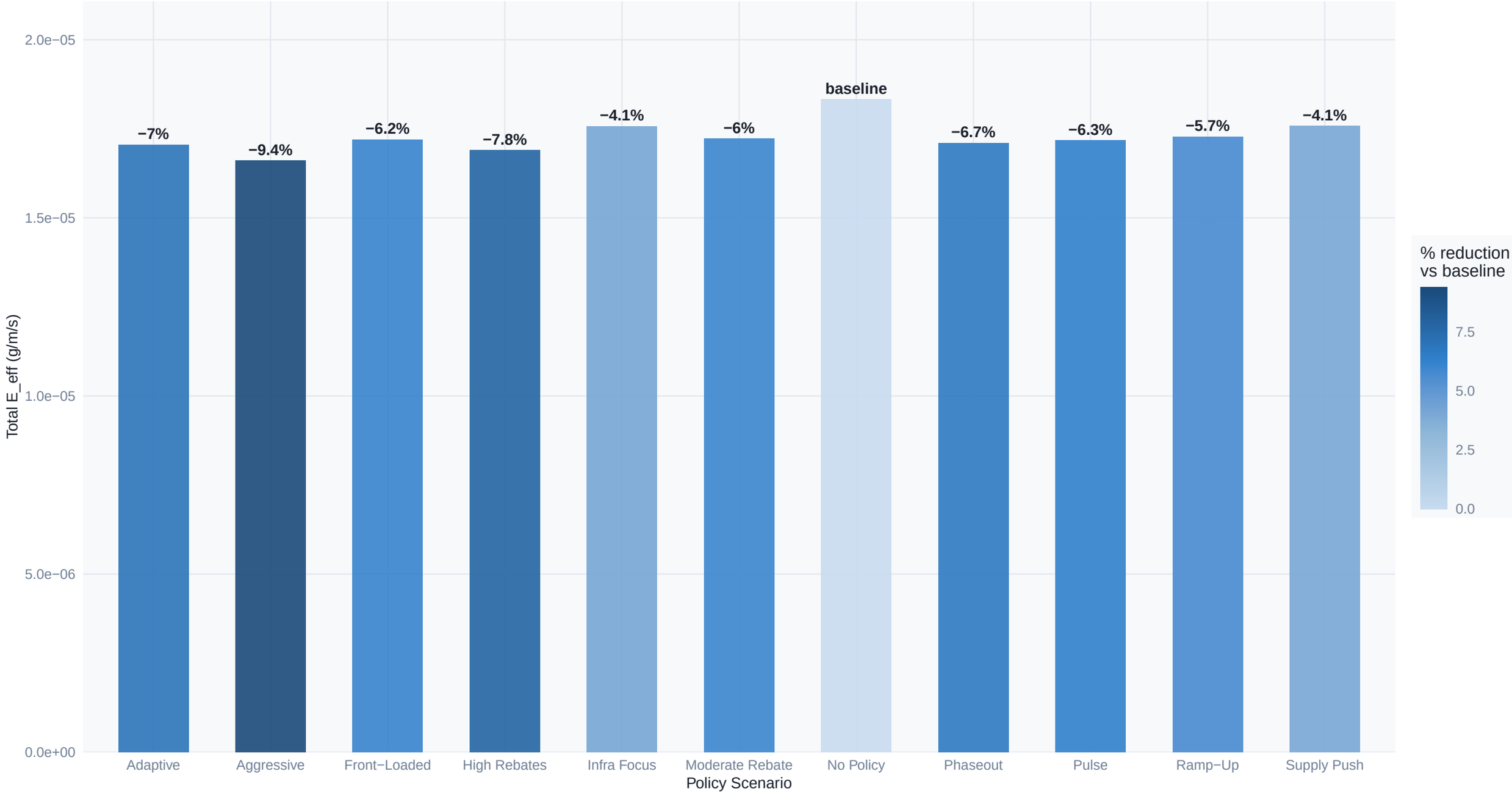
PM2.5 AV Scenarios − Year 20

Policies: No Policy | High Rebates | Infra Focus | Aggressive | Moderate Rebate | Supply Push | Phaseout | Ramp−Up | Pulse | Adaptive | Front−Loaded

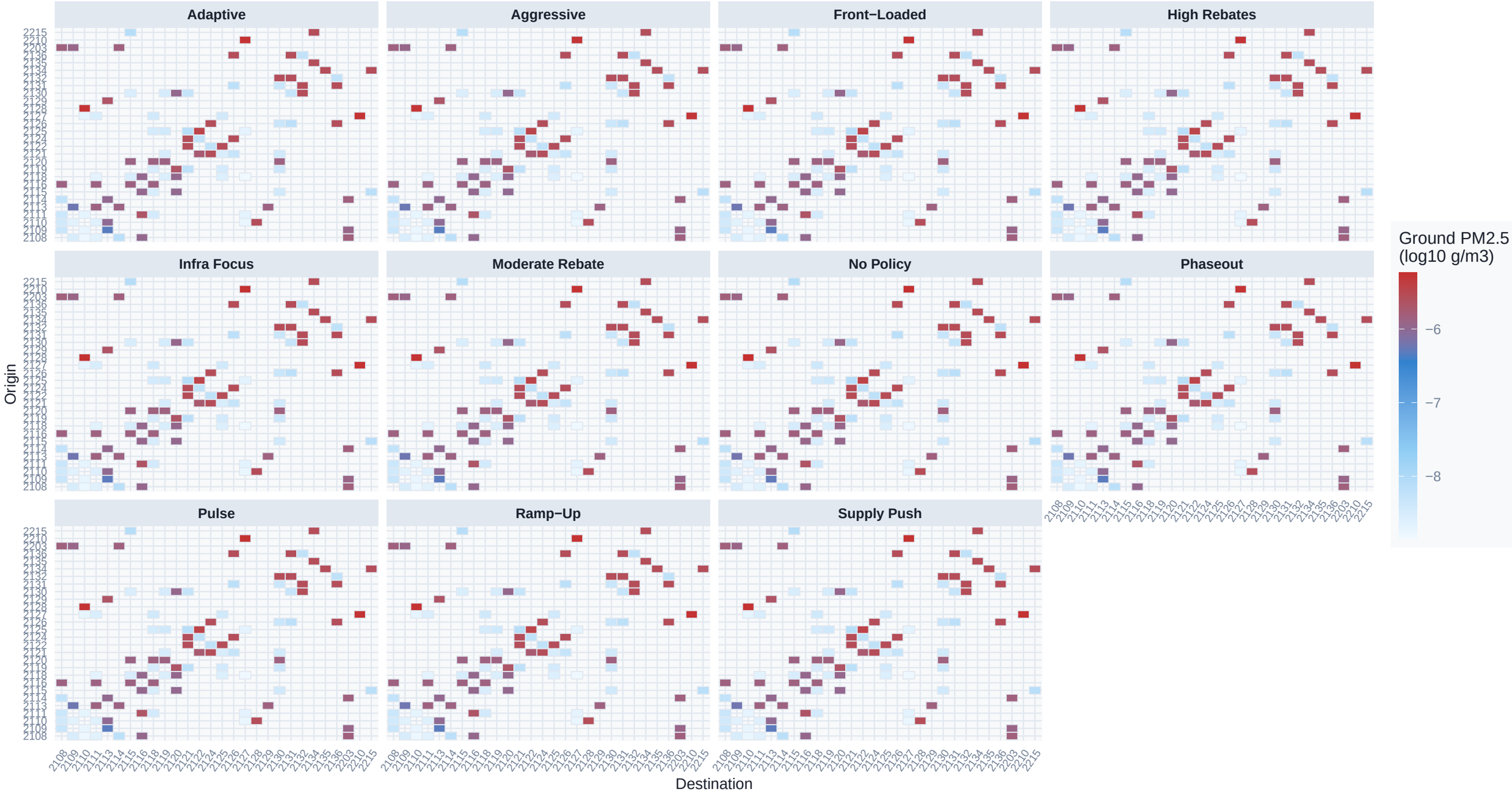
Total Network Emission Rate by Policy Scenario

Sum of E_eff across all active flow corridors; % reduction vs baseline scenario



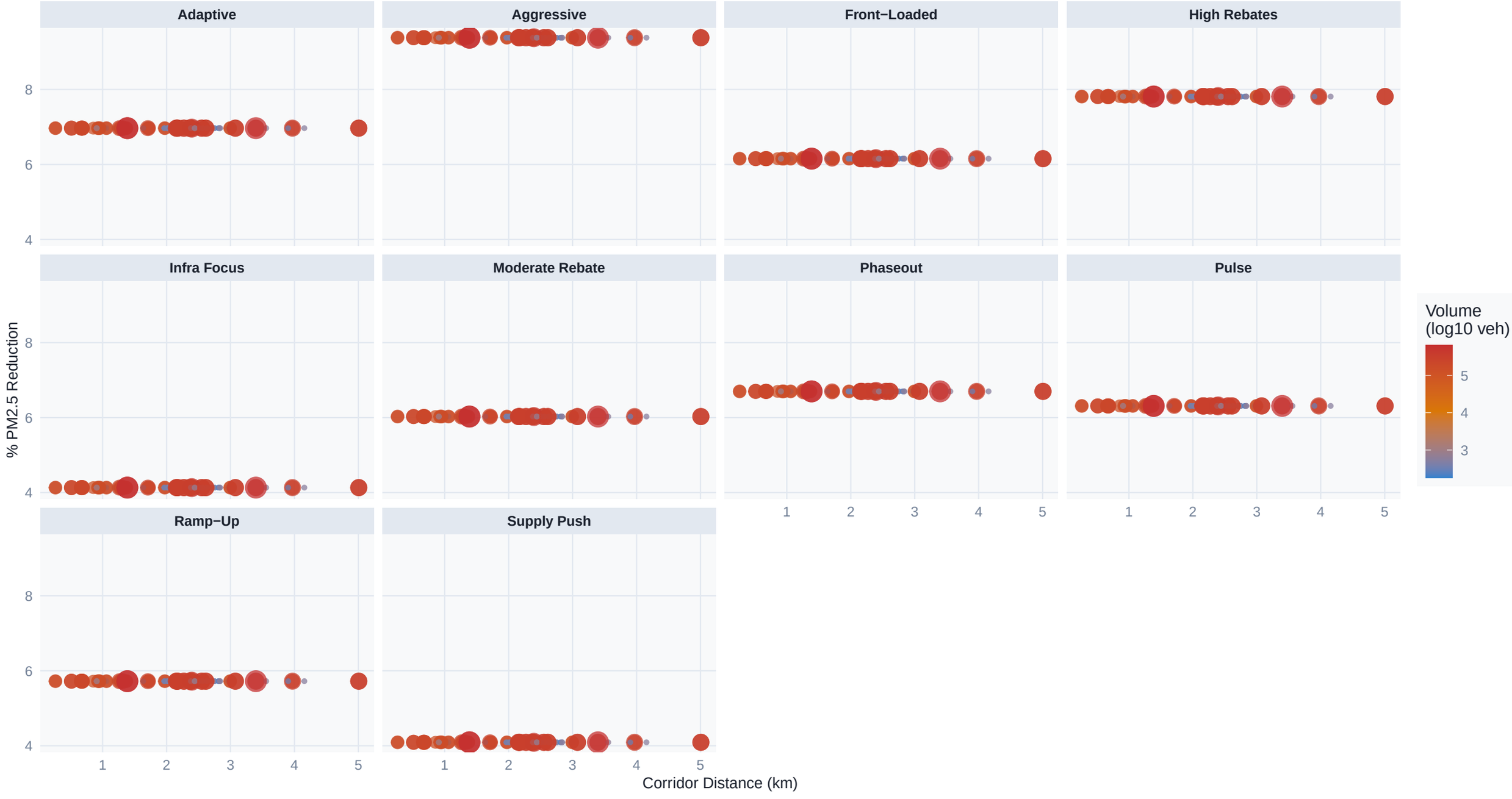
Ground−Level Peak PM2.5 by Flow Pair

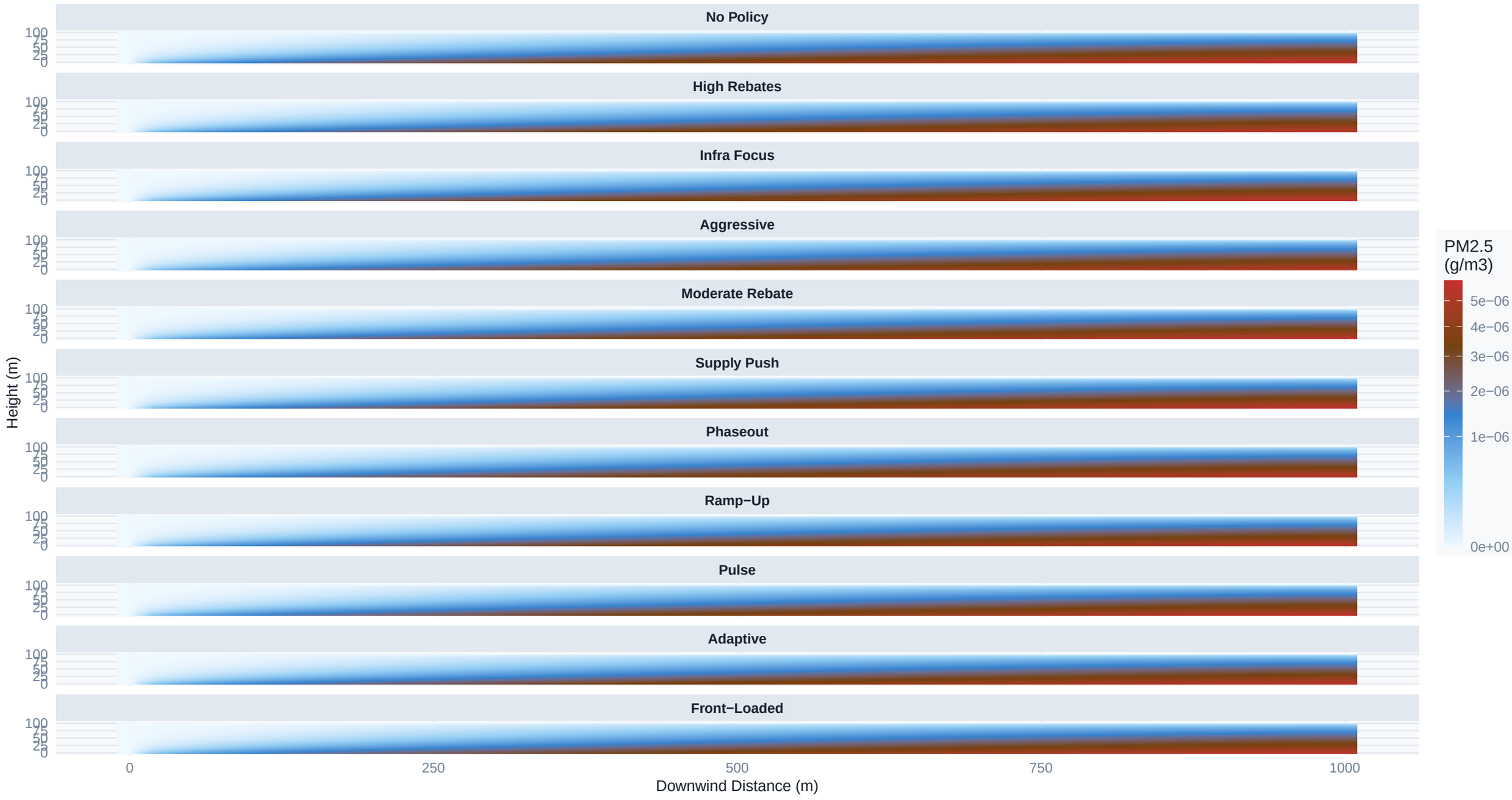
Each cell = one origin−destination corridor, color = peak ground concentration



PM2.5 Reduction by Corridor vs Baseline

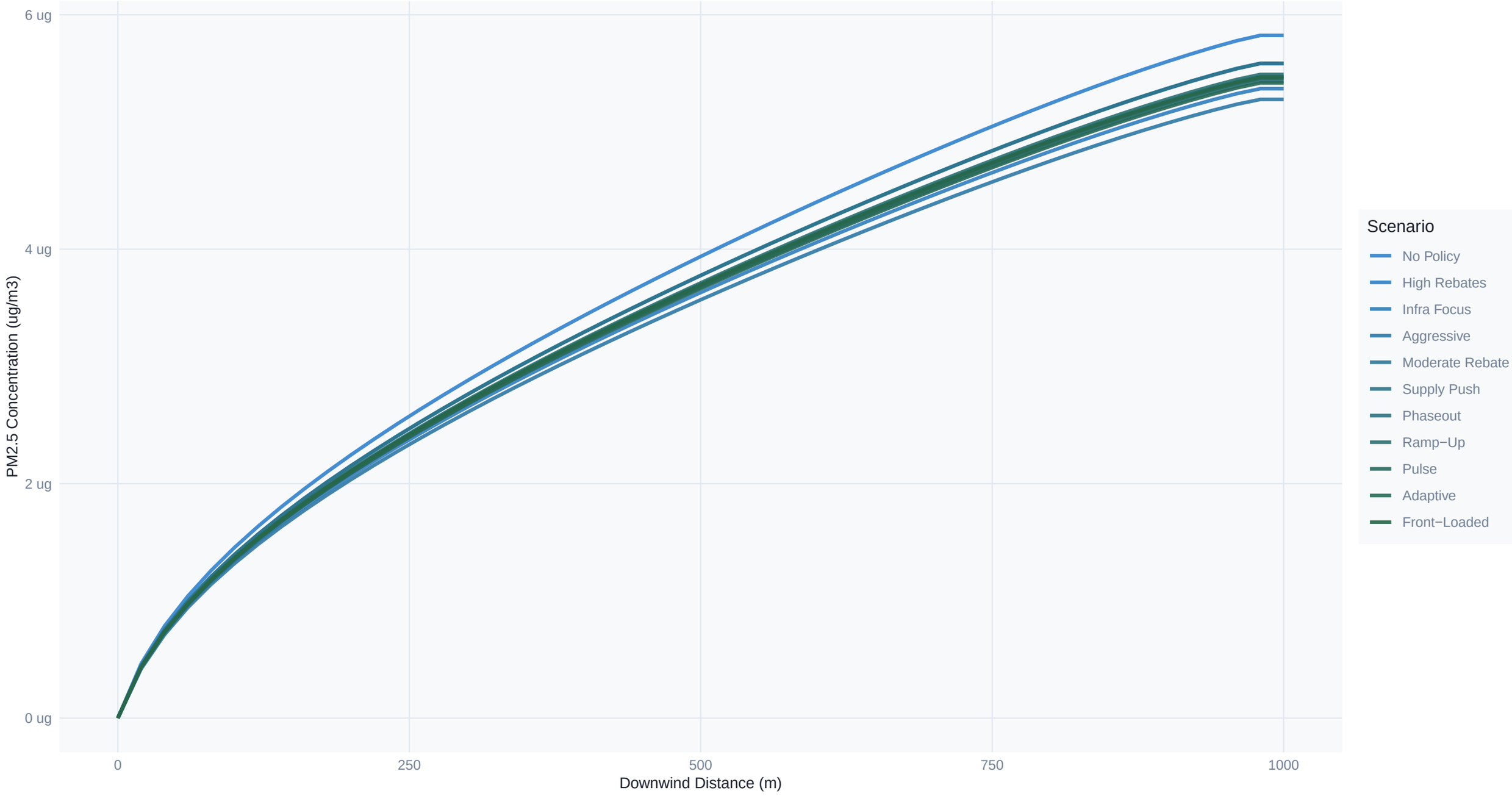
Each point = one flow pair; x = distance, y = % reduction in ground−level PM2.5




PM2.5 Plume − Busiest Corridor (2127 − 2210)
659,690 vehicles/month, 1.4 km
No Policy
High Rebates
Infra Focus
Aggressive
Moderate Rebate
Supply Push
Phaseout
Ramp−Up
Pulse
Adaptive
Front−Loaded
Height (m)
0
25
50
75
100
0
250
500
750
1000
Downwind Distance (m)
PM2.5 (g/m3)
5e−06
4e−06
3e−06
2e−06
1e−06
0e+00

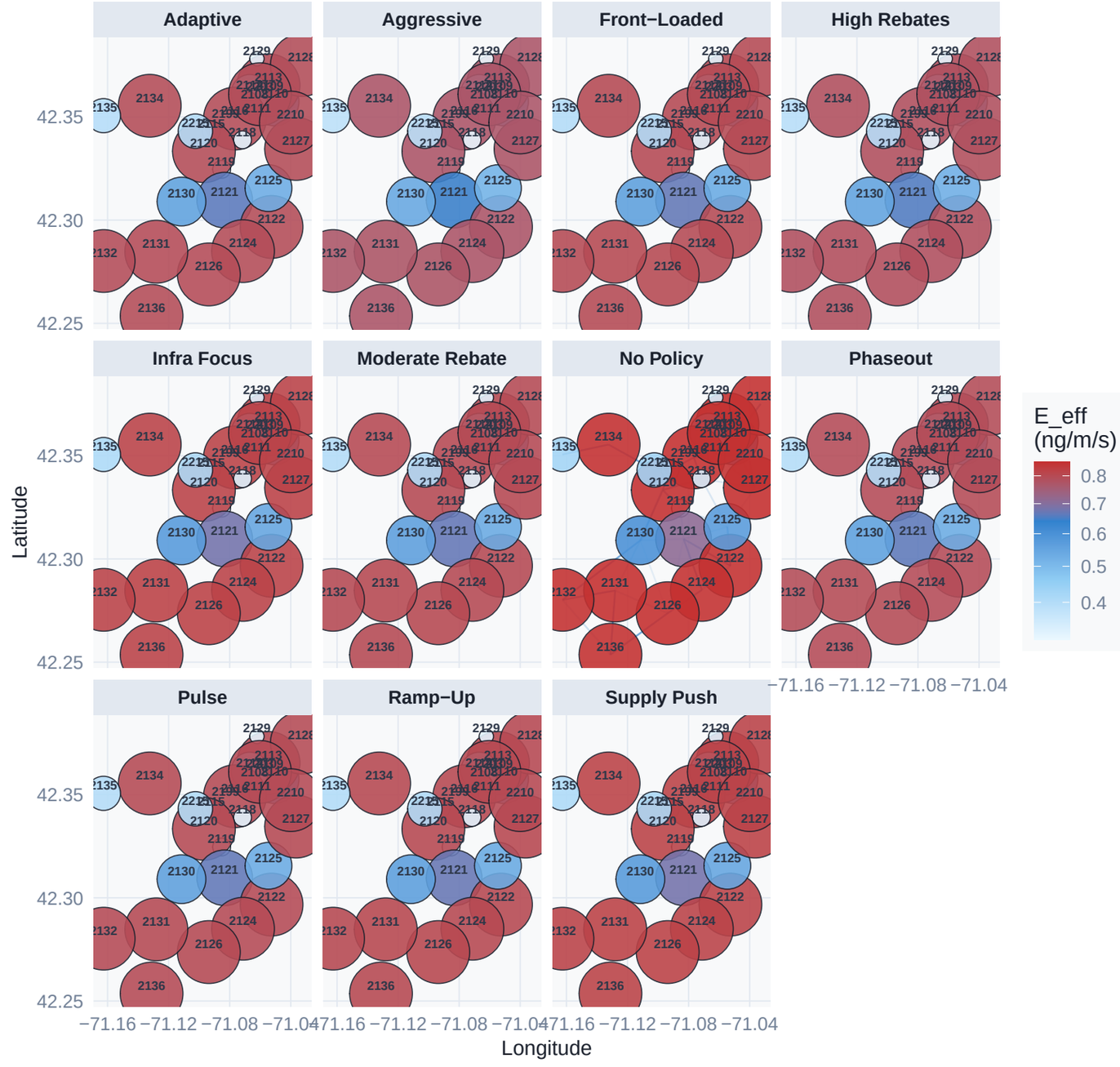
Ground−Level PM2.5 Profile − 2127 − 2210

Concentration along downwind axis at z = 0 (street level), converted to ug/m3



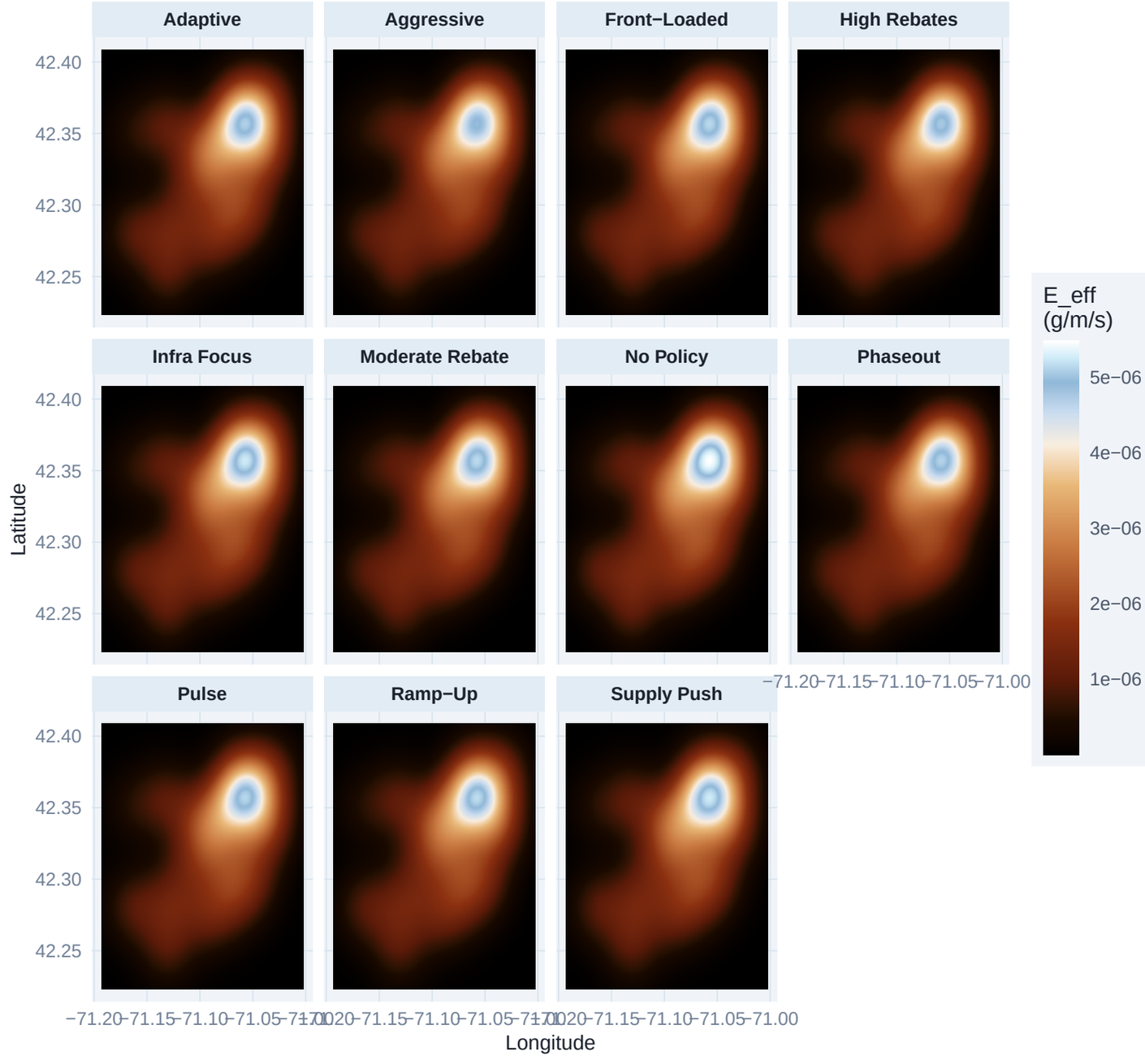
Spatial Distribution of PM2.5 Emission Burden

Node size = outbound vehicle volume, color = total emission rate



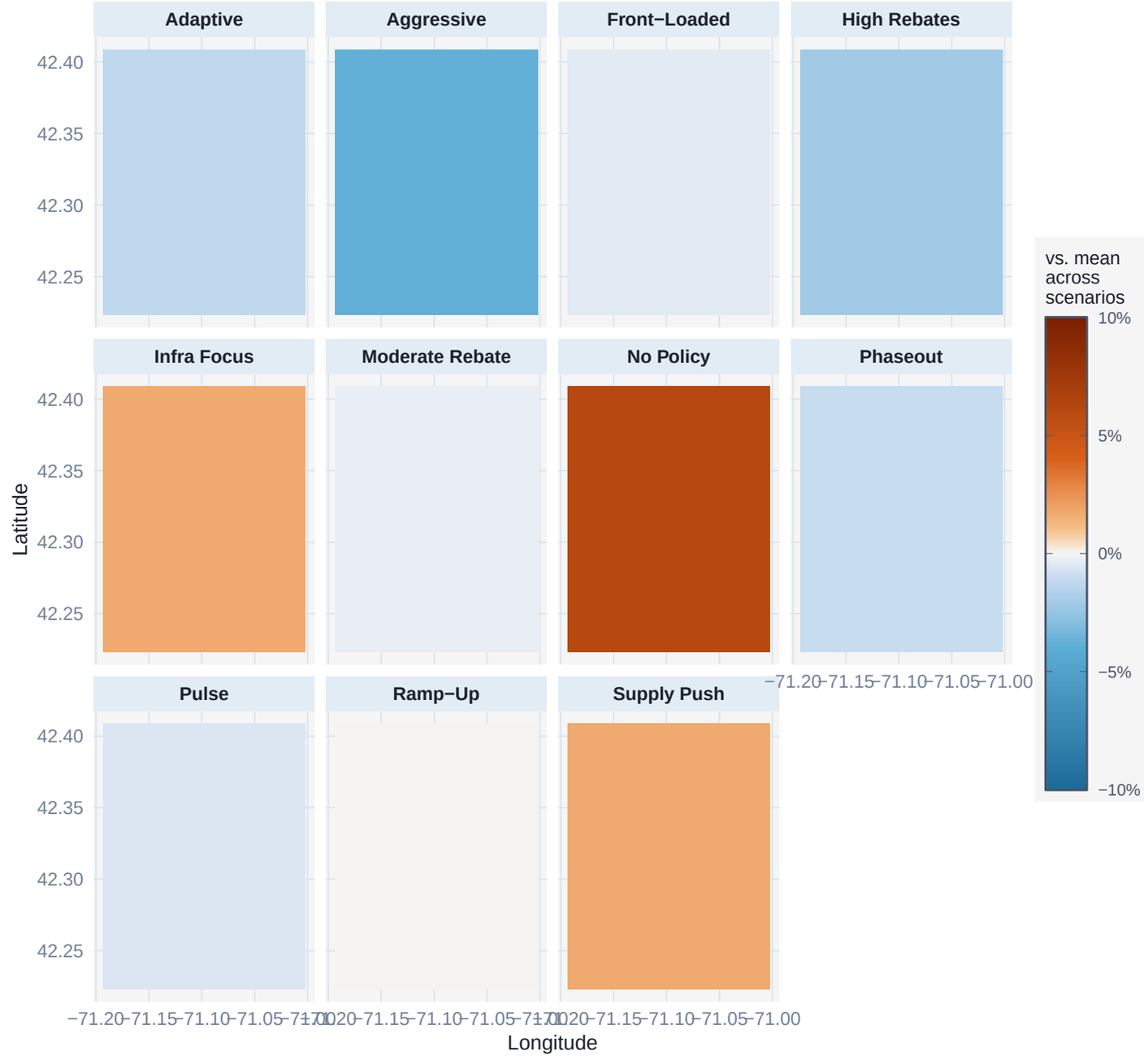
Spatial Distribution of PM2.5 Emission Burden (Absolute)

Gaussian emission surface per zone, warmer color = more pollution



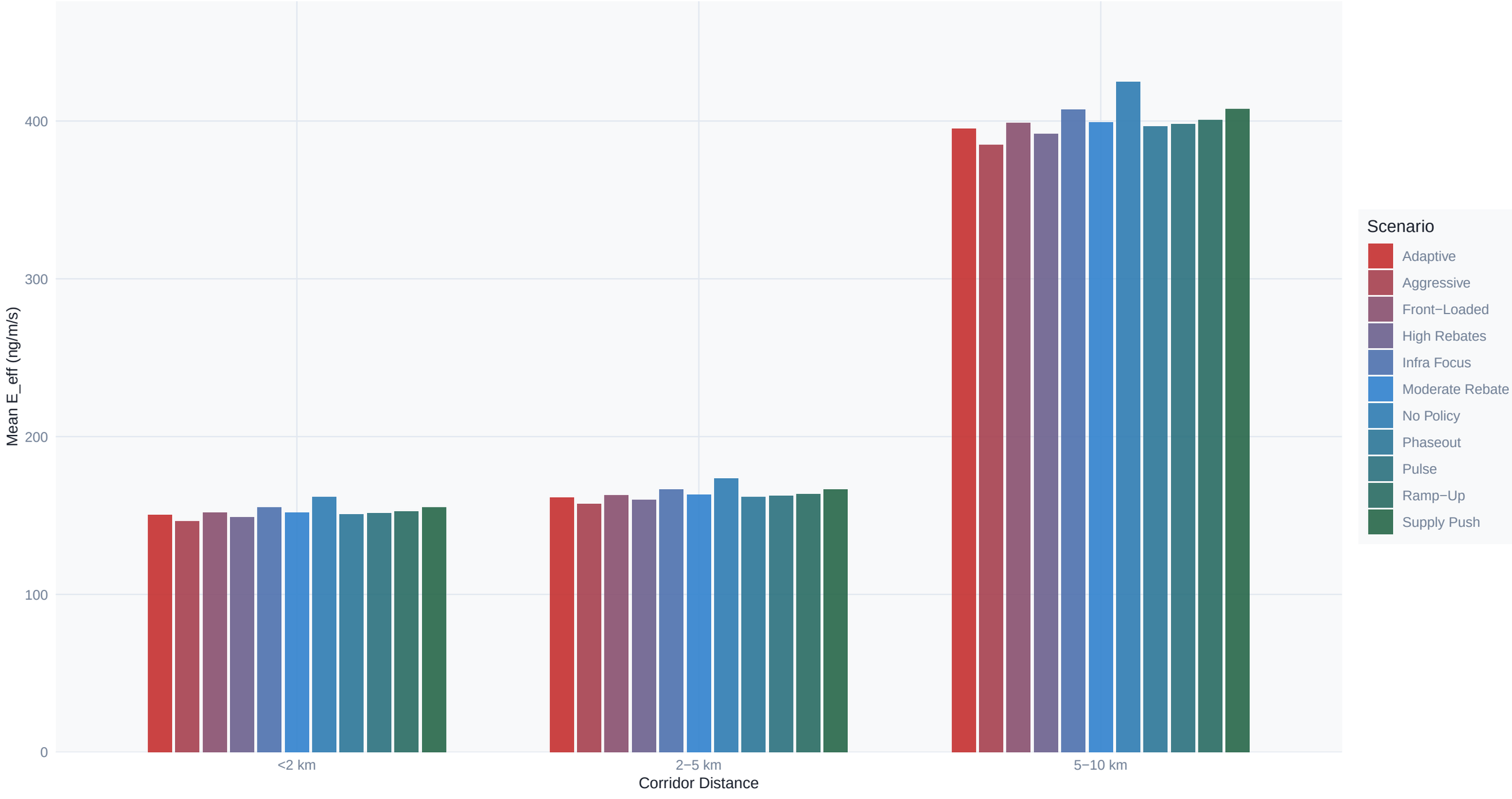
Spatial PM2.5 Emission Burden: Deviation from Cross−Scenario Mean

Orange/red = above average; blue = below average at each map cell



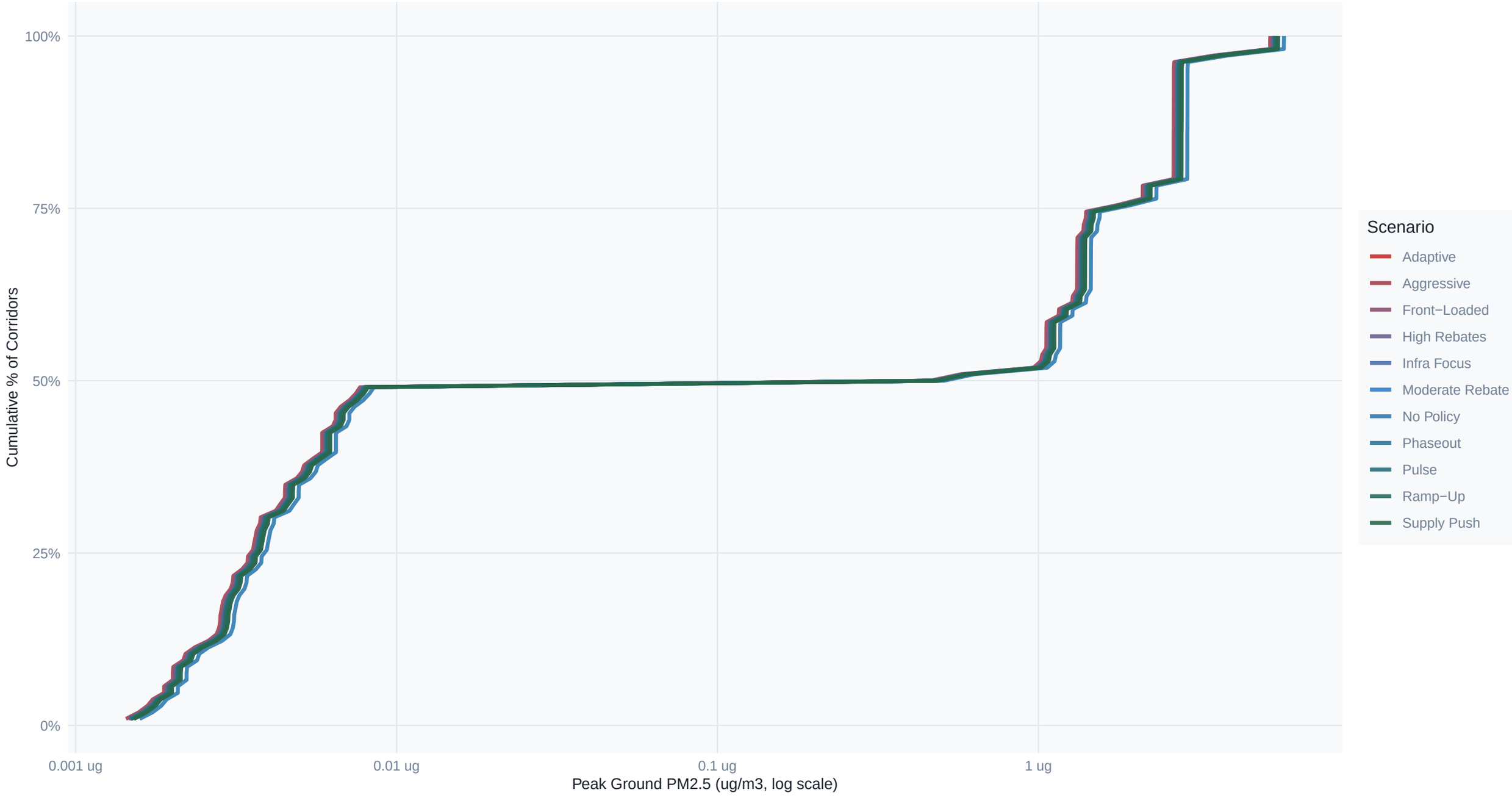
Mean Emission Rate by Corridor Distance Band

Average E_eff per corridor length category



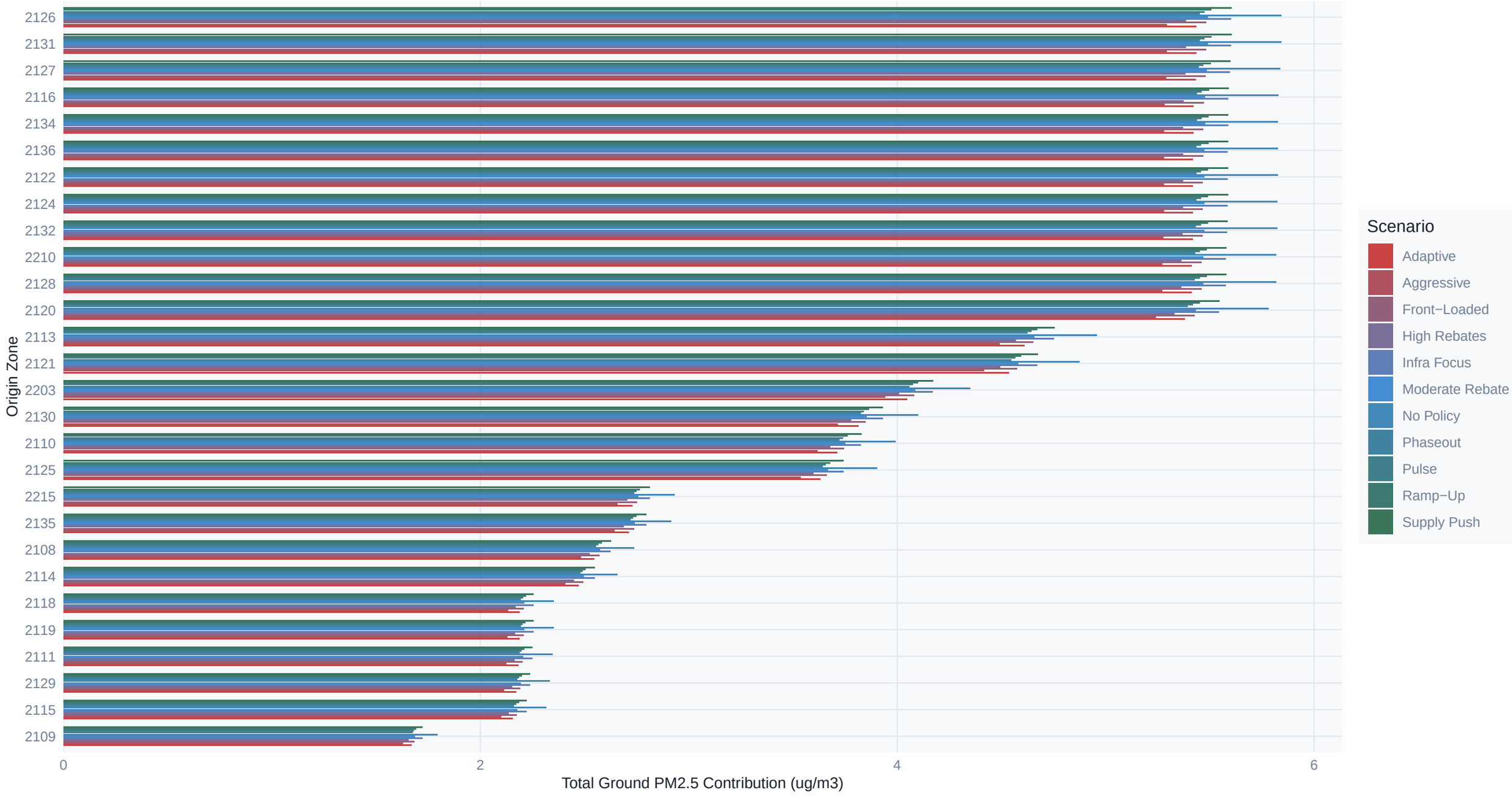
Cumulative Distribution of Peak Ground−Level PM2.5

Each point = one corridor, rightward shift = worse air quality



PM2.5 Burden by Origin Zone

Sum of peak ground concentrations across all outbound corridors per zone



Vehicle Volume vs. Peak Ground PM2.5 by Corridor

Both axes log scale, color = corridor distance