

Vehicle Stops Report

University of Missouri

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1 State Results

Table 1: Rates by Race for Missouri

	Total	White	Black	Hispanic	Native American	Asian	Other
Population							
2022 ACS pop.	4940395	3925816	535423	191155	14295	105151	285027
2022 ACS pop. %	100	79.46	10.84	3.87	.29	2.13	5.77
2020 Decennial pop.	4775612	3723642	514169	197173	18642	104558	217428
2020 Decennial pop. %	100	77.97	10.77	4.13	.39	2.19	4.55
Totals							
All stops	1367150	1053004	235979	42736	2288	14148	18995
Resident stops	684743	565766	89428	18403	837	5583	4726
Searches	61990	45701	12276	2739	92	324	858
Contraband	14757	11652	2522	446	12	51	74
Arrests	57713	43226	11326	2387	92	308	374
Citations	567793	403112	130403	21532	908	6478	5360
Rates							
Stop rate	27.67	26.82	44.07	22.36	16.01	13.45	6.66
Stop rate, residents	13.86	14.41	16.7	9.63	5.86	5.31	1.66
Search rate	4.53	4.34	5.2	6.41	4.02	2.29	4.52
Contraband hit rate	23.81	25.5	20.54	16.28	13.04	15.74	8.62
Arrest rate	4.22	4.11	4.8	5.59	4.02	2.18	1.97
Citation rate	41.53	38.28	55.26	50.38	39.69	45.79	28.22

Notes: The American Community Survey five-year population estimates for ages 16+ as of 2022 are used for Missouri. For comparison, the 2020 Decennial Census population estimates for ages 18+ are also shown in the table.

The ACS only provides race-specific Hispanic estimates for White, meaning non-White Hispanic residents are double-counted in the race percentages above.

Stop rate = (stops / 2022 population) X 100.

Stop rate, residents only = (stops by residents / 2022 population) X 100.

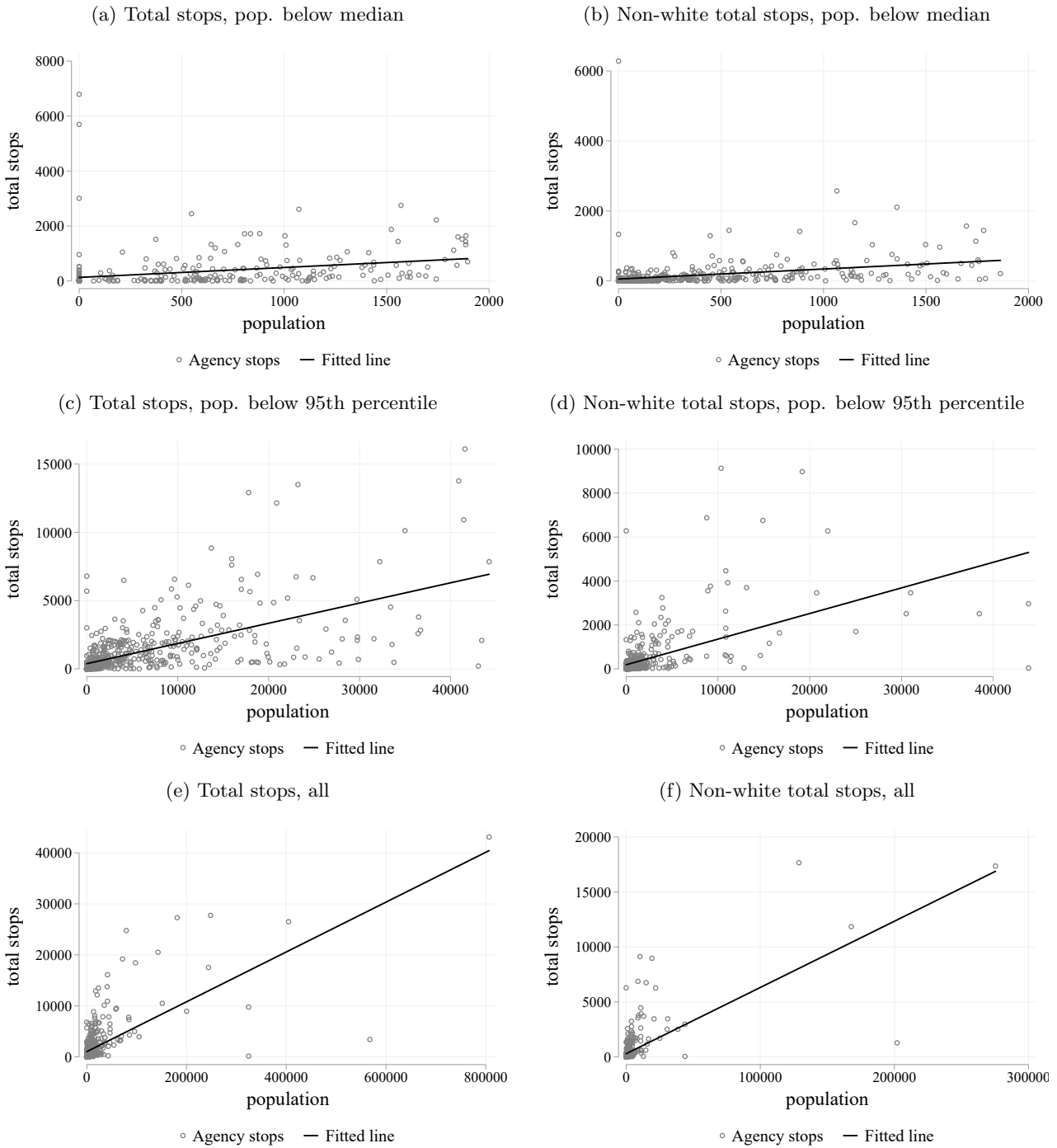
Search rate = (searches / stops) X 100.

Contraband hit rate = (searches with contraband found / total searches) X 100.

Arrest rate = (arrests / stops) X 100.

Citation rate = (citations / stops) X 100.

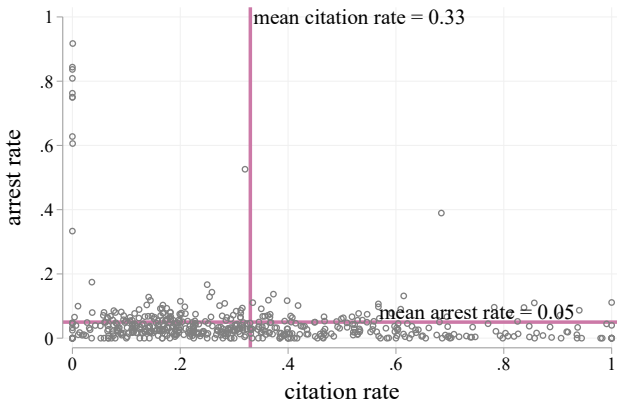
Figure 1: Total stops across agencies for Missouri



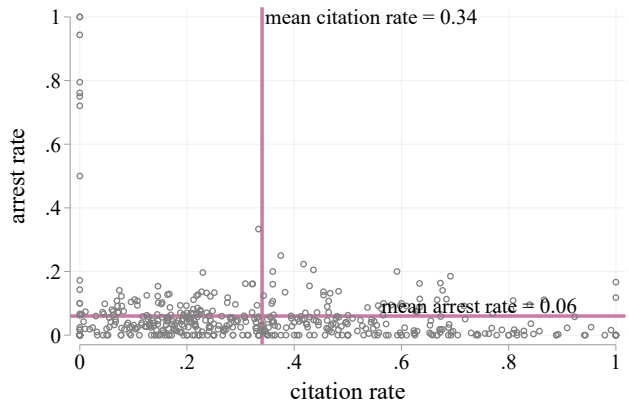
Notes: Figure (a) depicts the total number of stops for all agencies with a total population less than the median population size (1,896.5 persons) in Missouri plotted against population size. Similarly, Figure (b) shows the total number of non-white stops by the non-white population size for each agency for those same agencies. Figures (c) and (d) follow the same format but for agencies with a total population less than the 95th-percentile (46,171 persons). Finally, graphs (e) and (f) graph all agencies, except the Missouri State Highway Patrol which covers the entire state. Population is measured using the 2022 American Community Survey 5-year estimates for Missouri. The ACS only provides race-specific Hispanic estimates for White, to avoid double counting we calculate the total non-White population as the total population minus the White population for each agency. Agencies without population (e.g., university police) are considered to have a population of zero.

Figure 2: Citation, arrest, search, and hit rates across agencies for Missouri

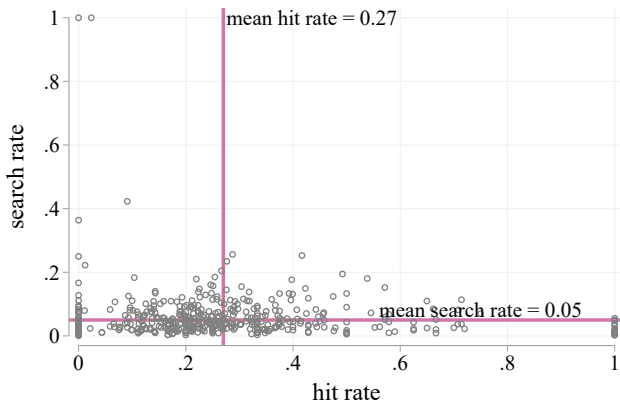
(a) Arrest and citation rate



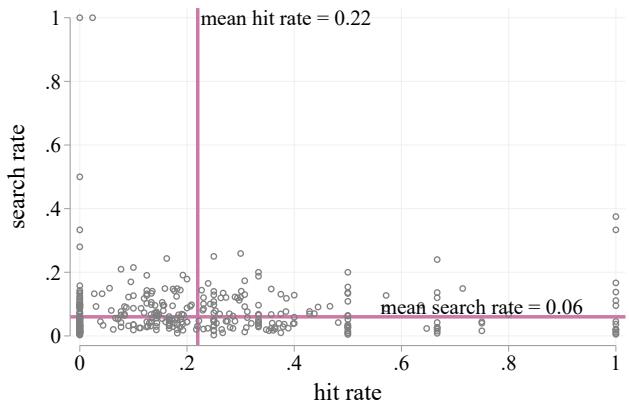
(b) Non-white arrest and citation rate



(c) Search and hit rate

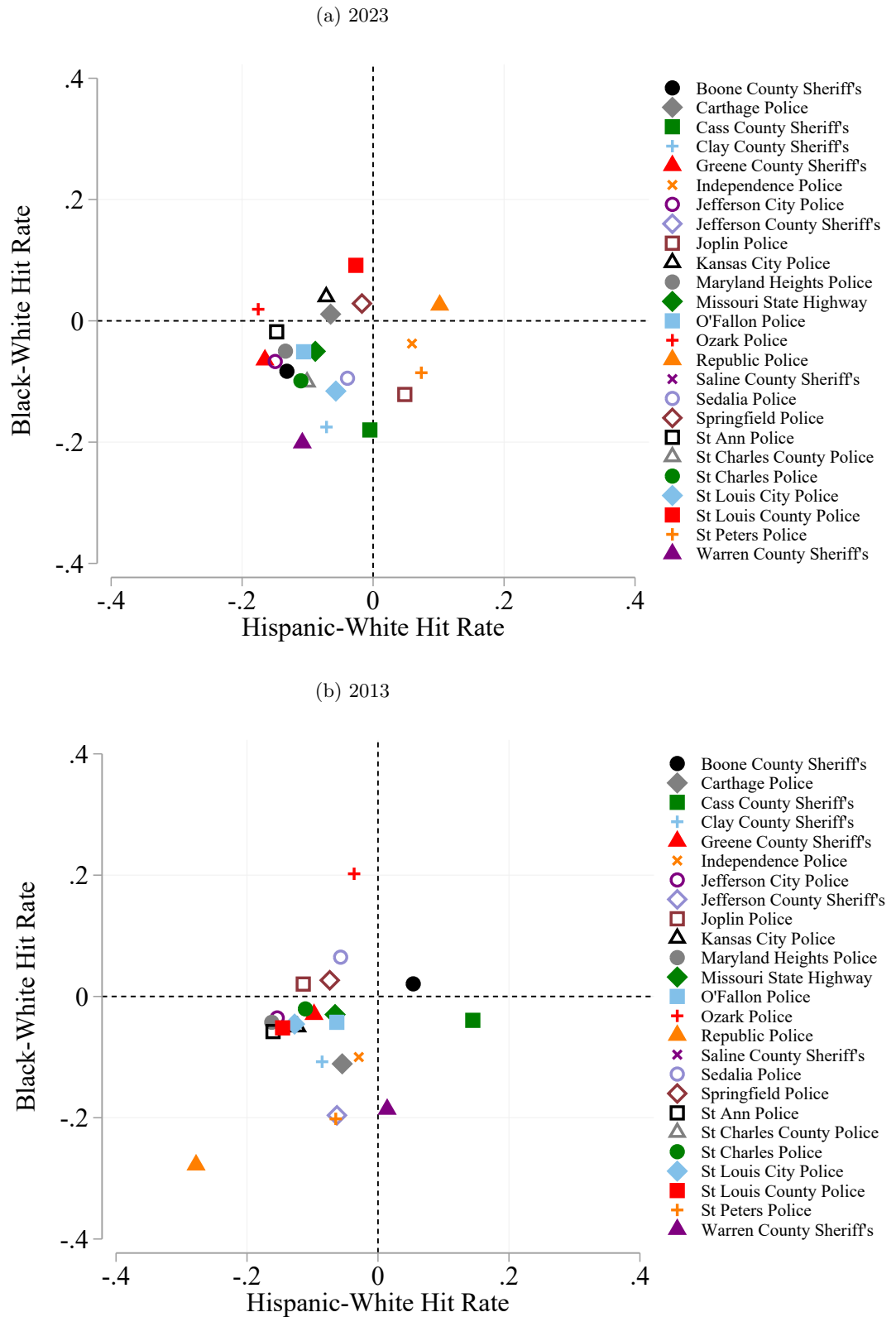


(d) Non-white search and hit rate



Notes: Figure (a) graphs the arrest rate and citation rate for all agencies in Missouri. Similarly, Figure (b) graphs the arrest rate and citation rate for all non-white stops. Figure (c) graphs the search rate and hit rate for all agencies in Missouri. Similarly, Figure (d) graphs the search rate for all non-white stops and hit rate for all non-white searches. The reported mean equally weights each agency and is not a population-weighted mean.

Figure 3: Relative hit rates for the top 25 agencies with the most searches



Notes: The race specific hit rate is calculated as the number of searches that find contraband divided by the total number of searches for a specific race. The difference between the Black and White hit rates and the Hispanic and White hit rates are plotted on the y- and x-axis, respectively.

Table 2: Number of Stops by Race for Missouri

	Total	White	Black	Hispanic	Native American	Asian	Other
All Stops	1367150	1053004	235979	42736	2288	14148	18995
Resident Stops	684743	565766	89428	18403	837	5583	4726
Non-Resident Stops	682407	487238	146551	24333	1451	8565	14269
Reason for Stop	.	.	.	.	.	.	.
Moving	764841	591566	123633	27901	1497	10354	9890
Equipment	176482	139933	26997	5319	282	1438	2513
License	452847	338247	95981	9733	527	2371	5988
Investigative	39991	27833	9218	1491	70	345	1034
Called for Service	10513	7294	2511	346	22	74	266
Officer Initiative	16649	11896	3620	700	33	138	262
Det./Crime Bulletin	1553	999	450	31	1	8	64
Other	11275	7686	2692	447	19	133	298
Stop Outcome	.	.	.	.	.	.	.
Searches	61990	45701	12276	2739	92	324	858
Contraband	14757	11652	2522	446	12	51	74
Arrests	57713	43226	11326	2387	92	308	374
Citation	567793	403112	130403	21532	908	6478	5360
Warning	1047626	847394	142459	33746	1569	10564	11894
No action	36554	24609	8780	1803	83	363	916
Citation/warning violation	.	.	.	.	.	.	.
Moving	765395	595607	118645	29570	1477	11283	8813
Equipment	250111	200309	36890	8232	353	2006	2321
License/Registration	595274	453120	113346	18321	704	3736	6047
Arrest violation	.	.	.	.	.	.	.
Outstanding warrant	24071	16521	6706	555	31	79	179
Drug Violation	5842	4812	766	91	7	7	159
Resist Arrest	1808	1138	582	65	3	8	12
Off Against Person	3239	2579	536	96	2	6	20
Traffic	14866	10675	3135	813	37	88	118
DWI/BAC	14919	11195	2349	1063	29	148	135
Property	1353	891	411	37	2	6	6
Other	4835	3819	819	141	4	16	36
Officer Assignment	.	.	.	.	.	.	.
General Parol	1131834	889809	178094	36448	1928	11878	13677
Dedicated Traffic	164842	117494	37440	4674	225	1624	3385
Special Assignment	43552	33319	7800	1319	97	475	542
Location of Stop	.	.	.	.	.	.	.
Interstate hwy	165213	113052	37900	9113	403	3284	1461
US hwy	237522	198071	26786	8175	399	2359	1732
State hwy	323395	272562	36016	8609	487	2476	3245
County road	83004	58824	20405	1337	146	834	1458
City street	484820	360582	95981	14676	733	4619	8229
Other	73232	50312	18924	838	119	605	2434
Driver Gender	.	.	.	.	.	.	.
Male	837542	642649	140122	32021	1584	9454	11712
Female	529119	410772	95910	10714	704	4694	6325
Driver Age	.	.	.	.	.	.	.
17 and under	51848	44509	4795	1387	66	298	793
18-29	466674	342160	93532	17966	943	5249	6824
30-39	331029	243388	67160	11866	556	3335	4724
40-64	440378	356289	62913	10952	653	4700	4871
65 and over	75616	66982	6599	563	69	562	841

Notes: Data reported by the agency to the Attorney General's Office covering all traffic stops in 2023.

Table 3: Search statistics for Missouri

	Total	White	Black	Hispanic	Native American	Asian	Other
Probable cause	.	.	.	.	.	.	.
Consent	28185	22109	4389	1021	41	148	477
Inventory	5557	3981	1227	270	3	21	55
Drug/alcohol odor	3124	2209	695	163	3	16	38
Incident to arrest	29199	20337	6949	1554	49	167	143
Plain view contra.	2677	2020	531	88	1	13	24
Reas. susp-weapon	1608	862	673	54	6	3	10
Drug-dog alert	2352	2043	226	63	2	0	18
Other	951	727	185	29	0	3	7
What searched	.	.	.	.	.	.	.
Driver	18502	12754	4466	1044	37	111	90
Car/property	10730	8174	1833	547	15	101	60
Driver & Property	31929	24480	5957	1136	40	113	203
Search duration	.	.	.	.	.	.	.
0-15 minutes	55155	40523	11389	2525	89	311	318
16-30 minutes	5444	4443	778	173	4	12	34
31+ minutes	6444	966	159	5308	2	4	5
Contraband found	.	.	.	.	.	.	.
Drugs	11036	9144	1593	228	8	29	34
Alcohol	2537	1928	358	203	2	19	27
Currency	176	94	60	16	3	2	1
Weapon	1851	968	824	45	0	7	7
Stolen property	544	377	142	16	0	0	9
Other	805	660	104	26	0	7	8

Notes: Data reported by the agency to the Attorney General's Office covering traffic stops in 2023.