

Traffic Accidents: The where and the why.

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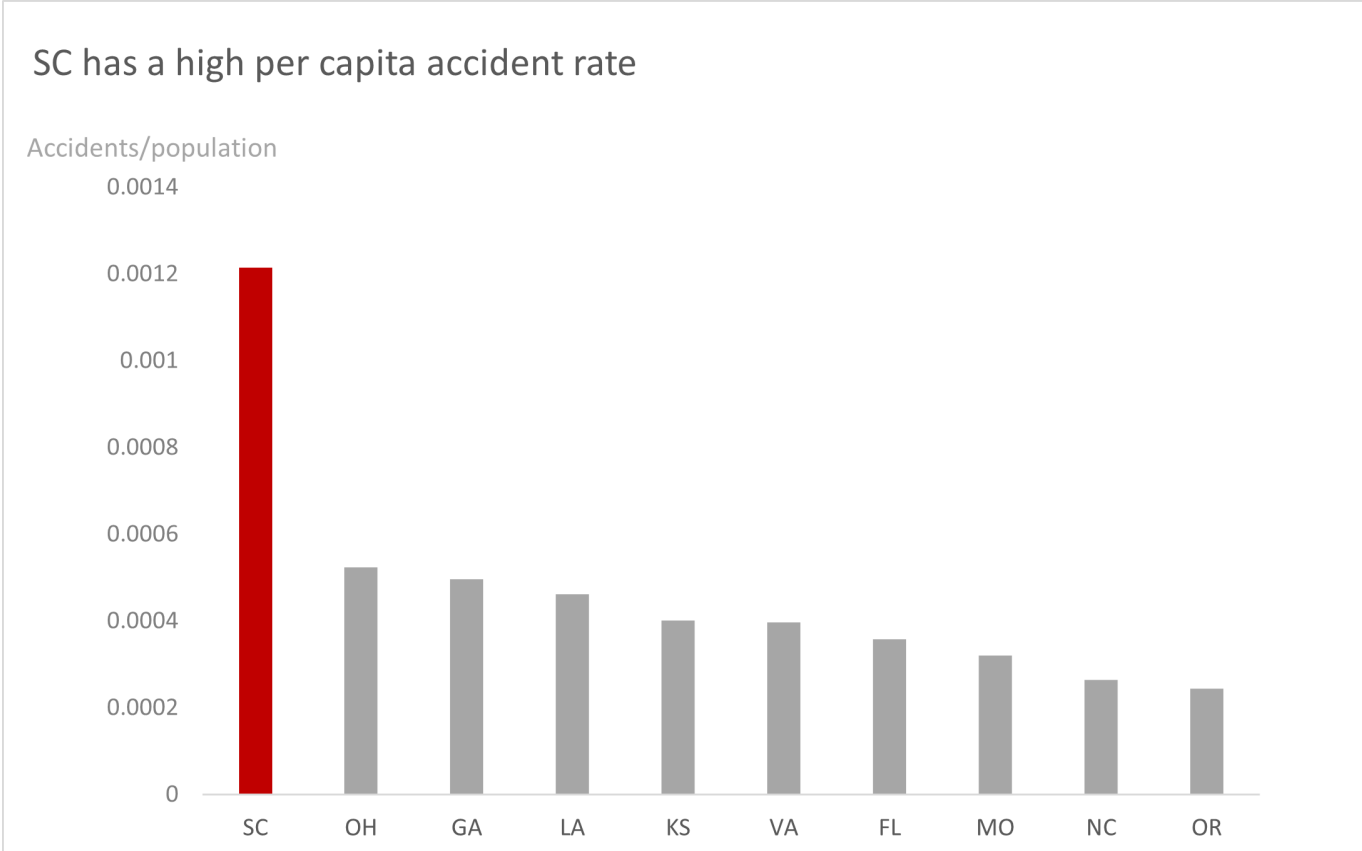
As we're required to do this in excel, I'm using only the first week of 2021 (the full dataset has ~3 million observations; the restricted one has ~18,000). I am using python to get the first week of data (since I cannot open the full csv in Excel due to memory), but only for that.

A quick sample:

City/Town	Accidents	State	Population	Accidents per capita
Miami	662	FL	442241	668.0377644
Dallas	365	TX	1304379	3573.641096
Orlando	338	FL	307573	909.9792899
Houston	304	TX	2304580	7580.855263
Los Angeles	299	CA	3898747	13039.28763
Raleigh	197	NC	467665	2373.93401
Austin	180	TX	961855	5343.638889
Atlanta	169	GA	498715	2950.976331
Charlotte	168	NC	874579	5205.827381
Baton Rouge	163	LA	227470	1395.521472
Sacramento	158	CA	524943	3322.424051
Kansas City	157	MO	508090	3236.242038
New Orleans	152	LA	383997	2526.296053
Nashville	136	TN	689447	5069.463235
Bakersfield	126	CA	403455	3202.02381
Tucson	109	AZ	542629	4978.247706
Columbia	104	SC	136632	1313.769231
Minneapolis	96	MN	429954	4478.6875
Chattanooga	95	TN	181099	1906.305263
Jacksonville	92	FL	949611	10321.8587
York	89	SC	8503	95.53932584
Phoenix	89	AZ	1608139	18068.97753
Fort Lauderdale	86	FL	182760	2125.116279
Philadelphia	85	PA	1603797	18868.2
Portland	81	OR	652503	8055.592593
Richmond	78	VA	226610	2905.25641
San Diego	76	CA	1386932	18249.10526
Sarasota	75	FL	54842	731.2266667
Shreveport	73	LA	187593	2569.767123
Dayton	72	OH	137644	1911.722222
Hialeah	70	FL	223109	3187.271429
San Antonio	70	TX	1434625	20494.64286
Lancaster	69	SC	8460	122.6086957
Pensacola	65	FL	54312	835.5692308
San Bernardino	64	CA	222101	3470.328125
Rochester	63	NY	211328	3354.412698
Washington	63	DC	689545	10945.15873
Riverside	61	CA	314998	5163.901639
Fort Myers	59	FL	86395	1464.322034
Florence	58	SC	39899	687.9137931

This is the cities with over 20 accidents in the week of January 1st, 2021, sorted from most to least accidents, with population and per capita figures. *Note that the 'Accidents per capita' is the inverse of the true accidents per capita, to avoid floating point issues.*

Larger cities like Dallas, Houston, and LA, are unsurprisingly high. Highlighted entries are those which fell into the highest 10% of accidents per capita, which merit a closer look.



This gives us states which had the highest accidents per capita, and SC seems to stand out particularly. Even in the above table, 50% of highlighted cities are in SC, with York and Lancaster particularly standing out as accident hotspots. These merit a closer look.