

Southern California Edison
2023-WMPs – 2023-WMPs

DATA REQUEST SET SPD - SCE - 2023 - 002

To: SPD

Prepared by: David Isaac Bangor

Job Title: Prdctve Anlytcs/Data Science, Advisor

Received Date: 5/5/2023

Response Date: 5/25/2023

Question 05:

Provide the total number of total overhead mile-days for each Fire Potential Index rating (rounded to the nearest integer) in the combined HFTD and HFRA per year starting in 2014.

Response to Question 05:

Please see the attached file - DATA REQUEST SET SPD-SCE-2023-002 Question 5.xlsx - for the data satisfying the question above. The following is an explanation of the methodology used to obtain the data:

1. For each Fire Climate Zone (FCZ), the Fire Potential Index variable was computed by taking the spatial 90th percentile every hour and then computing the daily mean of the 90th percentile to get a daily time series data set. This data was then rounded to integer values as requested in the question above.
2. Then for each FCZ, its daily time series data set was grouped and counted for each respective FPI integer value (1 through 17) for each respective year (2014 through 2022). This data was used to satisfy Question 4.
3. The day counts were then multiplied by the total overhead miles in HFTD and HFRA within each FCZ to get the total number of overhead mile-days data in HFTD and HFRA within each FCZ.
4. Lastly, these overhead mile-days data sets were summed across all FCZs to get a representation of the total number of total overhead mile-days over the total combined HFTD and HFRA for each FPI integer value per year starting in 2014.