

p2_g2_report

2026-02-19

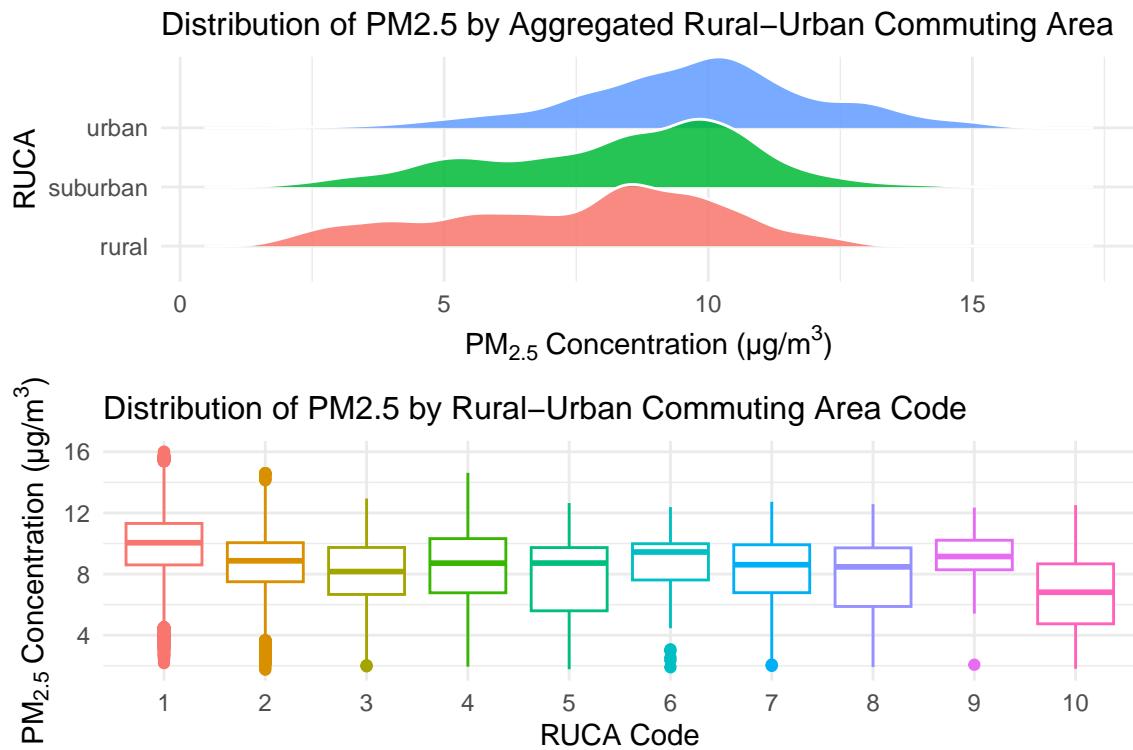
Appendix

EDA Section

Table 1: Census Tract Characteristics, by RUCA Categorization – Median (Q1, Q3)

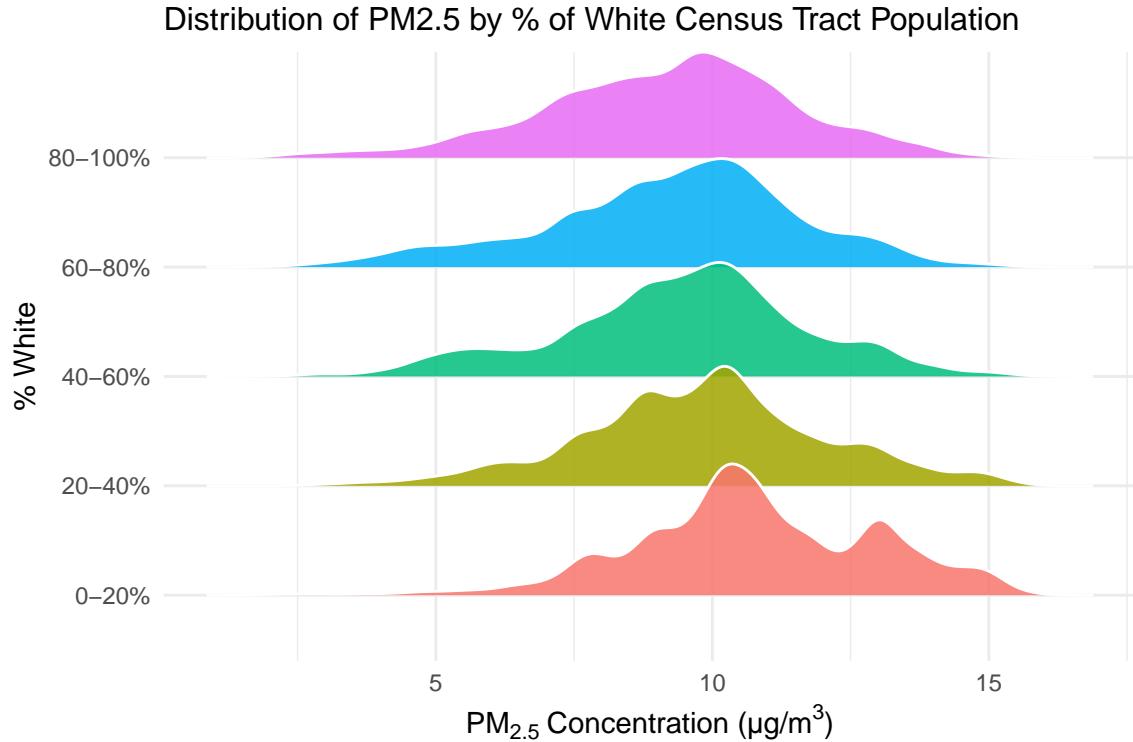
Characteristic	Overall N = 58,030	rural N = 1,126	suburban N = 1,702	urban N = 55,202	p-value
PM 2.5	9.87 (8.34, 11.10)	8.12 (5.60, 9.55)	8.76 (6.66, 10.12)	9.92 (8.45, 11.17)	<0.001
Coal Power Plant Impact (HyADS)	0.67 (0.22, 1.03)	0.65 (0.25, 1.00)	0.72 (0.37, 1.10)	0.67 (0.22, 1.02)	<0.001
Black Carbon	9.00 (8.11, 10.50)	8.17 (7.39, 9.18)	8.43 (7.80, 9.53)	9.04 (8.15, 10.60)	<0.001
Total Population	4,098.00 (2,971.00, 5,431.00)	3,753.50 (2,726.00, 4,950.00)	4,105.50 (3,065.00, 5,420.00)	4,104.50 (2,973.00, 5,441.00)	<0.001
Population Density (per km^2)	1,110.85 (328.46, 2,302.84)	25.80 (9.78, 79.39)	137.35 (37.07, 545.48)	1,185.90 (403.27, 2,390.12)	<0.001
Percent in Poverty	10.65 (5.29, 19.81)	13.50 (9.04, 19.37)	13.71 (8.78, 20.60)	10.44 (5.16, 19.79)	<0.001
Percent White	69.67 (36.67, 86.57)	89.27 (70.46, 95.78)	84.49 (66.61, 93.61)	68.60 (35.04, 85.87)	<0.001
Percent Black	4.61 (1.38, 15.92)	0.63 (0.28, 3.59)	1.50 (0.49, 7.00)	4.83 (1.50, 16.46)	<0.001
Percent Asian	1.92 (0.67, 5.06)	0.41 (0.22, 0.74)	0.62 (0.30, 1.24)	2.07 (0.73, 5.34)	<0.001
Percent Hispanic	7.54 (3.02, 21.32)	2.95 (1.43, 9.31)	4.69 (1.73, 13.45)	7.79 (3.15, 21.86)	<0.001

Figure 1: Distribution of PM2.5 by Rural-Urban Commuting Area and Code

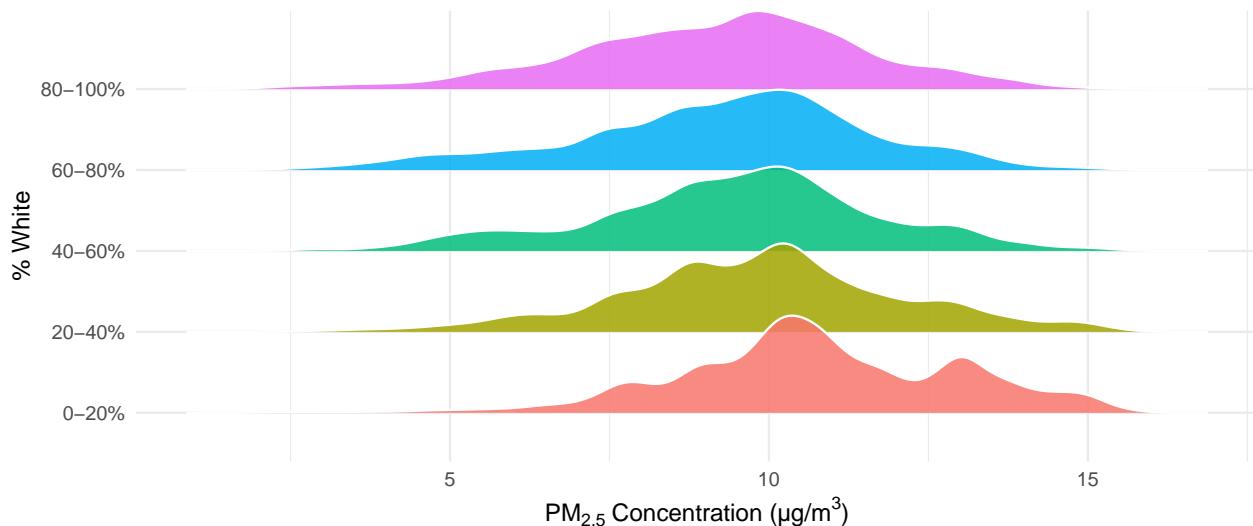


For the below, can include either the combined figure or just the PM_{2.5} figure!

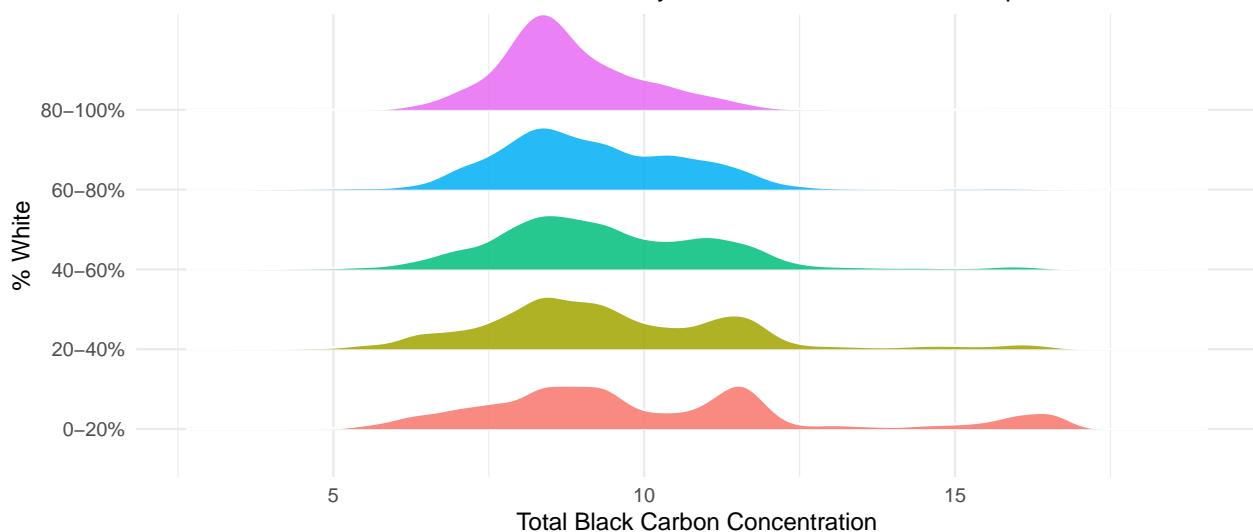
Figure 2: Distribution of PM_{2.5} by % of White Census Tract Population



Distribution of PM_{2.5} by % of White Census Tract Population



Distribution of Black Carbon Concentration by % of White Census Tract Population



Distribution of HyADS by % of White Census Tract Population

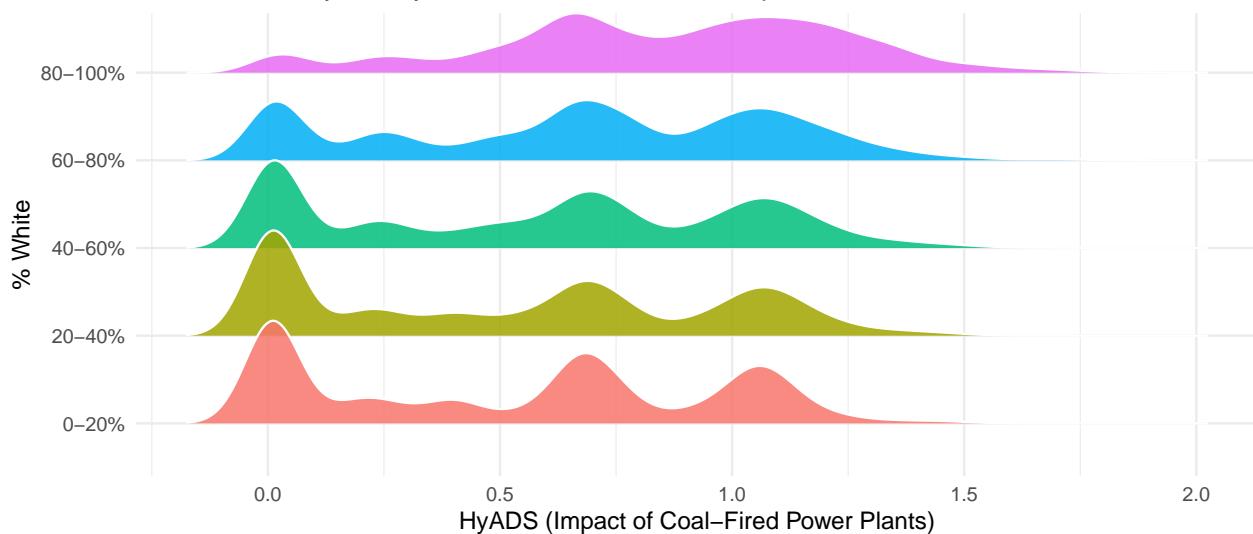


Figure 3: MAPS I will add them

Figure 4: Racial Composition by PM2.5 Exposure Percentile

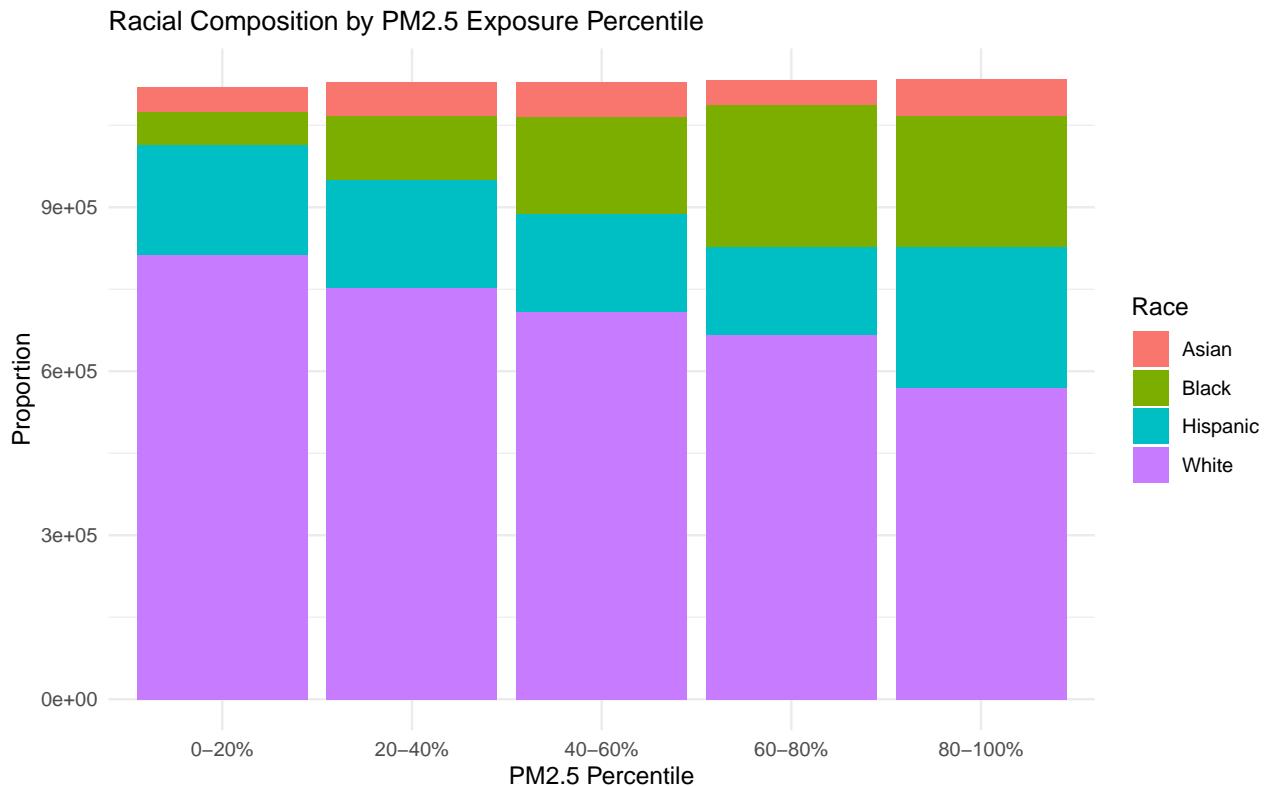


Figure 5: PM2.5 vs. % Race of Census Tract Population

