

US EPA ARCHIVE DOCUMENT



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

March 6, 2009

Ms. Carol Rushin
Acting Regional Administrator
US EPA Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

RE: Proposed Area Designations for the 2008 revised 8-Hour Ozone Standard

Dear Ms. Rushin:

Thank you for your letter asking Governor Rounds to provide the Environmental Protection Agency (EPA) with recommendations for designation of areas of the state for the 2008 revised 8-hour ozone National Ambient Air Quality Standard. Governor Rounds has delegated the authority to determine and submit designations for South Dakota to the Secretary of the South Dakota Department of Environment and Natural Resources (DENR). Therefore, I am submitting the proposed designations on the Governor's behalf.

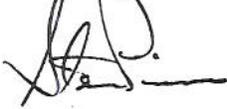
Historically, concentrations of ground level ozone have not been a concern in South Dakota. Since 1997, DENR has collected data for ozone in a state wide network of sites. During the 2005 to 2007 ozone season we had five sampling sites operating in this sampling network. The goals of the sampling sites are to assess population exposure, high concentration, long range transport, background, and rural area exposure. The data collected since 1997 show no high ozone levels, and we fully expect future sampling will continue to be consistent with these results.

Attachment 1 shows a table of the ozone concentrations collected from the sites operating in the state during the 2005 to 2007 ozone seasons and the three year average levels as calculated following the procedures in 40 CFR Part 50 Appendix P, as revised by the Federal Register notice (73 FR 16436; March 27, 2008). See Attachment 2 to review a copy of the Air Quality System printout of the ozone data for South Dakota used to develop the table in Attachment 1.

Using the data in Attachment 1, as requested by your December 11, 2008, letter, and as required by Section 107(d)(1)(A) of the Clean Air Act, I propose that all counties in South Dakota be designated in attainment for the 2008 revised 8-hour ozone standard. See the table enclosed in Attachment 3 for a complete list of proposed designation for counties in South Dakota.

Thank you for allowing South Dakota to propose designations for the 2008 revised 8-hour ozone standard. If you have questions on this notice, please contact Brian Gustafson at 605-773-3151 for more information.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Pirner", with a horizontal line extending to the right.

Steven M. Pirner
Secretary

Enclosures

cy: Callie Videtich, EPA Region 8
Kerri Fiedder, EPA Region 8 ✓

Attachment 1

Three Year Average 4th Maximum Ozone Values

Site Name	AIRS #	<u>2005</u> 8-hour O3 4 th Maximum Value (ppm)	<u>2006</u> 8-hour O3 4 th Maximum Value (ppm)	<u>2007</u> 8-hour O3 4 th Maximum Value (ppm)	3-year. Average 4 th Maximum Value (ppm)
Sioux Falls Hilltop	46-099-0007	0.069	0.067	0.062	0.066
Rapid City Credit Union ¹	46-103-0020	0.065	0.059		4
Black Hawk ²	46-093-0001			0.053	4
Wind Cave	46-033-0123	0.070	0.073	0.069	0.070
Badlands ³	46-071-0001	0.069	0.071	0.064	0.068

1 Rapid City Credit Union Site has only two years of data.

2 Black Hawk Site has only one year of data.

3 Badlands Site was operated by the National Parks Service using an EPA Equivalent Method and with quality assurance checks by the DENR.

4 Less than three years of data.

Attachment 2

Air Quality System South Dakota

Ozone Data Report # AMP 450 For 2005 to 2007

February 20, 2009

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 QUICK LOOK REPORT (AMP450)

Feb. 20, 2009

Ozone (44201)

South Dakota

Parts per million (007)

8-HOUR																	
SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID	NUM	1ST	2ND	3RD	4TH	DAY	CERT EDT	
									DAYS	DAYS	MAX	MAX	MAX	MAX	MAX >		
									MEAS	REQ	8-HR	8-HR	8-HR	8-HR	0.075		
46-033-0132	3	0973	Not in a city	Custer	WIND CAVE NATIONAL PARK, SOUTH DAKOTA	2005	047	98	120	122	.077	.071	.071	.070	1	Y	0
46-033-0132	3	0973	Not in a city	Custer	WIND CAVE NATIONAL PARK, SOUTH DAKOTA	2006	047	100	122	122	.078	.076	.073	.073	2	Y	0
46-033-0132	3	0973	Not in a city	Custer	WIND CAVE NATIONAL PARK, SOUTH DAKOTA	2007	047	100	122	122	.075	.071	.069	.069	0		0
46-071-1001	1	0745	Not in a city	Jackson	BADLANDS NP	2005	047	99	121	122	.071	.071	.071	.069	0		0
46-071-1001	1	0745	Not in a city	Jackson	BADLANDS NP	2006	047	98	119	122	.074	.073	.071	.071	0		0
46-071-1001	1	0745	Not in a city	Jackson	BADLANDS NP	2007	047	100	122	122	.068	.065	.065	.064	0	Y	0
46-093-0001	3	0973	Not in a city	Meade	7108 SEEAIRE ST - BLACK HAWK ELEMENTARY	2007	047	98	120	122	.054	.053	.053	.053	0		0
46-099-0007	3	0973	Sioux Falls	Minnehaha	BAHNSON AVE, HILLTOP SITE	2005	047	100	122	122	.071	.070	.069	.069	0	Y	0
46-099-0007	3	0973	Sioux Falls	Minnehaha	BAHNSON AVE, HILLTOP SITE	2006	047	100	122	122	.072	.067	.067	.067	0	Y	0
46-099-0007	3	0973	Sioux Falls	Minnehaha	BAHNSON AVE, HILLTOP SITE	2007	047	98	120	122	.074	.066	.065	.062	0		0
46-103-0020	3	0973	Rapid City	Pennington	CREDIT UNION SITE, 106 KINNEY AVE.	2005	091	100	122	122	.076	.068	.065	.065	1	Y	0
46-103-0020	3	0973	Rapid City	Pennington	CREDIT UNION SITE, 106 KINNEY AVE.	2006	047	100	122	122	.063	.061	.060	.059	0	Y	0

Note: The * indicates that the mean does not satisfy summary criteria.

**Attachment 3
South Dakota – Ozone (8-Hour Standard)**

Designated Area	Designation	Classification
	Type	Type
Aurora County	Attainment	
Beadle County	Attainment	
Bennett County	Attainment	
Bon Homme County	Attainment	
Brookings County	Attainment	
Brown County	Attainment	
Brule County	Attainment	
Buffalo County	Attainment	
Butte County	Attainment	
Campbell County	Attainment	
Charles County	Attainment	
Clark County	Attainment	
Clay County	Attainment	
Codington County	Attainment	
Corson County	Attainment	
Custer County	Attainment	
Davison County	Attainment	
Day County	Attainment	
Deuel County	Attainment	
Dewey County	Attainment	
Douglas County	Attainment	
Edmunds County	Attainment	
Fall River County	Attainment	
Faulk County	Attainment	
Grant County	Attainment	
Gregory County	Attainment	
Haakon County	Attainment	
Hamlin County	Attainment	
Hand County	Attainment	
Hanson County	Attainment	
Harding County	Attainment	
Hughes County	Attainment	
Hutchinson County	Attainment	

Designated Area	Designation	Classification
	Type	Type
Hyde County	Attainment	
Jackson County	Attainment	
Jerauld County	Attainment	
Jones County	Attainment	
Kingsbury County	Attainment	
Lake County	Attainment	
Lawrence County	Attainment	
Lincoln County	Attainment	
Lyman County	Attainment	
Marshall County	Attainment	
McCook County	Attainment	
McPherson County	Attainment	
Meade County	Attainment	
Mellette County	Attainment	
Miner County	Attainment	
Minnehaha County	Attainment	
Moody County	Attainment	
Pennington County	Attainment	
Perkins County	Attainment	
Potter County	Attainment	
Roberts County	Attainment	
Sanborn County	Attainment	
Shannon County	Attainment	
Spink County	Attainment	
Stanley County	Attainment	
Sully County	Attainment	
Todd County	Attainment	
Tripp County	Attainment	
Turner County	Attainment	
Union County	Attainment	
Walworth County	Attainment	
Yankton County	Attainment	
Ziebach County	Attainment	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 WYNKOOP STREET
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8P-AR

DEC 11 2008

Honorable Mike Rounds
Governor of South Dakota
500 E. Capitol Ave.
Pierre, SD 57501

Dear Governor Rounds:

On March 12, 2008, the Environmental Protection Agency (EPA) revised the national ambient air quality standards (NAAQS) for ozone to provide increased protection of public health and welfare from ozone pollution. The new primary ozone standard was lowered from 0.08 parts per million (ppm) to 0.075 ppm based on numerous epidemiological studies conducted during the past decade in which many of the health effects associated with ozone exposure have been demonstrated at and below the level of the 0.08 ppm standard, which was promulgated in 1997. These include a range of serious respiratory effects and increased premature mortality. EPA also strengthened the secondary 8-hour ozone standard, making it identical to the revised primary standard, to protect against welfare effects such as impacts on vegetation and forested ecosystems.

Within one year of promulgation of a new or revised NAAQS, section 107(d)(1)(A) of the Clean Air Act requires the Governor of each state to submit to EPA a list of all areas in the state, recommending designations for each as "attainment," "nonattainment," or "unclassifiable" with respect to the new or revised standard. Therefore, we ask that you provide your designation recommendations, including appropriate area boundaries, to EPA by March 12, 2009, with respect to the revised ozone NAAQS. Establishing area designations is a key step in the process of providing the health protections that the Clean Air Act mandates. Areas that are designated as not attaining the air quality standards will be required to adopt plans to reduce ambient concentrations of ozone.

The enclosed memorandum provides guidance to state and local air pollution control agencies and tribes on the process for designating areas under the 2008 revised ozone standard. We plan to announce our intended designations as early as possible after receipt of your recommendations, but no later than 120 days prior to promulgating final designations. Following the announcement of intended designations, states and tribes will have the opportunity to comment on any modifications EPA proposes to their recommendations. In accordance with section 107(d)(1)(B) of the Clean Air Act, we intend to issue final designations by March 12, 2010, (although that deadline may be extended up to one additional year if EPA determines that insufficient information is available to establish designations by that date). Our designations will

be based on the most recent three years of certified, quality assured monitoring data available. Ozone nonattainment areas will be classified at the time of designation. The approach EPA will use to classify nonattainment areas under the 2008 revised ozone NAAQS will be established through a separate notice-and-comment rulemaking.

We look forward to working with you and your staff to develop area designations under the 2008 revised ozone standards in a timely manner. If you have any questions, please do not hesitate to contact me or your air quality staff may wish to contact Callie Videtich, Director, Air Program at (303) 312-6434.

Sincerely,



Carol Rushin
Acting Regional Administrator

Enclosure

cc: Steven M. Pirner, Secretary, Department of Environment and Natural Resources
Tim Tollefsrud, Director, Division of Environmental Services
Brian Gustafson, Administrator, Air Quality Program