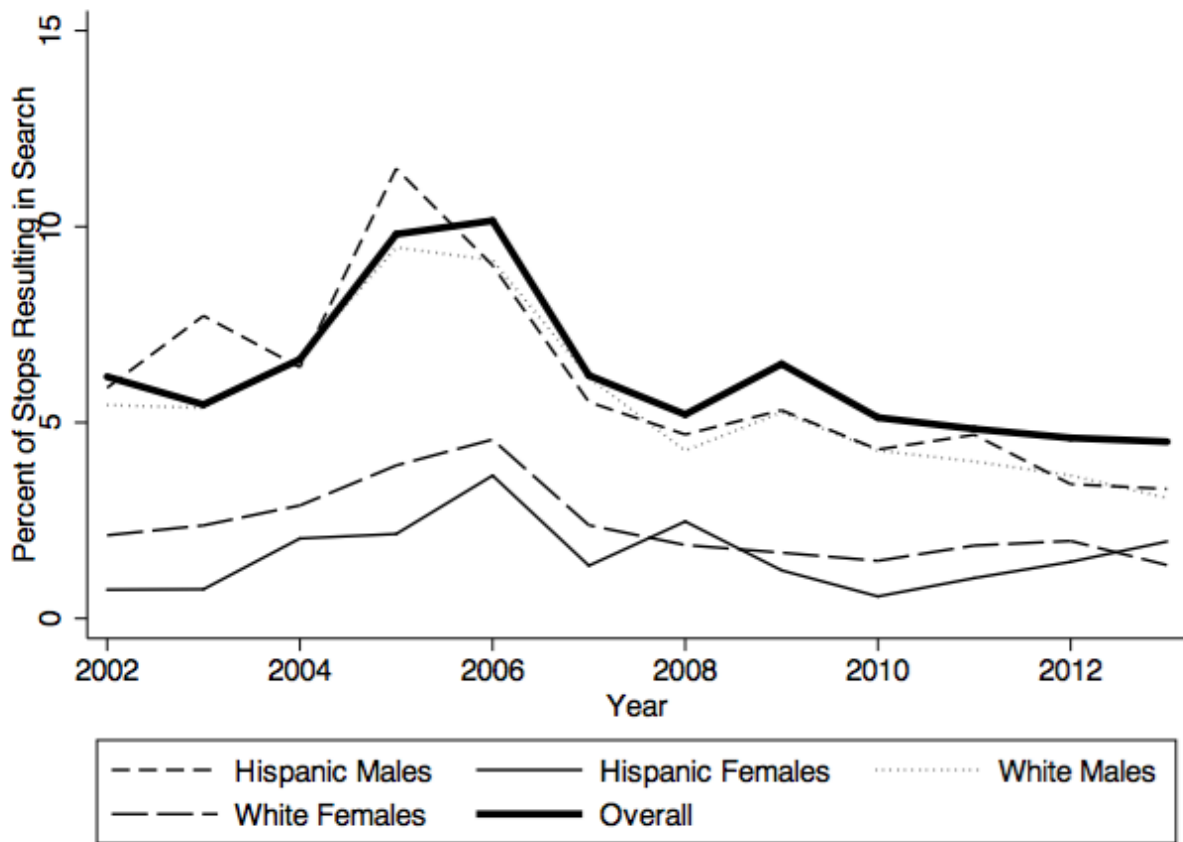


Table 4. Type of Search by Ethnicity

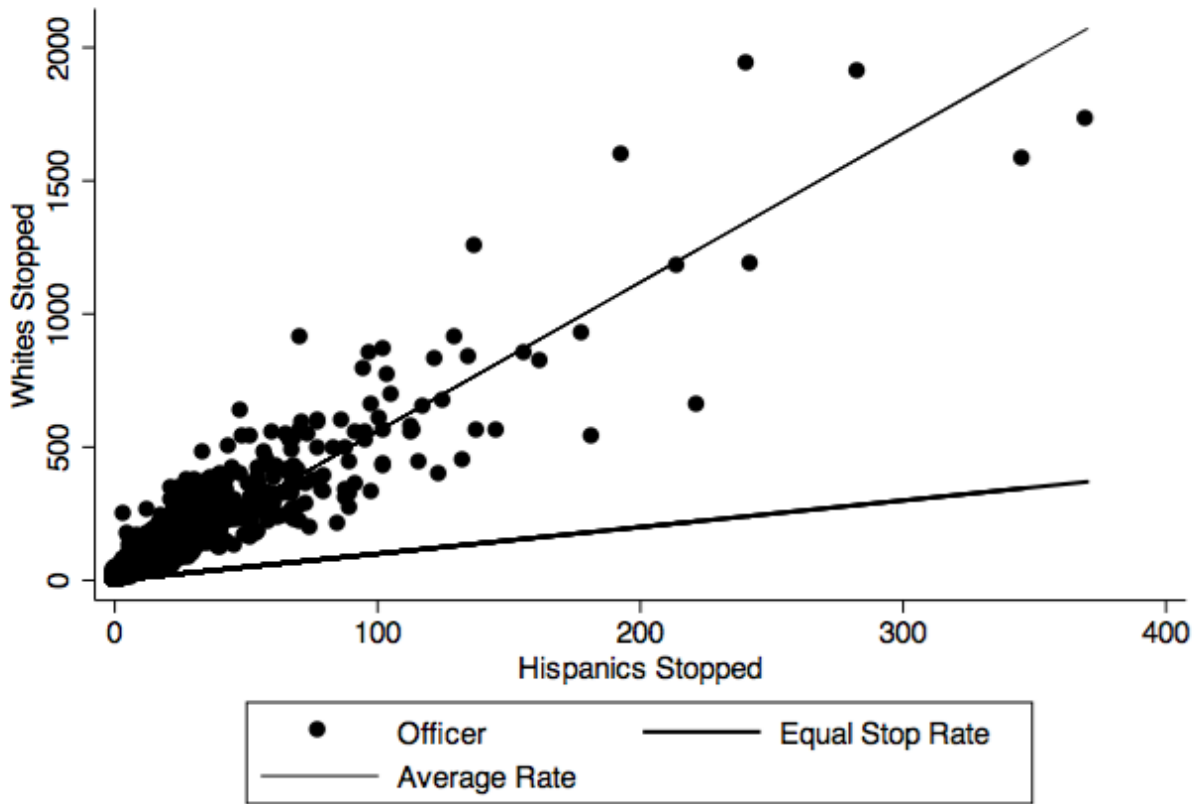
Search Type	Number	% Total	% White	%Hispanic	Ratio
					Hispanic:White
Total Stops	390,241	-	37.15	5.67	-
Total Searches	23,189	5.94	4.05	4.27	1.05
Consent	10,482	2.69	2.05	2.11	1.03
Search Warrant	52	0.01	0.01	0.01	1.00
Probable Cause	6,804	1.74	0.92	0.88	0.96
Incident to Arrest	4,724	1.21	0.91	1.10	1.21
Protective Frisk	1,127	0.29	0.16	0.17	1.06

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

Table 5. Distribution of Officer IDs by Stop

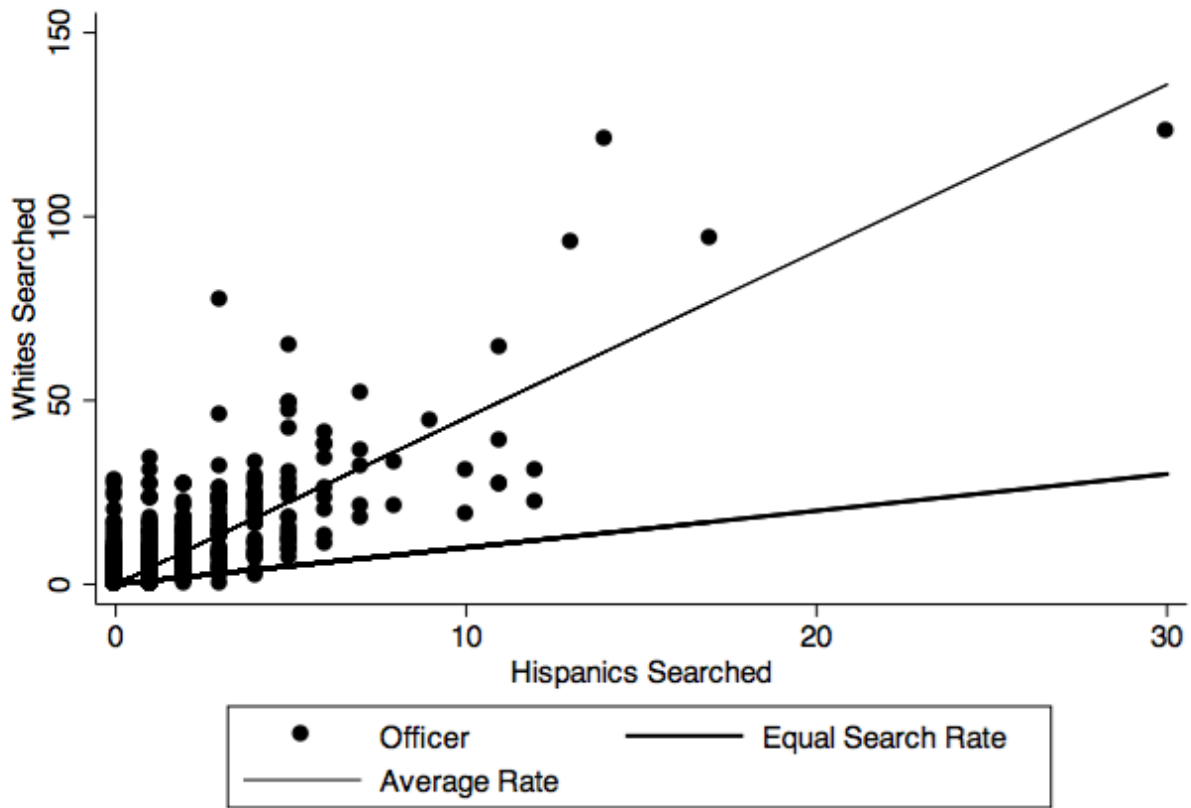
Number of Stops	Officers w/ this many Stops	Percent of Officers	Cumulative Percent	Percent of Stops	Cumulative Percent
1	1,494	45.33	45.33	0.38	0.38
2 – 10	906	27.49	72.82	0.81	1.19
11 - 100	280	8.50	81.31	2.88	4.07
101 – 1,000	519	15.75	97.06	56.21	60.28
1,001 +	97	2.94	100.00	39.72	100.00
Total	3,296	100	-	100	-

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



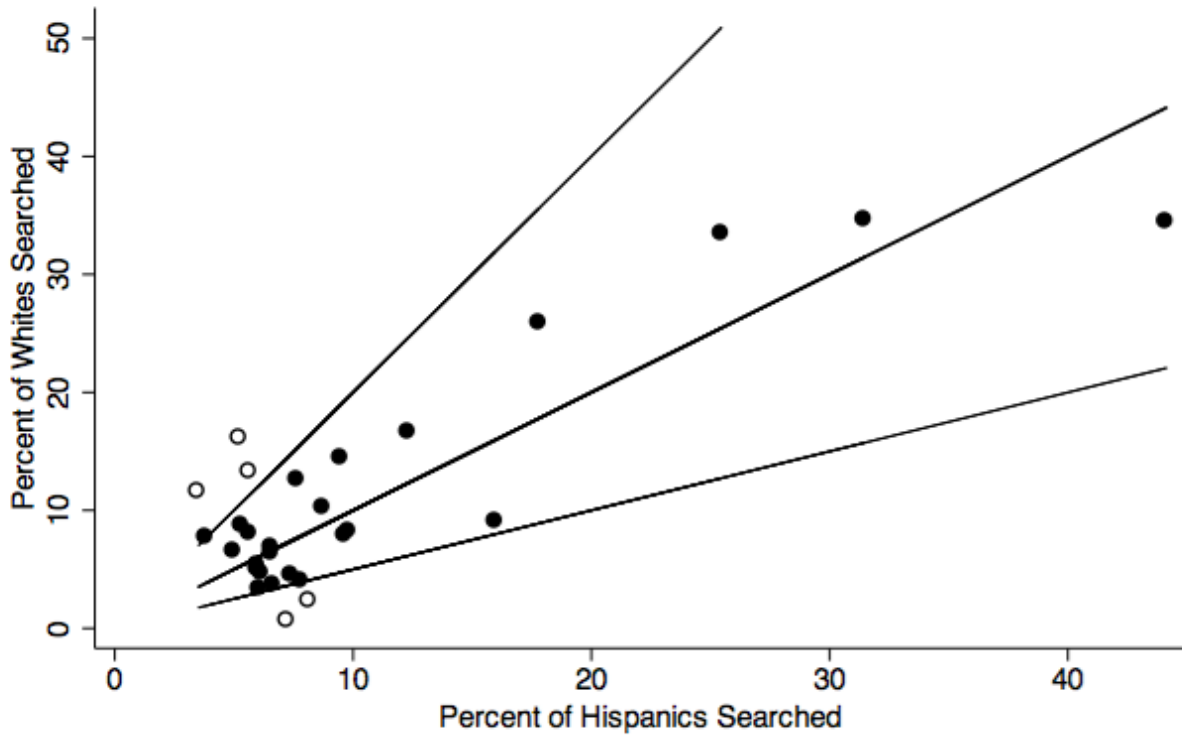
On average, officers stop 5.60 Whites for each Hispanic stopped.

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



On average, officers search 4.53 Whites for each Hispanic searched.

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



Includes 29 officers with a minimum of 50 White stops, 50 Hispanic stops, and a search rate above the department average of 5.94 for either ethnicity. The hollow circles indicate high disparity officers. 3 officers search Whites at more than twice the rate that they search Hispanics. 2 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	12,892	20.69	3.48
Speed Limit	1,237	21.80	3.96
Stop Light/Sign	710	22.13	3.24
Driving Impaired	149	34.33	10.07
Safe Movement	940	23.87	3.72
Vehicle Equipment	2,896	21.23	3.25
Vehicle Regulatory	3,134	19.34	3.67
Seat Belt	1,020	18.00	1.96
Investigation	1,987	21.51	3.82
Other Vehicle	819	16.56	2.69

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

Purpose	Number	% Total	% White	%Hispanic	Ratio
					Hispanic:White
Total Stops	238,450	-	36.90	6.30	-
Total Searches	19,525	8.19	5.26	5.58	1.06
Speed Limit	66,725	3.27	2.04	2.83	1.39
Stop Light/Sign	18,237	6.32	3.99	3.80	0.95
Driving Impaired	1,627	33.31	30.11	31.94	1.06
Safe Movement	14,212	10.67	8.07	9.18	1.14
Vehicle Equipment	37,551	10.59	7.84	7.92	1.01
Vehicle Regulatory	65,679	7.42	4.39	4.70	1.07
Seat Belt	12,018	12.71	7.27	8.13	1.12
Investigation	11,089	23.13	20.00	13.68	0.68
Other Vehicle	11,312	10.51	7.42	5.44	0.73

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

Purpose	Number	% Total	% White	%Hispanic	Ratio
					Hispanic:White
Total Stops	151,764	-	37.54	4.67	-
Total Searches	3,664	2.41	2.22	1.51	0.68
Speed Limit	51,002	0.84	0.78	0.65	0.83
Stop Light/Sign	11,591	1.99	1.70	1.09	0.64
Driving Impaired	472	26.27	29.61	29.03	0.98
Safe Movement	6,599	3.64	3.78	2.03	0.54
Vehicle Equipment	20,269	3.62	3.41	2.45	0.72
Vehicle Regulatory	47,644	2.23	1.92	1.32	0.69
Seat Belt	4,390	3.76	3.54	3.09	0.87
Investigation	4,478	10.79	12.57	3.17	0.25
Other Vehicle	5,319	3.65	3.81	4.27	1.12

Table A4. Type of Search by Ethnicity: Men

Search Type	Number	% Total	% White	% Hispanic	Ratio Hispanic:White
Total Stops	238,450	-	36.90	6.30	-
Total Searches	19,525	8.19	5.26	5.58	1.06
Consent	8,921	3.74	2.65	2.83	1.07
Search Warrant	37	0.02	0.01	0.02	2.00
Probable Cause	5,803	2.43	1.25	1.15	0.92
Incident to Arrest	3,751	1.57	1.10	1.38	1.25
Protective Frisk	1,013	0.42	0.24	0.19	0.79

Table A5. Type of Search by Ethnicity: Women

Search Type	Number	% Total	% White	% Hispanic	Ratio Hispanic:White
Total Stops	151,764	-	37.54	4.67	-
Total Searches	3,664	2.41	2.22	1.51	0.68
Consent	1,561	1.03	1.12	0.59	0.53
Search Warrant	15	0.01	0.01	0.00	-
Probable Cause	1,001	0.66	0.43	0.31	0.72
Incident to Arrest	973	0.64	0.61	0.49	0.80
Protective Frisk	114	0.08	0.04	0.11	2.75

Figure A1. Stops by Day of the Week

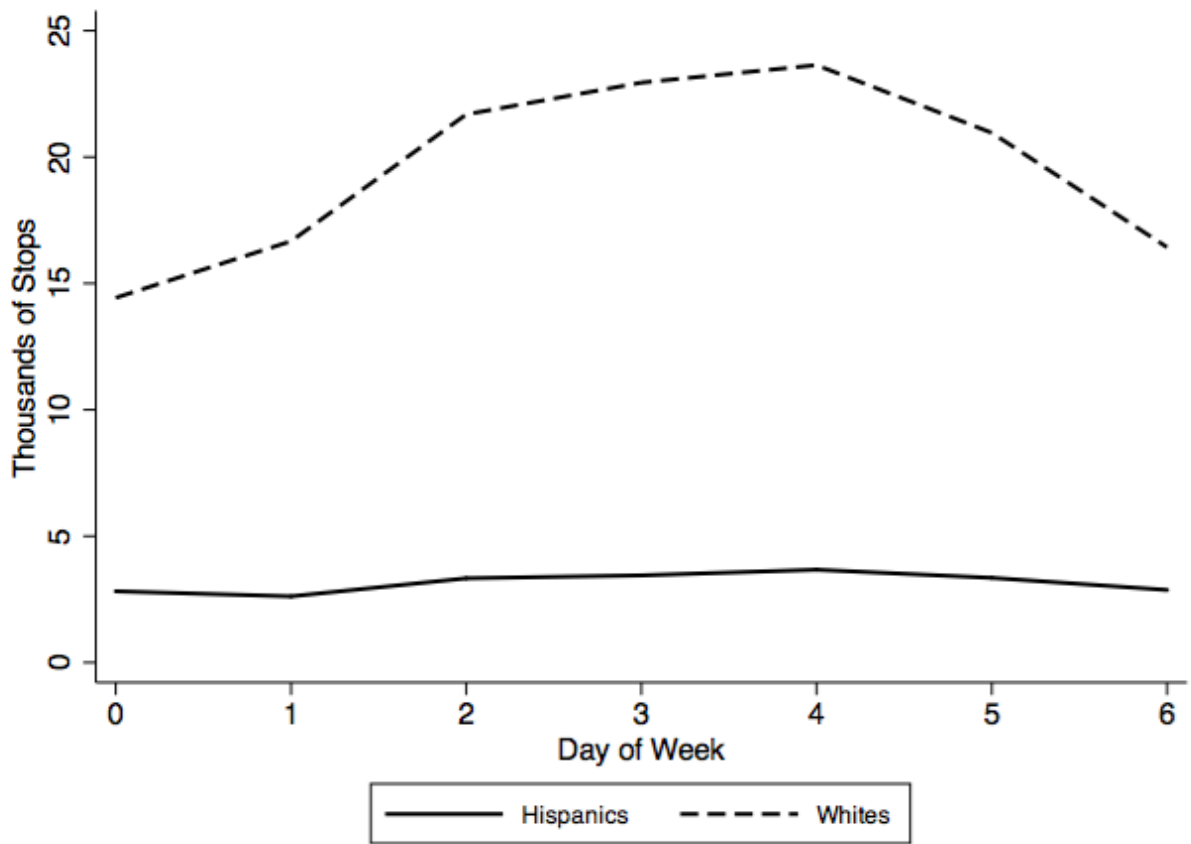


Figure A2. Searches by Day of the Week

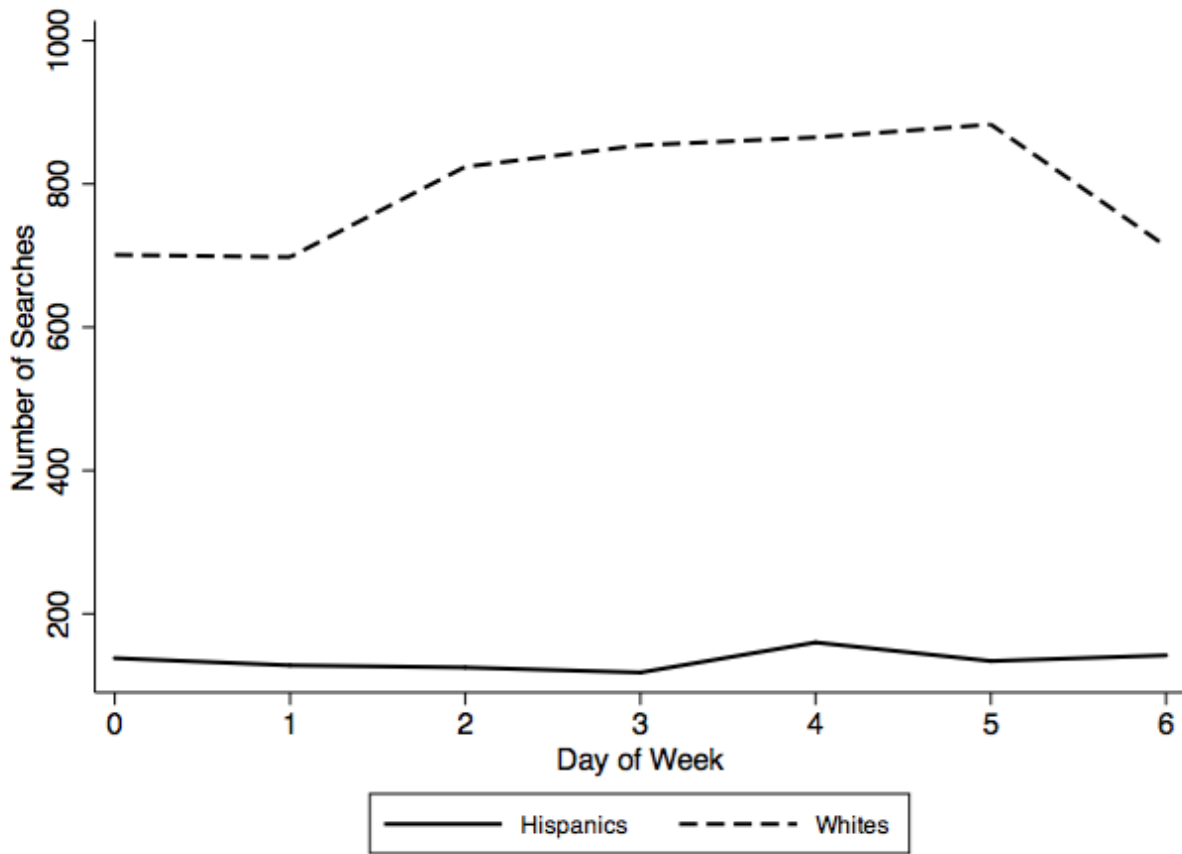
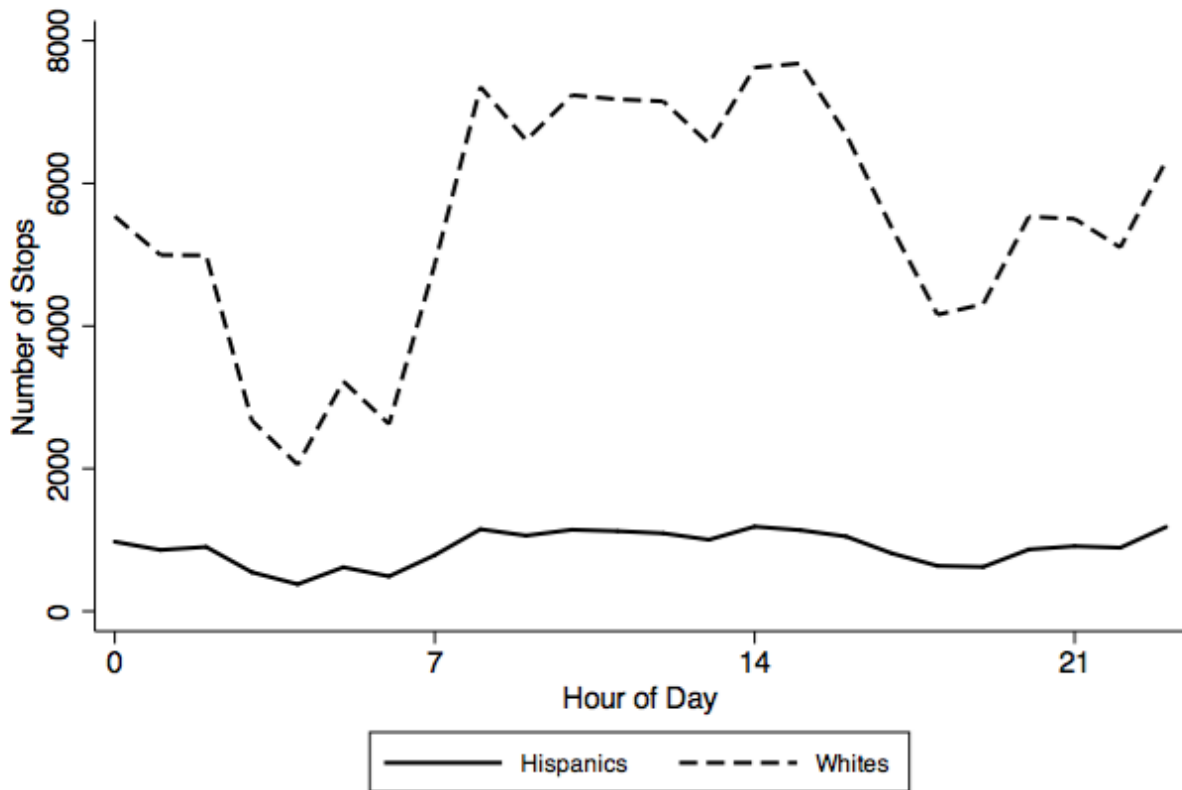
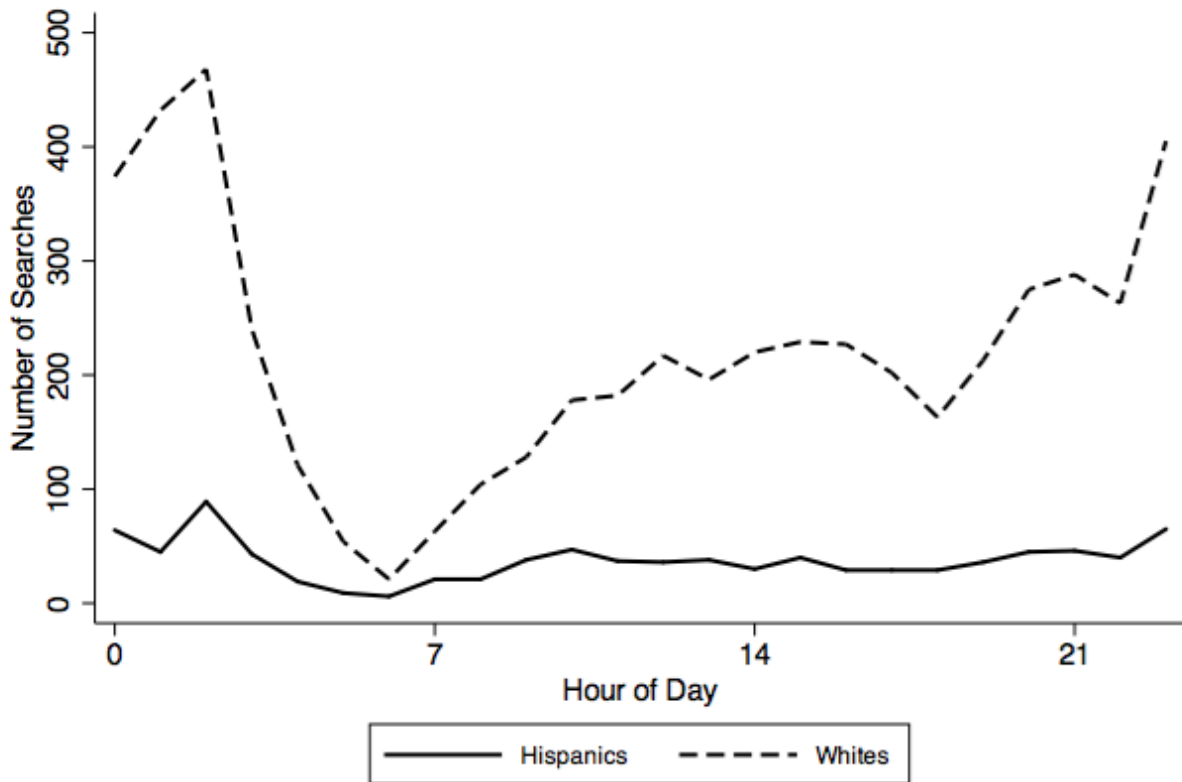


Figure A3. Stops by Hour of the Day



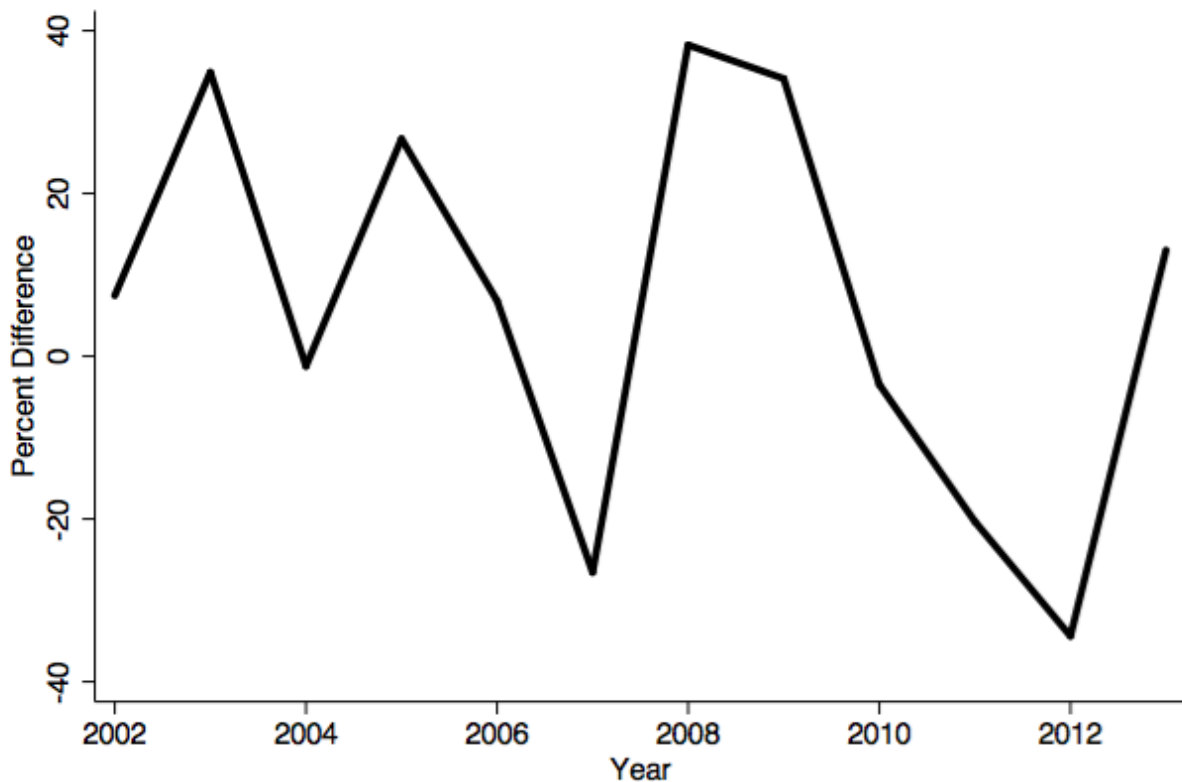
The figure excludes cases where the hour and minute was exactly 0:00. These cases were presumed to be missing data.

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	5,900	25.44	24.50	18.41
No	17,289	74.56	75.50	81.59
Total	23,189	100.00	100.00	100.00

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

Ethnicity	Search Occur	N	No Action	Verbal Warning	Written Warning	Citation Issued	Arrest	Total
White	No	131,226	2.56	0.55	32.93	63.23	0.73	100.0
Hispanic	No	21,168	3.01	0.49	28.87	66.73	0.90	100.0
Total	No	367,025	2.70	0.53	31.97	64.08	0.72	100.0
White	Yes	5,538	2.74	0.61	19.32	52.83	24.49	100.0
Hispanic	Yes	945	2.33	0.63	21.16	48.47	27.41	100.0
Total	Yes	23,189	2.26	0.50	17.61	55.90	23.74	100.0