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Implications of the New Standard

**Previous Standard**

Est. Population = 19,000,000

**Revised Standard**

Est. Population = 31,000,000
Implications of Revised Rule

- Increase to daily sampling at three sites

- Greatest potential implications depend on how FEM/ARM process goes
Short Term & Long Term Comparison

Modesto - 14th St.
Met One BAM-1020 vs. PM2.5 FRM
June 2004 - May 2005

Slope: 1.08
Intercept: 1.1
\( r^2: 0.980 \)

PM2.5 FRM (µg/m\(^3\))

FRM

BAM-1020

15 µg/m\(^3\) Annual Standard
Basic Elements of a Continuous PM Program

- Comprehensive SOP for continuous instruments
- Submittal of QC data
- Don’t “adjust” data
- For FEM/ARM designation, consider “real world” data in addition to test data
FRM and Continuous Methods
Measure Different Stuff

FRM mass adjusted for nitrate volatilization to BAM-1020 at Fresno-1st Street monitoring site.
PM Monitoring Priorities

- Addition of “Wood Smoke” channel to SLAMS speciation program
- Characterization of diesel component of PM
- Continuous PM speciation monitoring with Field Ion Chromatograph
- 3rd Generation Data Acquisition System