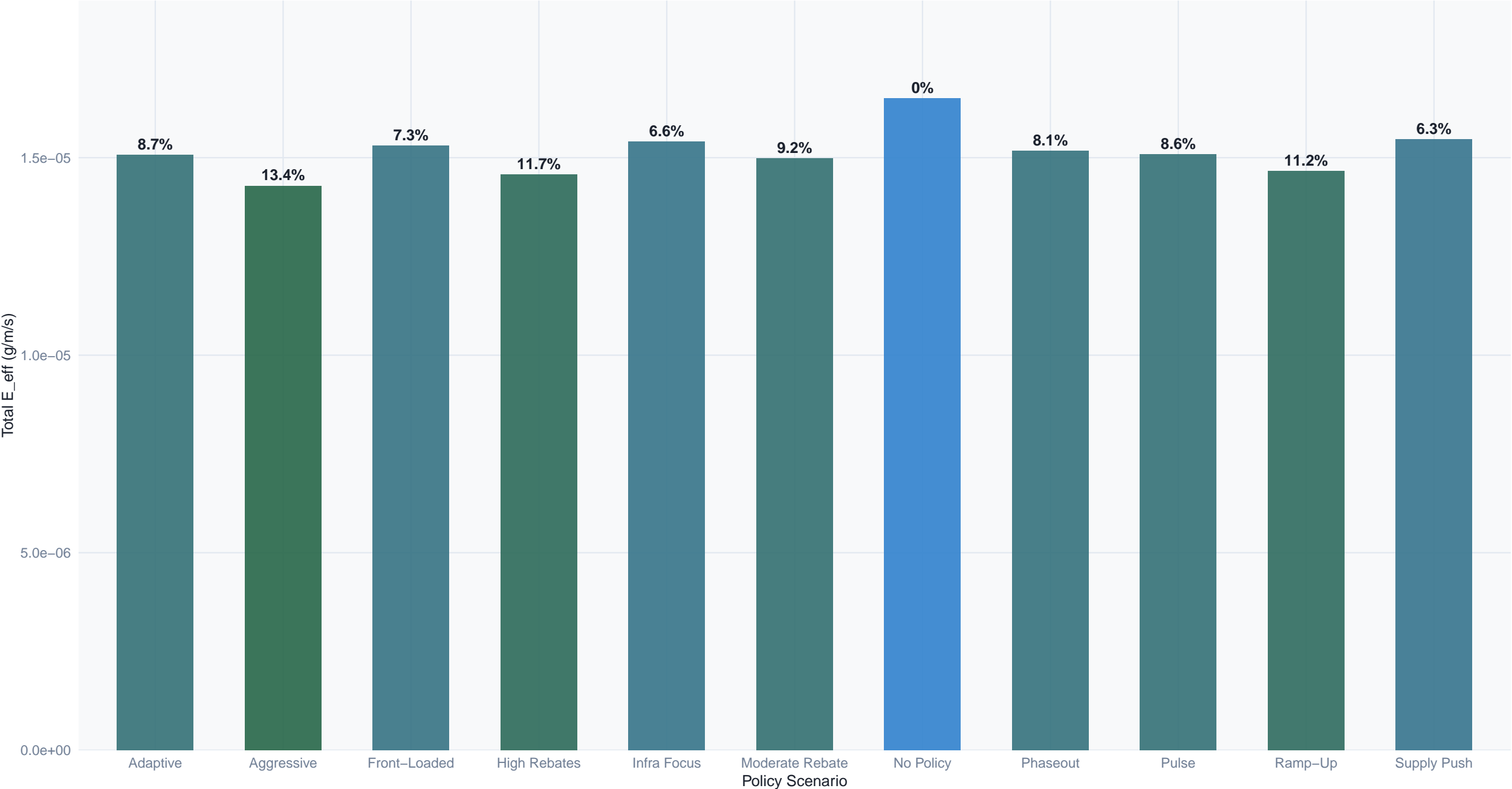


# PM2.5 AV Scenarios – Year 30

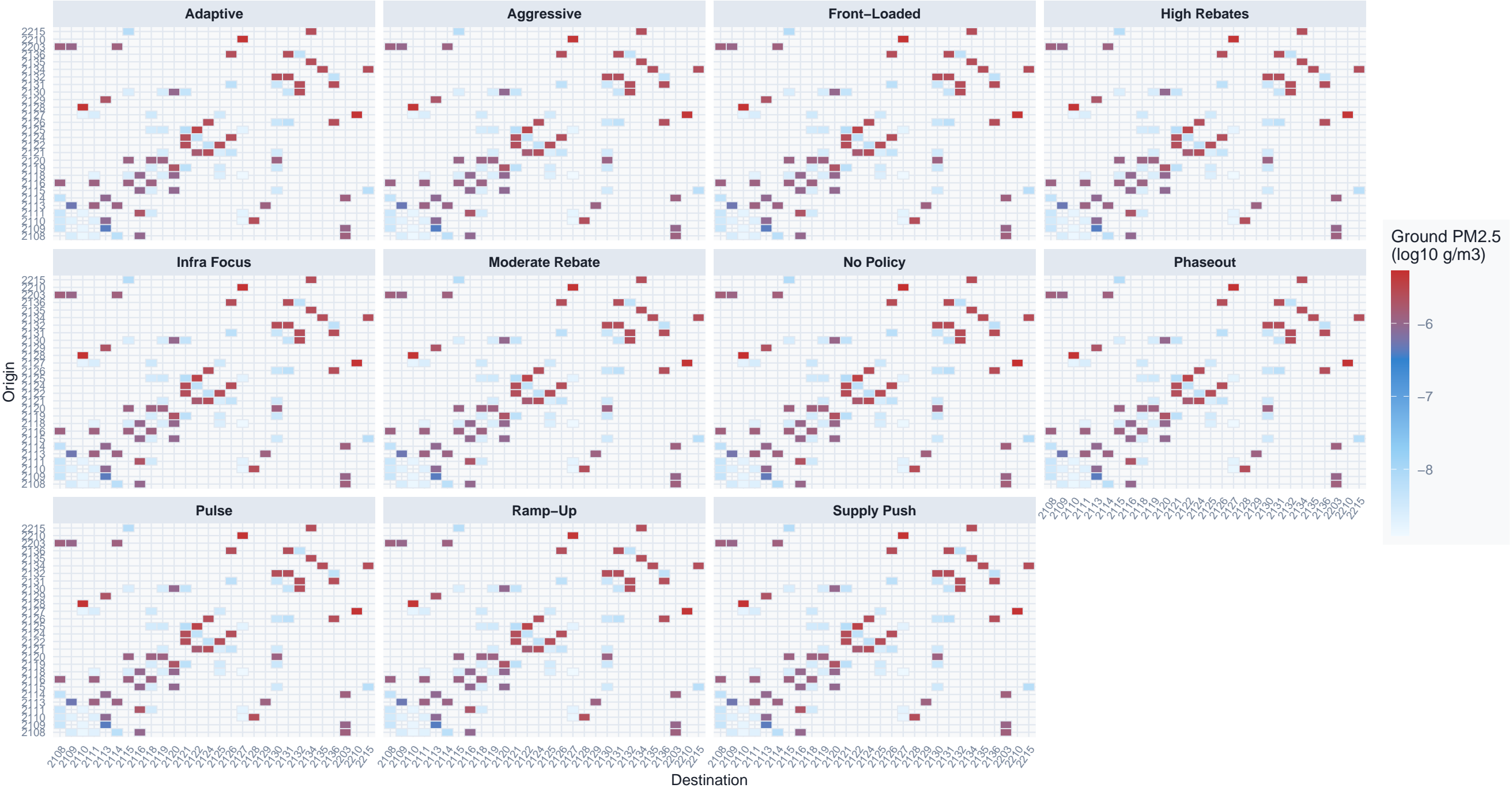
# Total Network Emission Rate by Policy Scenario

Sum of E\_eff across all active flow corridors; % vs lowest-AV scenario



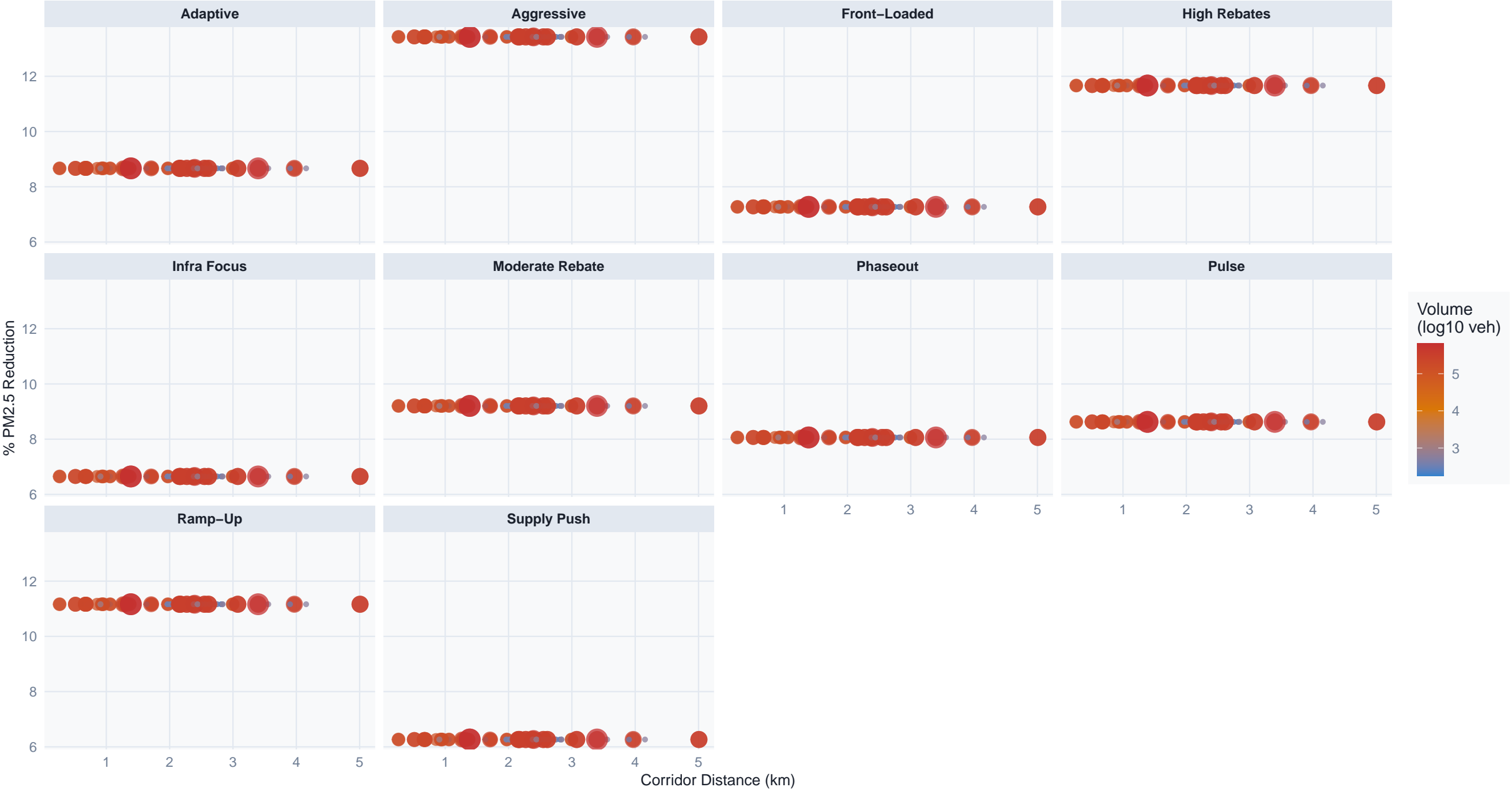
Ground-Level Peak PM2.5 by Flow Pair

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

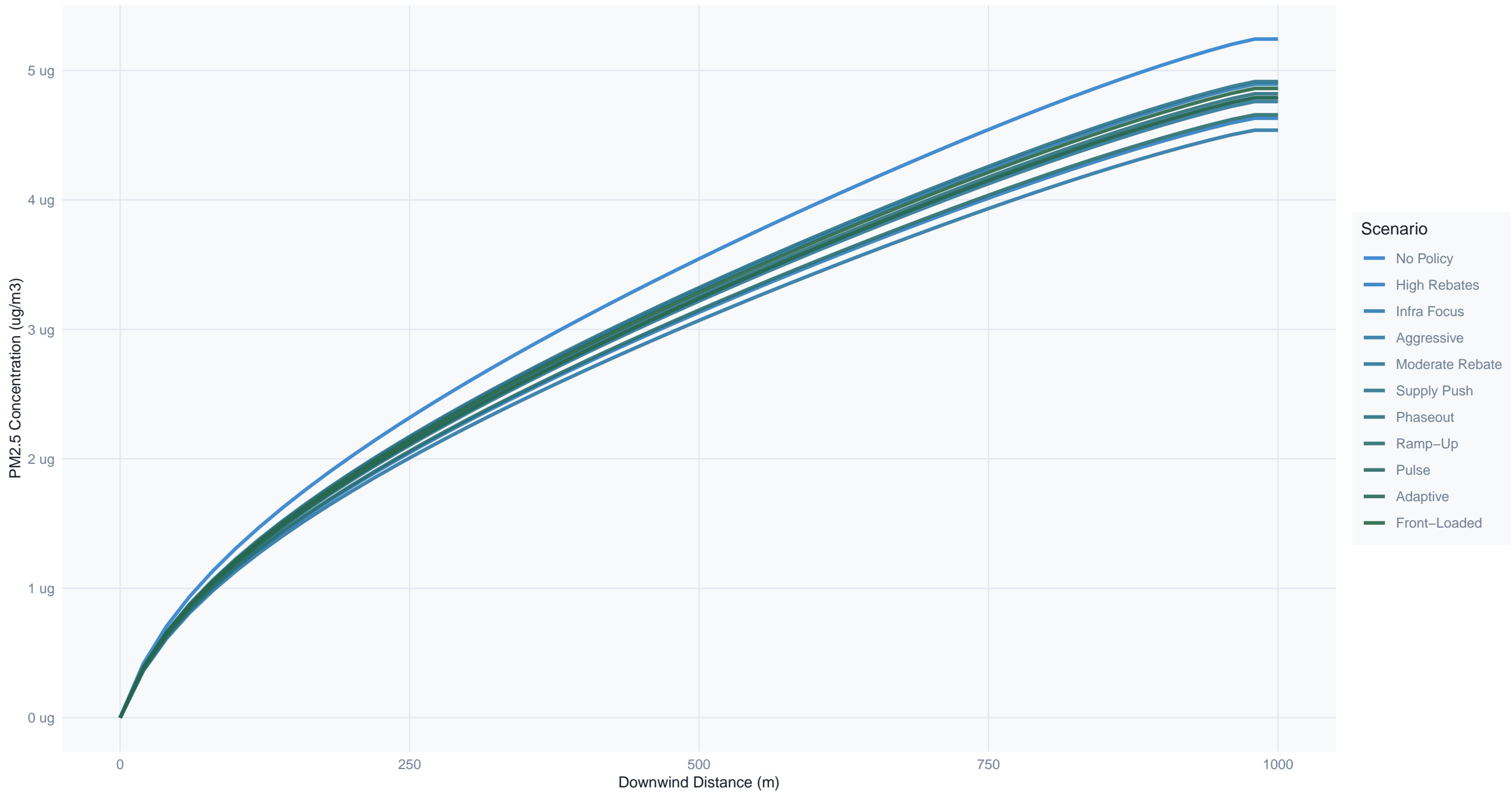


# PM2.5 Plume – Busiest Corridor (2127 – 2210)

659,690 vehicles/month, 1.4 km

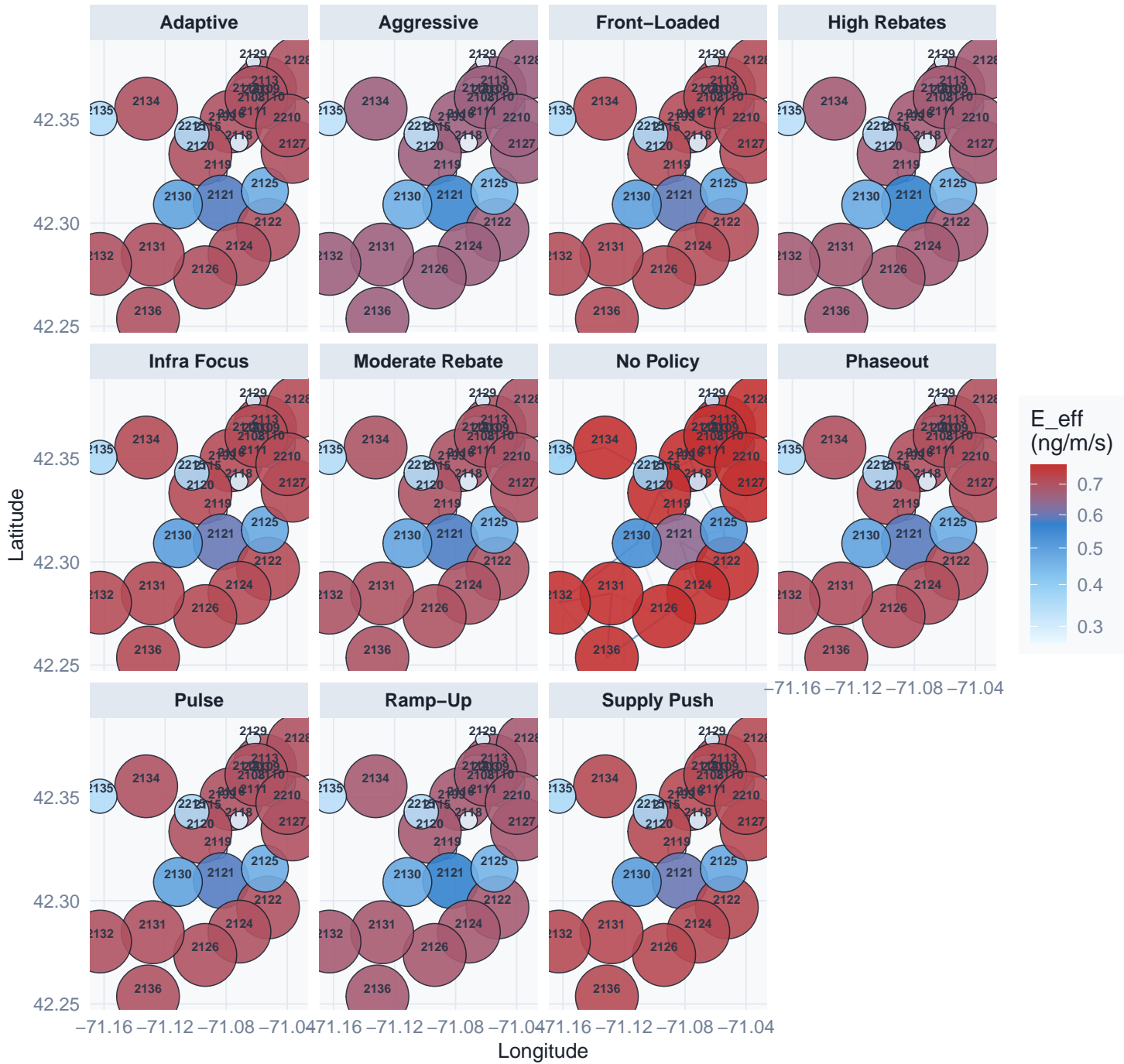


Concentration along downwind axis at  $z = 0$  (street level), converted to  $\mu\text{g}/\text{m}^3$



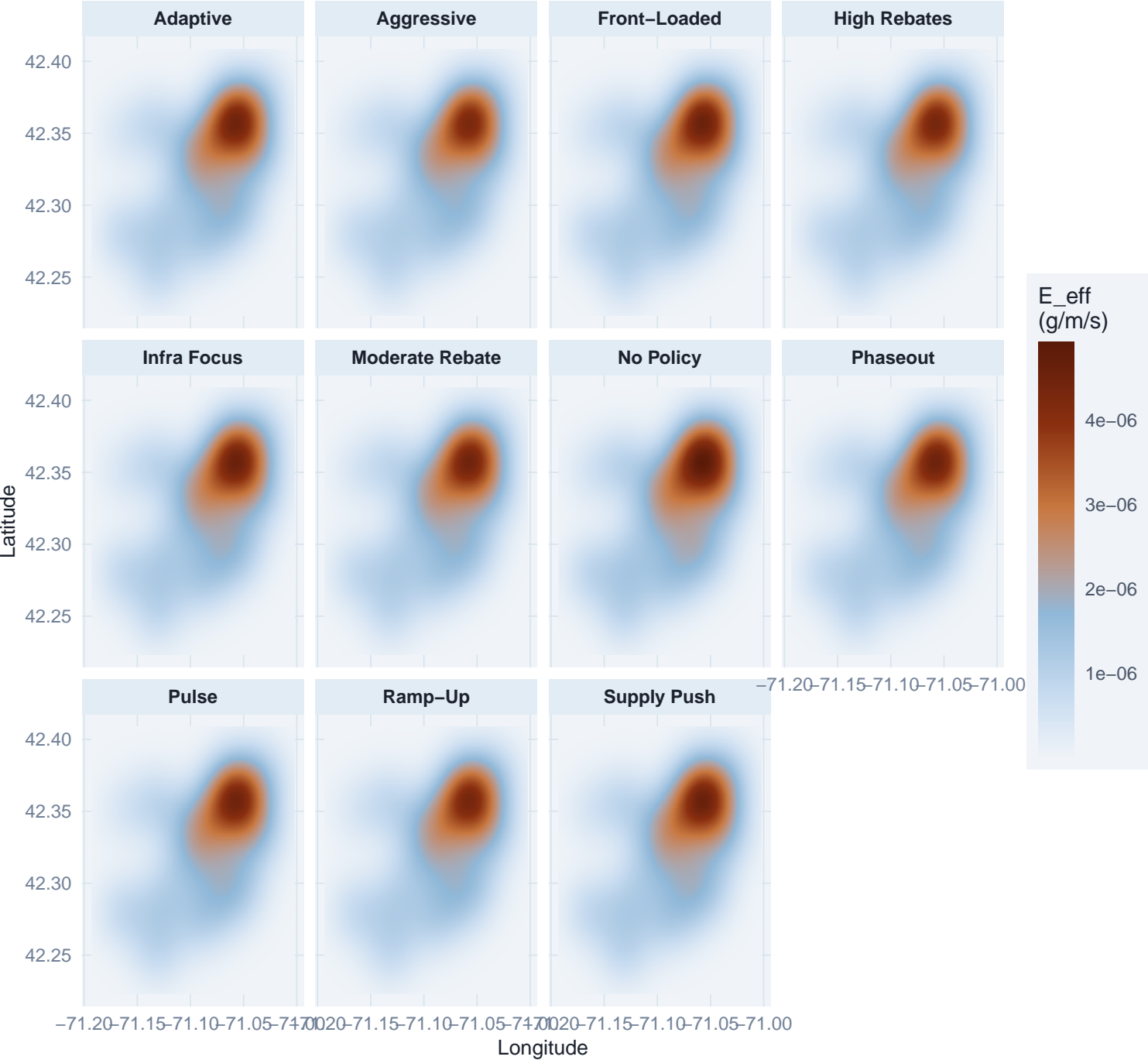
# Spatial Distribution of PM2.5 Emission Burden

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



# Spatial Distribution of PM2.5 Emission Burden (Absolute)

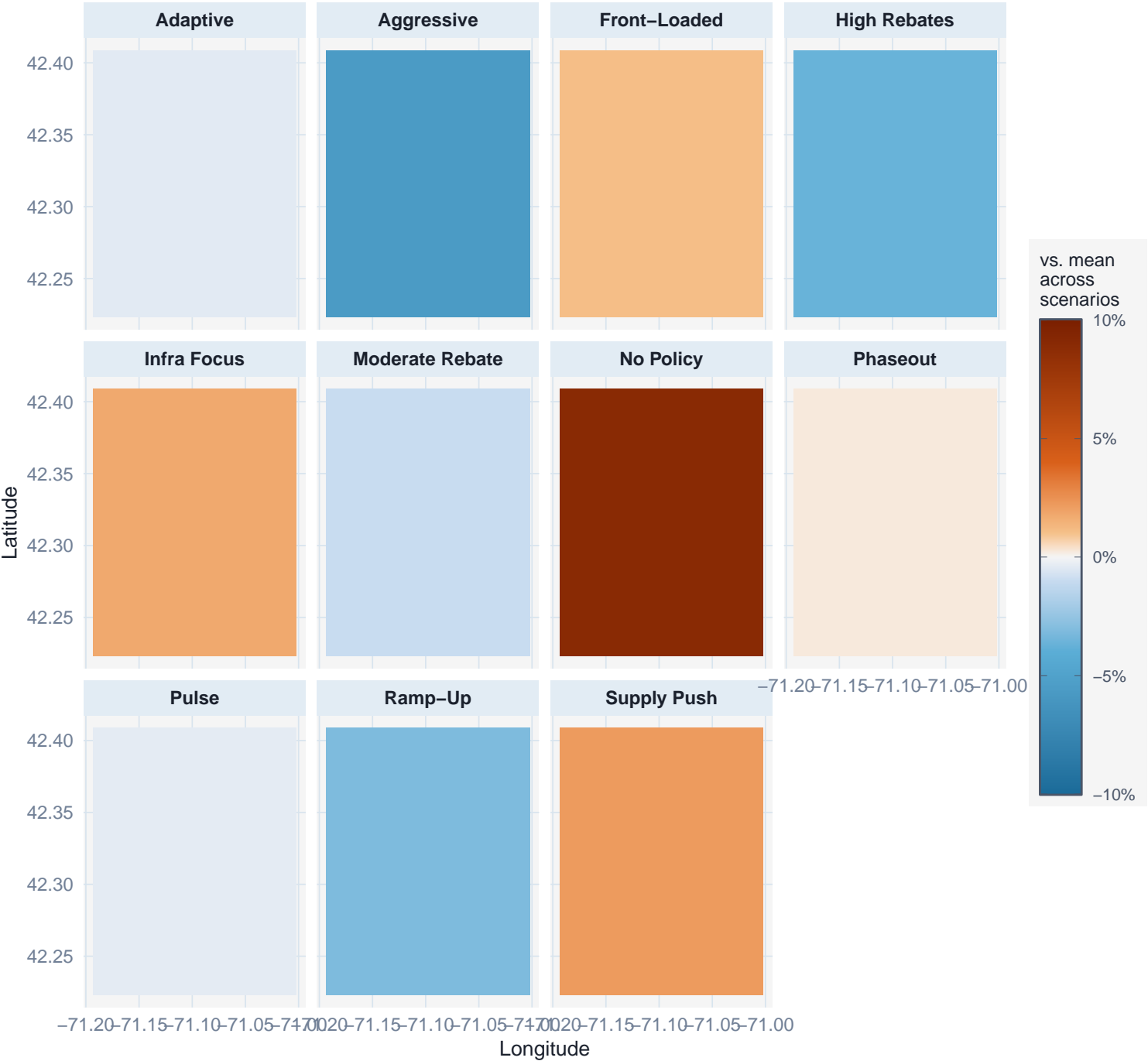
Gaussian emission surface per zone, warmer color = more pollution





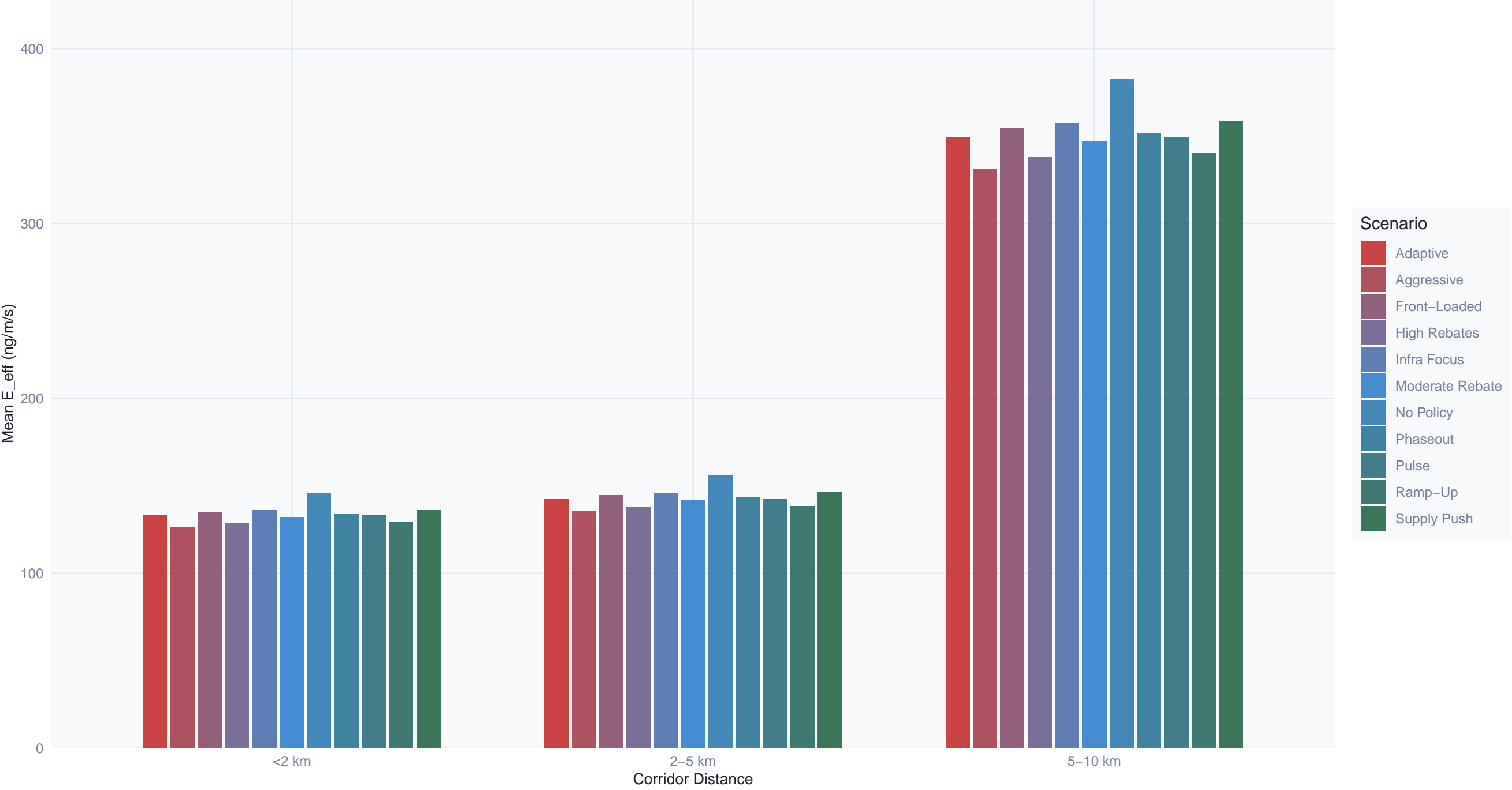
Spatial PM2.5 Emission Burden: Deviation from Cross-Scenario Mean

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



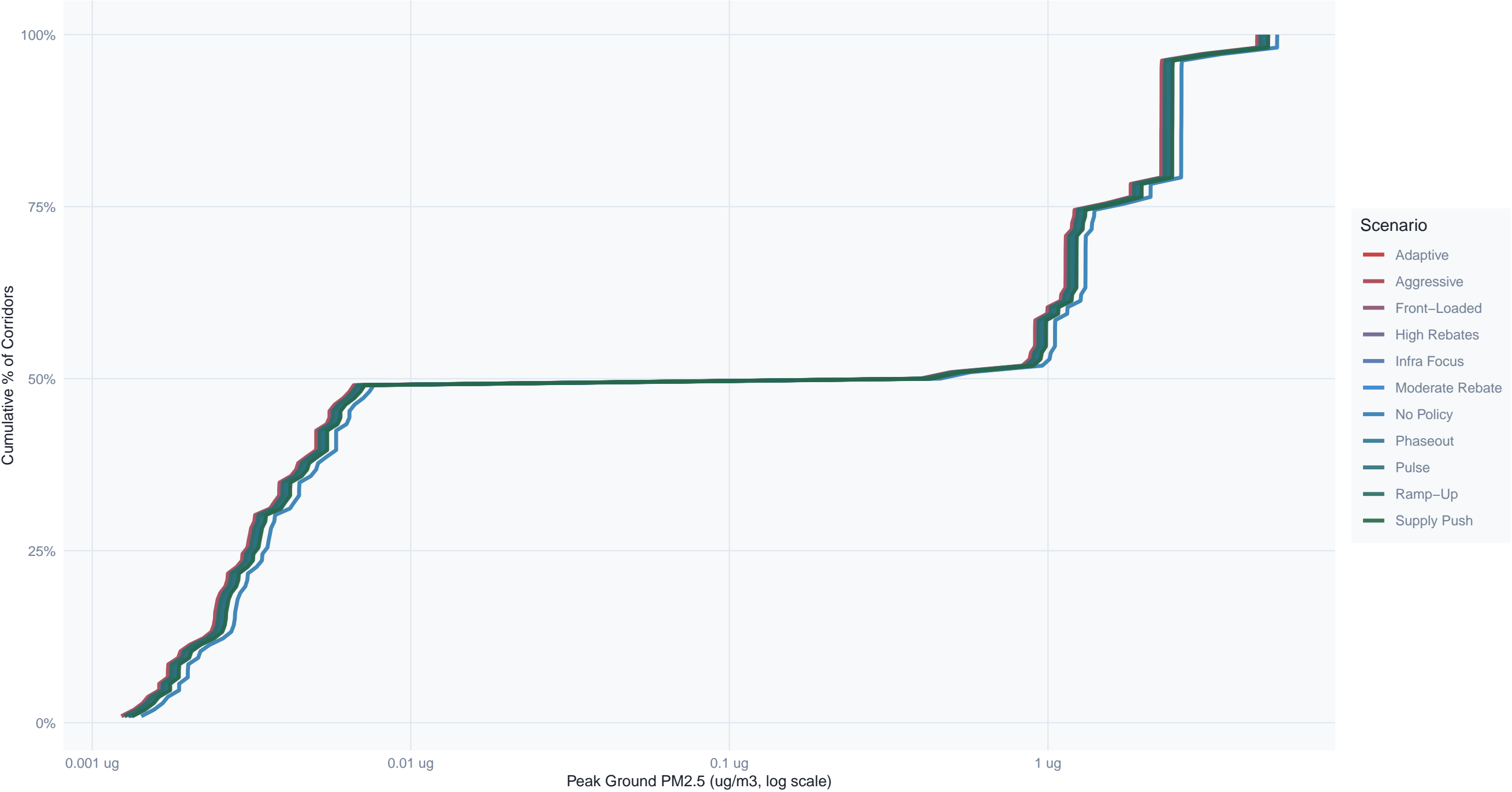
# Mean Emission Rate by Corridor Distance Band

Average E\_eff per corridor length category



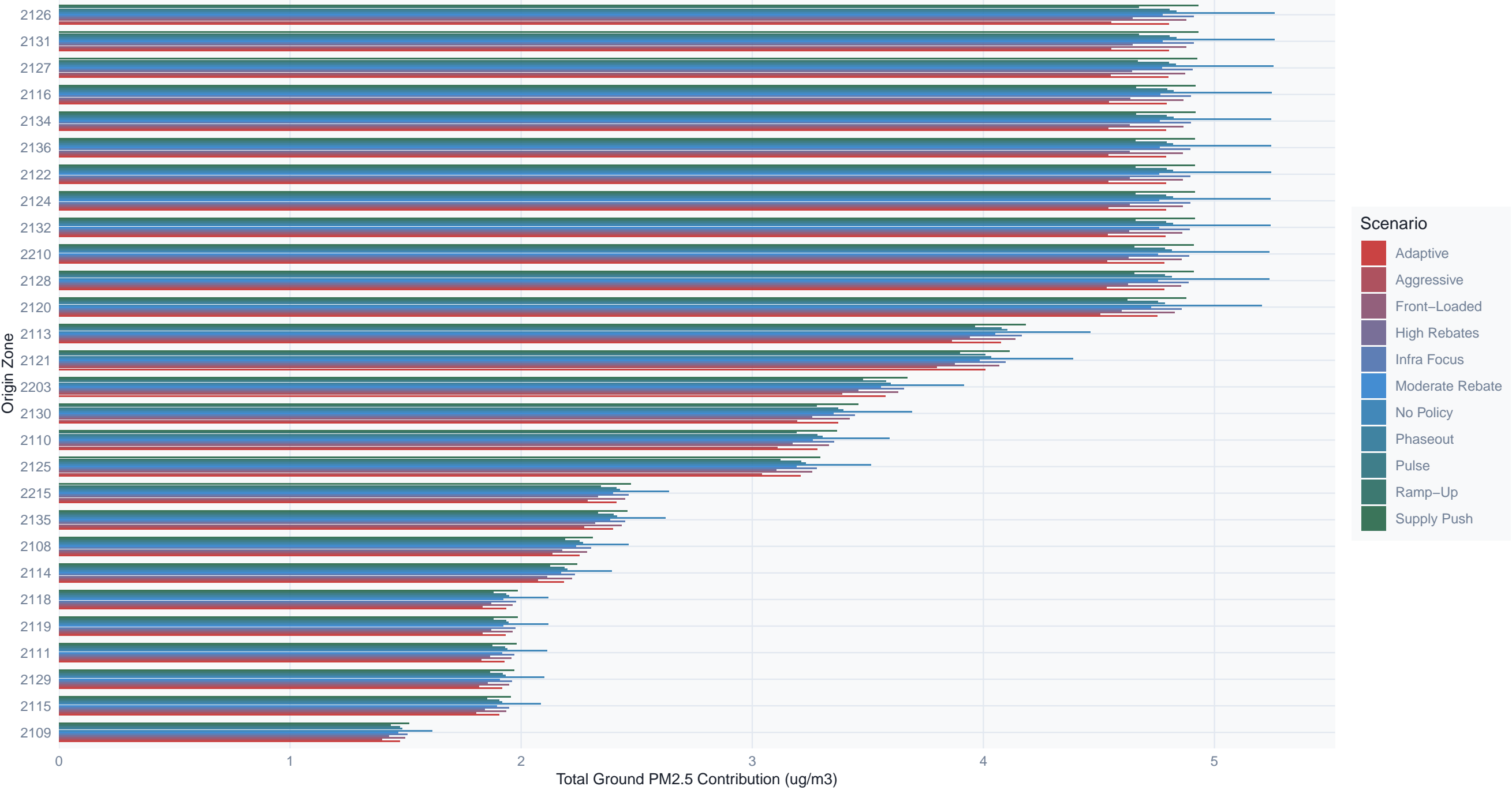
# Cumulative Distribution of Peak Ground-Level PM2.5

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

