Data Dictionary for: **BC_CSD_MultiWiSE_Metrics_2010-2023.csv**

| Variable | Unit | Description |
|------------------------------|------------|---|
| CSD | - | The unique identifier for a given census subdivision |
| 1_Cumulative_WFS_PM25 | mg/m³ | Total sum of WFS PM _{2.5} over the multiyear period |
| 2_WFS_Fraction | % | Fraction of cumulative total PM _{2.5} exposure from WFS |
| 3_AverageWFS_PM25 | µg/m³ | Average WFS PM _{2.5} across all WFS-impacted weeks |
| 4_AnyWFS | # weeks | Total count of WFS-impacted weeks |
| 5_WFS_PM2_exceeds_5 | # weeks | Count of WFS-impacted weeks where weekly average WFS PM _{2.5} exceeded 5 µg/m ³ |
| 6_Total_PM2_exceeds_25 | # weeks | Count of WFS-impacted weeks where weekly average total (i.e., all-source) PM _{2.5} exceeded 25 µg/m ³ |
| 7_WFS_Episodes | # episodes | Total count of WFS episodes |
| 8_Severe_Episodes | # episodes | Count of severe WFS episodes |
| 9_Longest_Episode | # weeks | Length of the longest WFS episode |
| 10_Worst_Episode | µg/m³ | Average WFS PM _{2.5} during the WFS episode with the highest average WFS PM _{2.5} |
| 11_WFS_from_Severe_Episo des | % | Fraction of cumulative WFS PM _{2.5} from severe WFS episodes |
| 12_Average_Recovery | # weeks | Average time between episodes, including periods before the first and after the last episode |
| Cumulative_Total_PM25 | mg/m³ | Total sum of total PM _{2.5} over the multiyear period |
| Average_Total_PM25 | µg/m³ | Average total PM _{2.5} across all weeks |
| Cumulative_NonWFS_PM25 | mg/m³ | Total sum of non-WFS PM _{2.5} over the multiyear period |
| Average_NonWFS_PM25 | µg/m³ | Average non-WFS PM _{2.5} across all weeks |
| Counterfactual_Value | µg/m³ | The counterfactual weekly average value, calculated using the median of total PM _{2.5} during weeks with a modified Z-score between - 2 and +2 |

Data Dictionary for: BC_CSD_Weekly_PM25_Episode_Estimates_2010-2023.csv

| Variable | Unit | Description |
|-------------------------|-------|---|
| csd | - | The unique identifier for a given census subdivision |
| epiweek | - | The week number the exposure data corresponds to. The first week in the study period is week 1. Weeks are represented as epidemiological weeks, which are standardized to start on a Sunday and end on a Saturday. |
| weekly_n_days | days | The number of days in the epiweek that had data available for analysis. A value of 7 indicates no missing data. Incomplete epiweeks (<7 days) that occurred at the beginning and end of the study period were dropped and not included in analysis. |
| start_date | - | The date on which the epiweek started (always a Sunday), shown in date format YYYY-MM-DD. |
| end_date | - | The date on which the epiweek ended (always a Saturday), shown in date format YYYY-MM-DD. |
| weekly_avg_pm25 | μg/m³ | The weekly average of total (i.e., all-source) PM _{2.5} |
| wfs_weekly_avg_pm25 | μg/m³ | The weekly average of WFS PM _{2.5} |
| non_wfs_weekly_avg_pm25 | μg/m³ | The weekly average of non-WFS PM _{2.5} |
| weekly_sum_pm25 | μg/m³ | The weekly sum of total PM _{2.5} |
| wfs_weekly_sum_pm25 | μg/m³ | The weekly sum of WFS PM _{2.5} |
| non_wfs_weekly_sum_pm25 | μg/m³ | The weekly sum of non-WFS PM _{2.5} |
| modified_z | - | Modified z-score of 'weekly_pm25_sum', used to identify whether the epiweek was smoke impacted |
| is_wildfire_season | - | A Boolean variable indicating whether any part of the epiweek occurred during wildfire season (May – October) |
| is_smoke_impacted | - | A binary variable (1 or 0) indicating whether the epiweek was smoke impacted ('modified_z' > 2) |
| episode_id | - | Unique identifier for each WFS episode. All weeks in a given WFS episode will have the same identifier. A WFS episode is defined as either (1) two or more WFS-impacted weeks separated by no more than three non-WFS-impacted weeks, or (2) a single week where the sum of WFS PM _{2.5} > 250 mg/m ³ |
| severe_episode_id | - | Unique identifier for each severe WFS episode. All weeks in a given severe episode will have the same identifier. A severe episode is defined as any WFS episode that includes a week with a sum of WFS PM _{2.5} > 250 mg/m ³ |