

Steve → Heidi



STATE OF MISSISSIPPI
GOVERNOR HALEY BARBOUR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

February 6, 2004

AIR PLANNING BRANCH
FEB 13 2004

Ms. Beverly Banister
Director, APTD
EPA Region 4
61 Forsyth Street SW
Atlanta, Georgia 30303

Dear Beverly:

As you are aware, Mississippi's PM_{2.5} monitoring data for 2003 include data from sites with incomplete data and sites with flagged data. We have been in discussions with Richard Guillot and others of your staff regarding how we should handle this data in determining our design values and the designation recommendation for the state. Contained herein are the results. We understand that this is what your staff and our staff agreed to.

Attached are summaries of 2000-2002 and 2001-2003 PM_{2.5} data for Mississippi. Tables 1 and 2 contain 2000-2002 Maximum Annual Average and Maximum 24-Hour Average (98th Percentile) summaries calculated using all available data regardless of the sites meeting the completeness criteria. Tables 3 and 4 contain 2000-2002 Maximum Annual Average and Maximum 24-Hour Average (98th Percentile) summaries calculated using the substitution method listed in the EPA document "Guideline on Data Handling Conventions for PM NAAQS" for the two sites that did not meet the completeness criteria. Tables 5 and 6 contain 2001-2003 Maximum Annual Average and Maximum 24-Hour Average (98th Percentile) summaries calculated using all available data regardless of the sites meeting the completeness criteria. Tables 7 and 8 contain 2001-2003 Maximum Annual Average and Maximum 24-Hour Average (98th Percentile) summaries calculated using the same substitution method for 8 of the 12 sites that did not meet the completeness criteria. The other 4 sites did not meet the substitution method criteria. For these 4 sites, 2000-2002 data, which showed attainment, will have to be used for designation purposes.

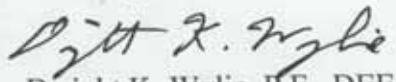
The data summaries show that design values calculated for 2000-2002 and 2001-2003 for all of the sites with complete data met the PM_{2.5} standards. The design values calculated using the substitution method for those incomplete data sites that met the substitution criteria also show that the standards are met. This is assuming that the flagged data for 2003 can be used. The four sites, where the substitution method could not be used for

2001-2003, met the completion criteria and showed attainment for the period of 2000-2002.

All sites showed attainment using one or both of the 2000-2002 data or the 2001-2003 data. Therefore, it appears that an attainment designation for all areas of the state is appropriate. Please review this information and if we have misunderstood, let me know.

This letter is not the state's recommendations for designation of attainment or nonattainment. That will follow. This letter is for the purpose of ensuring that your staff and my staff are on common ground.

Sincerely,

A handwritten signature in black ink, appearing to read "Dwight K. Wylie". The signature is written in a cursive style with some loops and flourishes.

Dwight K. Wylie, P.E., DEE
Chief, Air Division

Attachment

Table 1
2000-2002 Mississippi PM_{2.5} Data - Annual

County	Monitor	City	Maximum Annual Average (# of incomplete quarters)			
			2000	2001	2002	Design Value
Adams	28-001-0004	Natchez	13.1	11.1	10.7	11.6
Bolivar	28-011-0001	Cleveland	15.1	12.7	11.7	13.2
DeSoto	28-033-0002	Hernando	14.1	12.7	12.5*(1)	13.1
Forrest	28-035-0004	Hattiesburg	14.9	13.6	12.8	13.8
Hancock	28-045-0001	Port Bienville I.P.	12.2	10.3	9.5	10.7
Harrison	28-047-0008	Gulfport	12.8	11.7	10.6	11.7
Hinds	28-049-0010	Jackson	15.2	13.2	12.1	13.5
Hinds	28-049-0018	Jackson	15.6	13.7	12.1	13.8
Jackson	28-059-0006	Pascagoula	13.4	12.2	11.0	12.2
Jones	28-067-0002	Laurel	16.9	14.3	13.7	15.0
Lauderdale	28-075-0003	Meridian	14.9	13.4	12.8	13.7
Lee	28-081-0005	Tupelo	14.5	12.8	11.8	13.0
Lowndes	28-087-0001	Columbus	15.5	13.4	13.3*(1)	14.1
Pearl River	28-109-0001	Picayune	&	11.7	11.2	N/A
Rankin	28-121-0001	Pearl	14.9	13.4	12.5	13.6
Scott	28-123-0001	Roosevelt S.P.	13.5	11.5	11.2	12.1
Warren	28-149-0004	Vicksburg	14.1	12.9	11.3	12.8

*- Indicates that the mean does not satisfy summary criteria.
 &- This monitor did not start operating until April 2000.

Table 2
2000-2002 Mississippi PM_{2.5} Data - 24-Hour (98th Percentile)

County	Monitor	City	Maximum 24-Hour Average (# of days above the standard)			
			2000	2001	2002	Design Value
Adams	28-001-0004	Natchez	31.8(0)	28.0(0)	32.4(0)	31
Bolivar	28-011-0001	Cleveland	36.3(0)	34.5(0)	30.9(0)	34
DeSoto	28-033-0002	Hernando	30.8(0)	30.0(0)	31.8(0)*	31
Forrest	28-035-0004	Hattiesburg	29.6(0)	30.0(0)	31.5(0)	30
Hancock	28-045-0001	Port Bienville I.P.	27.9(0)	23.8(0)	19.4(0)	24
Harrison	28-047-0008	Gulfport	27.7(0)	25.8(0)	21.1(0)	25
Hinds	28-049-0010	Jackson	38.6(0)	26.9(0)	32.6(0)	33
Hinds	28-049-0018	Jackson	34.9(0)	29.4(0)	26.9(0)	30
Jackson	28-059-0006	Pascagoula	31.4(0)	24.5(0)	23.0(0)	26
Jones	28-067-0002	Laurel	35.3(0)	28.3(0)	34.7(0)	33
Lauderdale	28-075-0003	Meridian	34.3(0)	31.6(0)	31.3(0)	32
Lee	28-081-0005	Tupelo	31.0(0)	27.4(0)	28.0(0)	29
Lowndes	28-087-0001	Columbus	33.0(0)	31.2(0)	35.3(0)*	33
Pearl River	28-109-0001	Picayune	&	25.4(0)	25.0(0)	N/A
Rankin	28-121-0001	Pearl	33.4(0)	31.3(0)	28.8(0)	31
Scott	28-123-0001	Roosevelt S.P.	29.9(0)	25.5(0)	30.4(0)	29
Warren	28-149-0004	Vicksburg	30.5(0)	34.6(0)	26.0(0)	30

*- Indicates that the mean does not satisfy summary criteria.
 &- This monitor did not start operating until April 2000.

Table 3
2000-2002 Mississippi PM_{2.5} Data - Annual

County	Monitor	City	Maximum Annual Average			
			2000	2001	2002	Design Value
Adams	28-001-0004	Natchez	13.1	11.1	10.7	11.6
Bolivar	28-011-0001	Cleveland	15.1	12.7	11.7	13.2
DeSoto	28-033-0002	Hernando	14.1	12.7	14.0*	13.6
Forrest	28-035-0004	Hattiesburg	14.9	13.6	12.8	13.8
Hancock	28-045-0001	Port Bienville I.P.	12.2	10.3	9.5	10.7
Harrison	28-047-0008	Gulfport	12.8	11.7	10.6	11.7
Hinds	28-049-0010	Jackson	15.2	13.2	12.1	13.5
Hinds	28-049-0018	Jackson	15.6	13.7	12.1	13.8
Jackson	28-059-0006	Pascagoula	13.4	12.2	11.0	12.2
Jones	28-067-0002	Laurel	16.9	14.3	13.7	15.0
Lauderdale	28-075-0003	Meridian	14.9	13.4	12.8	13.7
Lee	28-081-0005	Tupelo	14.5	12.8	11.8	13.0
Lowndes	28-087-0001	Columbus	15.5	13.4	14.6*	14.5
Pearl River	28-109-0001	Picayune	&	11.7	11.2	N/A
Rankin	28-121-0001	Pearl	14.9	13.4	12.5	13.6
Scott	28-123-0001	Roosevelt S.P.	13.5	11.5	11.2	12.1
Warren	28-149-0004	Vicksburg	14.1	12.9	11.3	12.8

* - Indicates that a substitution method was used to satisfy summary criteria
 & - This monitor did not start operating until April 2000.

Table 4
2000-2002 Mississippi PM_{2.5} Data - 24-Hour

County	Monitor	City	Maximum 24-Hour Average (# of days above the standard)			
			2000	2001	2002	Design Value
Adams	28-001-0004	Natchez	31.8(0)	28.0(0)	32.4(0)	31
Bolivar	28-011-0001	Cleveland	36.3(0)	34.5(0)	30.9(0)	34
DeSoto	28-033-0002	Hernando	30.8(0)	30.0(0)	39.1*(0)	33
Forrest	28-035-0004	Hattiesburg	29.6(0)	30.0(0)	31.5(0)	30
Hancock	28-045-0001	Port Bienville I.P.	27.9(0)	23.8(0)	19.4(0)	24
Harrison	28-047-0008	Gulfport	27.7(0)	25.8(0)	21.1(0)	25
Hinds	28-049-0010	Jackson	38.6(0)	26.9(0)	32.6(0)	33
Hinds	28-049-0018	Jackson	34.9(0)	29.4(0)	26.9(0)	30
Jackson	28-059-0006	Pascagoula	31.4(0)	24.5(0)	23.0(0)	26
Jones	28-067-0002	Laurel	35.3(0)	28.3(0)	34.7(0)	33
Lauderdale	28-075-0003	Meridian	34.3(0)	31.6(0)	31.3(0)	32
Lee	28-081-0005	Tupelo	31.0(0)	27.4(0)	28.0(0)	29
Lowndes	28-087-0001	Columbus	33.0(0)	31.2(0)	44.0*(0)	36
Pearl River	28-109-0001	Picayune	&	25.4(0)	25.0(0)	N/A
Rankin	28-121-0001	Pearl	33.4(0)	31.3(0)	28.8(0)	31
Scott	28-123-0001	Roosevelt S.P.	29.9(0)	25.5(0)	30.4(0)	29
Warren	28-149-0004	Vicksburg	30.5(0)	34.6(0)	26.0(0)	30

* - Indicates that a substitution method was used to satisfy summary criteria
 & - This monitor did not start operating until April 2000.

Table 5
2001-2003 Mississippi PM_{2.5} Data - Annual

County	Monitor	City	Maximum Annual Average (# of incomplete quarters)			
			2001	2002	2003	Design Value
Adams	28-001-0004	Natchez	11.1	10.7	11.4*(3)	11.1
Bolivar	28-011-0001	Cleveland	12.7	11.7	12.8*(2)	12.4
DeSoto	28-033-0002	Hernando	12.7	12.5*	12.3*(2)#	12.5
Forrest	28-035-0004	Hattiesburg	13.6	12.8	13.6*(1)#	13.3
Hancock	28-045-0001	Port Bienville I.P.	10.3	9.5	10.6*(1)#	10.1
Harrison	28-047-0008	Gulfport	11.7	10.6	12.0*(1)#	11.4
Hinds	28-049-0010	Jackson	13.2	12.1	13.8*(3)	13.1
Hinds	28-049-0018	Jackson	13.7	12.1	14.1*(4)	13.3
Jackson	28-059-0006	Pascagoula	12.2	11.0	11.9*(2)	11.7
Jones	28-067-0002	Laurel	14.3	13.7	15.1*(2)	14.4
Lauderdale	28-075-0003	Meridian	13.4	12.8	12.8*(4)	13.0
Lee	28-081-0005	Tupelo	12.8	11.8	12.5*(1)#	12.4
Lowndes	28-087-0001	Columbus	13.4	13.3*	13.2*(2)	13.3
Pearl River	28-109-0001	Picayune	11.7	11.2	12.2*(2)#	11.7
Rankin	28-121-0001	Pearl	13.4	12.5	13.4*(4)	13.1
Scott	28-123-0001	Roosevelt S.P.	11.5	11.2	12.4*(4)	11.7
Warren	28-149-0004	Vicksburg	12.9	11.3	12.5*(3)	12.2

* - Indicates that the mean does not satisfy summary criteria because of flagged and missing data.
- Indicates that this dataset is complete if the flagged data is used.
Design values were calculated for all sites using all actual data available.

Table 6
2001-2003 Mississippi PM_{2.5} Data - 24-Hour (98th Percentile)

County	Monitor	City	Maximum 24-Hour Average (# of days above the standard)			
			2001	2002	2003	Design Value
Adams	28-001-0004	Natchez	28.0(0)	32.4(0)	24.9(0)*	28
Bolivar	28-011-0001	Cleveland	34.5(0)	30.9(0)	29.6(0)*	32
DeSoto	28-033-0002	Hernando	30.0(0)	31.3(0)*	27.2(0)*#	30
Forrest	28-035-0004	Hattiesburg	30.0(0)	31.5(0)	26.8(0)*#	29
Hancock	28-045-0001	Port Bienville I.P.	23.8(0)	19.4(0)	22.5(0)*#	22
Harrison	28-047-0008	Gulfport	25.8(0)	21.1(0)	27.2(0)*#	25
Hinds	28-049-0010	Jackson	26.9(0)	32.6(0)	28.5(0)*	29
Hinds	28-049-0018	Jackson	29.4(0)	26.9(0)	29.7(0)*	29
Jackson	28-059-0006	Pascagoula	24.5(0)	23.0(0)	25.8(0)*	24
Jones	28-067-0002	Laurel	28.3(0)	34.7(0)	29.6(0)*	31
Lauderdale	28-075-0003	Meridian	31.6(0)	31.3(0)	28.6(0)*	31
Lee	28-081-0005	Tupelo	27.4(0)	28.0(0)	27.3(0)*#	28
Lowndes	28-087-0001	Columbus	31.2(0)	35.3(0)*	29.5(0)*	32
Pearl River	28-109-0001	Picayune	25.4(0)	25.0(0)	24.7(0)*#	25
Rankin	28-121-0001	Pearl	31.3(0)	28.8(0)	30.3(0)*	30
Scott	28-123-0001	Roosevelt S.P.	25.5(0)	30.4(0)	29.9(0)*	29
Warren	28-149-0004	Vicksburg	34.6(0)	26.0(0)	27.7(0)*	29

* - Indicates that the mean does not satisfy summary criteria because of flagged and missing data.
- Indicates that this dataset is complete if the flagged data is used.
Design values were calculated for all sites using all actual data available.

Table 7
2001-2003 Mississippi PM_{2.5} Data - Annual

County	Monitor	City	Maximum Annual Average (# of incomplete quarters)			
			2001	2002	2003	Design Value
Adams	28-001-0004	Natchez	11.1	10.7	16.9*	12.9*
Bolivar	28-011-0001	Cleveland	12.7	11.7	15.5*	13.3*
DeSoto	28-033-0002	Hernando	12.7	14.0*	12.3	12.8*
Forrest	28-035-0004	Hattiesburg	13.6	12.8	13.6	13.3
Hancock	28-045-0001	Port Bienville I.P.	10.3	9.5	10.6	10.1
Harrison	28-047-0008	Gulfport	11.7	10.6	12.0	11.4
Hinds	28-049-0010	Jackson	13.2	12.1	&	&
Hinds	28-049-0018	Jackson	13.7	12.1	&	&
Jackson	28-059-0006	Pascagoula	12.2	11.0	14.9*	12.7*
Jones	28-067-0002	Laurel	14.3	13.7	16.6*	14.9*
Lauderdale	28-075-0003	Meridian	13.4	12.8	&	&
Lee	28-081-0005	Tupelo	12.8	11.8	12.5	12.4
Lowndes	28-087-0001	Columbus	13.4	14.7*	15.9*	14.7*
Pearl River	28-109-0001	Picayune	11.7	11.2	12.2	11.7
Rankin	28-121-0001	Pearl	13.4	12.5	17.3*	14.4*
Scott	28-123-0001	Roosevelt S.P.	11.5	11.2	&	&
Warren	28-149-0004	Vicksburg	12.9	11.3	17.1*	13.8*

*- Indicates substitution method was used to calculate the Maximum Annual Average and Design Value
 &- Indicates not enough data available to use substitution method.

Table 8
2001-2003 Mississippi PM_{2.5} Data - 24-Hour (98th Percentile)

County	Monitor	City	Maximum 24-Hour Average (# of days above the standard)			
			2001	2002	2003	Design Value
Adams	28-001-0004	Natchez	28.0(0)	32.4(0)	40.1(0)*	34*
Bolivar	28-011-0001	Cleveland	34.5(0)	30.9(0)	43.7(0)*	36*
DeSoto	28-033-0002	Hernando	30.0(0)	39.1(0)*	27.2(0)	32*
Forrest	28-035-0004	Hattiesburg	30.0(0)	31.5(0)	26.8(0)	29
Hancock	28-045-0001	Port Bienville I.P.	23.8(0)	19.4(0)	22.5(0)	22
Harrison	28-047-0008	Gulfport	25.8(0)	21.1(0)	27.2(0)	25
Hinds	28-049-0010	Jackson	26.9(0)	32.6(0)	&	&
Hinds	28-049-0018	Jackson	29.4(0)	26.9(0)	&	&
Jackson	28-059-0006	Pascagoula	24.5(0)	23.0(0)	39.8(0)*	29*
Jones	28-067-0002	Laurel	28.3(0)	34.7(0)	38.1(0)*	34*
Lauderdale	28-075-0003	Meridian	31.6(0)	31.3(0)	&	&
Lee	28-081-0005	Tupelo	27.4(0)	28.0(0)	27.3(0)	28
Lowndes	28-087-0001	Columbus	31.2(0)	44.0(0)*	44.0(0)*	40*
Pearl River	28-109-0001	Picayune	25.4(0)	25.0(0)	24.7(0)*	25
Rankin	28-121-0001	Pearl	31.3(0)	28.8(0)	48.2(0)*	36*
Scott	28-123-0001	Roosevelt S.P.	25.5(0)	30.4(0)	&	&
Warren	28-149-0004	Vicksburg	34.6(0)	26.0(0)	38.0(0)*	29*

*- Indicates substitution method was used to calculate the Maximum 24-Hour Average and Design Value
 &- Indicates not enough data available to use substitution method.