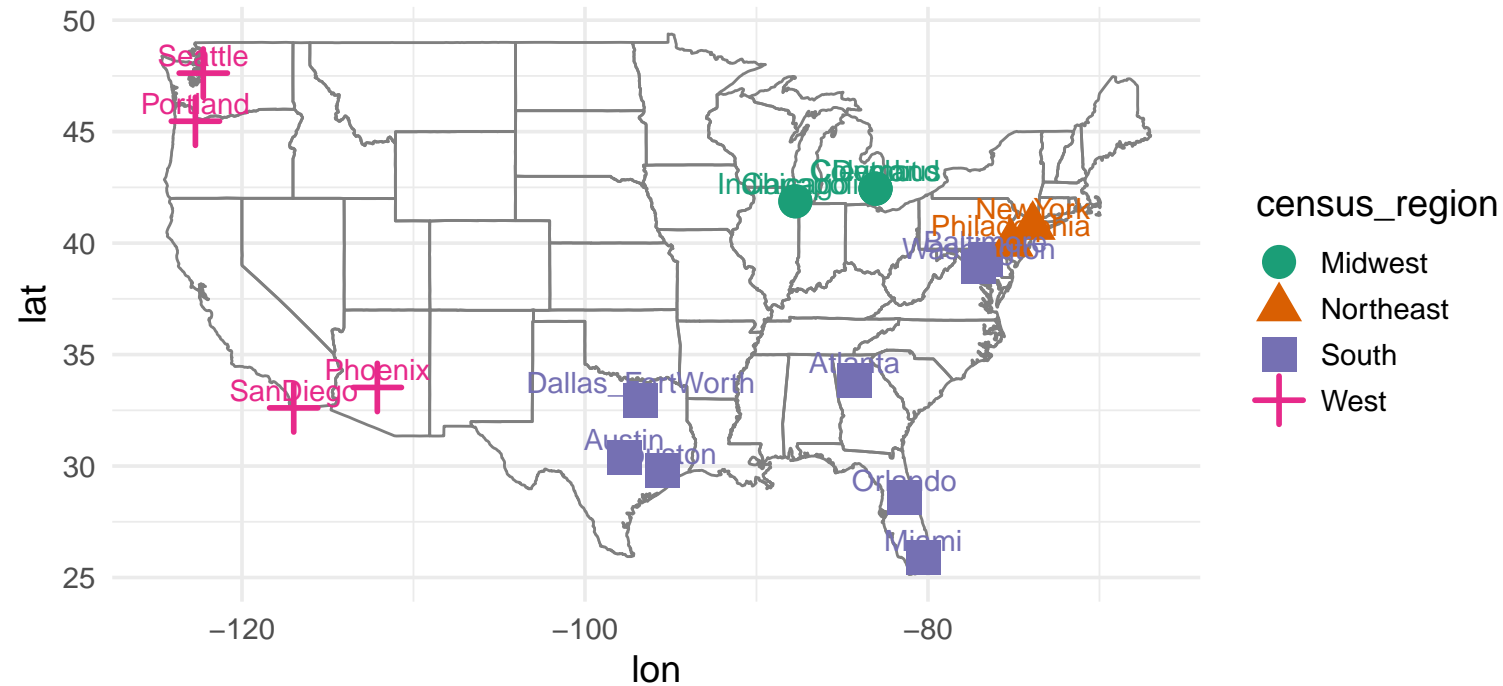
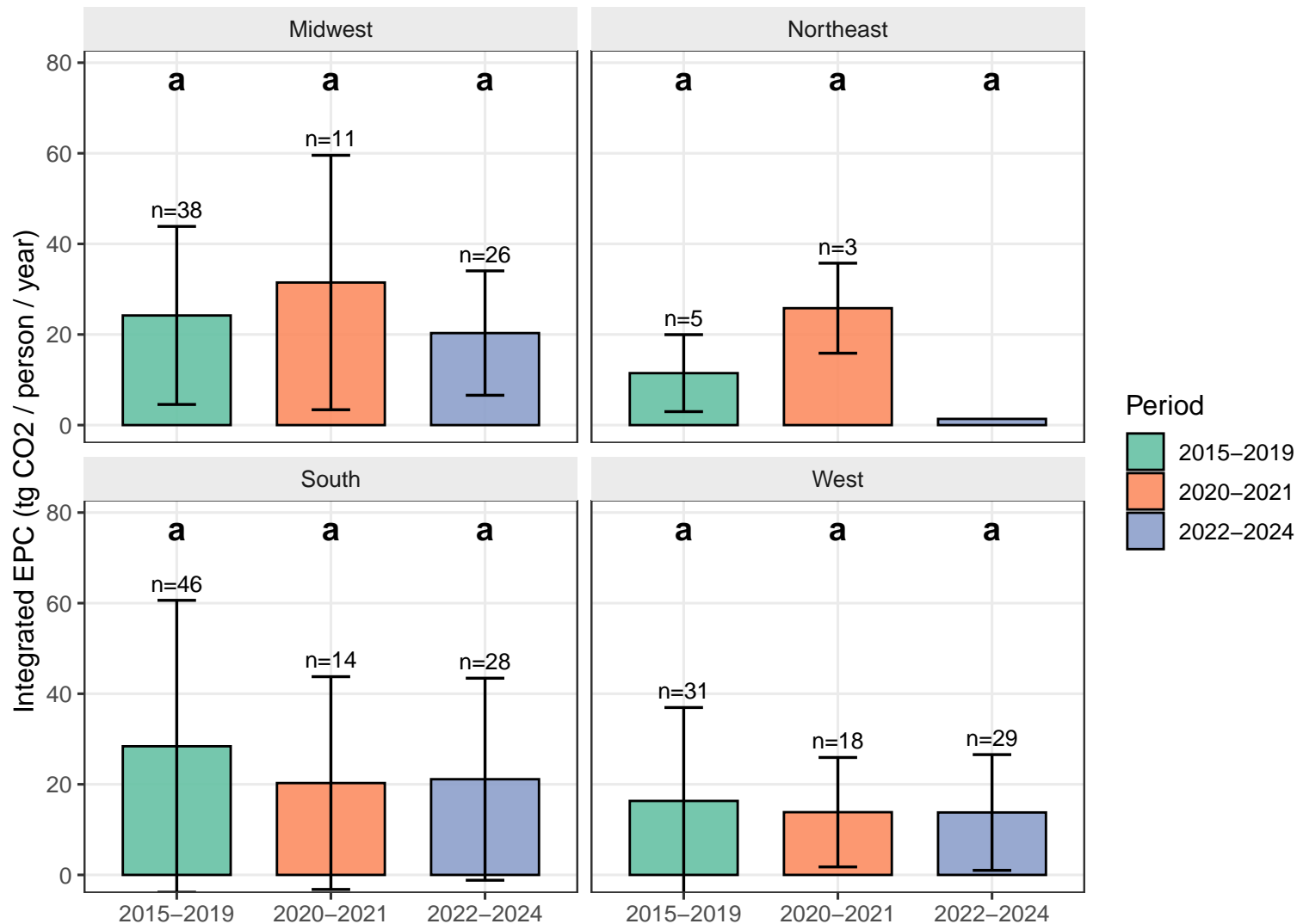


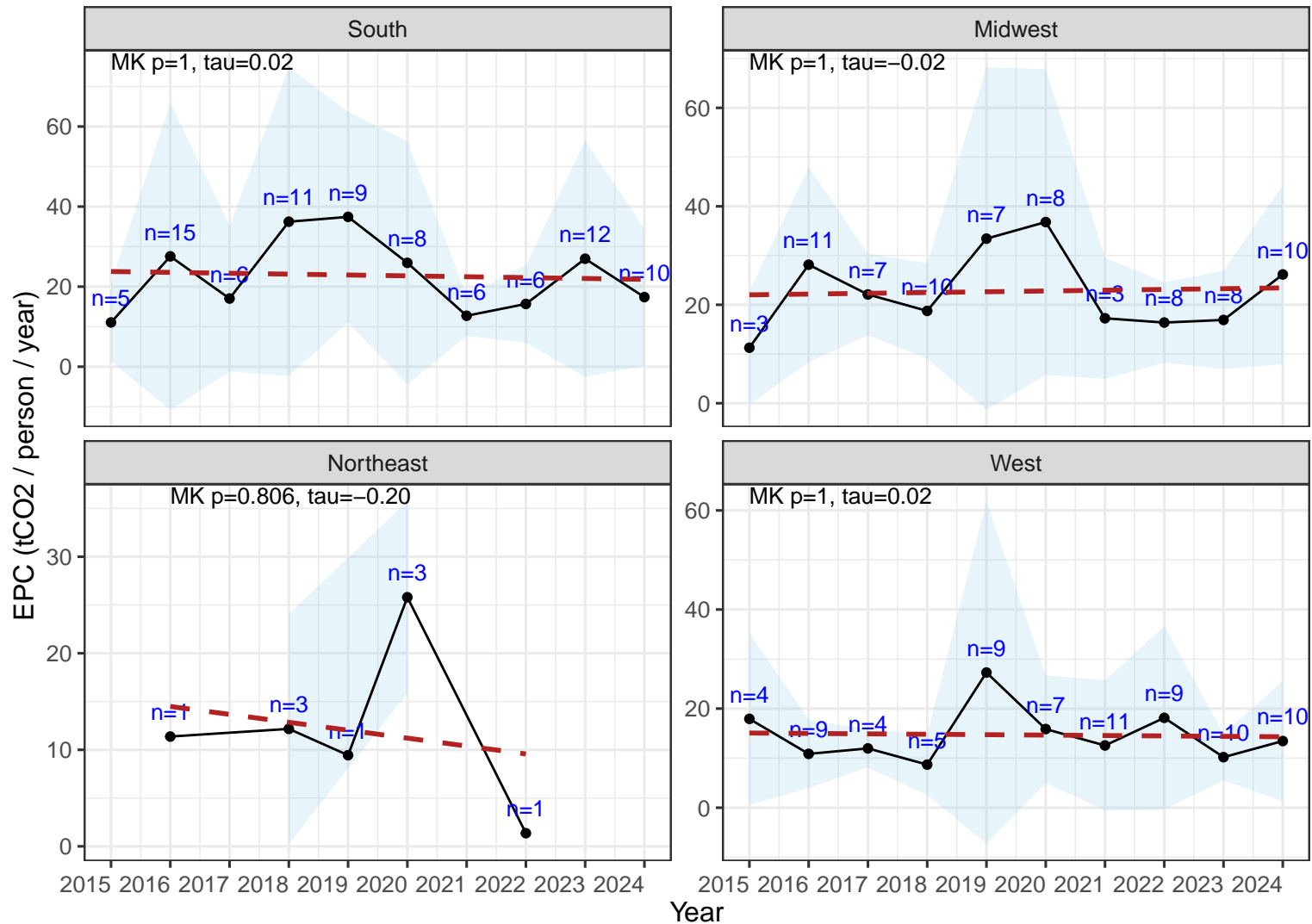
# US Census Regions Assigned to Cities



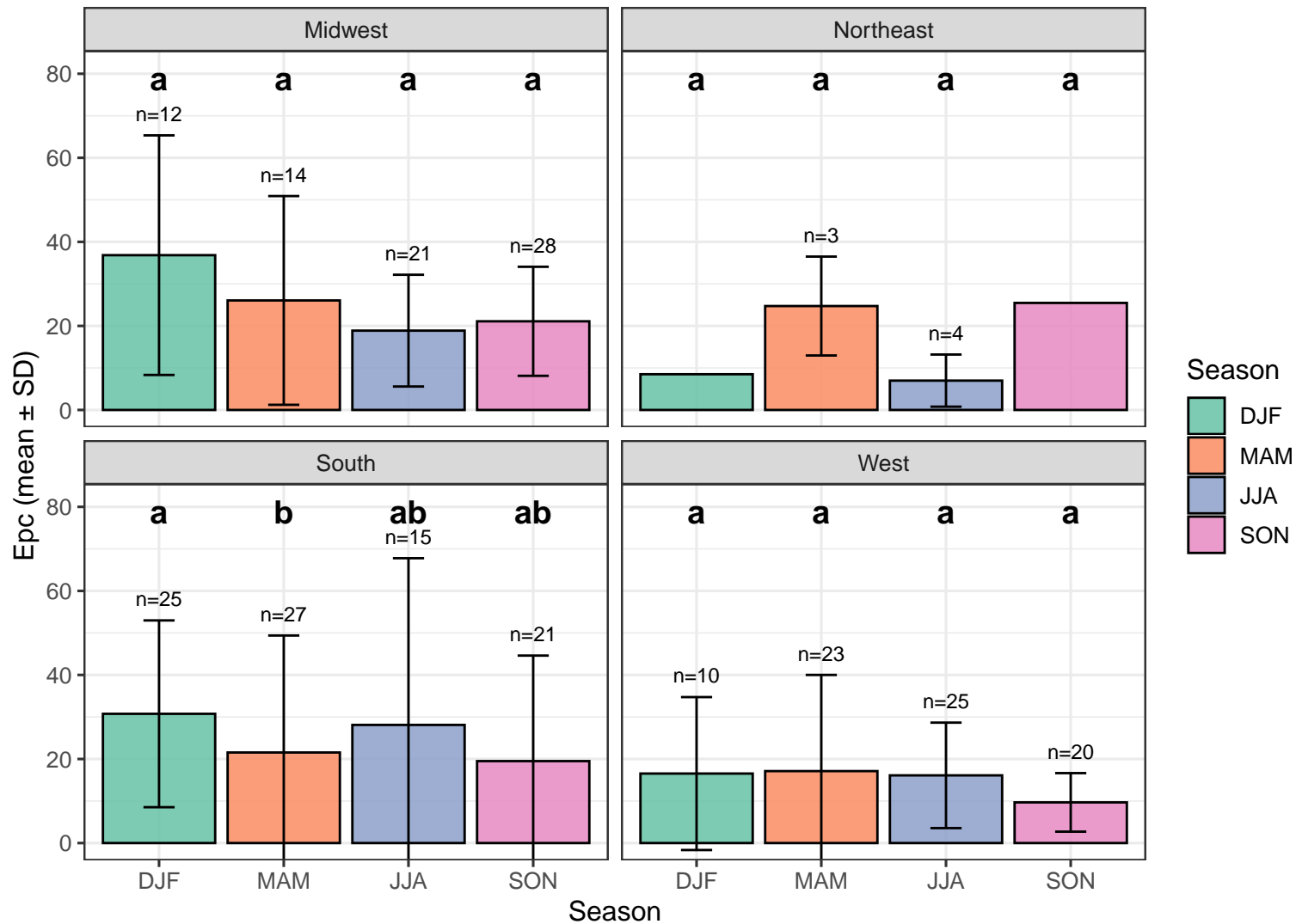
# Integrated EPC by Period (Mean $\pm$ SD)



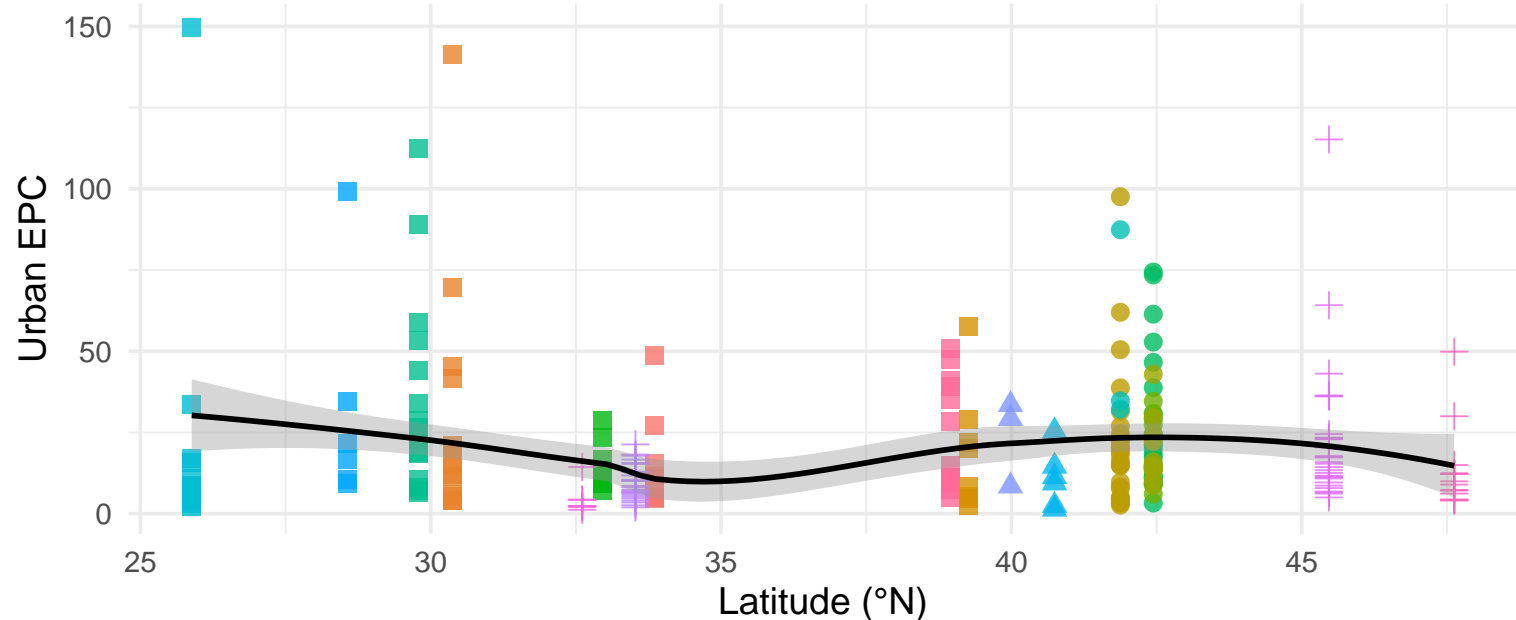
# Yearly EPC by Region (mean $\pm$ SD)



# Seasonal Mean $\pm$ SD of Epc by Region



# EPC vs Latitude for US Cities



Region ● Midwest ▲ Northeast ■ South + West

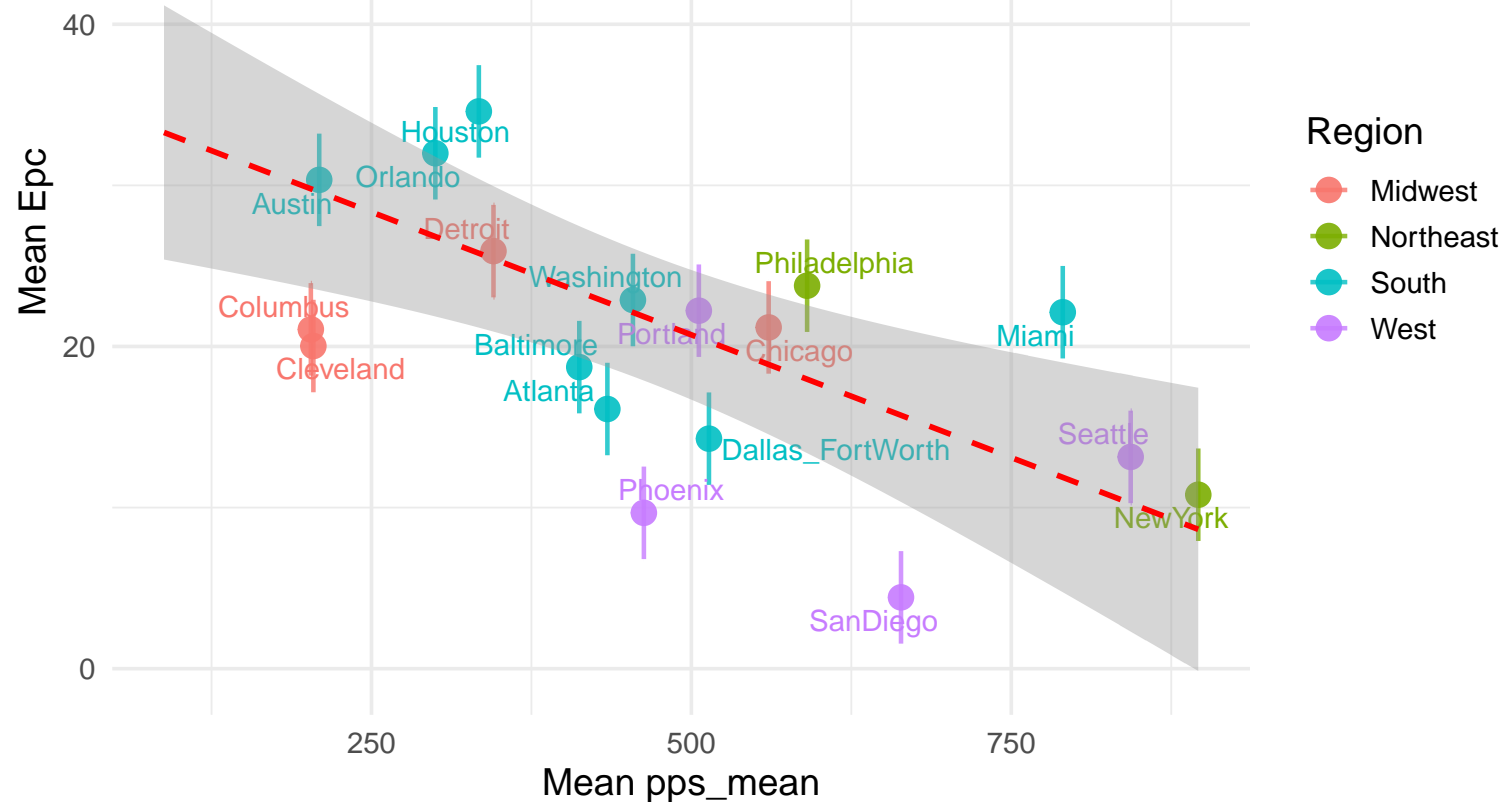
City

- |           |                  |              |              |            |
|-----------|------------------|--------------|--------------|------------|
| Atlanta   | Cleveland        | Houston      | Orlando      | SanDiego   |
| Austin    | Columbus         | Indianapolis | Philadelphia | Seattle    |
| Baltimore | Dallas_FortWorth | Miami        | Phoenix      | Washington |
| Chicago   | Detroit          | NewYork      | Portland     |            |

# Regression in linear scale (fit from log.. regression)

$$\text{log..fit: Epc} = 654.885 \times \text{pps\_mean}^{-0.587}$$

$R^2 = 0.403$



# City-mean Epc vs. pps\_mean by period

Regression lines in linear space; fits from log.. regression

2015–2019:  $E_{pc} = 1059.78 \times pps^{-0.67}$ ,  $R^2=0.34$

2020–2021:  $E_{pc} = 409.57 \times pps^{-0.53}$ ,  $R^2=0.17$

2022–2024:  $E_{pc} = 1121.28 \times pps^{-0.74}$ ,  $R^2=0.44$

