

Modeled Attainment Test Results

Utah Division of Air Quality

As discussed in the previous section, we used SMAT-CE to generate a future design value (FDV) for Federal Reference Method (FRM) monitors in the Salt Lake nonattainment area. The FDV calculation methodology is provided in the EPA document: *Guidance on the Use of Models and Other Analyses for Demonstrating Attainment of Air Quality Goals for Ozone, PM2.5, and Regional Haze*¹.

FDVs were generated for the proposed attainment year (2035) as well as the 2026 milestone year. These FDVs represent simulated peak concentrations that are directly compared to the daily PM_{2.5} National Ambient Air Quality Standard (NAAQS, 35 µg/m³). Modeled attainment of the standard is demonstrated if all 2035 FDVs are lower than the standard. Table 1, below, shows FDVs for projected years and FRM monitor locations in the Provo non-attainment area.

Table 1: Design values for base year and projected years.

Monitor ID	Monitor Name	Baseline DV	2026 FDV	2035 FDV
490494001	Lindon	31.3	29.3	29.5
490495010	Spanish Fork	28.4	28.4	28.4

All modeled concentrations in the Provo non-attainment area are below the 24-hr PM_{2.5} NAAQS. UDAQ successfully demonstrated attainment at all monitor locations.

¹ <https://www3.epa.gov/ttn/scram/guidance/guide/final-03-pm-rh-guidance.pdf>