EXPLORING STATE DEMOGRAPHICS AS DETERMINANTS OF GUN OWNERSHIP AND GUN SALES

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RESEARCH QUESTIONS

- On average, each state registers sales of about 100,000 new firearms each year.
- While there is a lot of research on the topic of the effect of gun sales, little is said about the determinants of gun sales.
- Our work is to find what demographics show correlations with gun sales.







FBI DATA:

- Permits, gun sales, background checks
- All US states and territories
- 1990-2021
- 15,300 observations

CENSUS DATA:

- Average Income, education level, age, sex, race, and ethnicity
- All US states and territories
- 2002 2019
- 47,000,000 observations (over 2 million observations per state)



STATS - FBI DATA

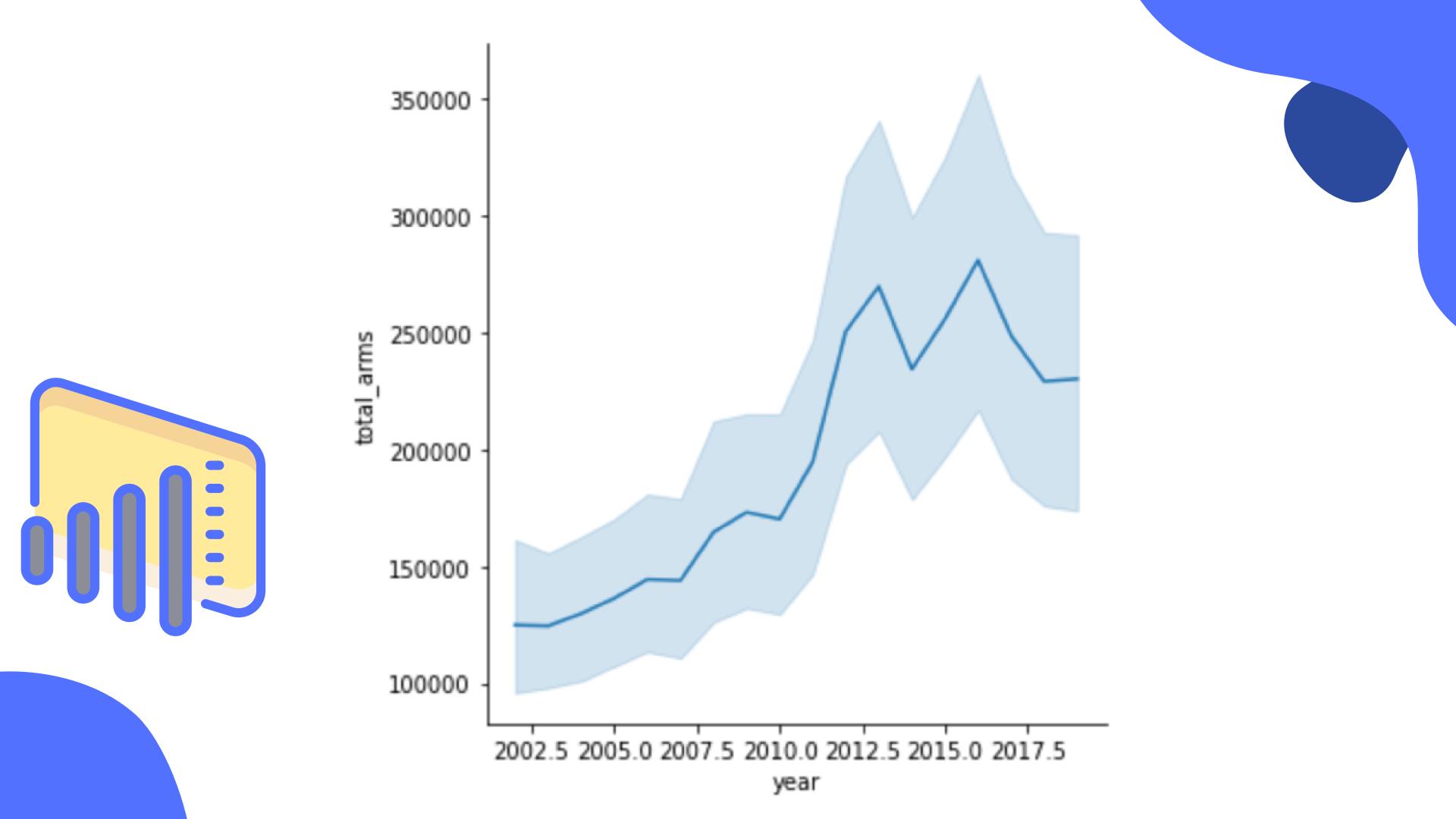


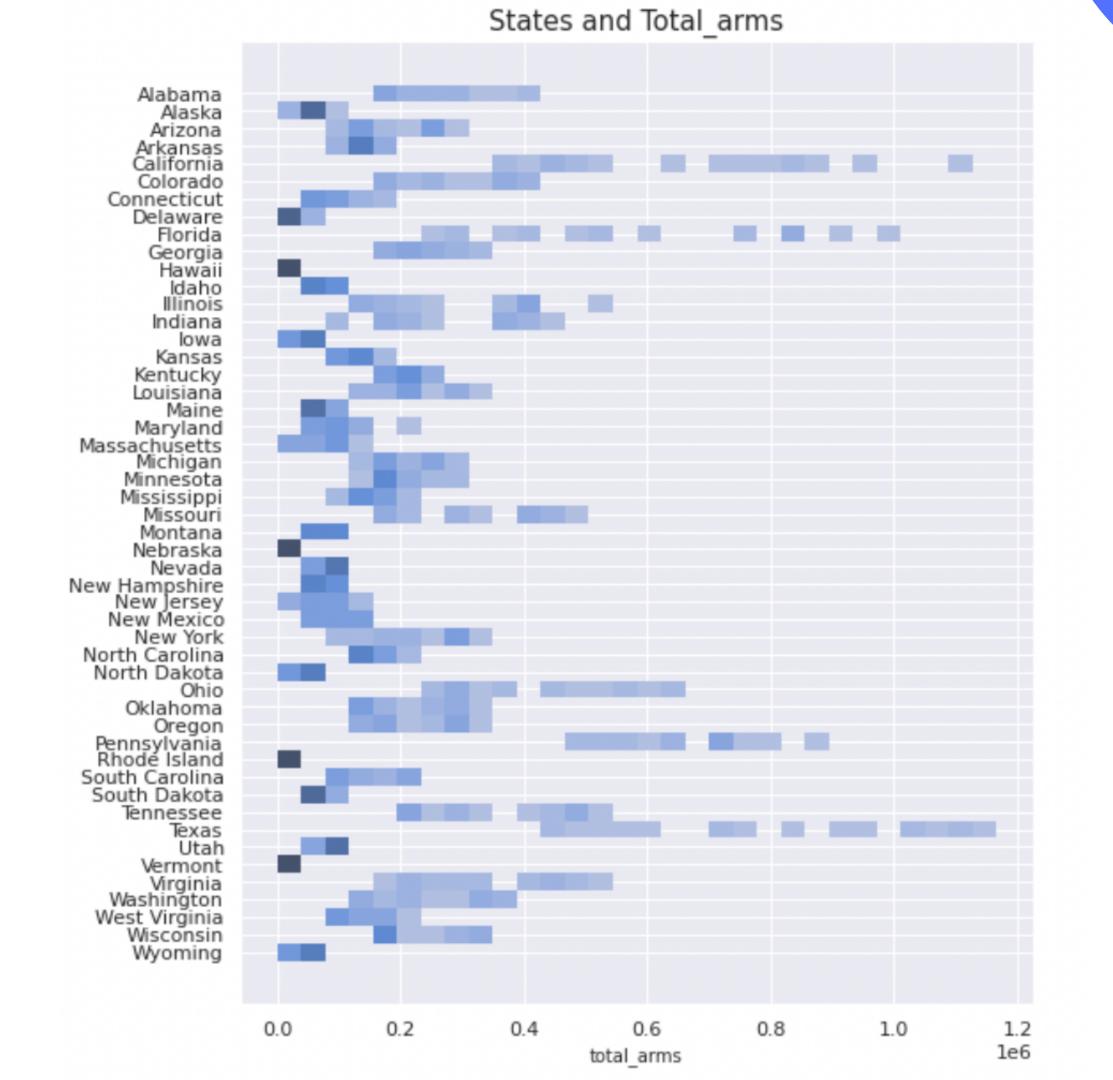
	permits	handguns	long_guns	total_gun	bg_checks
Min.	0	0	0	0	6,521
1st Qu.	35	20,362	38,242	62,771	91,197
Median	18,386	52,258	81,608	142,328	197,470
Mean	106,159	91,201	103,643	194,844	336,542
3rd. Qu	89,954	119,706	137,807	251,248	372,993
Max.	4,655,016	662,308	873,543	1,166,589	4,949,570



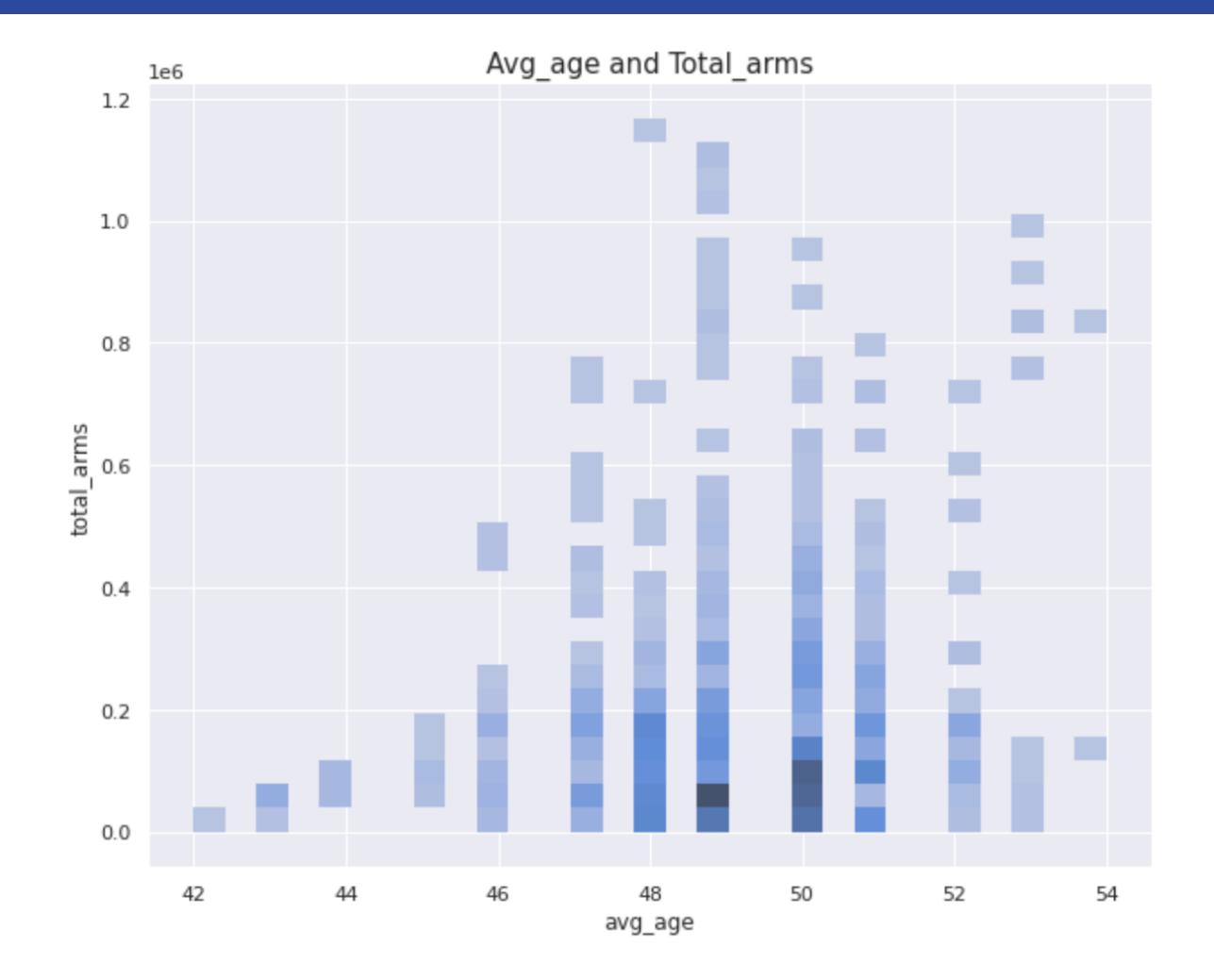
STATS - CENSUS DATA

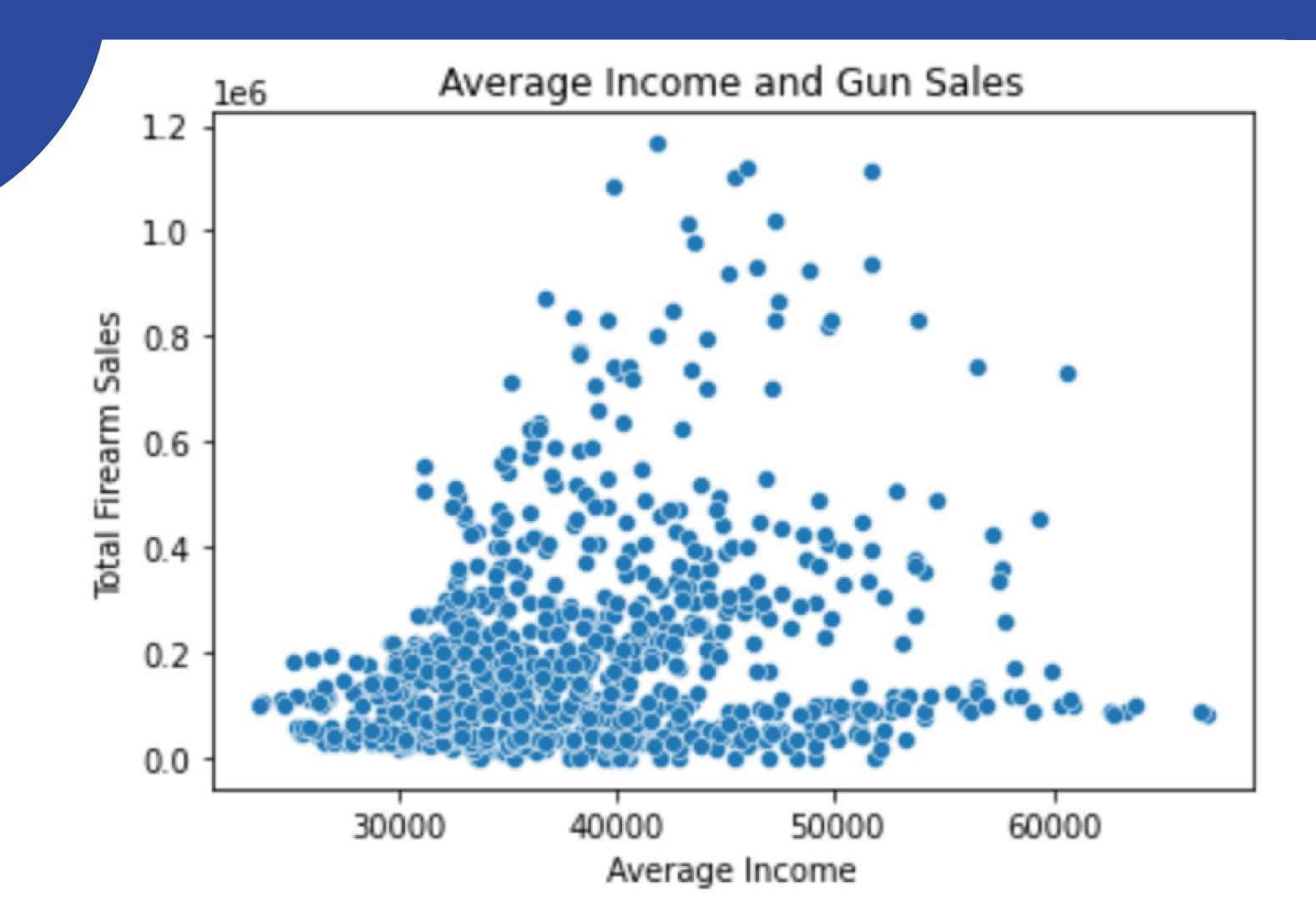
	avg_age	avg_ed	avg_inc	per_fem	per_white	per_black	per_nat	per_asian	per_hisp
Min.	42.24	6.198	23,626	0.46	0.26	0.002	0.001	0.003	0.005
1st Qu.	48.16	6.933	33,182	0.50	0.76	0.016	0.003	0.010	0.022
Median	49.33	7.140	37,597	0.51	0.86	0.052	0.005	0.017	0.042
Mean	49.14	7.148	38,465	0.50	0.83	0.076	0.018	0.036	0.068
3rd. Qu	50.33	7.345	42,575	0.51	0.92	0.110	0.012	0.034	0.074
Max.	53.88	8.032	67,002	0.54	0.98	0.340	0.323	0.568	0.382

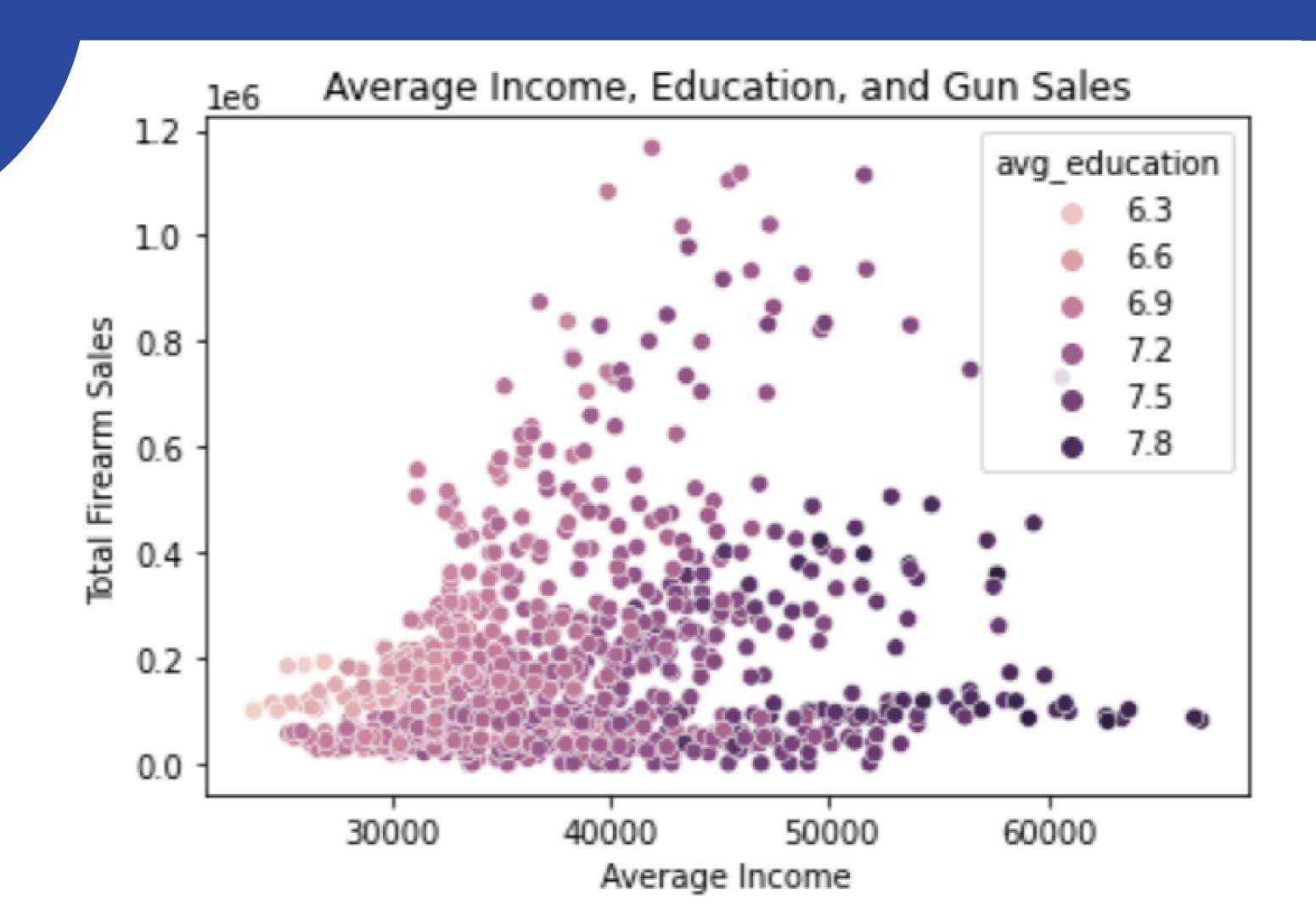


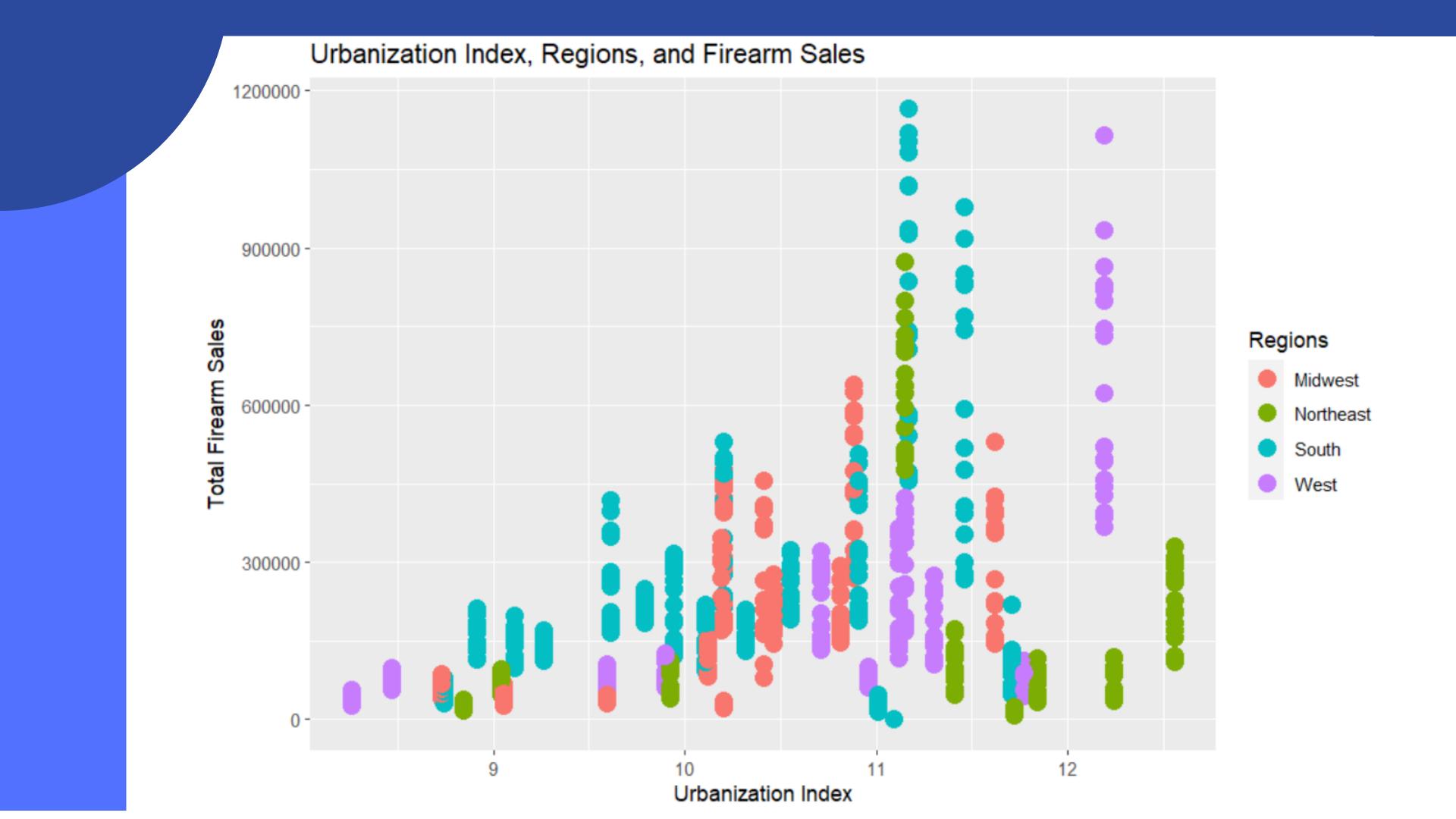












Total Firearm Sales, Average Education, and Political Leaning 1200000 -900000 -Total Firearm Sales Political Leaning Blue 600000 -Purple Red 300000 -0 -7.0 6.5 7.5 8.0 Average Education

Inferences:



Factors which contribute to firearm sales



Education

Polictical Leaning

