

Changing from one in six day particulate monitoring to continuous

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Overview

- One in Six Day
- Continuous
- Exceedance Days
- Wind and Particulates
- Issues
- Questions

One in Six Day Monitoring

- EPA approved monitoring schedule (Daily, 1-3, 1-12).
- One value every six days, ~61 values per year.
- One exceedance (1-6 day schedule) of the NAAQS approx. equal six expected exceedances

1-6 day monitor



Continuous

- EPA approved monitoring schedule that produces daily or hourly values (365 or 8760 per year).
- One exceedance (continuous schedule) of the NAAQS approx. equals one expected exceedance.

Continuous Monitor



Exceedance Days

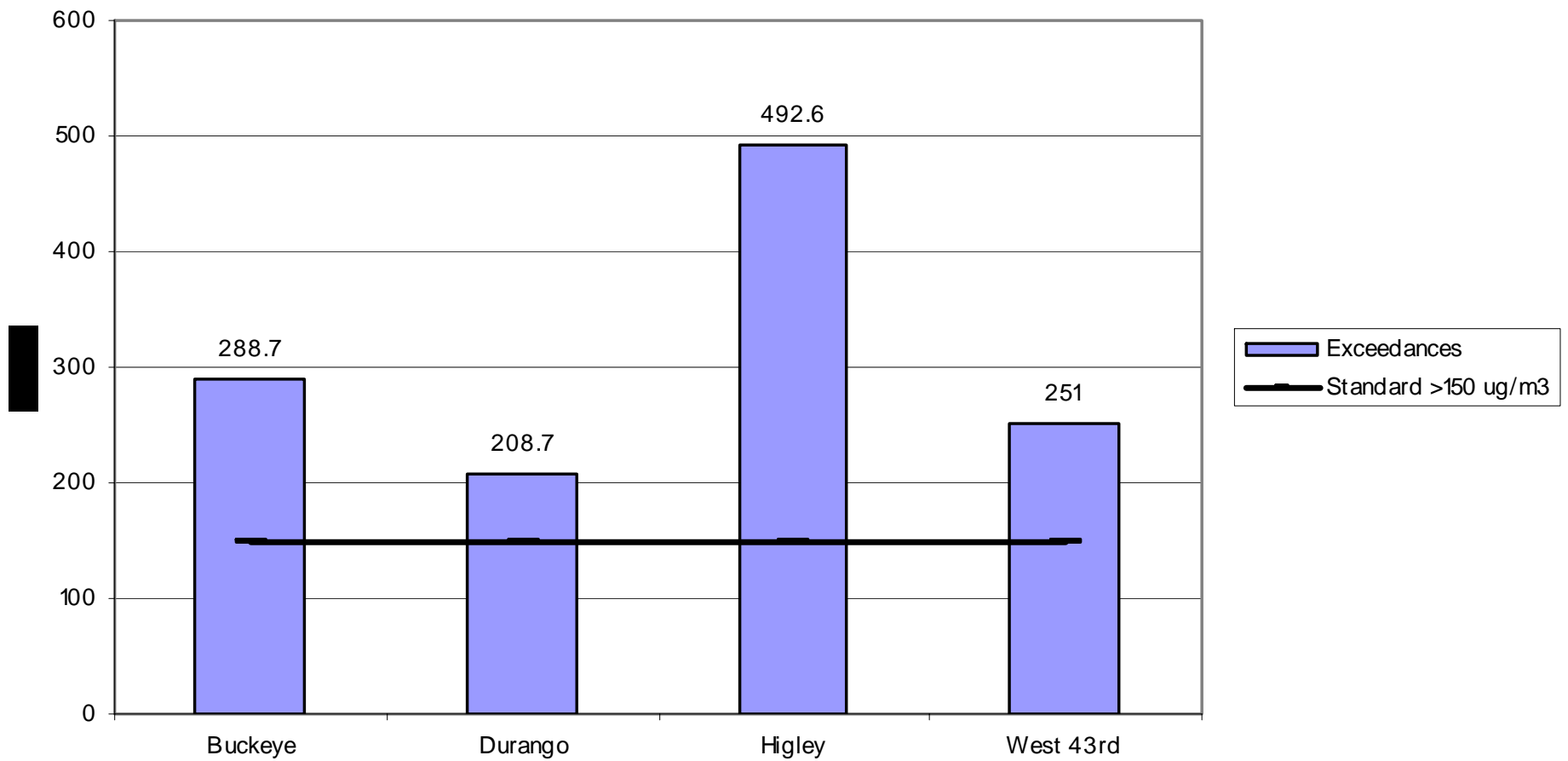
- 24-hr Particulate standard. 3-yr. avg. of the number of expected exceedances greater than 1.
- Example –
 - 6 exp. 2004
 - 0 exp. 2005
 - 0 exp. 2006
- $6/3 = 2$ greater than 1
- Violation of the 24-hr Particulate Standard

Exceedance Days

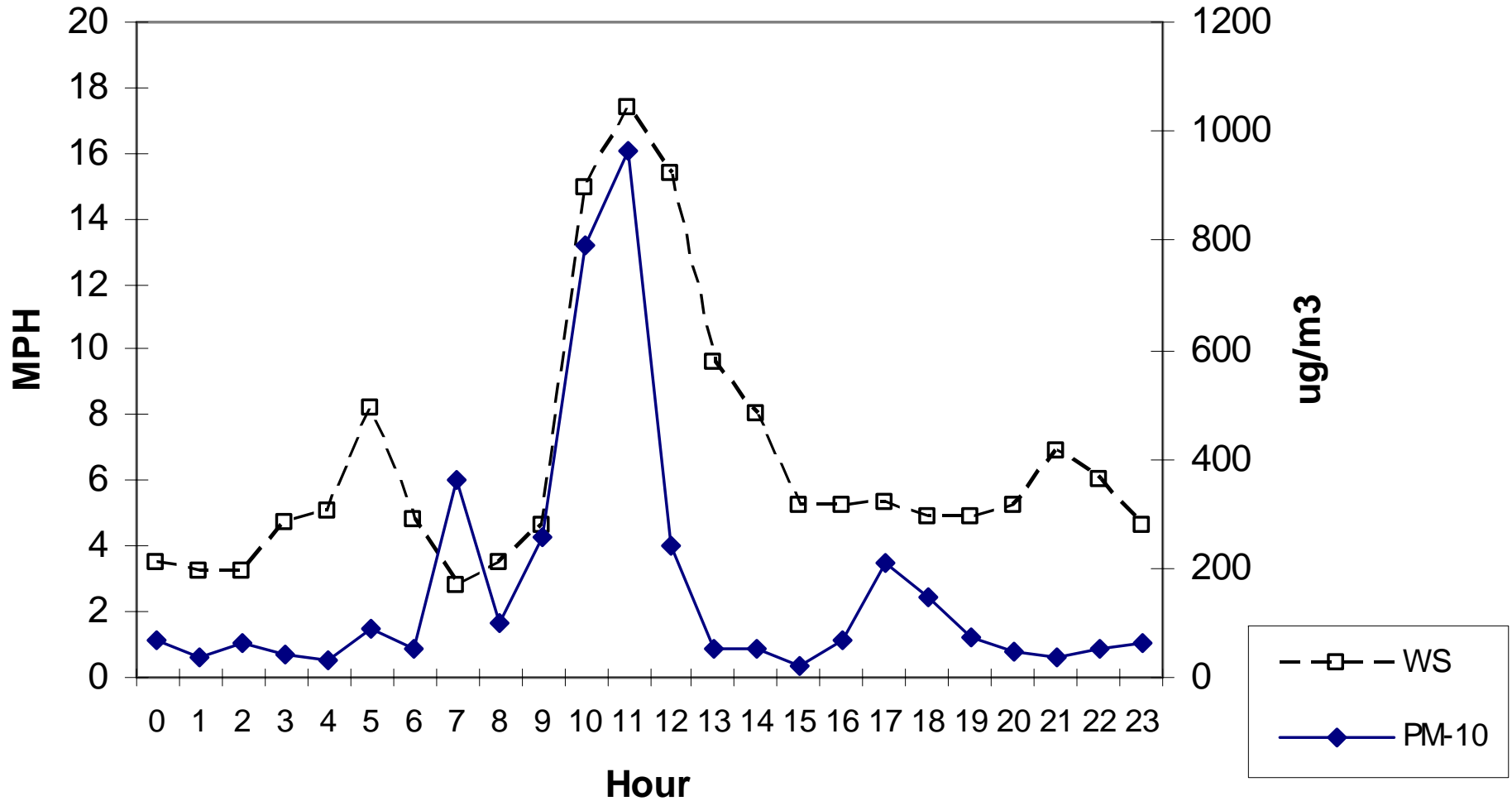
- EPA CFR Part 50 Appendix K
- Basically if you change your monitoring schedule from 1-6 day to continuous you can forgo the multiplier of the 1-6 day schedule.
- Example –
 - 1 exp. 2004
 - 0 exp. 2005
 - 0 exp. 2006
- $1/3 = .33$ less than 1
- No violation of the 24-hr Particulate Standard

Exceedances of the 24-hr PM-10 Standard

1-6 day monitoring



Higley Site 10/9/04 Wind Speed and PM-10



Issues

- Cost
 - \$17,000 to \$30,000 dollars per monitor depending on options.
- Training
 - Learning Curve
- Infrastructure
 - Communication
 - Data loggers

Questions ???