

Proposed Site-Level Design Value Report

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What is a Design Value?

Design Values are the metrics (i.e. statistics) that are compared to the National Ambient Air Quality Standard (NAAQS) levels to determine compliance. They are specific to each criteria pollutant.

Purpose of Design Value Report

- To provide site-level design values that are not presently available in AQS (Ozone and PM 2.5)
- To allow interim calculations of design values with partial year data.
- Caveats:
 - Spatially averaged design values not provided
 - Design values provided by Quick Look report will not be replicated (SO₂, NO₂, PM 10, CO, and Pb)

Design Values by Pollutant – Ozone

- Source: 3 year average
- Standard: 3 year average of Annual 4th highest daily maximum of 8-hour averages
- Regulatory Reference: 40 CFR Part 50.15 and Appendix P
- Where in AQS: New Design Value Report

Design Values by Pollutant – PM 2.5

- Source: 3 year Average
- Standards:
 - 24-Hour: Annual 98th Percentile of 24-hour average
 - Annual: Annual arithmetic mean of Quarterly Means of 24-hour averages
- Regulatory Reference: 40 CFR Part 50.13 and Appendix N
- Where in AQS: New Design Value Report

Ozone Design Value Report (1)

- Data Selection: Any Geography
- Data Sorting:
 - Sort and Page Break on change in State-County or Tribal code
 - Descending on page by Design Value (4th max)
- Report Options:
 - 1997 Standard (0.08 ppm) vs 2008 Standard (0.075 ppm)
- Available Outputs: Formatted report and/or workfile (CSV)

PM 2.5 Design Value Report (1)

- Data Selection: Any Geography
- Data Sorting:
 - Sort and Page Break on change in State-County or Tribal code
 - User selectable, descending on page by 98th Percentile Design Value or Annual Design Value
- Report Options: None
- Available Outputs: Formatted report and/or workfile (CSV)

PM 2.5 Design Value Report (2)

Proposed Layout

[illegible]

Note: Prior years less than 75% complete are flagged with a plus sign (+).

Questions and Comments

- Are there any fields that you need that are not on the reports?
- Are there extra fields that are not needed?
- What extra metadata (e.g. State name, Method code and/or name) is useful in the workfile (CSV file)?
- Please email comments & questions to Coats.Robert@EPA.GOV