

Addendum To Appendix 2007-H

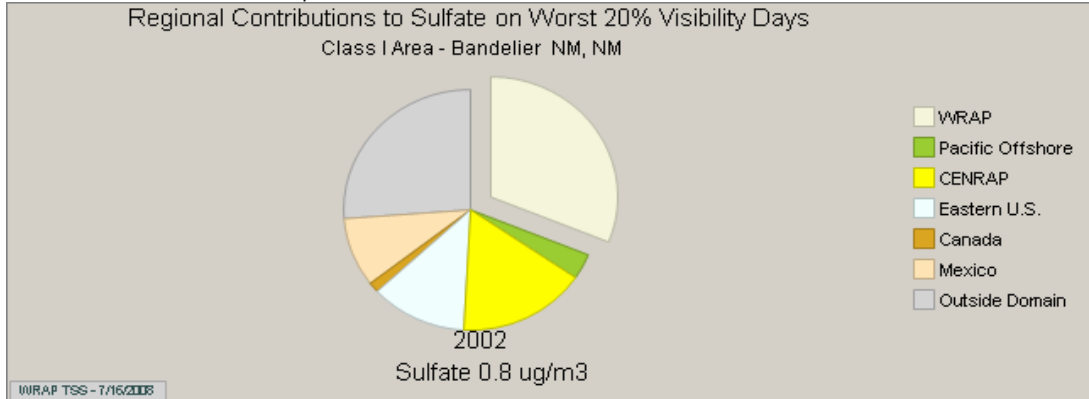
The analysis of the potential visibility impact on Class I Areas in New Mexico caused by emissions from Bernalillo County has been refined. There are two changes that are proposed by the Air Quality Division to address this refinement. The first change is that after further analysis, it is the Division's opinion that it is "improbable" that emissions from Bernalillo County contribute significantly to visibility impairment at any Class I Area in New Mexico. Therefore, a floor amendment is proposed to replace the terms "likely, possible, and unlikely" on page 127 of the Draft Regional Haze SIP, with the term "improbable". This analysis is shown in this addendum to Appendix 2007-H. The second change is that two additional species have been analyzed, that of Nitrate/NO_x and Sulfate/SO_x. This additional analysis is summarized as part of the floor amendment on page 127, as well as in this addendum to Appendix 2007-H.

**Summary of Bernalillo Co.
Impact on All Proximal
Class 1 Areas**

Class I Area (Distance from Albuquerque - Bernalillo Co.)	Pollutant	Bernalillo Co. 2000-2004 Normalized WEP bracket per TSS		Maximum WEP Value	Bernalillo Co. 2000-2004 Actual WEP range		Visibility Impact	Bernalillo Co. 2018 Normalized WEP bracket per TSS		Maximum WEP Value	Bernalillo Co. 2018 Actual WEP range		Visibility Impact
		Min.	Max		Min	Max		Min.	Max		Min	Max	
Bandelier National Monument 52 miles	Organic Carbon	1.0%	10.0%	13.0%	0.1%	1.3%	Improbable	1.0%	10.0%	13.0%	0.1%	1.3%	Improbable
	Elemental Carbon	10.0%	30.0%	10.0%	1.0%	3.0%	Improbable	10.0%	30.0%	10.0%	1.0%	3.0%	Improbable
	PM _{fine}	10.0%	30.0%	9.0%	0.9%	2.7%	Improbable	10.0%	30.0%	11.0%	1.1%	3.3%	Improbable
	PMC	10.0%	30.0%	10.0%	1.0%	3.0%	Improbable	10.0%	30.0%	12.0%	1.2%	3.6%	Improbable
Bosque del Apache 90 miles	Organic Carbon	1.0%	10.0%	15.0%	0.2%	1.5%	Improbable	1.0%	10.0%	2.0%	0.0%	0.2%	Improbable
	Elemental Carbon	10.0%	30.0%	4.0%	0.4%	1.2%	Improbable	1.0%	10.0%	4.0%	0.0%	0.4%	Improbable
	PM _{fine}	1.0%	10.0%	10.0%	0.1%	1.0%	Improbable	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable
	PMC	1.0%	10.0%	5.0%	0.1%	0.5%	Improbable	1.0%	10.0%	5.0%	0.1%	0.5%	Improbable
Guadalupe Mts. National Park 242 miles	Organic Carbon	0.0%	1.0%	28.0%	0.0%	0.3%	Improbable	0.0%	1.0%	28.0%	0.0%	0.3%	Improbable
	Elemental Carbon	0.0%	1.0%	18.0%	0.0%	0.2%	Improbable	0.0%	1.0%	18.0%	0.0%	0.2%	Improbable
	PM _{fine}	0.0%	1.0%	8.0%	0.0%	0.1%	Improbable	0.0%	1.0%	8.0%	0.0%	0.1%	Improbable
	PMC	0.0%	1.0%	10.0%	0.0%	0.1%	Improbable	0.0%	1.0%	10.0%	0.0%	0.1%	Improbable
Gila Wilderness 159 miles	Organic Carbon	0.0%	1.0%	53.0%	0.0%	0.5%	Improbable	1.0%	10.0%	2.0%	0.0%	0.2%	Improbable
	Elemental Carbon	0.0%	1.0%	45.0%	0.0%	0.5%	Improbable	1.0%	10.0%	1.0%	0.0%	0.1%	Improbable
	PM _{fine}	0.0%	1.0%	5.0%	0.0%	0.1%	Improbable	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable
	PMC	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable
Salt Creek Wilderness 171 miles	Organic Carbon	0.0%	1.0%	13.0%	0.0%	0.1%	Improbable	0.0%	1.0%	8.0%	0.0%	0.1%	Improbable
	Elemental Carbon	0.0%	1.0%	14.0%	0.0%	0.1%	Improbable	1.0%	10.0%	6.0%	0.1%	0.6%	Improbable
	PM _{fine}	0.0%	1.0%	9.0%	0.0%	0.1%	Improbable	1.0%	10.0%	9.0%	0.1%	0.9%	Improbable
	PMC	0.0%	1.0%	9.0%	0.0%	0.1%	Improbable	1.0%	10.0%	8.0%	0.1%	0.8%	Improbable
San Pedro Park Wilderness 66 miles	Organic Carbon	1.0%	10.0%	13.0%	0.1%	1.3%	Improbable	1.0%	10.0%	13.0%	0.1%	1.3%	Improbable
	Elemental Carbon	1.0%	10.0%	12.0%	0.1%	1.2%	Improbable	1.0%	10.0%	10.0%	0.1%	1.0%	Improbable
	PM _{fine}	10.0%	30.0%	7.0%	0.7%	2.1%	Improbable	10.0%	30.0%	8.0%	0.8%	2.4%	Improbable
	PMC	10.0%	30.0%	8.0%	0.8%	2.4%	Improbable	10.0%	30.0%	9.0%	0.9%	2.7%	Improbable
Wheeler Peak Wilderness 122 miles	Organic Carbon	0.0%	1.0%	47.0%	0.0%	0.5%	Improbable	1.0%	10.0%	1.0%	0.0%	0.1%	Improbable
	Elemental Carbon	0.0%	1.0%	40.0%	0.0%	0.4%	Improbable	10.0%	30.0%	1.0%	0.1%	0.3%	Improbable
	PM _{fine}	1.0%	10.0%	7.0%	0.1%	0.7%	Improbable	10.0%	30.0%	3.0%	0.3%	0.9%	Improbable
	PMC	10.0%	30.0%	4.0%	0.4%	1.2%	Improbable	10.0%	30.0%	4.0%	0.4%	1.2%	Improbable
White Mountain Wilderness 166 miles	Organic Carbon	0.0%	1.0%	20.0%	0.0%	0.2%	Improbable	0.0%	1.0%	7.0%	0.0%	0.1%	Improbable
	Elemental Carbon	0.0%	1.0%	15.0%	0.0%	0.2%	Improbable	1.0%	10.0%	4.0%	0.0%	0.4%	Improbable
	PM _{fine}	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable
	PMC	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable	1.0%	10.0%	3.0%	0.0%	0.3%	Improbable

**Amount of 2002 Bernalillo Co. Emissions
Sulfate / SO_x (ug/m³)
Predicted to reach Bandelier NM
Basis: Worst 20% of IMPROVE samples**

2000 - 2004 baseline Impact on Bandelier - closest Class 1 area to Bernalillo Co.



Sulfate/SO_x Worst 20% of IMPROVE samples **Total 0.8 ug/m³** WRAP percentage of total. **32%**

site	Year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BAND1	2002	plan02c36k	PS4	24	AZ	0.05537083	7.50E-05	0.003641667	0.001958333	0.001191667	0.0622375
BAND1	2002	plan02c36k	PS4	24	CA	0.008070833	6.25E-05	0.003008333	0.0048875	0.002554167	0.01858333
BAND1	2002	plan02c36k	PS4	24	CO	0.008570833	3.75E-05	0.0009375	0.001066667	0.0008	0.0114125
BAND1	2002	plan02c36k	PS4	24	ID	0.000845833	3.33E-05	0.000258333	0.000283333	0.0001375	0.001558333
BAND1	2002	plan02c36k	PS4	24	MT	0.000783333	1.67E-05	0.000129167	4.17E-05	7.08E-05	0.001041667
BAND1	2002	plan02c36k	PS4	24	NV	0.01080417	0	0.000375	0.000270833	0.0015	0.01295
BAND1	2002	plan02c36k	PS4	24	NM	0.09451666	3.75E-05	0.00925	0.0052875	0.01368333	0.122775
BAND1	2002	plan02c36k	PS4	24	ND	0.0030625	0	0.0001	0	5.83E-05	0.003220833
BAND1	2002	plan02c36k	PS4	24	OR	0.000954167	0.000116667	0.000558333	0.000983333	0.0004375	0.003049999
BAND1	2002	plan02c36k	PS4	24	SD	0.000208333	0	0.000229167	1.25E-05	0.000245833	0.000695833
BAND1	2002	plan02c36k	PS4	24	UT	0.01015417	8.33E-06	0.00085	0.000758333	0.000554167	0.012325
BAND1	2002	plan02c36k	PS4	24	WA	0.001791667	7.50E-05	0.000729167	5.83E-05	0.0003125	0.002966667
BAND1	2002	plan02c36k	PS4	24	WY	0.005016667	4.17E-06	0.000275	6.25E-05	0.0005875	0.005945833
Total						0.200149997	0.000466667	0.020341667	0.015670833	0.022133331	0.258762495
NM % of WRAP						47%	8%	45%	34%	62%	47%
NM % of Total						12%	0%	1%	1%	2%	15%

Bernalillo Co. SO_x Contribution as a percentage of New Mexico (TSS Data)

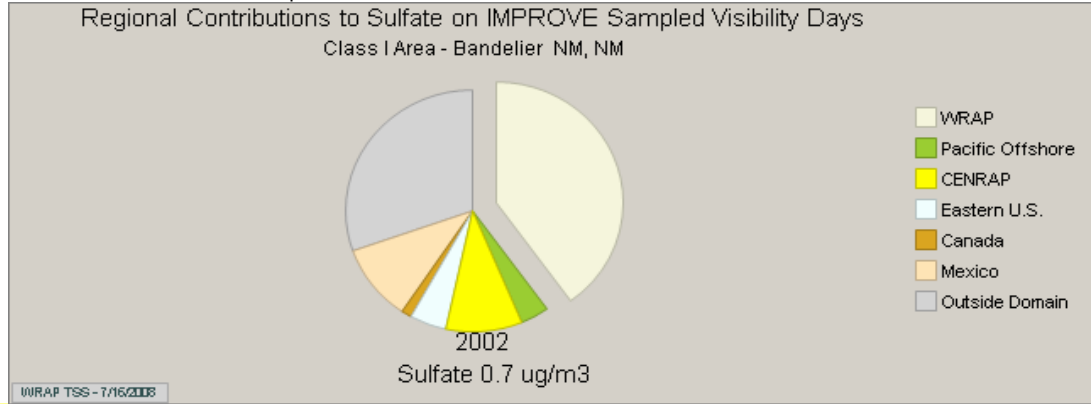
3%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
12%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
57%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	3%	0%	12%	0%	57%	9.72%
Bernalillo Co. % of Total	0%	0%	0%	0%	1%	1%

0.012 ug/m³

**Amount of 2002 Bernalillo Co. Emissions
Sulfate / SOx (ug/m3)
Predicted to reach Bandelier NM
Basis: All IMPROVE samples**

2000 - 2004 baseline Impact on Bandelier - closest Class 1 area to Bernalillo Co.



Sulfate/SOX All IMPROVE samples **Total 0.7 ug/m3** WRAP percentage of total. **39%**

						Point Sources	Anthropolog Fires	Mobile Sources	Nat. Fires & biogenics	Area sources	State Total
BAND1	2002	plan02c36k	PS4	122	AZ	0.05286229	0.000136885	0.003261475	0.00204918	0.001111475	0.05942131
BAND1	2002	plan02c36k	PS4	122	CA	0.006551639	0.000117213	0.002281148	0.002221311	0.002021312	0.01319262
BAND1	2002	plan02c36k	PS4	122	CO	0.0171959	3.61E-05	0.001581148	0.000296721	0.00132623	0.02043607
BAND1	2002	plan02c36k	PS4	122	ID	0.002063934	0.000168033	0.000428689	0.000722131	0.000290164	0.003672951
BAND1	2002	plan02c36k	PS4	122	MT	0.001013115	2.54E-05	0.00015	0.000130328	9.67E-05	0.001415574
BAND1	2002	plan02c36k	PS4	122	NV	0.009889345	0	0.000373771	0.000445902	0.001702459	0.01241148
BAND1	2002	plan02c36k	PS4	122	NM	0.09340574	0.000111475	0.009208197	0.002385246	0.01402131	0.119132
BAND1	2002	plan02c36k	PS4	122	ND	0.00209918	4.10E-06	7.95E-05	5.74E-06	4.59E-05	0.002234426
BAND1	2002	plan02c36k	PS4	122	OR	0.001205738	0.000137705	0.000572951	0.000818033	0.000489344	0.00322377
BAND1	2002	plan02c36k	PS4	122	SD	0.000165574	0	0.000138525	6.56E-06	0.00015	0.000460656
BAND1	2002	plan02c36k	PS4	122	UT	0.0179541	5.74E-06	0.001569672	0.000458197	0.001064754	0.02105246
BAND1	2002	plan02c36k	PS4	122	WA	0.001820492	9.02E-05	0.000661475	8.44E-05	0.000301639	0.002958197
BAND1	2002	plan02c36k	PS4	122	WY	0.01112623	4.26E-05	0.000489344	0.00017541	0.001136066	0.01296967
Total						0.217353277	0.00087541	0.020795902	0.00979918	0.023757376	0.272581184

NM % of WRAP 43% 13% 44% 24% 59% 44%
 NM % of Total 13% 0% 1% 0% 2% 17%

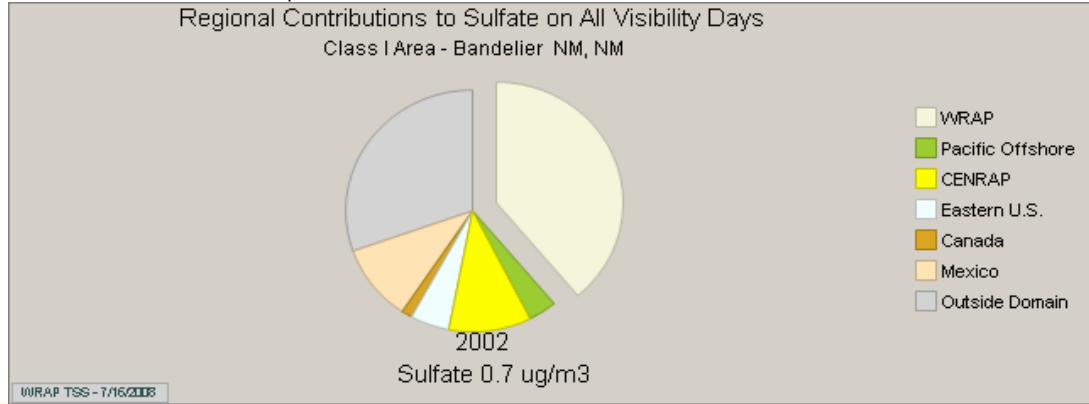
3%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
12%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
57%	Area Sources are based on County Area & population

Bernalillo Co. % of NM 3% 0% 12% 0% 57% 10.15%
 Bernalillo Co. % of Total 0% 0% 0% 0% 1% 2%

0.012 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Sulfate / SOx (ug/m3)
Predicted to reach Bandelier NM
Basis: All Days (Modeled)**

2000 - 2004 baseline Impact on Bandelier - closest Class 1 area to Bernalillo Co.



Sulfate/SOX All days - modeled **Total 0.7 ug/m3** WRAP percentage of total. **38%**

						Point Sources	Anthropolog Fires	Mobile Sources	Nat. Fires & biogenics	Area sources	State Total
BAND1	2002	plan02c36k	PS4	365	AZ	0.0548726	0.000134795	0.003422192	0.002282192	0.001166027	0.06187781
BAND1	2002	plan02c36k	PS4	365	CA	0.006594247	0.000127123	0.002324932	0.002444657	0.002043562	0.01353452
BAND1	2002	plan02c36k	PS4	365	CO	0.01453151	3.78E-05	0.00139589	0.000207671	0.001162466	0.01733534
BAND1	2002	plan02c36k	PS4	365	ID	0.002008767	0.00015589	0.000438356	0.000631233	0.0003	0.003534246
BAND1	2002	plan02c36k	PS4	365	MT	0.001073973	2.16E-05	0.000158356	0.000130959	9.73E-05	0.001482192
BAND1	2002	plan02c36k	PS4	365	NV	0.01064521	0	0.000395069	0.000418082	0.001815342	0.0132737
BAND1	2002	plan02c36k	PS4	365	NM	0.08758932	0.000103014	0.009213973	0.001984383	0.01382082	0.1127115
BAND1	2002	plan02c36k	PS4	365	ND	0.002398082	3.84E-06	0.0001	5.75E-06	5.62E-05	0.002563836
BAND1	2002	plan02c36k	PS4	365	OR	0.001265753	0.000126301	0.000585753	0.00080411	0.000501918	0.003283835
BAND1	2002	plan02c36k	PS4	365	SD	0.000210411	0	0.000173973	8.22E-06	0.00018548	0.000578082
BAND1	2002	plan02c36k	PS4	365	UT	0.01734932	4.66E-06	0.001561096	0.000431781	0.001020822	0.02036767
BAND1	2002	plan02c36k	PS4	365	WA	0.001896438	0.0001	0.000699452	9.95E-05	0.000317808	0.00311315
BAND1	2002	plan02c36k	PS4	365	WY	0.009871781	2.77E-05	0.000450411	0.000169589	0.001024658	0.01154411
					Total	0.210307412	0.00084274	0.020919453	0.009618081	0.023512327	0.265199991

NM % of WRAP 42% 12% 44% 21% 59% 43%
 NM % of Total 13% 0% 1% 0% 2% 16%

- 3% Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
- 0% Anthropogenic Fires are based on Area of National or State Forest
- 12% Mobile Sources are based on population
- 0% Natural Fires & Biogenics are based on County Area and Vegetation type/density
- 57% Area Sources are based on County Area & population

Bernalillo Co. % of NM 3% 0% 12% 0% 57% 10.46%
 Bernalillo Co. % of Total 0% 0% 0% 0% 1% 2%

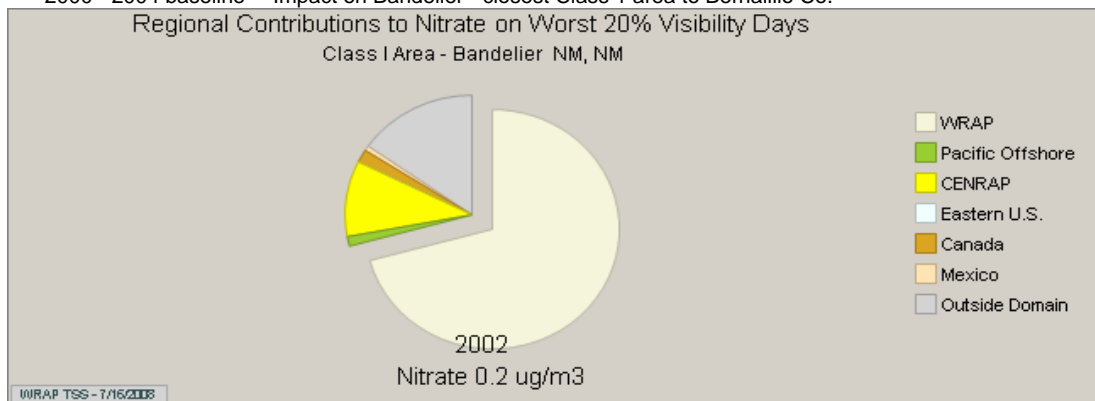
0.012 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Nitrate (ug/m3)**

Predicted to reach Bandelier NM

Basis: Worst 20% of IMPROVE samples

2000 - 2004 baseline Impact on Bandelier - closest Class 1 area to Bernalillo Co.



Nitrate / Nox **Worst 20% of IMPROVE samples** **Total 0.2 ug/m3** WRAP percentage of total. **68%**

site	Year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BAND1	2002	plan02c36k	PN3	24	AZ	0.005733334	4.17E-05	0.0101375	0.001679167	0.000325	0.01791666
BAND1	2002	plan02c36k	PN3	24	CA	0.0010375	2.92E-05	0.0094125	0.0004875	0.001229167	0.01219583
BAND1	2002	plan02c36k	PN3	24	CO	0.002470833	4.17E-06	0.00275	0.0005875	0.0026625	0.008475
BAND1	2002	plan02c36k	PN3	24	ID	6.25E-05	8.33E-06	0.000295833	6.25E-05	0.000145833	0.000575
BAND1	2002	plan02c36k	PN3	24	MT	0.000166667	2.08E-05	0.0003125	0.0002375	5.00E-05	0.0007875
BAND1	2002	plan02c36k	PN3	24	NV	0.001025	0	0.001016667	0.0001125	5.83E-05	0.0022125
BAND1	2002	plan02c36k	PN3	24	NM	0.0336375	0	0.0226	0.002179167	0.0208125	0.07922918
BAND1	2002	plan02c36k	PN3	24	ND	0.0006	4.17E-06	0.0002625	0.000133333	6.25E-05	0.0010625
BAND1	2002	plan02c36k	PN3	24	OR	5.42E-05	7.50E-05	0.000308333	4.17E-05	2.08E-05	0.0005
BAND1	2002	plan02c36k	PN3	24	SD	3.33E-05	0	0.0005125	0.000416667	3.75E-05	0.001
BAND1	2002	plan02c36k	PN3	24	UT	0.0069125	4.17E-06	0.003516667	0.0002875	0.000408333	0.01112917
BAND1	2002	plan02c36k	PN3	24	WA	4.17E-05	1.25E-05	0.00035	2.50E-05	2.08E-05	0.00045
BAND1	2002	plan02c36k	PN3	24	WY	0.000429167	0	0.000295833	3.33E-05	8.75E-05	0.000845833
Total						0.052204167	0.0002	0.051770834	0.006283334	0.025920834	0.136379173
NM % of WRAP						64%	0%	44%	35%	80%	58%
NM % of Total						17%	0%	11%	1%	10%	40%

Bernalillo Co. NOx Contribution as a percentage of New Mexico (TSS Data)

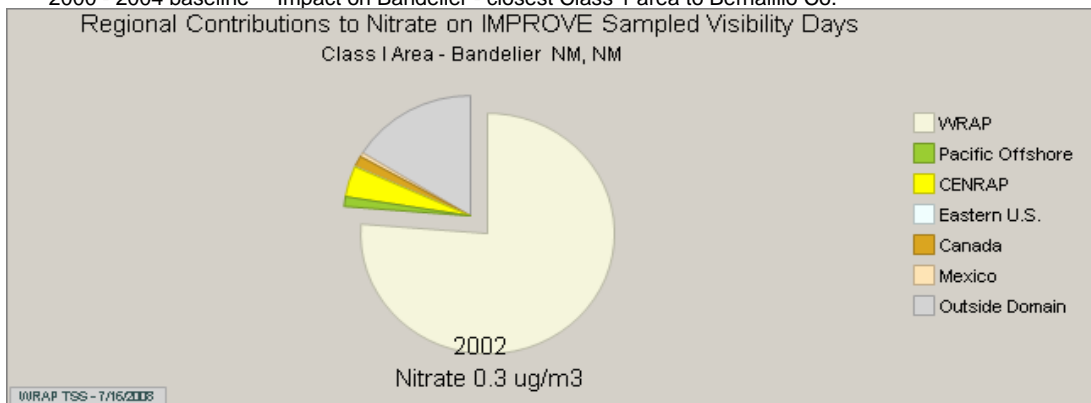
2%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
17%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
48%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	2%	0%	17%	0%	48%	18.48%
Bernalillo Co. % of Total	0%	0%	2%	0%	5%	7%

0.015 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Nitrate (ug/m3)
Predicted to reach Bandelier NM
Basis: All IMPROVE samples**

2000 - 2004 baseline Impact on Bandelier - closest Class 1 area to Bernalillo Co.
Regional Contributions to Nitrate on IMPROVE Sampled Visibility Days
Class I Area - Bandelier NM, NM



Nitrate / Nox **All IMPROVE samples** **Total 0.3 ug/m3** WRAP percentage of total. **75%**

						Point Sources	Anthropolog Fires	Mobile Sources	Nat. Fires & biogenics	Area sources	State Total
BAND1	2002	plan02c36k	PN3	122	AZ	0.007940983	8.28E-05	0.01449836	0.00155082	0.000484426	0.02455737
BAND1	2002	plan02c36k	PN3	122	CA	0.001536885	0.000115574	0.01322541	0.000608197	0.00187623	0.01736229
BAND1	2002	plan02c36k	PN3	122	CO	0.005814754	4.43E-05	0.007204918	0.000779508	0.004778688	0.01862213
BAND1	2002	plan02c36k	PN3	122	ID	0.000353279	0.000122131	0.001592623	0.000298361	0.000769672	0.003136066
BAND1	2002	plan02c36k	PN3	122	MT	0.000341803	3.11E-05	0.000590984	0.000236885	7.13E-05	0.001272131
BAND1	2002	plan02c36k	PN3	122	NV	0.001556557	0	0.001658197	0.000195902	0.000107377	0.003518032
BAND1	2002	plan02c36k	PN3	122	NM	0.05201066	3.20E-05	0.03027705	0.005613115	0.03283361	0.1207664
BAND1	2002	plan02c36k	PN3	122	ND	0.00042623	1.64E-06	0.000206557	9.10E-05	4.84E-05	0.00077377
BAND1	2002	plan02c36k	PN3	122	OR	0.000257377	0.000189344	0.0012	0.000121312	9.92E-05	0.001867213
BAND1	2002	plan02c36k	PN3	122	SD	5.49E-05	0	0.000241803	0.000170492	2.13E-05	0.000488525
BAND1	2002	plan02c36k	PN3	122	UT	0.01333279	4.10E-06	0.009361476	0.000537705	0.001097541	0.02433361
BAND1	2002	plan02c36k	PN3	122	WA	0.000201639	2.30E-05	0.001490164	8.52E-05	9.67E-05	0.001896721
BAND1	2002	plan02c36k	PN3	122	WY	0.002783607	2.70E-05	0.0015	7.38E-05	0.000612295	0.004996722
					Total	0.086611482	0.000672951	0.083047542	0.010362296	0.042896725	0.22359098
					NM % of WRAP	60%	5%	36%	54%	77%	54%
					NM % of Total	17%	0%	10%	2%	11%	40%

Bernalillo Co. NOx Contribution as a percentage of New Mexico (TSS Data)

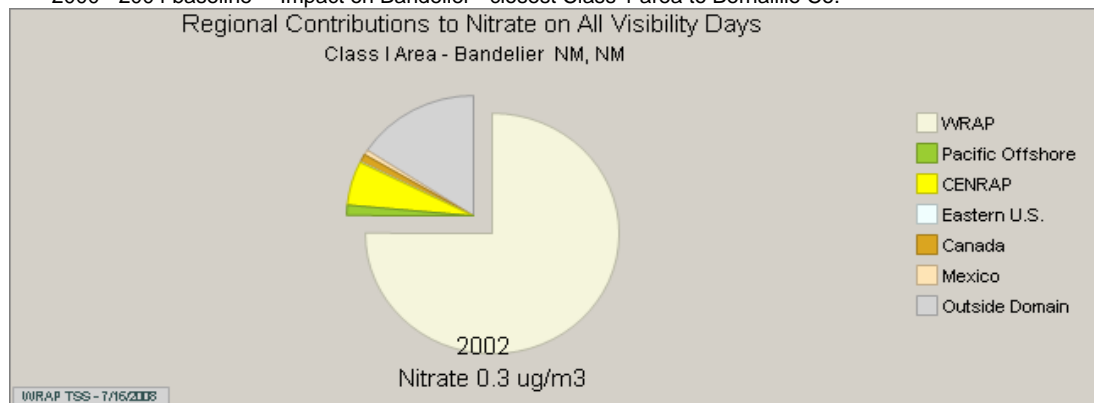
2%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
17%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
48%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	2%	0%	17%	0%	48%	18.35%
Bernalillo Co. % of Total	0%	0%	2%	0%	5%	7%

0.022 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Nitrate (ug/m3)
Predicted to reach Bandelier NM
Basis: All Days (Modeled)**

2000 - 2004 baseline Impact on Bandelier - closest Class 1 area to Bernalillo Co.



Nitrate / Nox All days - modeled **Total 0.7 ug/m3** WRAP percentage of total. **31%**

						Point Sources	Anthropolog Fires	Mobile Sources	Nat. Fires & biogenics	Area sources	State Total
BAND1	2002	plan02c36k	PN3	365	AZ	0.007849589	0.000119726	0.01364192	0.00145726	0.000447945	0.02351643
BAND1	2002	plan02c36k	PN3	365	CA	0.001566027	0.00012137	0.01331288	0.00062	0.001876438	0.01749672
BAND1	2002	plan02c36k	PN3	365	CO	0.005671507	4.22E-05	0.007272603	0.000808767	0.004668219	0.01846329
BAND1	2002	plan02c36k	PN3	365	ID	0.00030411	9.67E-05	0.001368767	0.000265753	0.000673151	0.002708494
BAND1	2002	plan02c36k	PN3	365	MT	0.000311507	1.73E-05	0.000489863	0.000145206	5.64E-05	0.001020274
BAND1	2002	plan02c36k	PN3	365	NV	0.001538356	0	0.001591233	0.000174521	0.000103288	0.003407397
BAND1	2002	plan02c36k	PN3	365	NM	0.05169041	2.49E-05	0.02977918	0.003908493	0.03193452	0.1173375
BAND1	2002	plan02c36k	PN3	365	ND	0.000292055	1.37E-06	0.000175616	5.40E-05	3.67E-05	0.000559726
BAND1	2002	plan02c36k	PN3	365	OR	0.000246027	0.00014	0.001134247	0.00011726	9.67E-05	0.001734246
BAND1	2002	plan02c36k	PN3	365	SD	5.29E-05	0	0.00023863	0.000126575	1.92E-05	0.00043726
BAND1	2002	plan02c36k	PN3	365	UT	0.01346932	6.30E-06	0.009264931	0.000506575	0.001075616	0.02432274
BAND1	2002	plan02c36k	PN3	365	WA	0.000195616	3.73E-05	0.001426849	8.90E-05	9.15E-05	0.001840274
BAND1	2002	plan02c36k	PN3	365	WY	0.002577808	1.56E-05	0.00148137	5.81E-05	0.000547671	0.004680547
Total						0.085765209	0.00062274	0.08117809	0.008331506	0.041627396	0.217524898
NM % of WRAP						60%	4%	37%	47%	77%	54%
NM % of Total						7%	0%	4%	1%	5%	17%

Bernalillo Co. NOx Contribution as a percentage of New Mexico (TSS Data)

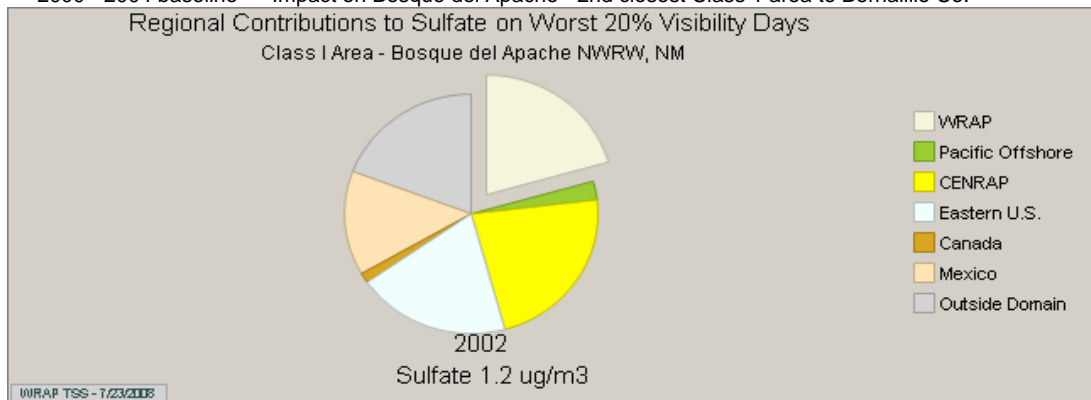
2%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
17%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
48%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	2%	0%	17%	0%	48%	18.44%
Bernalillo Co. % of Total	0%	0%	1%	0%	2%	3%

0.022 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Sulfate / SOx (ug/m3)
Predicted to reach Bosque del Apache
Basis: Worst 20% of IMPROVE samples**

2000 - 2004 baseline Impact on Bosque del Apache - 2nd closest Class 1 area to Bernalillo Co.



Sulfate/SOx Worst 20% of IMPROVE samples **Total 1.2 ug/m3** WRAP percentage of total. **20%**

site	Year	modelrun	param	N	SReg	PT	Point Sources	Anthropolog Fires	Mobile Sources	Nat. Fires & biogenics	Area sources	State Total
BOAP1	2002	plan02c36k	PS4	22	AZ	0.05721363	3.18E-05	0.003954546	0.007390909	0.001404546		0.06999546
BOAP1	2002	plan02c36k	PS4	22	CA	0.006263637	4.09E-05	0.002377273	0.005068182	0.002		0.01575
BOAP1	2002	plan02c36k	PS4	22	CO	0.01650454	5.00E-05	0.001272727	0.000672727	0.0011		0.0196
BOAP1	2002	plan02c36k	PS4	22	ID	0.001322727	1.36E-05	0.000295455	0.0005	0.000186364		0.002318182
BOAP1	2002	plan02c36k	PS4	22	MT	0.001677273	3.64E-05	0.000204545	4.55E-05	0.000118182		0.002081818
BOAP1	2002	plan02c36k	PS4	22	NV	0.01155	0	0.0004	0.000236364	0.001809091		0.01399545
BOAP1	2002	plan02c36k	PS4	22	NM	0.05151363	0.000186364	0.01056364	0.002927273	0.01155		0.07674091
BOAP1	2002	plan02c36k	PS4	22	ND	0.004590909	0	0.000140909	0	7.73E-05		0.004809091
BOAP1	2002	plan02c36k	PS4	22	OR	0.000913636	7.27E-05	0.000513636	0.000745455	0.000409091		0.002654545
BOAP1	2002	plan02c36k	PS4	22	SD	0.000381818	0	0.00035	1.36E-05	0.0004		0.001145455
BOAP1	2002	plan02c36k	PS4	22	UT	0.01112727	4.55E-06	0.001059091	0.000645455	0.0007		0.01353636
BOAP1	2002	plan02c36k	PS4	22	WA	0.001645455	4.09E-05	0.000663636	1.82E-05	0.000286364		0.002654545
BOAP1	2002	plan02c36k	PS4	22	WY	0.01287727	0	0.000645455	0.00015	0.001572727		0.01524546
Total						0.177581796	0.000477273	0.022440913	0.018413637	0.021613637	0.240527276	
NM % of WRAP						29%	39%	47%	16%	53%	32%	
NM % of Total						4%	0%	1%	0%	1%	6%	

Bernalillo Co. SOx Contribution as a percentage of New Mexico (TSS Data)

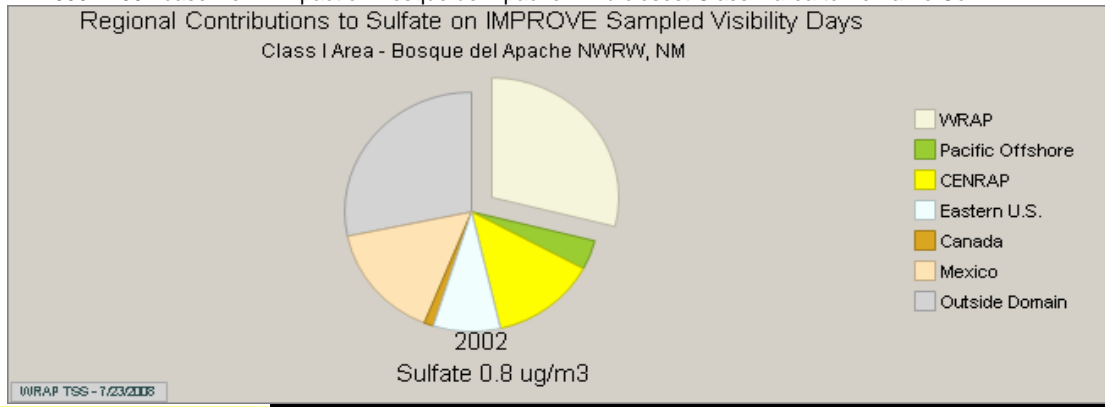
- 3%** Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
- 0%** Anthropogenic Fires are based on Area of National or State Forest
- 12%** Mobile Sources are based on population
- 0%** Natural Fires & Biogenics are based on County Area and Vegetation type/density
- 57%** Area Sources are based on County Area & population

Bernalillo Co. % of NM	3%	0%	12%	0%	57%	12.42%
Bernalillo Co. % of Total	0%	0%	0%	0%	1%	1%

0.010 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Sulfate / SOx (ug/m3)
Predicted to reach Bosque del Apache
Basis: All IMPROVE samples**

2000 - 2004 baseline Impact on Bosque del Apache - 2nd closest Class 1 area to Bernalillo Co.



Sulfate/SOX All IMPROVE samples **Total 0.8 ug/m3** WRAP percentage of total. **30%**

site	Year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BOAP1	2002	plan02c36k	PS4	122	AZ	0.07996722	0.000127049	0.004713115	0.003378689	0.001727869	0.08991393
BOAP1	2002	plan02c36k	PS4	122	CA	0.00745164	0.000130328	0.002583607	0.002286066	0.002279508	0.01473115
BOAP1	2002	plan02c36k	PS4	122	CO	0.01262295	2.05E-05	0.001037705	0.000145902	0.000884426	0.01471147
BOAP1	2002	plan02c36k	PS4	122	ID	0.001735246	0.000140164	0.000363115	0.000462295	0.000244262	0.002945082
BOAP1	2002	plan02c36k	PS4	122	MT	0.001120492	2.38E-05	0.000154918	0.000104918	9.34E-05	0.001497541
BOAP1	2002	plan02c36k	PS4	122	NV	0.01107459	0	0.000371312	0.000345082	0.001836066	0.01362705
BOAP1	2002	plan02c36k	PS4	122	NM	0.04983525	8.11E-05	0.007736065	0.00159918	0.007180328	0.06643197
BOAP1	2002	plan02c36k	PS4	122	ND	0.002561475	3.28E-06	8.93E-05	2.46E-06	5.16E-05	0.002708197
BOAP1	2002	plan02c36k	PS4	122	OR	0.001104098	0.000136066	0.000529508	0.000745902	0.000470492	0.002986065
BOAP1	2002	plan02c36k	PS4	122	SD	0.000210656	0	0.000163115	5.74E-06	0.000190164	0.000569672
BOAP1	2002	plan02c36k	PS4	122	UT	0.01492951	6.56E-06	0.001413934	0.00037459	0.00094918	0.01767377
BOAP1	2002	plan02c36k	PS4	122	WA	0.001693443	8.11E-05	0.000605738	6.97E-05	0.000272131	0.002722132
BOAP1	2002	plan02c36k	PS4	122	WY	0.0100918	3.77E-05	0.000477049	0.000161475	0.001141803	0.01190984
Total						0.19439837	0.000787705	0.020238524	0.009681968	0.017321312	0.242427869
NM % of WRAP						26%	10%	38%	17%	41%	27%
NM % of Total						6%	0%	1%	0%	1%	8%

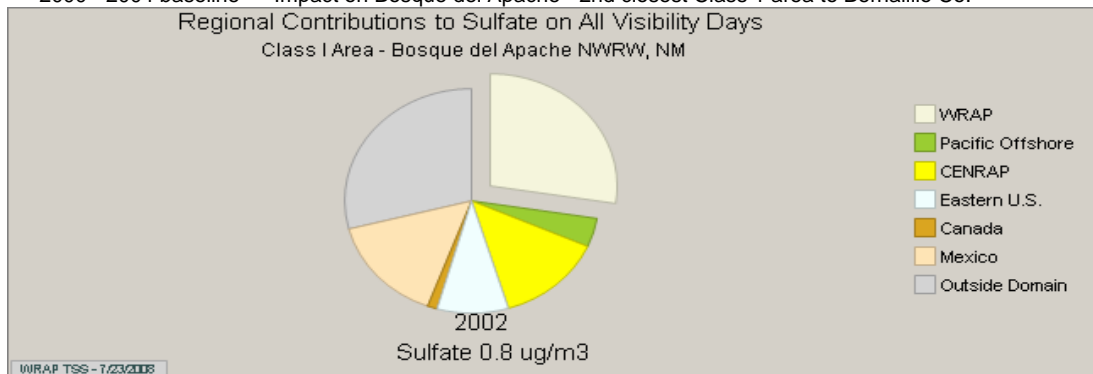
Bernalillo Co. SOx Contribution as a percentage of New Mexico (TSS Data)

- 3%** Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
- 0%** Anthropogenic Fires are based on Area of National or State Forest
- 12%** Mobile Sources are based on population
- 0%** Natural Fires & Biogenics are based on County Area and Vegetation type/density
- 57%** Area Sources are based on County Area & population

Bernalillo Co. % of NM	3%	0%	12%	0%	57%	9.97%
Bernalillo Co. % of Total	0%	0%	0%	0%	1%	1%
0.007 ug/m3						

**Amount of 2002 Bernalillo Co. Emissions
Sulfate / SOx (ug/m3)
Predicted to reach Bosque del Apache
Basis: All Days (Modeled)**

2000 - 2004 baseline Impact on Bosque del Apache - 2nd closest Class 1 area to Bernalillo Co.



Sulfate/SOX	All days - modeled	Total	0.8 ug/m3	WRAP percentage of total.	28%
-------------	--------------------	--------------	------------------	---------------------------	------------

Site	year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BOAP1	2002	plan02c36k	PS4	365	AZ	0.07235945	0.000116164	0.004480822	0.004985479	0.001683014	0.08362493
BOAP1	2002	plan02c36k	PS4	365	CA	0.007688493	0.000143836	0.00262274	0.002508767	0.00234411	0.01530795
BOAP1	2002	plan02c36k	PS4	365	CO	0.01057151	1.37E-05	0.000878904	0.000103836	0.000745206	0.01231315
BOAP1	2002	plan02c36k	PS4	365	ID	0.001579452	0.000138356	0.000350411	0.000465206	0.000243014	0.002776438
BOAP1	2002	plan02c36k	PS4	365	MT	0.00103863	1.84E-05	0.000149315	0.000133151	8.82E-05	0.001427671
BOAP1	2002	plan02c36k	PS4	365	NV	0.01063644	0	0.000366849	0.000394795	0.001779178	0.01317726
BOAP1	2002	plan02c36k	PS4	365	NM	0.04640493	8.96E-05	0.00710137	0.001392603	0.006256438	0.06124493
BOAP1	2002	plan02c36k	PS4	365	ND	0.002677808	4.66E-06	0.0001	4.11E-06	5.81E-05	0.002844658
BOAP1	2002	plan02c36k	PS4	365	OR	0.00116137	0.000122466	0.000559452	0.000827123	0.000491507	0.003161918
BOAP1	2002	plan02c36k	PS4	365	SD	0.000212329	0	0.000173973	6.85E-06	0.000196164	0.000589315
BOAP1	2002	plan02c36k	PS4	365	UT	0.0133189	4.11E-06	0.001254795	0.000309315	0.000830137	0.01571726
BOAP1	2002	plan02c36k	PS4	365	WA	0.001790411	9.21E-05	0.000643836	8.47E-05	0.000289863	0.002900822
BOAP1	2002	plan02c36k	PS4	365	WY	0.00883178	2.60E-05	0.000427671	0.000138356	0.000991781	0.01041562
Total						0.178271503	0.000769315	0.019110138	0.011354246	0.015996713	0.225501922
NM % of WRAP						26%	12%	37%	12%	39%	27%
NM % of Total						6%	0%	1%	0%	1%	8%

Bernalillo Co. SOx Contribution as a percentage of New Mexico (TSS Data)

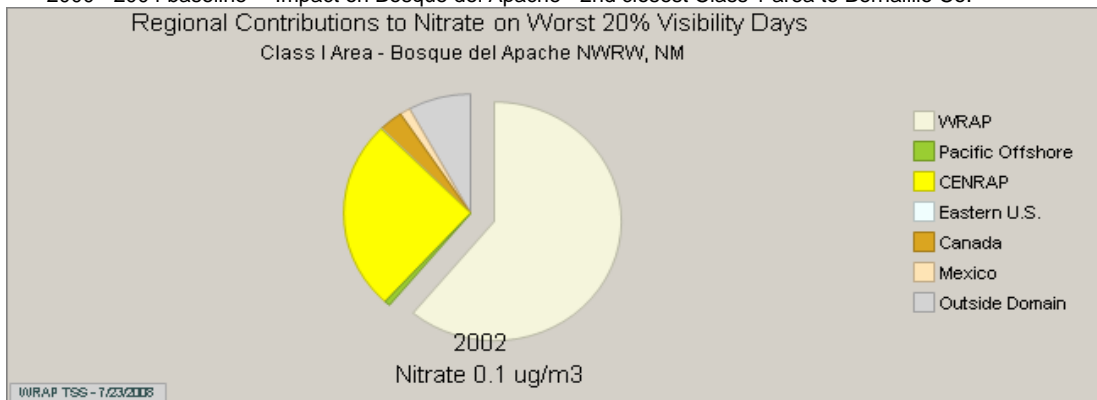
3%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
12%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
57%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	3%	0%	12%	0%	57%	9.65%
Bernalillo Co. % of Total	0%	0%	0%	0%	0%	1%

0.006 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Nitrate (ug/m3)
Predicted to reach Bosque del Apache
Basis: Worst 20% of IMPROVE samples**

2000 - 2004 baseline Impact on Bosque del Apache - 2nd closest Class 1 area to Bernalillo Co.



Nitrate / Nox Worst 20% of IMPROVE samples **Total 0.1 ug/m3** WRAP percentage of total. **87%**

site	Year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BOAP1	2002	plan02c36k	PN3	22	AZ	0.004104545	1.82E-05	0.007086364	0.001445455	0.000245455	0.0129
BOAP1	2002	plan02c36k	PN3	22	CA	0.000409091	4.55E-06	0.003659091	0.000254545	0.000440909	0.004768182
BOAP1	2002	plan02c36k	PN3	22	CO	0.001790909	9.09E-06	0.002845454	0.000718182	0.000804546	0.006168181
BOAP1	2002	plan02c36k	PN3	22	ID	4.09E-05	4.55E-06	0.000172727	2.73E-05	8.18E-05	0.000327273
BOAP1	2002	plan02c36k	PN3	22	MT	0.000295455	2.27E-05	0.000472727	0.000331818	7.73E-05	0.0012
BOAP1	2002	plan02c36k	PN3	22	NV	0.000472727	0	0.000431818	4.09E-05	2.73E-05	0.000972727
BOAP1	2002	plan02c36k	PN3	22	NM	0.01127727	9.09E-06	0.02705	0.003745454	0.009909091	0.0519909
BOAP1	2002	plan02c36k	PN3	22	ND	0.000795455	4.55E-06	0.00035	0.000181818	8.18E-05	0.001413636
BOAP1	2002	plan02c36k	PN3	22	OR	3.64E-05	1.82E-05	0.000136364	1.82E-05	4.55E-06	0.000213636
BOAP1	2002	plan02c36k	PN3	22	SD	5.91E-05	0	0.000736364	0.000568182	5.45E-05	0.001418182
BOAP1	2002	plan02c36k	PN3	22	UT	0.001622727	0	0.000940909	6.82E-05	0.000109091	0.002740909
BOAP1	2002	plan02c36k	PN3	22	WA	3.64E-05	4.55E-06	0.000254545	1.82E-05	1.36E-05	0.000327273
BOAP1	2002	plan02c36k	PN3	22	WY	0.001122727	0	0.000818182	8.64E-05	0.000240909	0.002268182
Total						0.022063632	9.54545E-05	0.044954545	0.007504545	0.012090909	0.086709081
NM % of WRAP						51%	10%	60%	50%	82%	60%
NM % of Total						11%	0%	27%	4%	10%	52%

Bernalillo Co. NOx Contribution as a percentage of New Mexico (TSS Data)

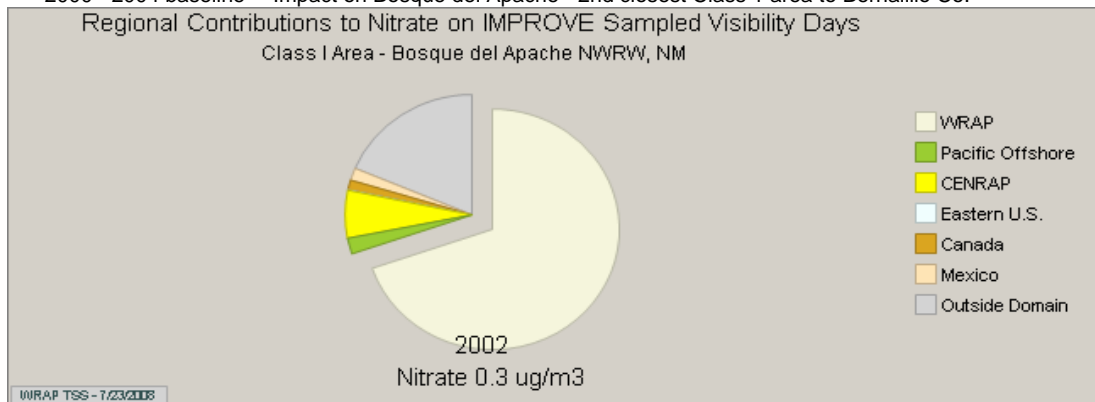
2%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
17%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
48%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	2%	0%	17%	0%	48%	18.54%
Bernalillo Co. % of Total	0%	0%	5%	0%	5%	10%

0.010 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Nitrate (ug/m3)
Predicted to reach Bosque del Apache
Basis: All IMPROVE samples**

2000 - 2004 baseline Impact on Bosque del Apache - 2nd closest Class 1 area to Bernalillo Co.



Nitrate / Nox **All IMPROVE samples** **Total 0.3 ug/m3** WRAP percentage of total. **62%**

site	Year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BOAP1	2002	plan02c36k	PN3	122	AZ	0.01087213	8.61E-05	0.02122623	0.002131148	0.00075082	0.03506639
BOAP1	2002	plan02c36k	PN3	122	CA	0.001829508	0.000131967	0.01716885	0.000721312	0.002245082	0.02209672
BOAP1	2002	plan02c36k	PN3	122	CO	0.002812295	3.36E-05	0.003769672	0.000505738	0.001866393	0.008987706
BOAP1	2002	plan02c36k	PN3	122	ID	0.000258197	0.000115574	0.001204918	0.000245082	0.000589344	0.002413115
BOAP1	2002	plan02c36k	PN3	122	MT	0.000305738	1.89E-05	0.000505738	0.00020082	6.23E-05	0.001093443
BOAP1	2002	plan02c36k	PN3	122	NV	0.001510656	0	0.001540984	0.000166393	0.000108197	0.00332623
BOAP1	2002	plan02c36k	PN3	122	NM	0.03123361	2.13E-05	0.0328082	0.005131967	0.01363443	0.08282951
BOAP1	2002	plan02c36k	PN3	122	ND	0.000393443	8.20E-07	0.000180328	8.52E-05	4.26E-05	0.000702459
BOAP1	2002	plan02c36k	PN3	122	OR	0.000217213	0.000171312	0.001004918	0.000111475	8.52E-05	0.001590164
BOAP1	2002	plan02c36k	PN3	122	SD	4.43E-05	0	0.000235246	0.000172951	1.89E-05	0.000471312
BOAP1	2002	plan02c36k	PN3	122	UT	0.0113918	2.46E-06	0.008116393	0.00040082	0.000845902	0.02075738
BOAP1	2002	plan02c36k	PN3	122	WA	0.00017459	2.13E-05	0.00130082	7.46E-05	8.28E-05	0.001654098
BOAP1	2002	plan02c36k	PN3	122	WY	0.001976229	1.31E-05	0.001131967	6.23E-05	0.000411475	0.003595082
Total						0.063019671	0.000616393	0.090194264	0.010009836	0.020743446	0.184583609
NM % of WRAP						50%	3%	36%	51%	66%	45%
NM % of Total						10%	0%	11%	2%	5%	28%

Bernalillo Co. NOx Contribution as a percentage of New Mexico (TSS Data)

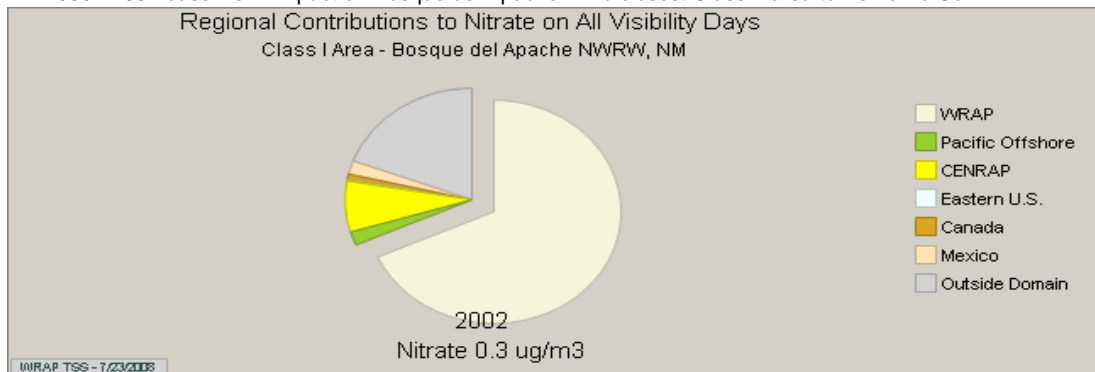
2%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
17%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
48%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	2%	0%	17%	0%	48%	15.53%
Bernalillo Co. % of Total	0%	0%	2%	0%	2%	4%

0.013 ug/m3

**Amount of 2002 Bernalillo Co. Emissions
Nitrate (ug/m3)
Predicted to reach Bosque del Apache
Basis: All Days (Modeled)**

2000 - 2004 baseline Impact on Bosque del Apache - 2nd closest Class 1 area to Bernalillo Co.



Nitrate / Nox	All days - modeled	Total	0.3 ug/m3	WRAP percentage of total.	58%
---------------	--------------------	--------------	------------------	---------------------------	------------

Site	year	modelrun	param	N	SReg	PT	AF	MV	Nat	Area	Total
BOAP1	2002	plan02c36k	PN3	365	AZ	0.01284219	7.92E-05	0.02046575	0.002614795	0.000699726	0.03670165
BOAP1	2002	plan02c36k	PN3	365	CA	0.001680548	0.000134247	0.01523425	0.000713973	0.00204411	0.01980713
BOAP1	2002	plan02c36k	PN3	365	CO	0.002582466	2.38E-05	0.00348274	0.000439726	0.001699452	0.008228218
BOAP1	2002	plan02c36k	PN3	365	ID	0.000213973	9.75E-05	0.001010411	0.000250685	0.000504658	0.002077261
BOAP1	2002	plan02c36k	PN3	365	MT	0.000225753	1.26E-05	0.00035863	0.000119178	4.19E-05	0.000758082
BOAP1	2002	plan02c36k	PN3	365	NV	0.001513973	0	0.001600274	0.000163288	0.000111233	0.003388768
BOAP1	2002	plan02c36k	PN3	365	NM	0.0289126	2.93E-05	0.02969233	0.004976986	0.01231425	0.07592548
BOAP1	2002	plan02c36k	PN3	365	ND	0.000236164	1.10E-06	0.000111233	4.71E-05	2.55E-05	0.000421096
BOAP1	2002	plan02c36k	PN3	365	OR	0.000198356	0.000132055	0.000933425	0.000107671	8.08E-05	0.001452329
BOAP1	2002	plan02c36k	PN3	365	SD	3.10E-05	0	0.000167123	0.000107397	1.37E-05	0.000319178
BOAP1	2002	plan02c36k	PN3	365	UT	0.01219068	2.74E-06	0.007878357	0.000416164	0.000820548	0.02130849
BOAP1	2002	plan02c36k	PN3	365	WA	0.000155343	3.64E-05	0.001143014	7.53E-05	7.34E-05	0.001483563
BOAP1	2002	plan02c36k	PN3	365	WY	0.001670137	8.77E-06	0.000995343	4.49E-05	0.000343562	0.00306274
Total						0.062453142	0.000557808	0.08307288	0.01007726	0.01877288	0.174933985
NM % of WRAP						46%	5%	36%	49%	66%	43%
NM % of Total						10%	0%	10%	2%	4%	25%

Bernalillo Co. NOx Contribution as a percentage of New Mexico (TSS Data)

2%	Point Sources are primarily in San Juan County with smaller amounts from McKinley Colfax, and Eddy
0%	Anthropogenic Fires are based on Area of National or State Forest
17%	Mobile Sources are based on population
0%	Natural Fires & Biogenics are based on County Area and Vegetation type/density
48%	Area Sources are based on County Area & population

Bernalillo Co. % of NM	2%	0%	17%	0%	48%	15.34%
Bernalillo Co. % of Total	0%	0%	2%	0%	2%	4%
0.012 ug/m3						