

STATE OF NEBRASKA

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Mike Johanns
Governor

RECEIVED

FEB 19 2004

APDB

Mr. James B. Gulliford
Regional Administrator
U.S. EPA, Region VII
901 N. 5th Street
Kansas City, KS 66101

February 12, 2004

Dear Mr. Gulliford:

In accordance with section 107(d)(1) of the Clean Air Act, direction received from you dated May 19, 2003 and from Mr. Jeffrey Holmstead dated April 1, 2003, I am submitting my designation recommendation and supporting documentation for the PM 2.5 National Ambient Air Quality Standard.

Your guidance information advises that, although the final designation will be based on monitoring data for the years 2001-2003, data for the years 2000-2002 may be submitted with the initial designation recommendation. However, because the necessary data for Nebraska for 2001-2003 is already available, we are submitting it at this time. The enclosed documentation includes data for all PM 2.5 monitors in the state and demonstrates that the three-year average of annual arithmetic mean PM 2.5 concentrations did not exceed the National Ambient Air Quality Standard at any monitor during the three-year period 2001-2003.

I am therefore recommending the following designation for Nebraska:

NEBRASKA

Attainment/unclassifiable areas:

Entire state

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Johanns".

Mike Johanns
Governor of Nebraska

Enclosures

Copies: Mr. William A. Spratlin, Director
Air, RCRA, and Toxics Division, U.S. EPA, Region VII

Mr. Mike Linder, Director
Nebraska Department of Environmental Quality

Ms. Shelley Kaderly, Administrator
Air Quality Division, NDEQ

PM 2.5 Designation for the State of Nebraska

3 year Average=15ug/m³

24 Hour 65ug/m³

Data Completeness:

Scheduled PM samples may be missed due to a variety of situations including: machine malfunctions, power outages, and filter problems. These situations are particularly relevant during the start up of the fine particle monitoring program. Obviously, adequate numbers of PM measurement are important to maintain high data capture, in accordance with Interpretation of the PM standards (40 CFR part 50, Appendix N).

$$DataCompleteness = \frac{NumberofValidRuns}{NumberofScheduledRuns} * 100$$

All sites should capture at minimum 75% each quarter. If not, NDEQ has utilized the following substitution rules, as outlined in EPA, OAQPS memorandum dated February 3, 1999, EPA-454/R-99-008, guideline on Data Handling Conventions for the PM NAAQS and 40 CFR Pt 50, App N.

Make up sampling days- Make up samples are optional and should be encouraged whenever the achievement of minimum data capture goals are not likely. A make-up day becomes a replacement for a scheduled day. Like scheduled days, these 24 hr periods (midnight to midnight) are selected without prior knowledge of pollution potential and may be used without prejudice in making comparisons to the NAAQS. However, the number of make up samples permitted in any calendar quarter should be limited to no more than 5 samples.

Approach #1- How to use collocated data to substitute for missing data.

If you have collocated PM_{2.5} data from a monitor for the same year and quarter, you may use it to replace missing PM_{2.5} values on scheduled sampling days. You may substitute for all missing scheduled sampling days where collocated data is available, not just for selected days in that quarter (within 2 days before or after).

Approach #2- How you may use maximum observed values to substitute for missing data.

Replace each missing scheduled sampling day in an incomplete quarter (must have $\leq 50\%$ complete data for site) with the maximum observed value from the same site and the same quarter (from any of the 3 years).

****See following table for data analysis for the State of Nebraska's Pm 2.5 Network**

Nebraska PM 2.5 Monitors
 Three-Year Average of Annual Arithmetic Mean PM 2.5 Concentrations
 Calendar Years 2001 through 2003

Monitor		3-Year Average (2001-2003)	Status
Name	AIRS ID		
Bellevue	31-153-0007	13.4	attainment
Woolworth	31-055-0019	10.9	attainment
Terrace	31-055-0051	11.0	attainment
Berry	31-055-0052	11.6	attainment
Weeping Water	31-025-0002	13.4	attainment
Blair	31-177-0002	NA	unclassifiable:Q2 of 2001 only 39%, could not use substitution rule
Lincoln	31-109-0022	10.2	attainment
Hartington	31-027-0001	NA	unclassifiable: discontinued before attainment could be determined
Grand Island	31-079-0003	8.8	attainment
North Platte	31-111-1002	10.0	attainment
Merriman	31-031-0001	NA	unclassifiable: discontinued before attainment could be determined
Chappell	31-049-0001	NA	unclassifiable: discontinued before attainment could be determined
Scottsbluff	31-157-0003	7.7	attainment