**S4 Table. Adjusted R2 values comparing observed vs. fitted values for each predictor variable by location and season.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Season** | **Region** | **AQI** | **Health-based**  **Index** | **PM2.5** | **O3** | **NO2** |
|  | Southern California | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Year Round | San Joaquin Valley | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
|  | San Francisco Bay Area | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 |
|  | Southern California | 0.86 | 0.86 | 0.86 | 0.85 | 0.86 |
| Mar - Oct | San Joaquin Valley | 0.53 | 0.53 | 0.53 | 0.54 | 0.55 |
|  | SF Bay | 0.64 | 0.63 | 0.63 | 0.63 | 0.64 |
|  | Southern California | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Nov - Feb | San Joaquin Valley | 0.61 | 0.62 | 0.61 | 0.61 | 0.58 |
|  | SF Bay | 0.77 | 0.76 | 0.77 | 0.76 | 0.76 |