

08W Cost Per Mile Report

Data Source

- [ADA].[Delivery.DOT_WSHP] (WSHP: Project Log)
- SAP AO report – PRJ002
- Power Pivot to merge 2 tables and add measurements

How to run the report

- Refresh the data in Project log sheet to fetch the most current data
- Filter the MAT code to 08W (Only)
- Copy the projects in project log and paste it in PRJ002
- Run PRJ002 one month behind of the current month
- Refresh the data in Cost per Mile Sheet

How to filter the report

- Filter CN24 Completion Date to exclude 2 Weeks of the current month and beyond that
- Filter total installed miles to exclude 0 miles (if any)
- Look for cell L10 for Cost Per Mile
- Click on Expand/collapse button in Cell B10 “Cost Element” to see the full projects

For more accuracy, Standard Deviation concept has been added with Max and Min outlier

- In order to use SD concept, click on the arrow in cell D9 “Order” => select Value Filter => Between.
- in Value Filter Window, select Cost per Mile, and enter the Min and Max Outlier as shown in the figure below.
- Look at cell L10 for New Cost Per Mile value

The screenshot shows a report interface with several filter sections at the top: Job Owner Name, SAP Status, CN24 Status, WP Project Reporting Year, Program, MPP Resource, and CN24 Completion Date. Below these is a data table with columns: Order, Order Description, Job Owner Name, CN24 Completion Date, No. Projects In Project Log, No. Projects Have Cost Elements, Total Installed Miles, Total Actual Amt, Cost Per Mile, Standard Deviation, Average for SD, Max Outlier, and Min Outlier. A 'Value Filter' dialog is open over the table, with 'Order' selected in the 'Show items for which' dropdown and 'Between' selected in the comparison dropdown. The dialog shows values '630897.88' and '3337278.66' in the input fields.

Order	Order Description	Job Owner Name	CN24 Completion Date	No. Projects In Project Log	No. Projects Have Cost Elements	Total Installed Miles	Total Actual Amt	Cost Per Mile	Standard Deviation	Average for SD	Max Outlier	Min Outlier
154				154	154	219,289,734.8	\$406,674,326.55	\$1,854,506.90	\$1,353,190.39	\$1,984,088.27	\$3,337,278.66	\$630,897.88
154				154	154	219,289,734.8	\$406,674,326.55	\$1,854,506.90	\$1,353,190.39	\$1,984,088.27	\$3,337,278.66	\$630,897.88

This close-up view shows the 'Value Filter (Order)' dialog box. The 'Show items for which' dropdown is set to 'Cost Per Mile'. The comparison operator is 'is between'. The first input field contains '630897.88' and the second contains '3337278.66'. Red arrows indicate the relationship between the 'Cost Per Mile' column in the table above and the filter settings in the dialog.

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Report Customization

There are many slicers added to the report as below:

- Division
- County
- City
- JOB Owner Name
- SAP Status
- CN24 Status
- WP Reporting Year
- Program Name

- MPP Resources (GC Vs Contract)
- And lastly this report can drilldown and calculate the average cost per mile per Cost Element.