Appendix B

Class I Area Visibility Supplemental Information

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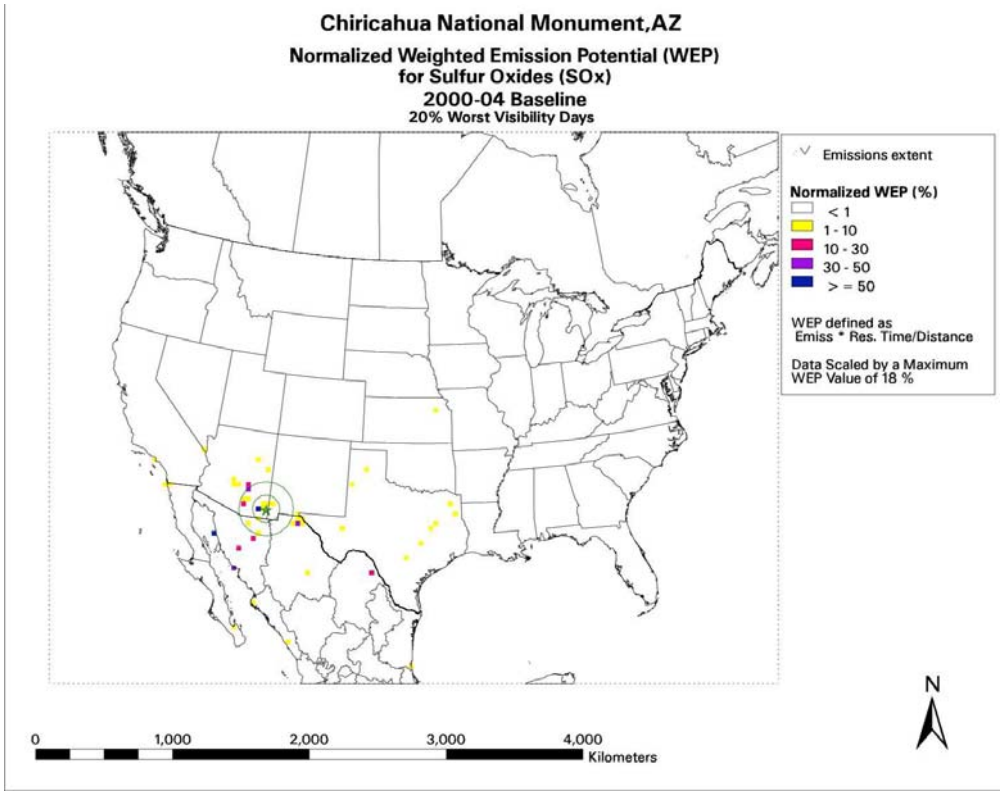
Section 1

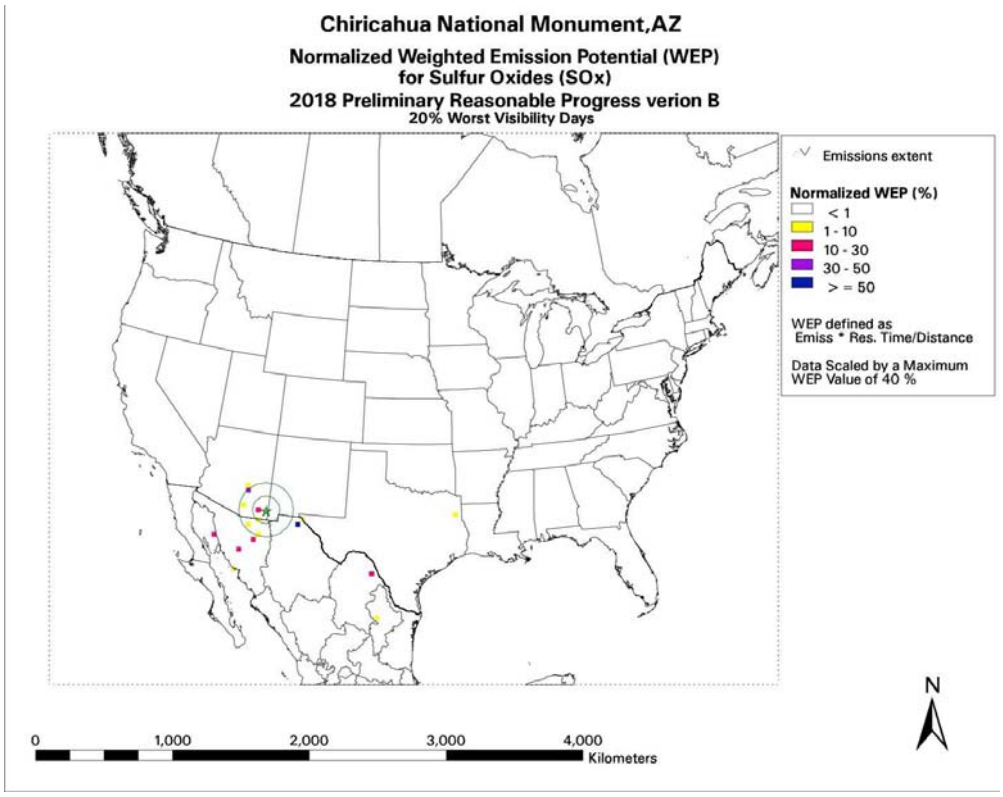
Arizona Class I Area Visibility Impairment Analysis

The figures presented in this appendix provide a representation of the potential transport of visibility impairing pollutants at Class I areas in Arizona. The Weighted Emissions Potential (WEP) is a tool that shows the predominant emission sources that potentially contribute to haze. The maps are broken down by pollutant and show the potential contribution for 20% worst visibility days for the baseline period and projected 2018 emissions. Each map has a 100 kilometer and 200 kilometer radius circle around each Class I area and the shaded colors represent areas that potentially contribute to visibility impairment at the Class I area. The pollutants covered are sulfur dioxide (SO2), nitrogen oxides (NOx), organic carbon (OC), elemental carbon (EC), coarse mass (CM), fine soil (FS), ammonia (NH3), and volatile organic compounds (VOCs).

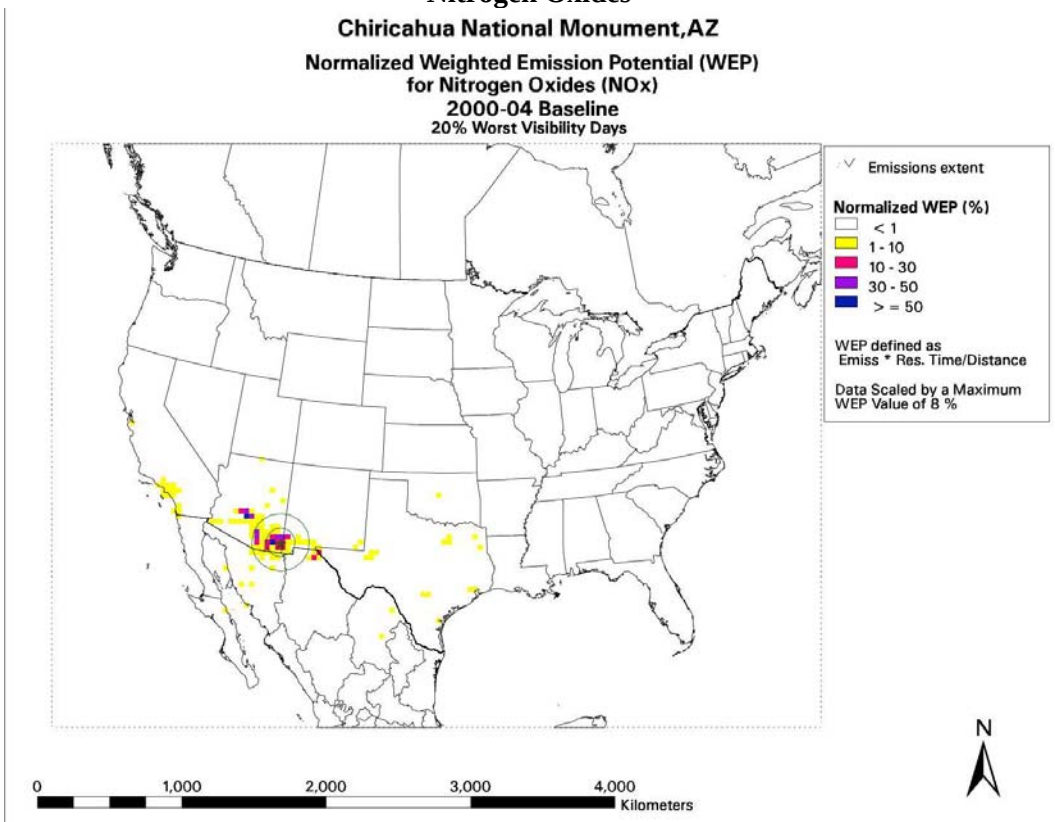
Chiricahua National Monument, Chiricahua and Galiuro Wilderness Area

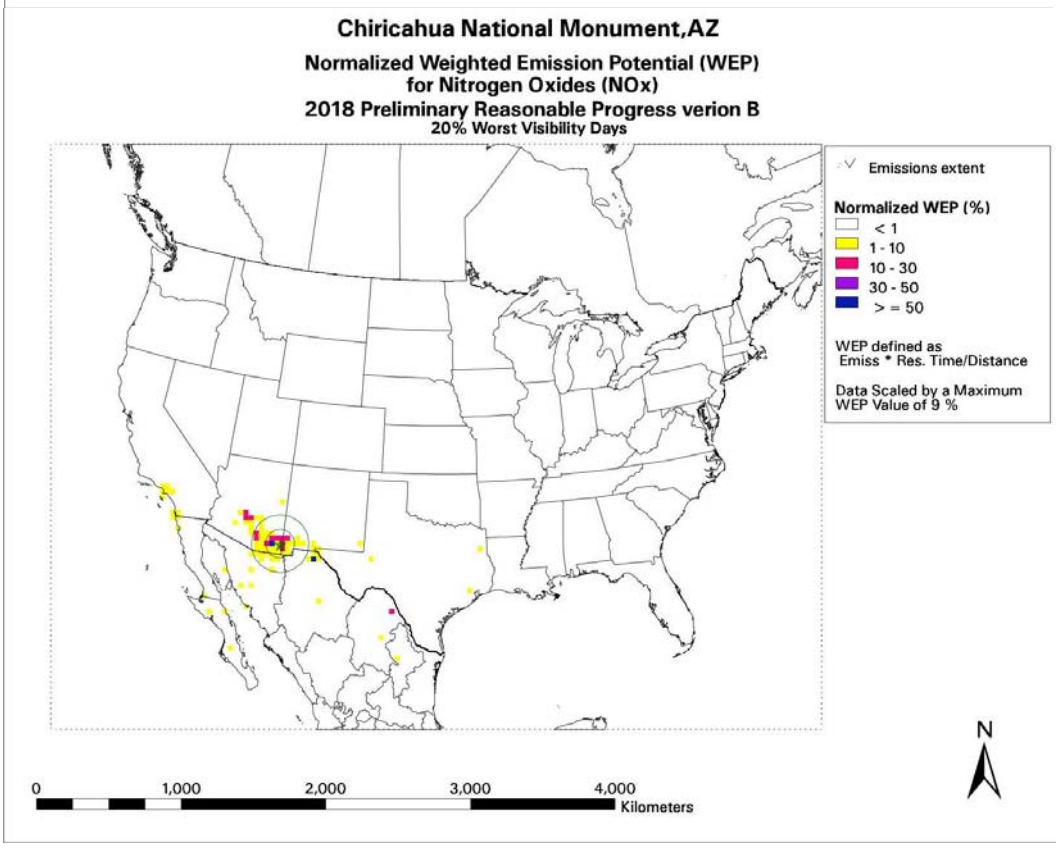
Sulfur Oxides



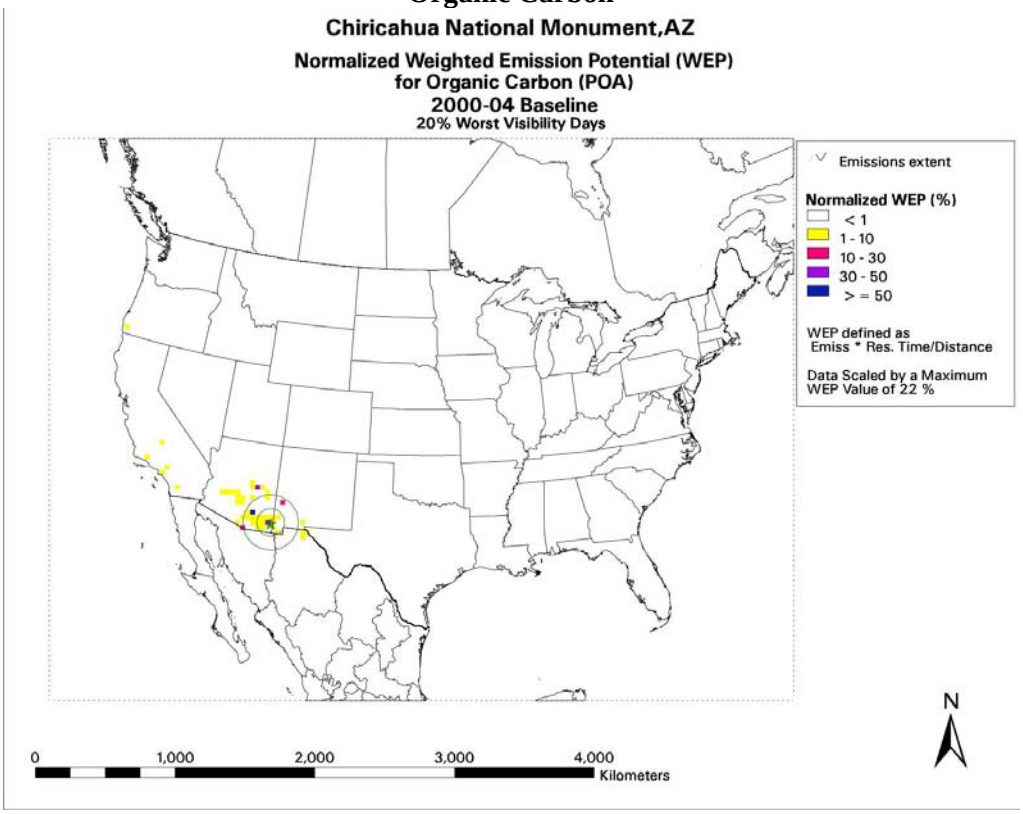


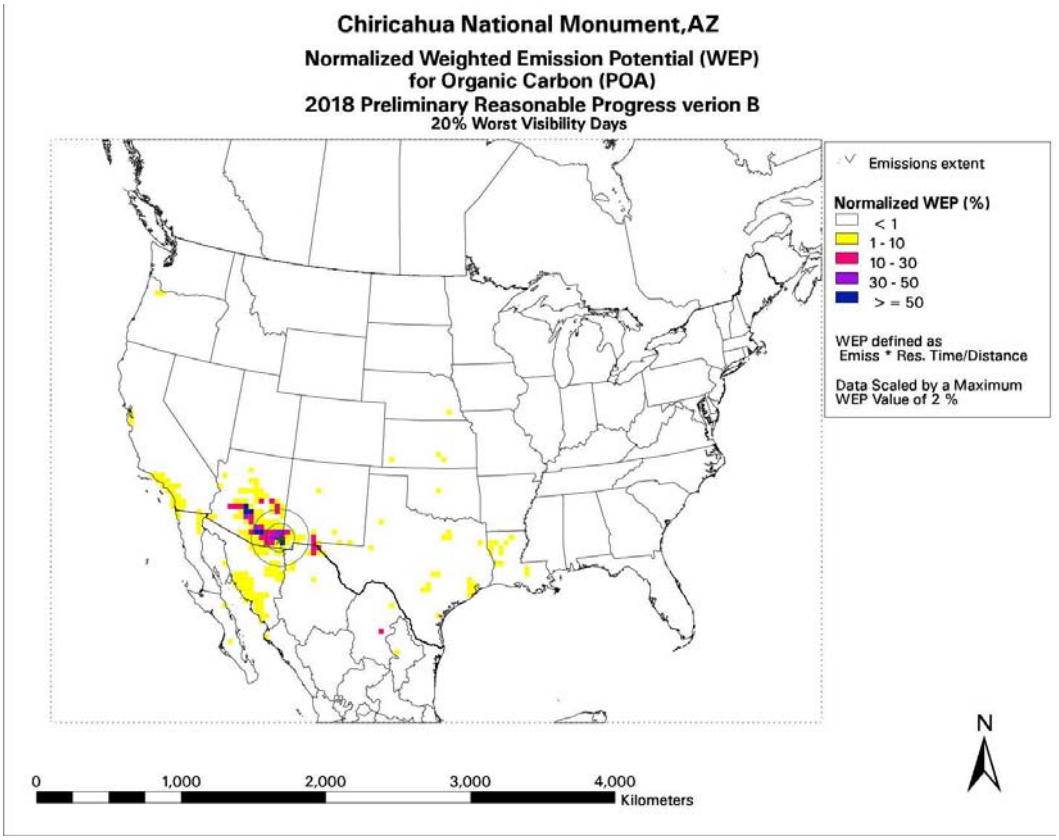
Nitrogen Oxides



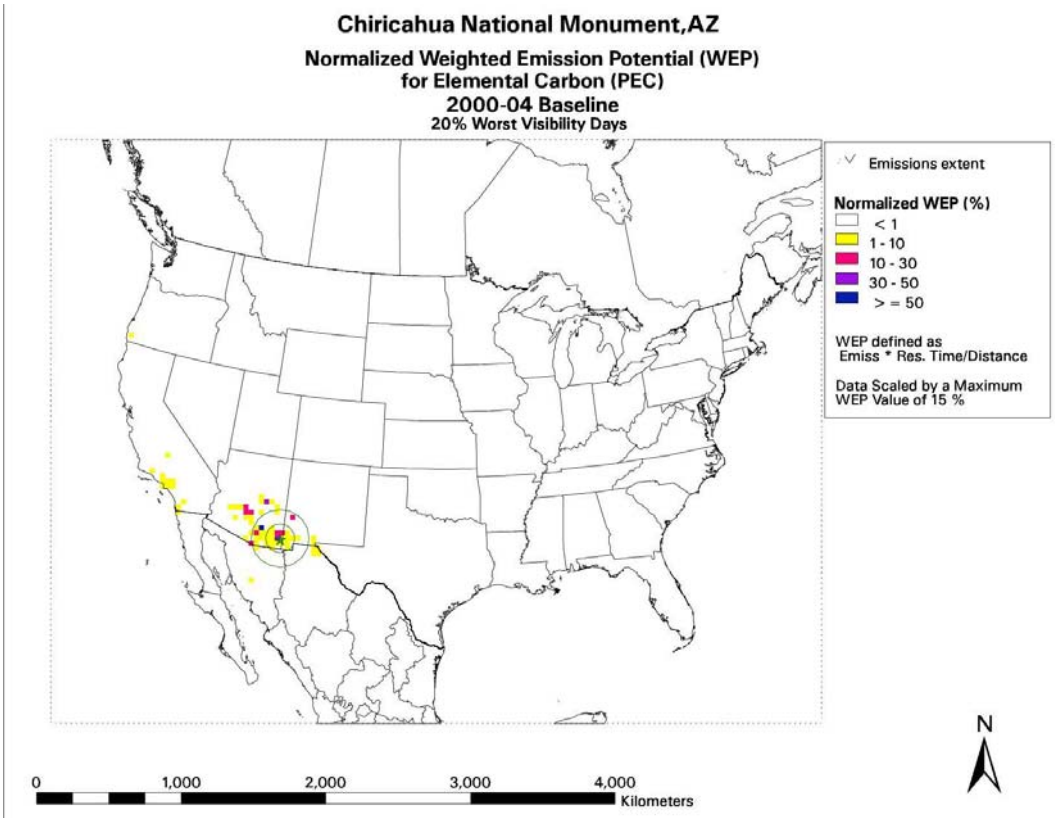


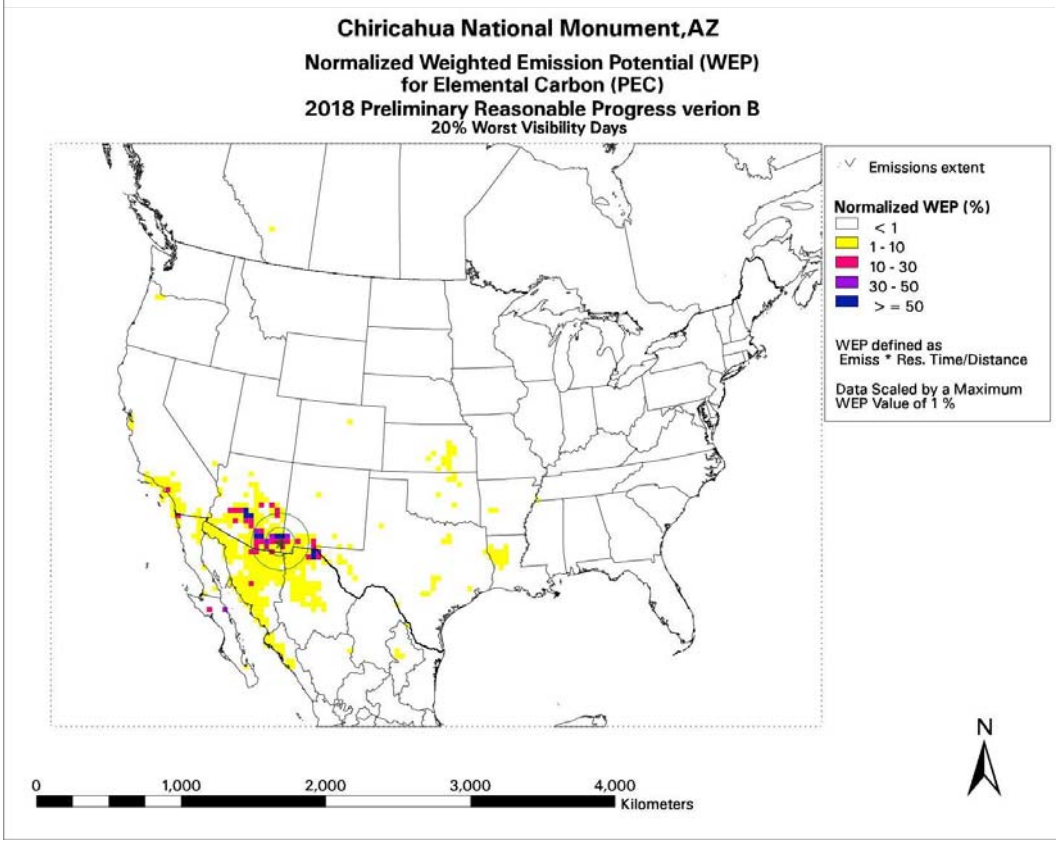
Organic Carbon



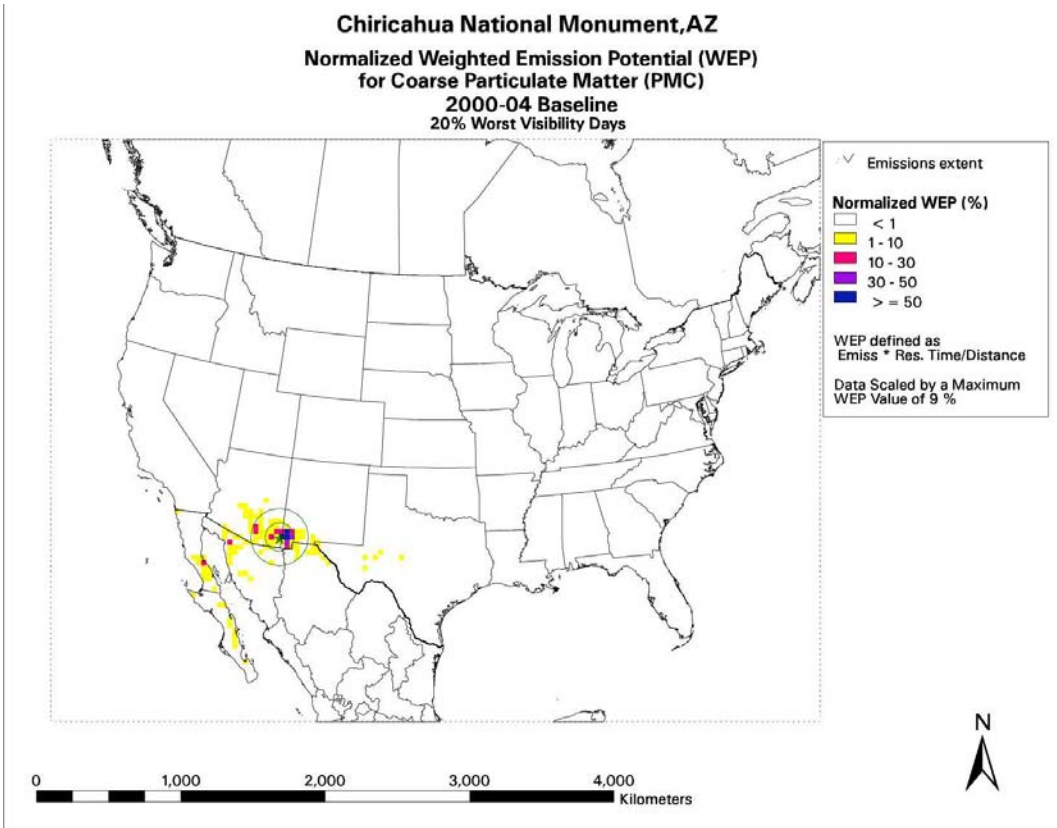


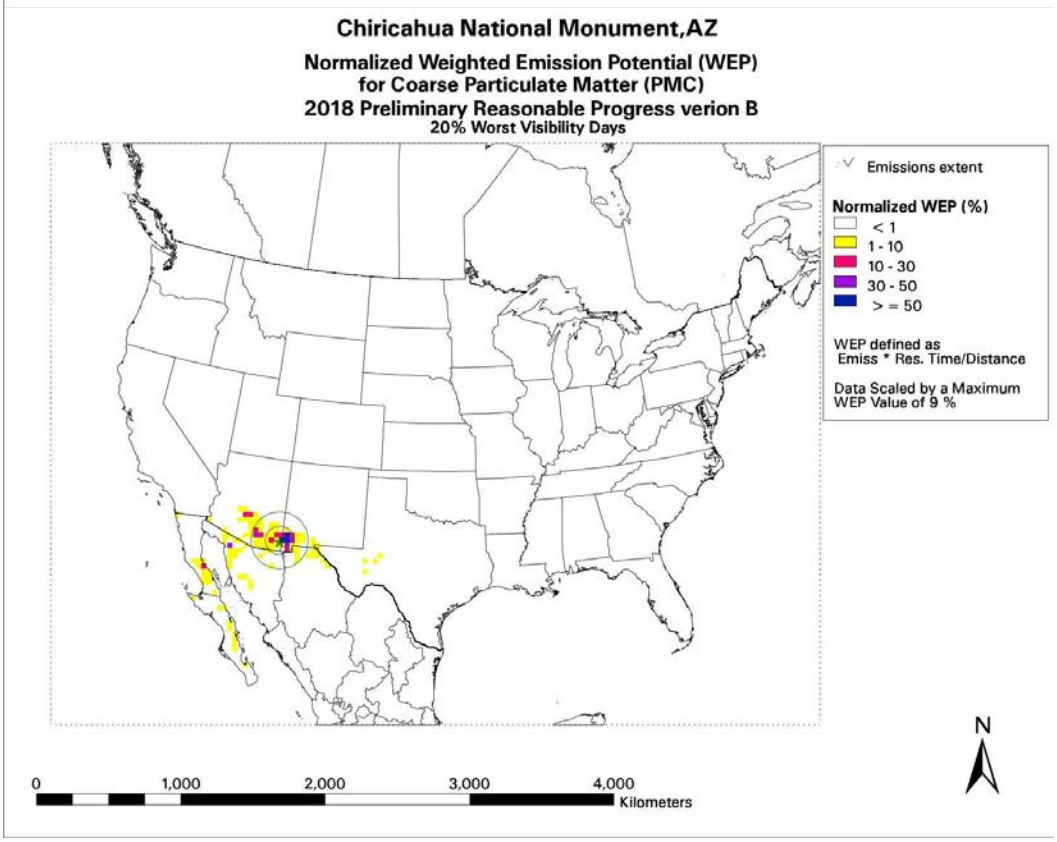
Elemental Carbon



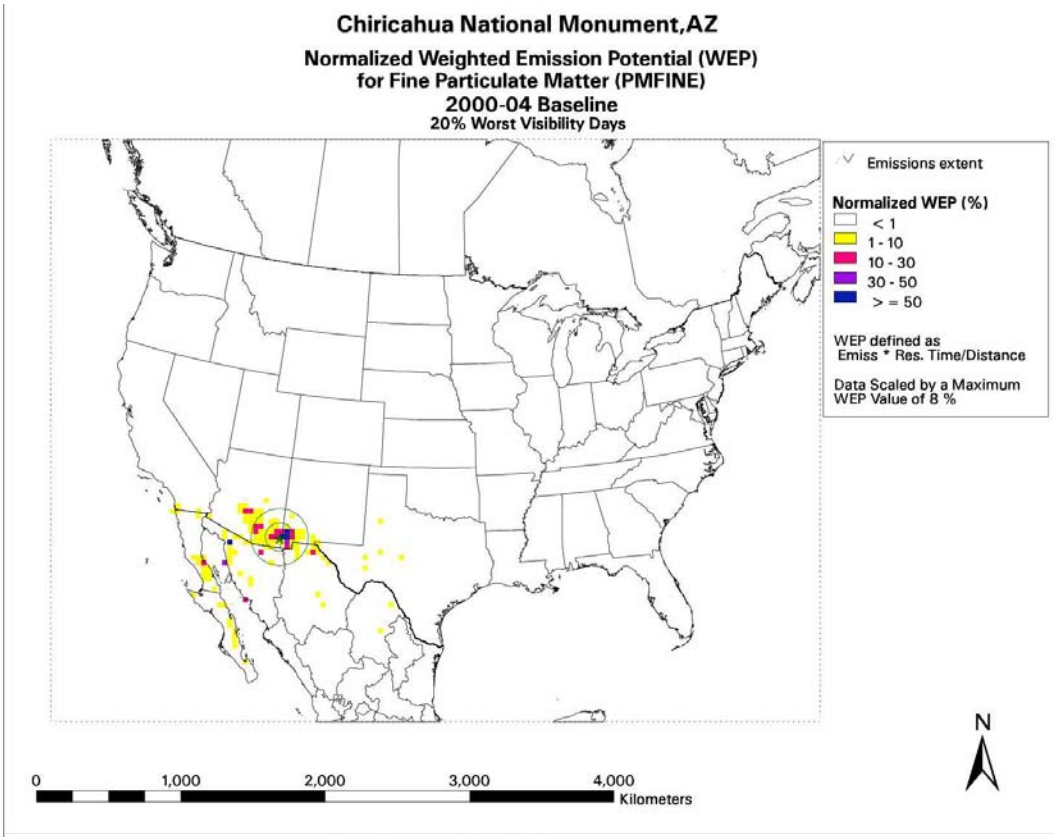


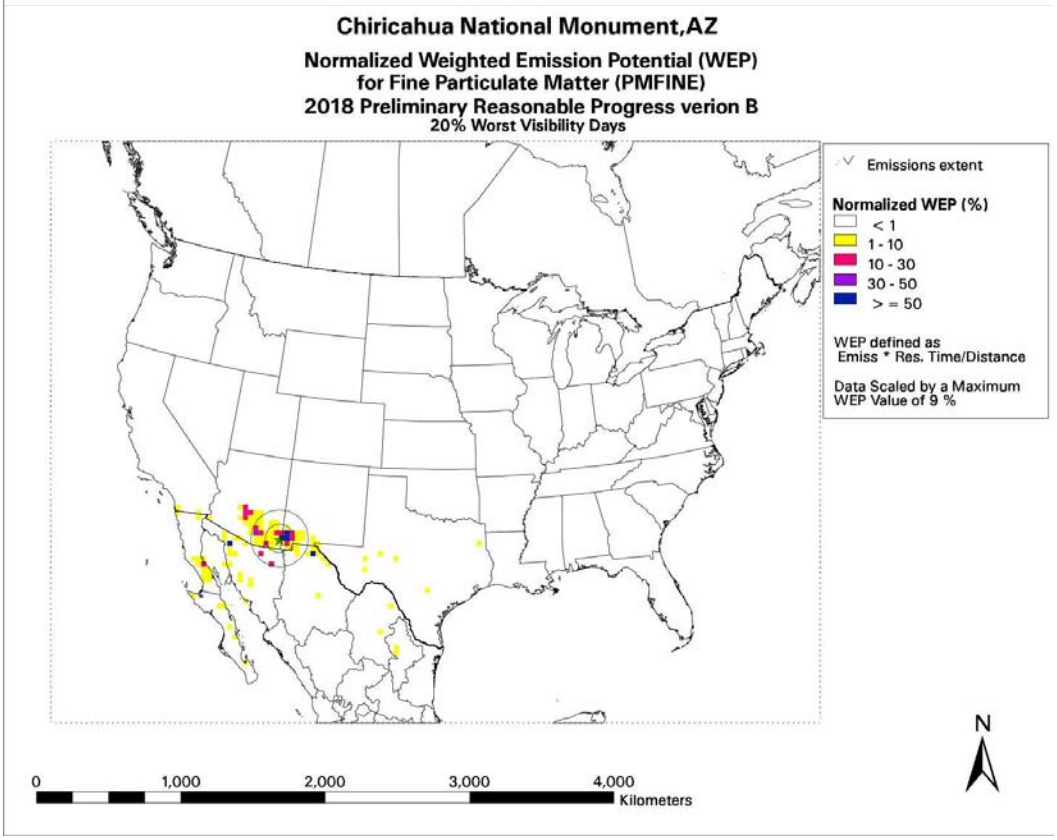
Coarse Mass


Chiricahua National Monument,AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 9 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Chiricahua National Monument,AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 9 %
N
0
1,000
2,000
3,000
4,000
Kilometers

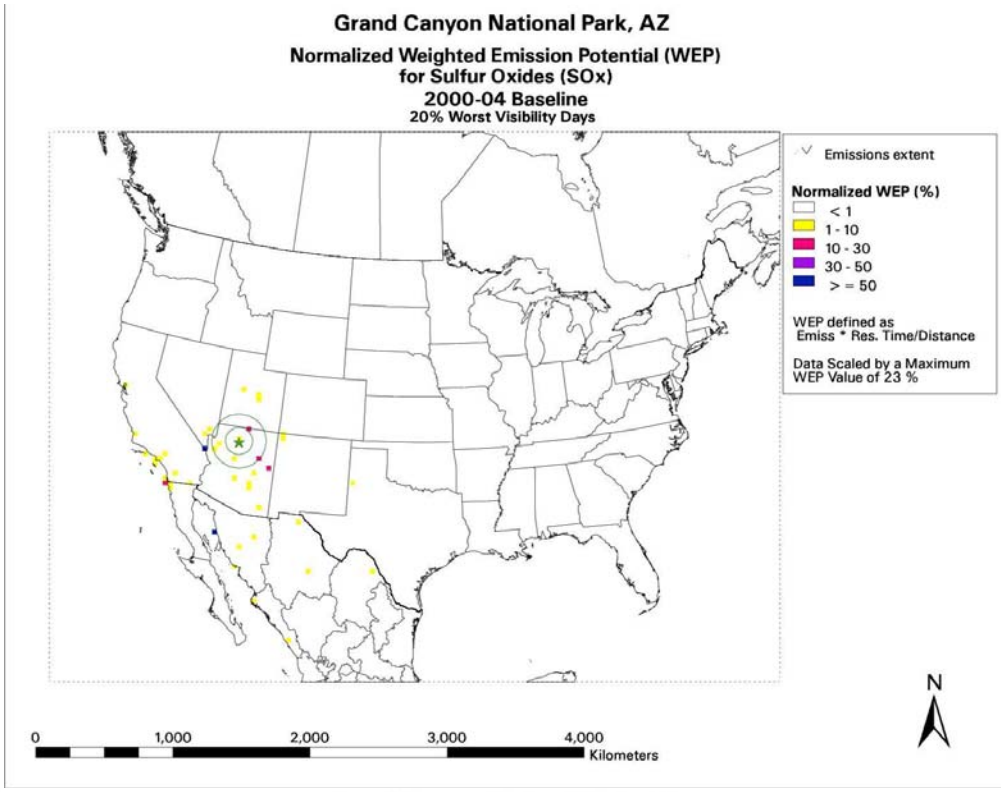
Fine Particulate Matter

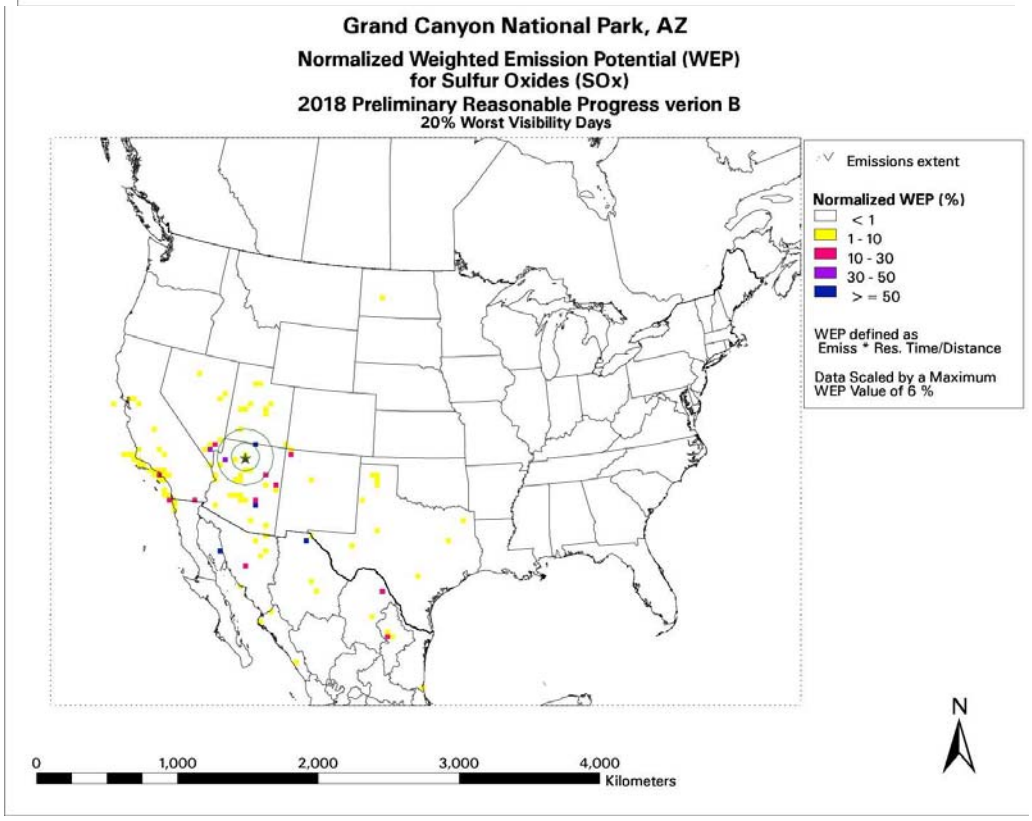




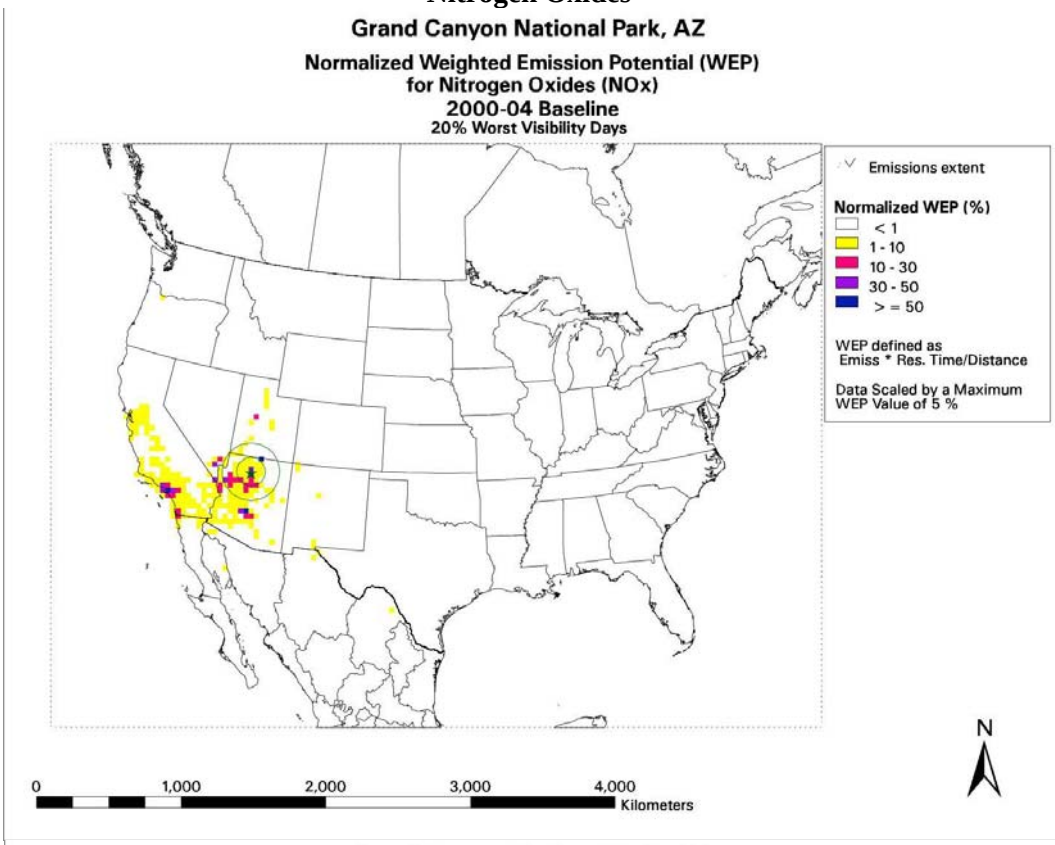
Grand Canyon National Park

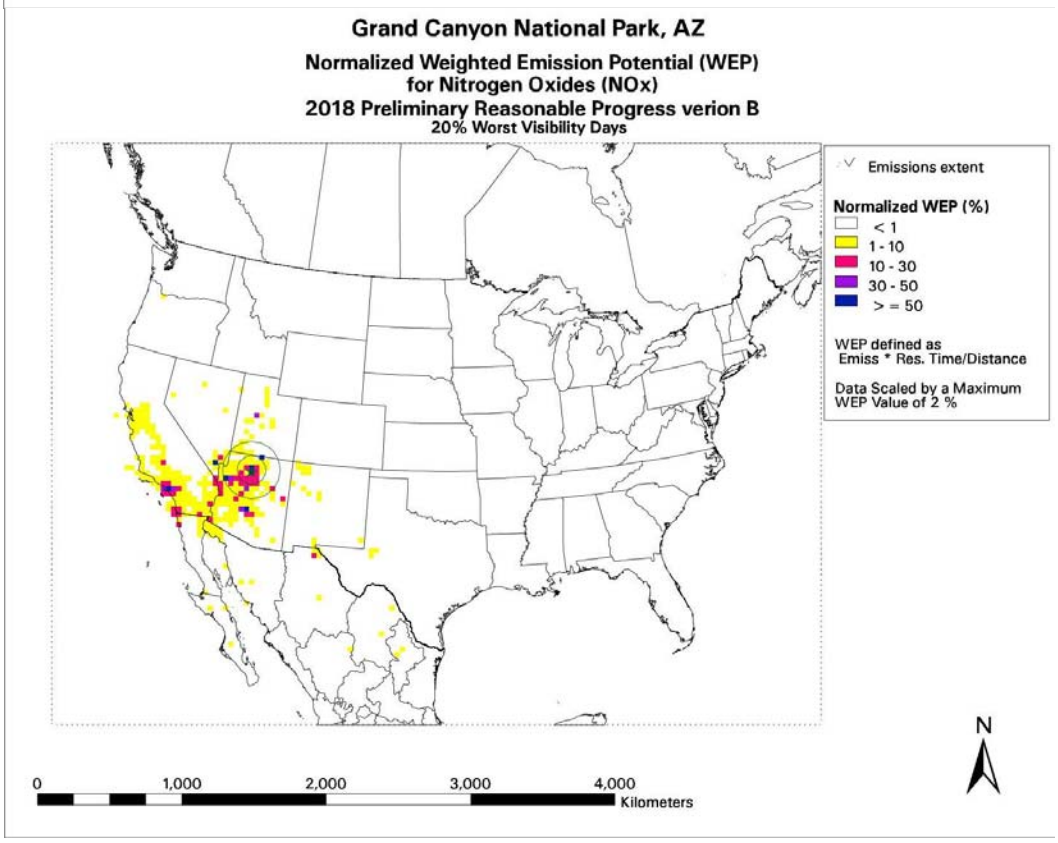
Sulfur Oxides



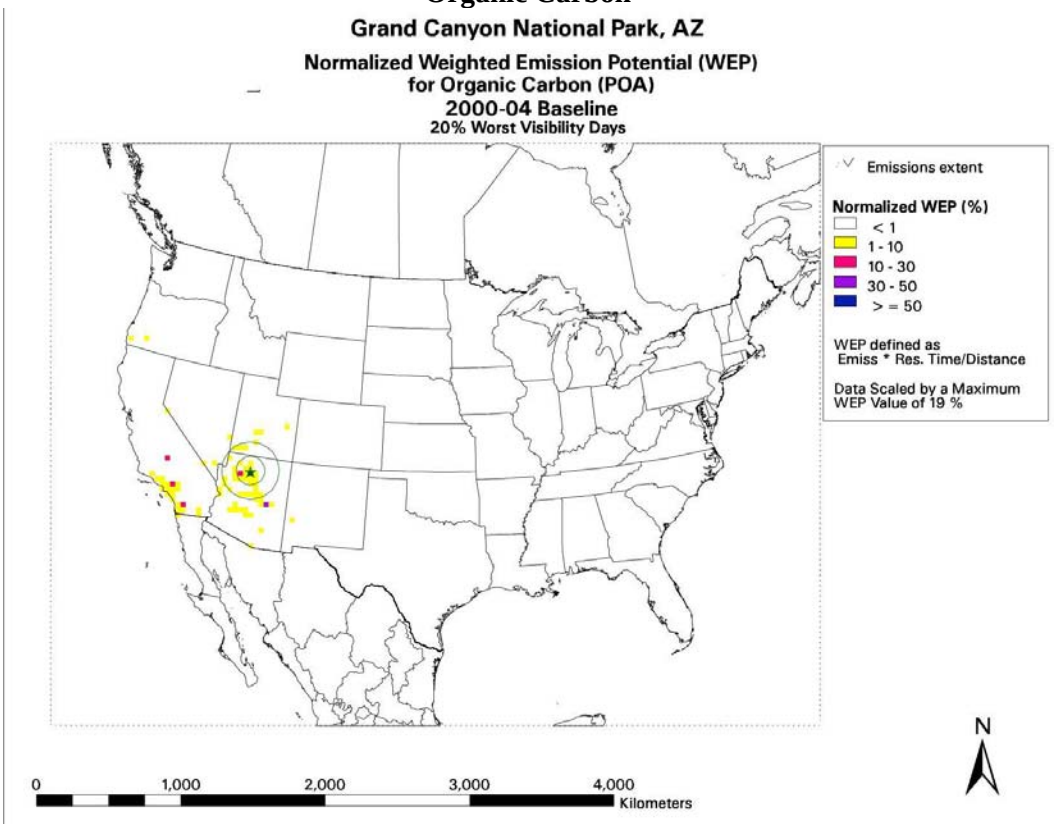


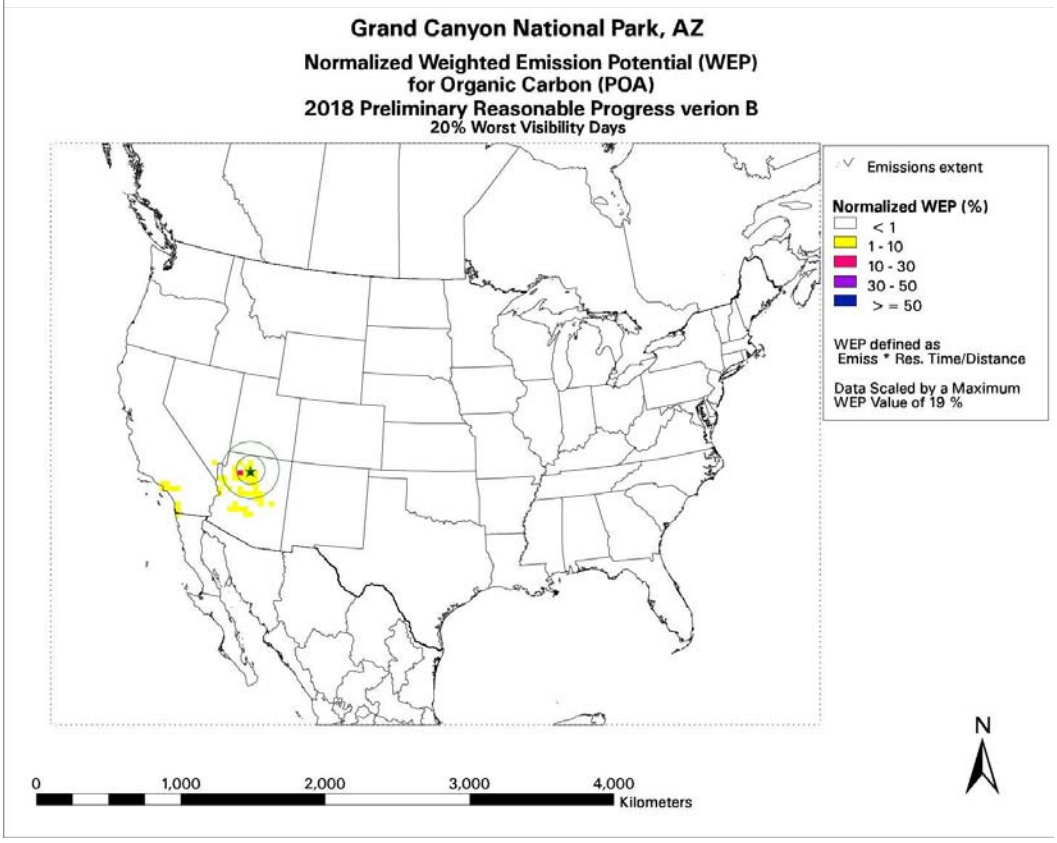
Nitrogen Oxides



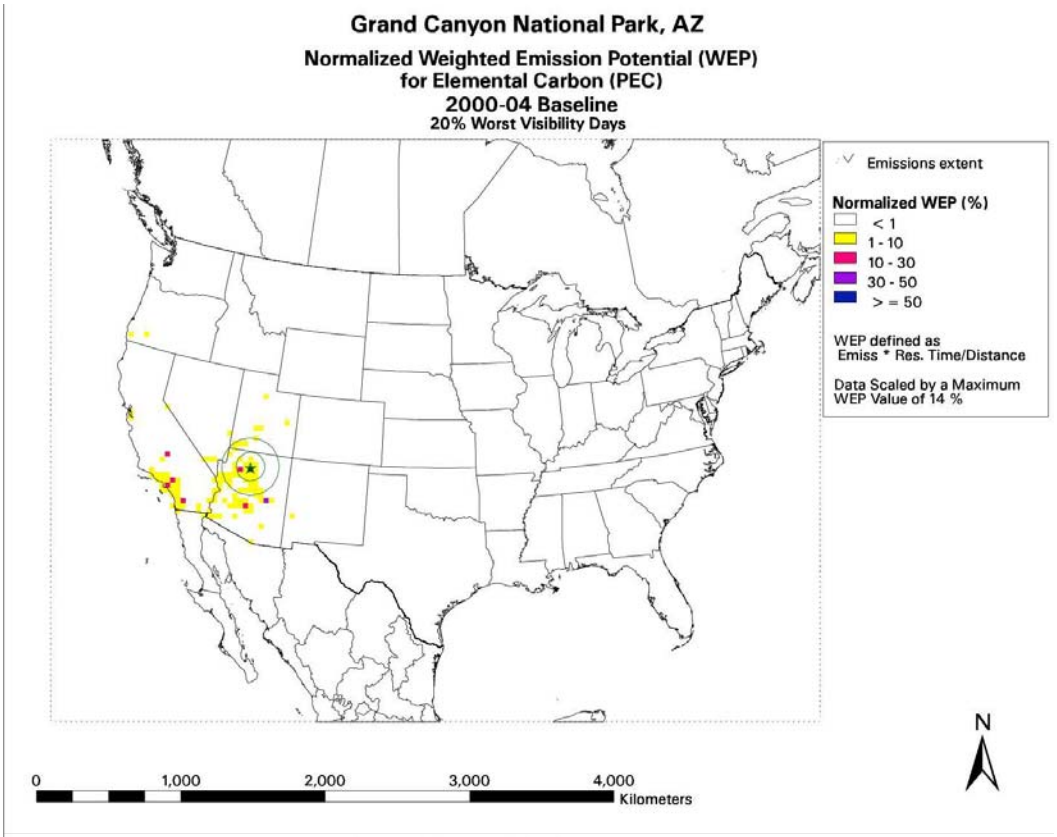


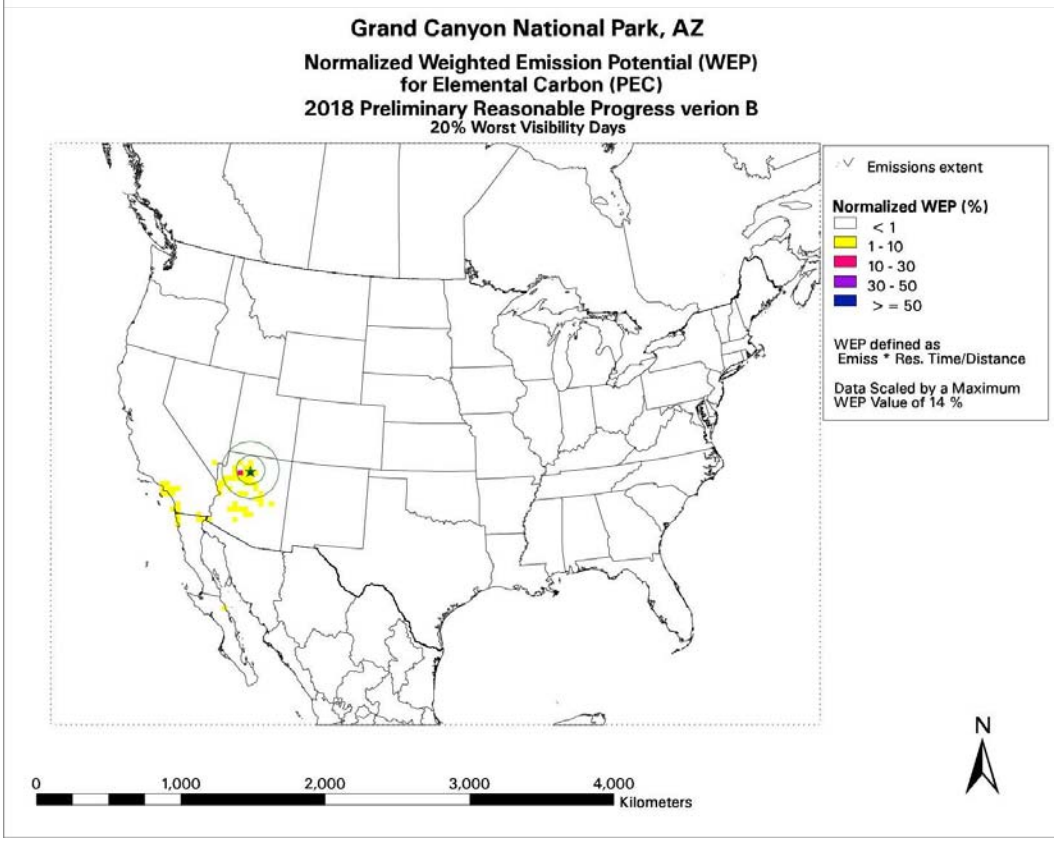
Organic Carbon



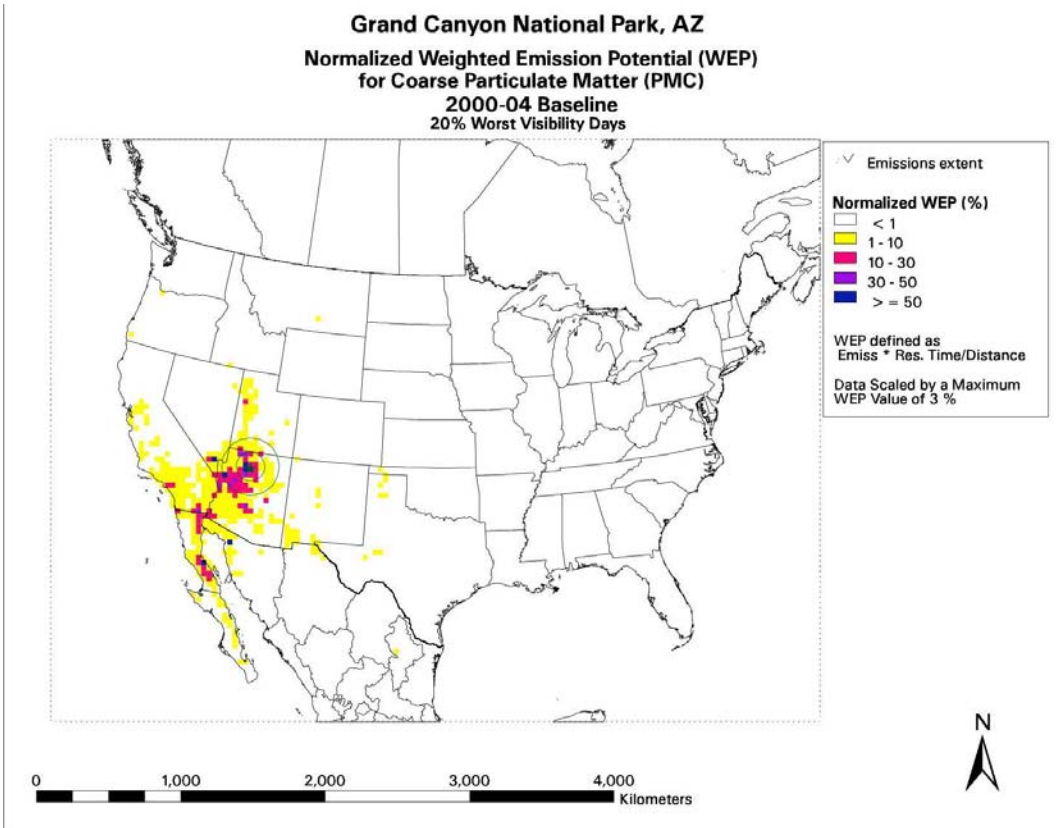


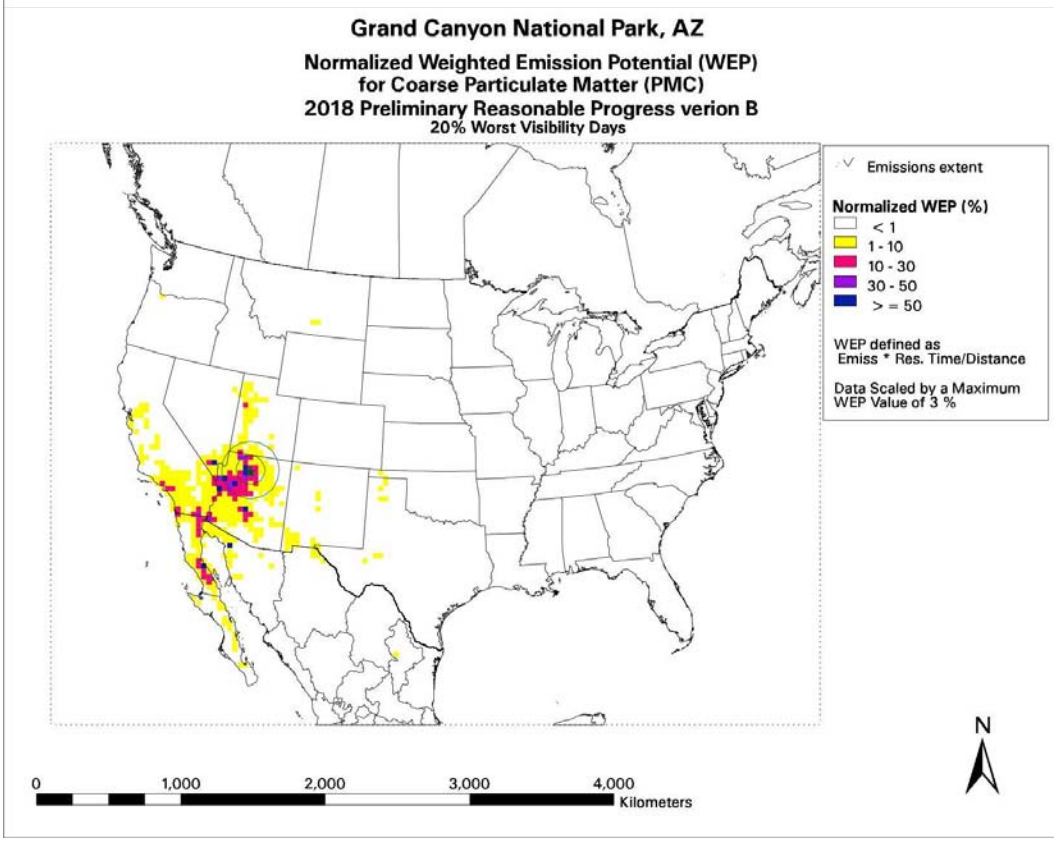
Elemental Carbon



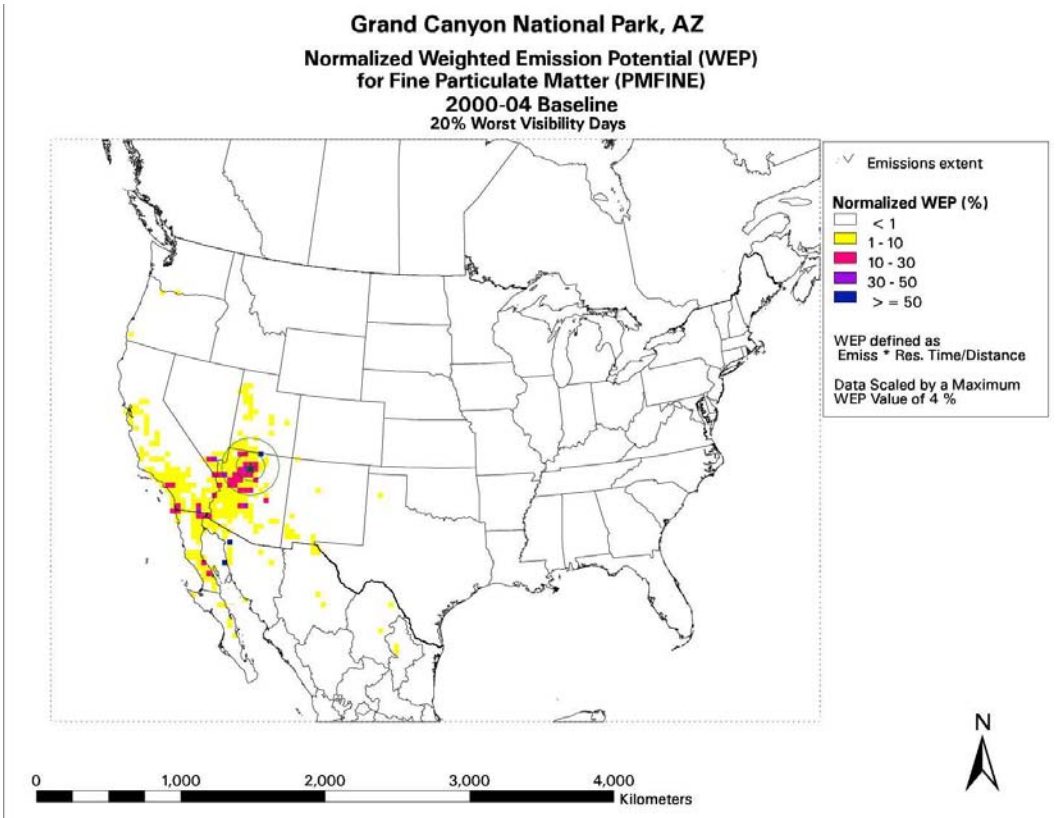


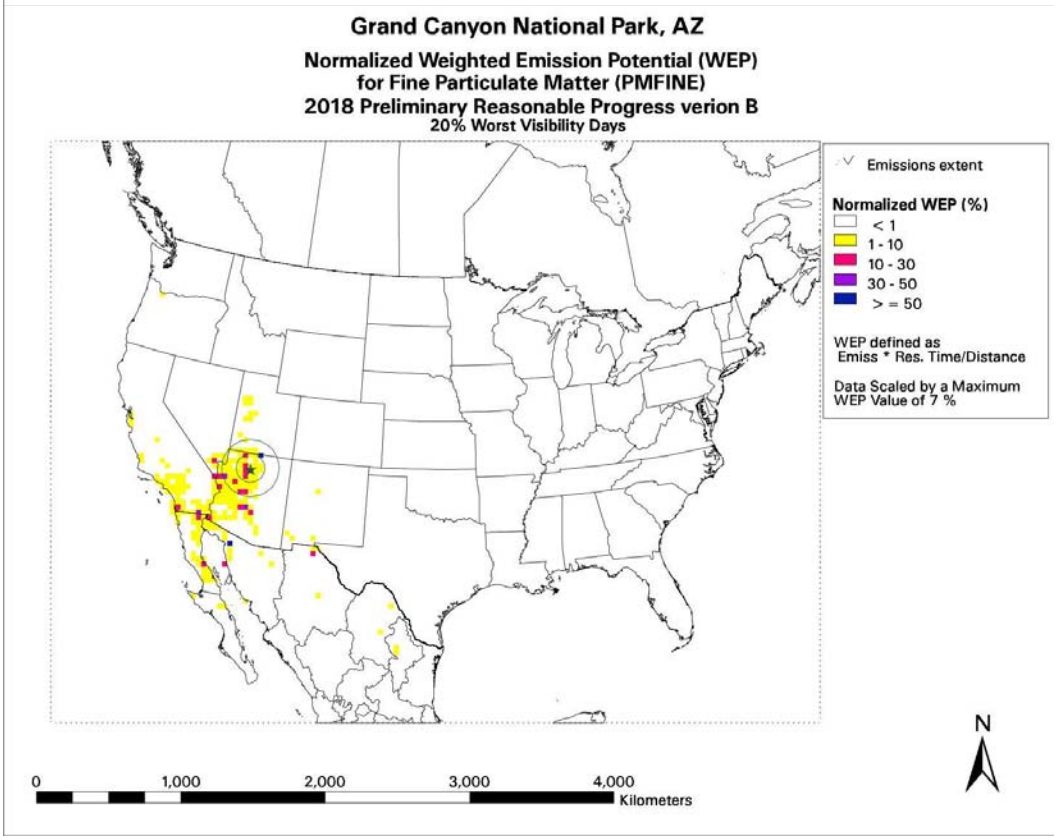
Coarse Mass


Grand Canyon National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 3 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Grand Canyon National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 3 %
N
0
1,000
2,000
3,000
4,000
Kilometers

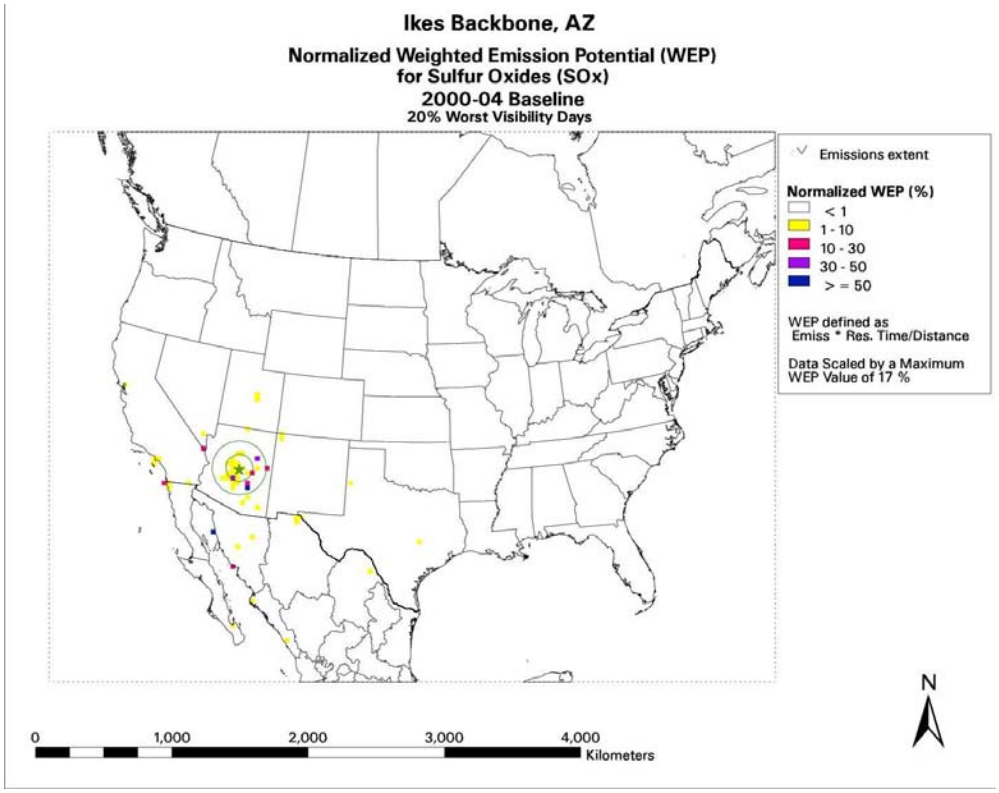
Fine Particulate Matter

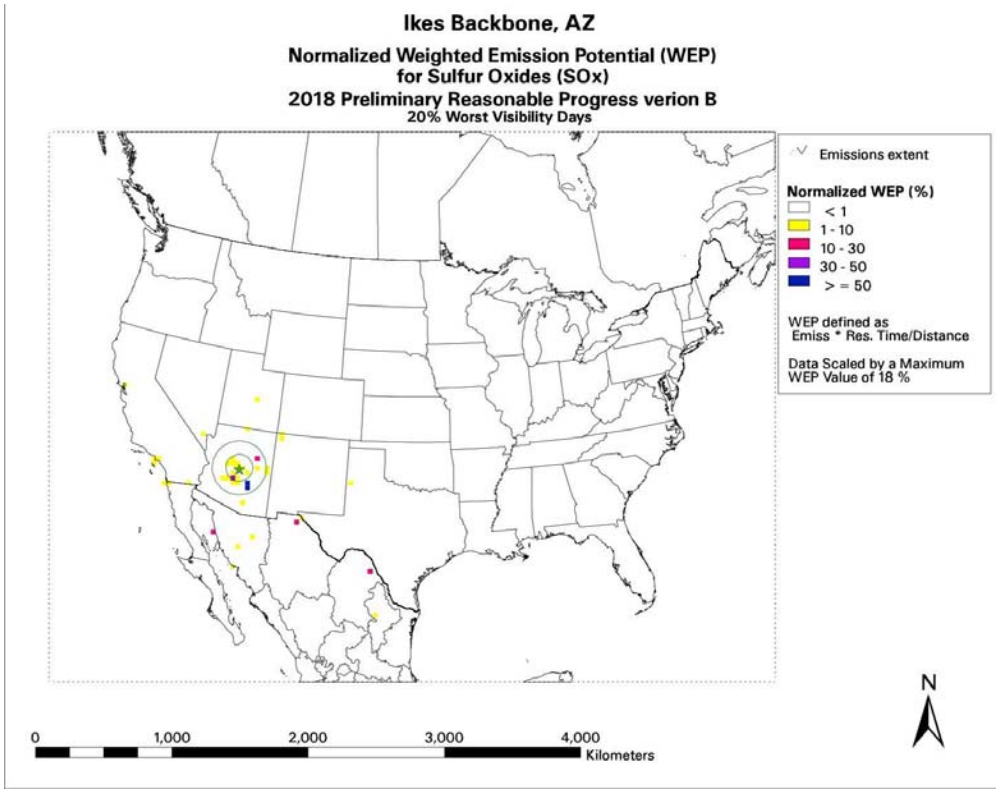




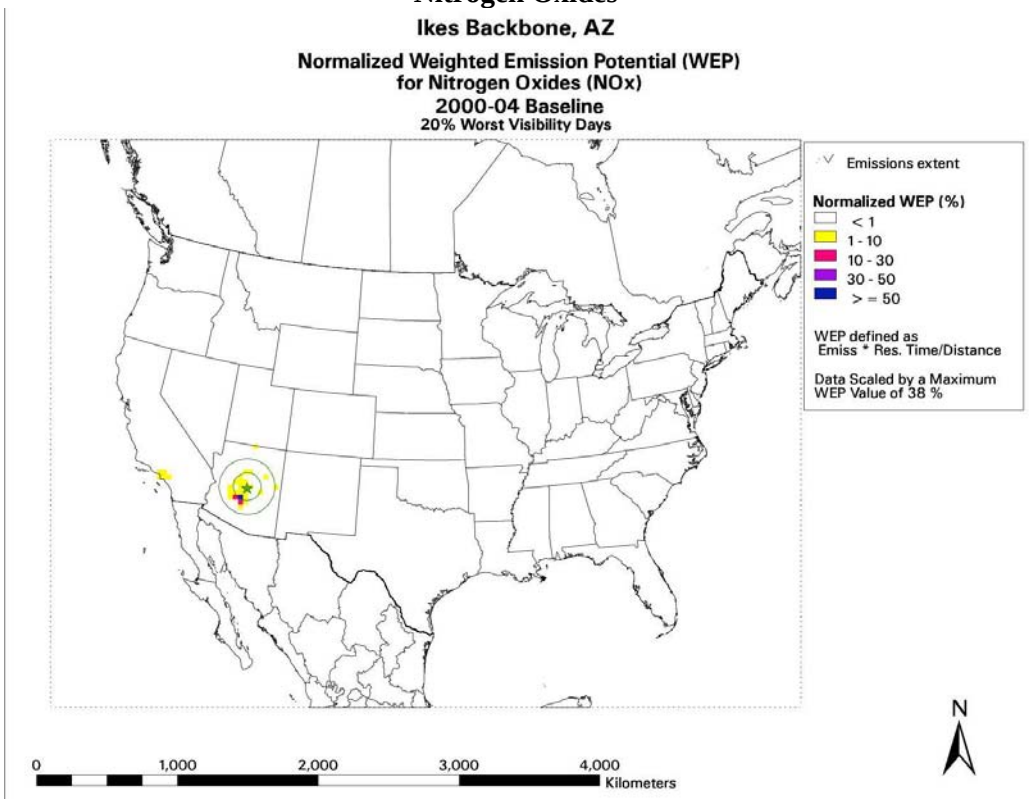
Mazatzal Wilderness Area and Pine Mountain Wilderness Area

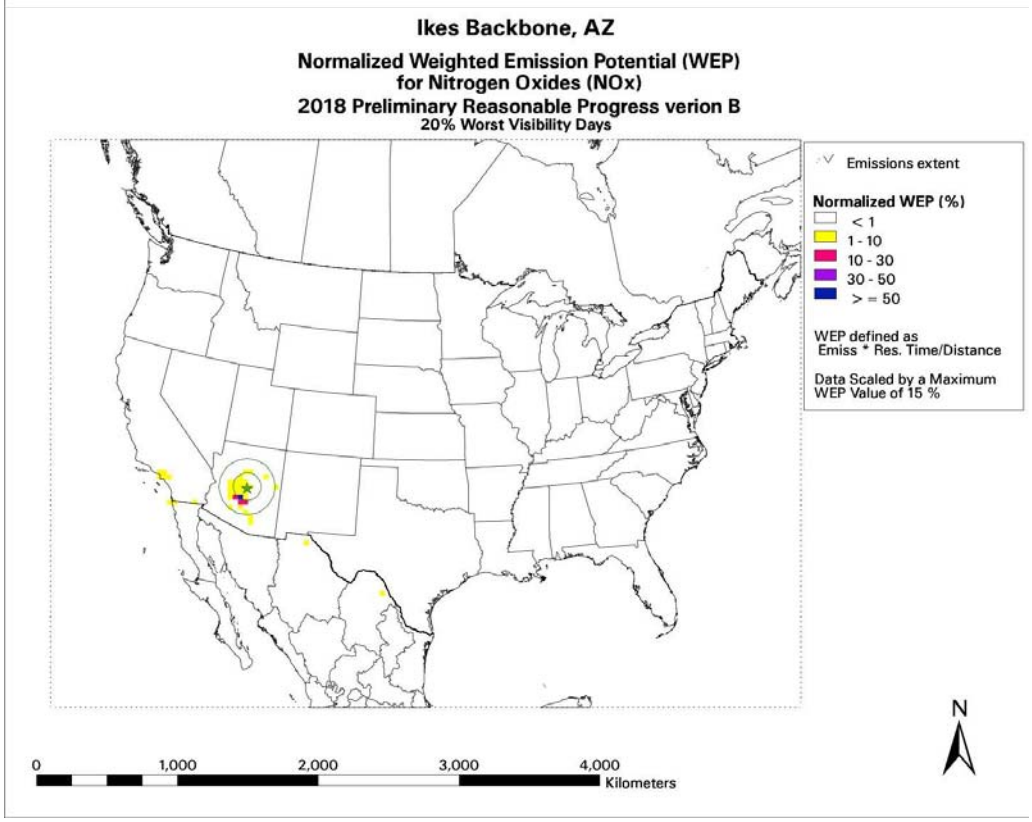
Sulfur Oxides



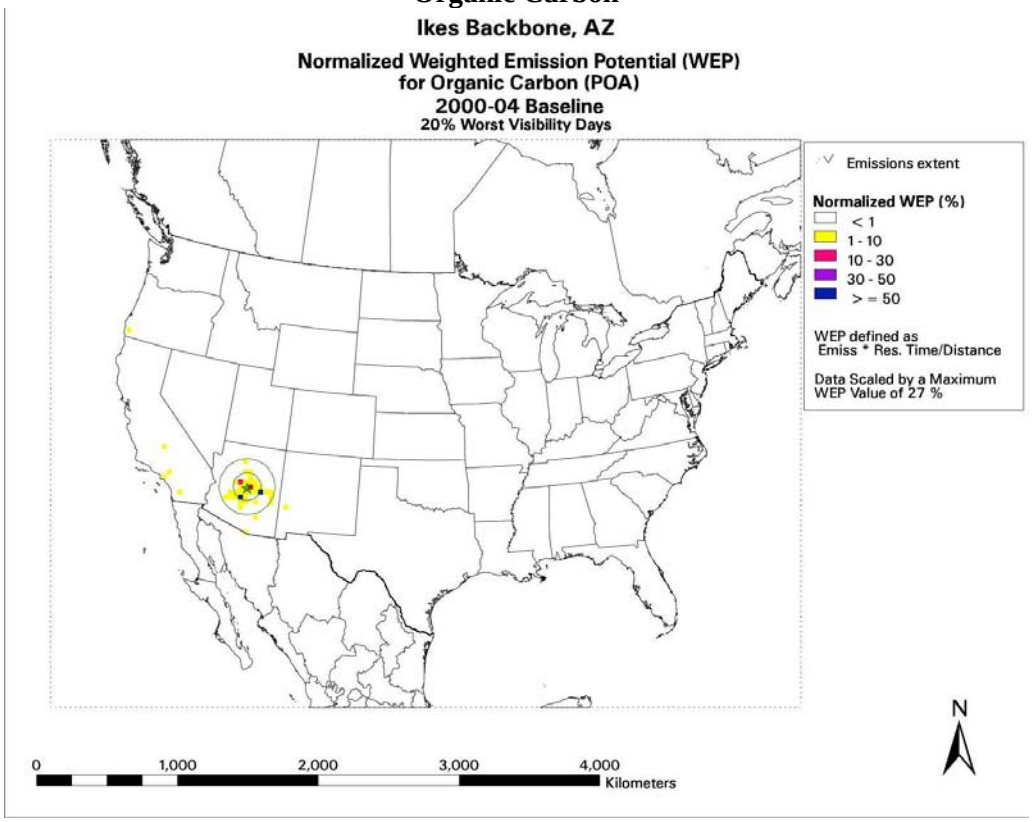


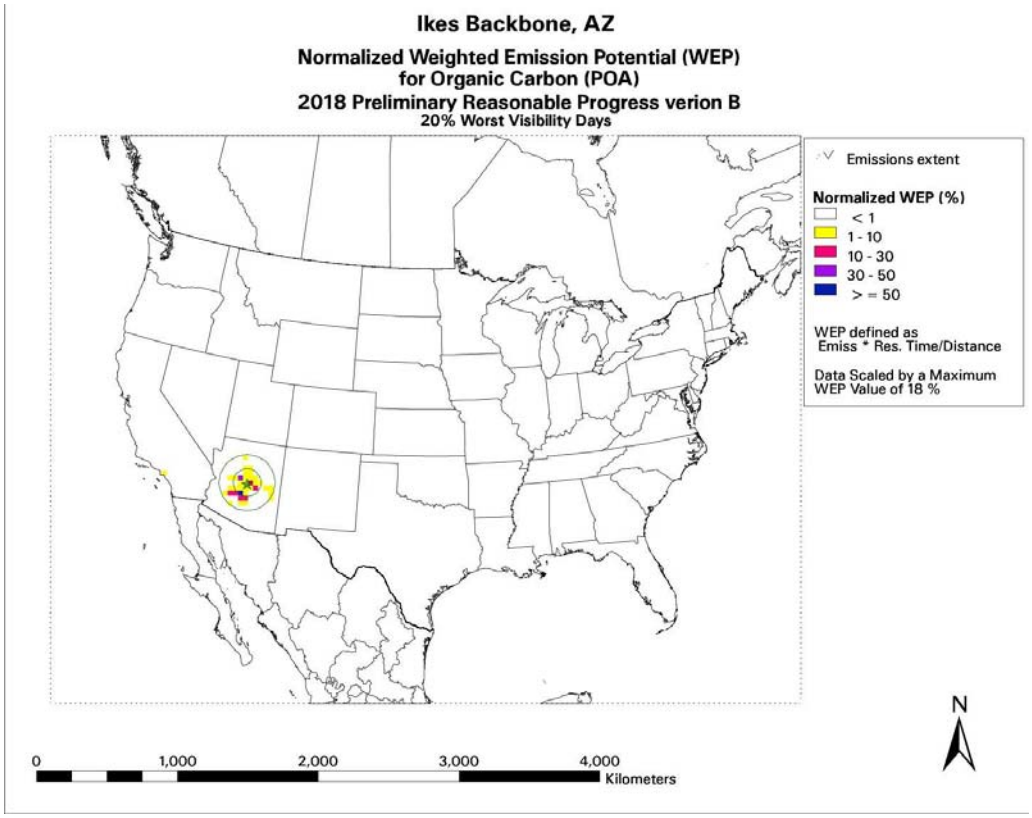
Nitrogen Oxides



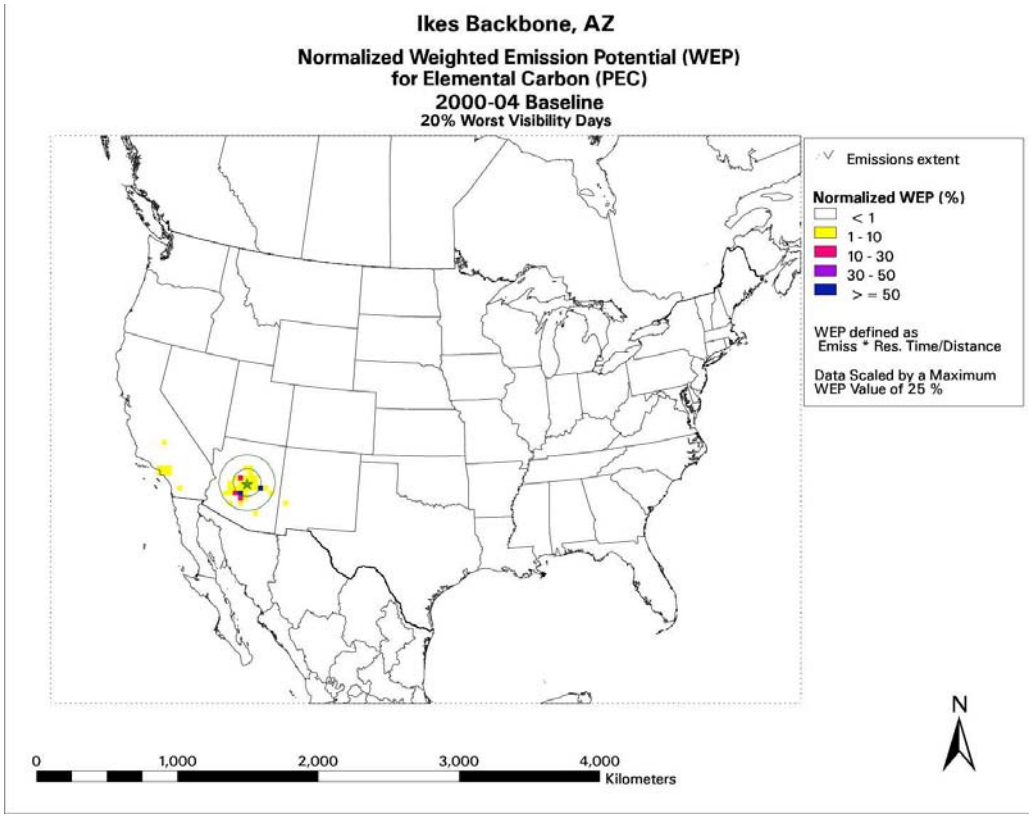


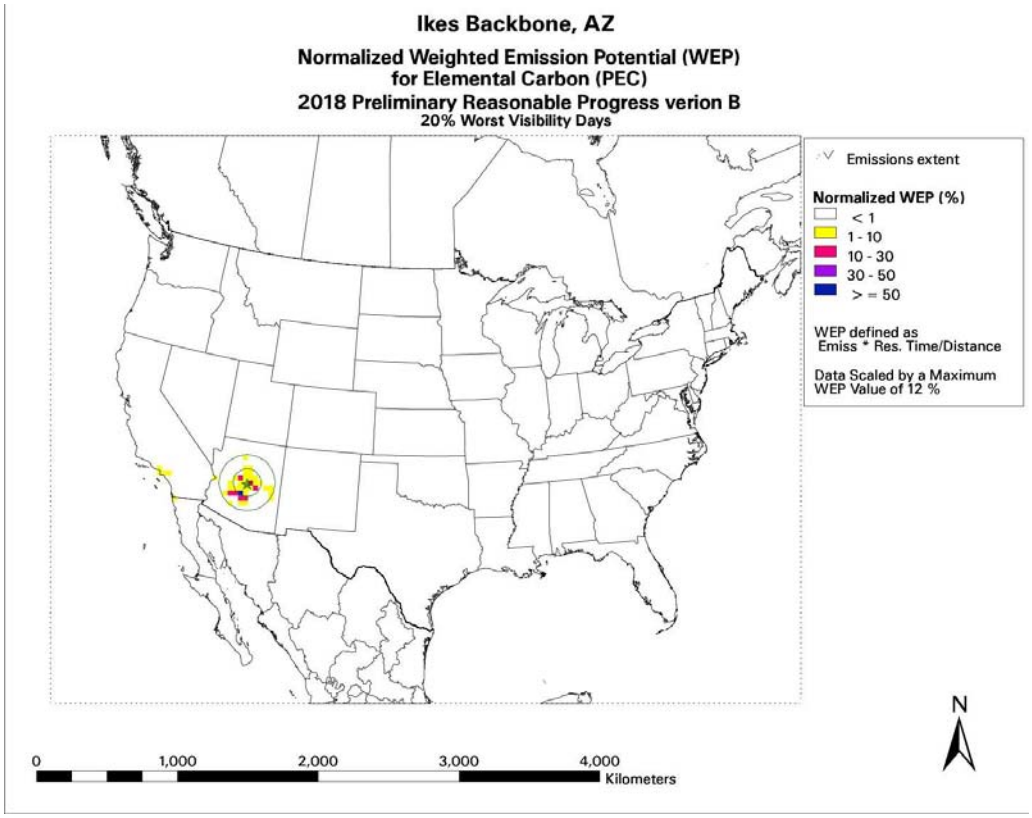
Organic Carbon



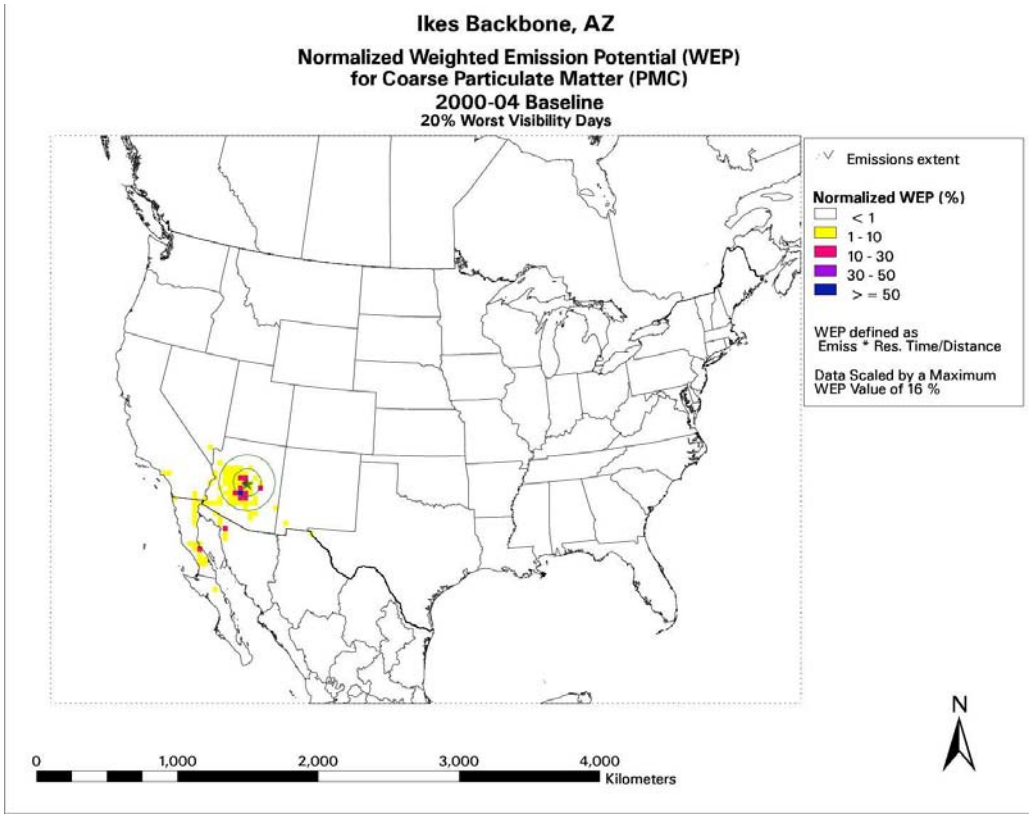


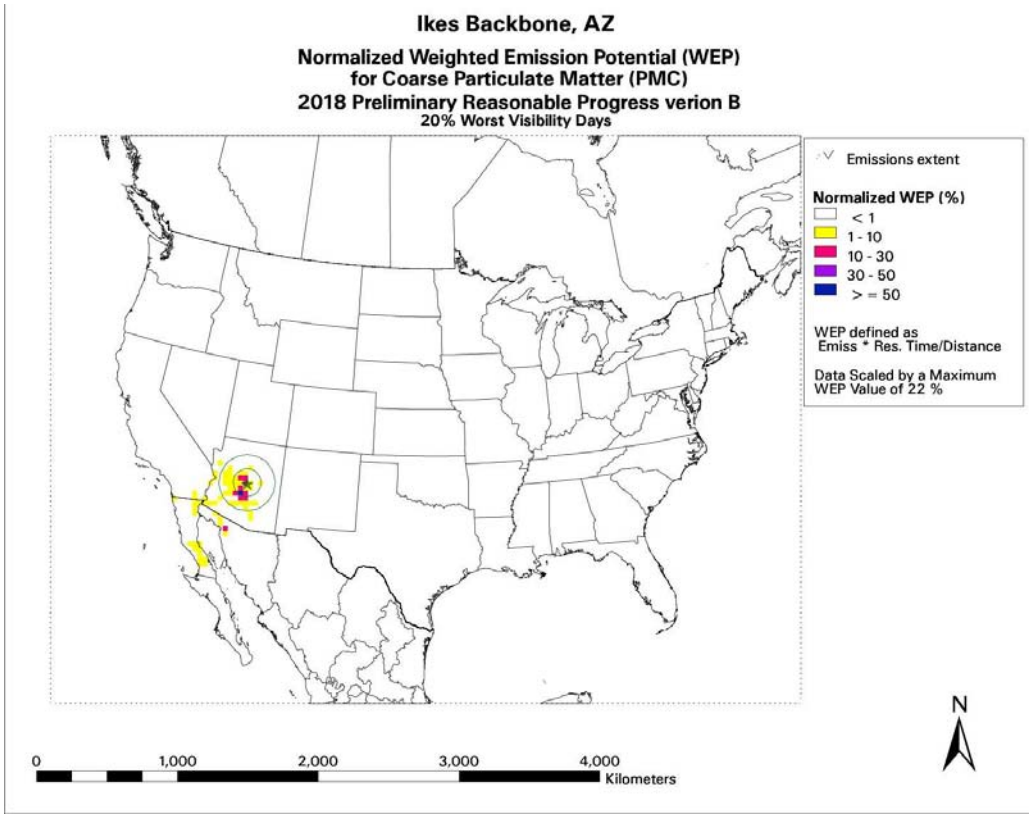
Elemental Carbon



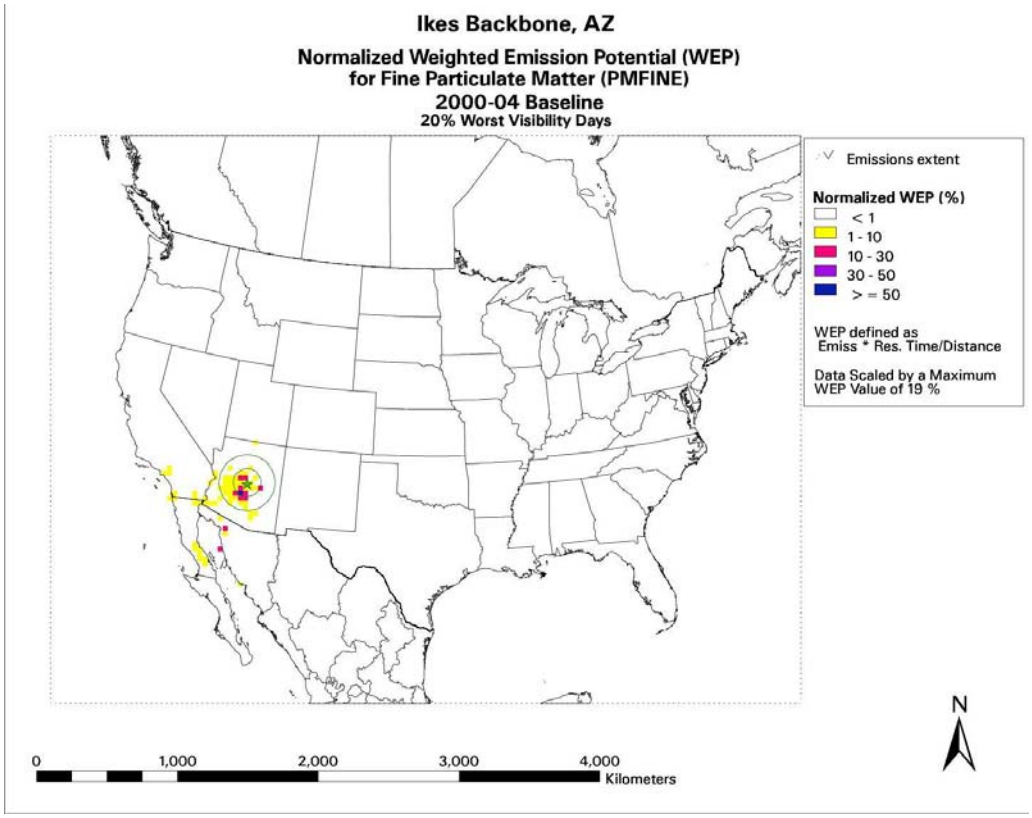


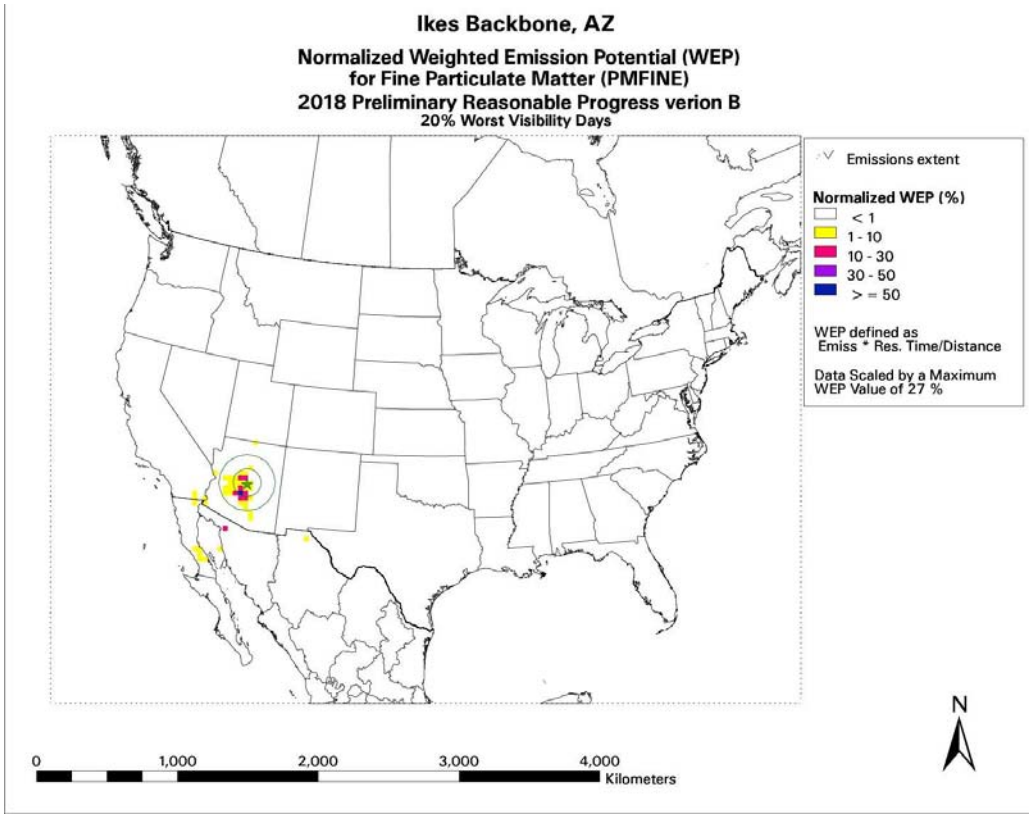
Coarse Mass


Ikes Backbone, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 16 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Ikes Backbone, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 22 %
N
0
1,000
2,000
3,000
4,000
Kilometers

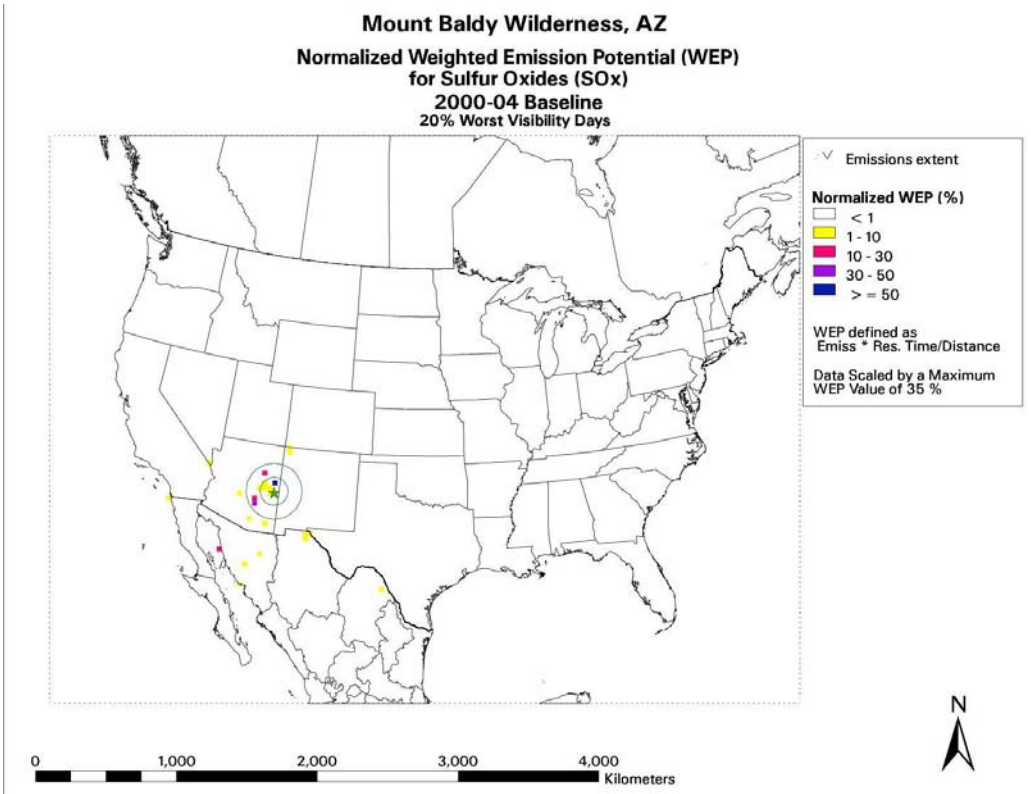
Fine Particulate Matter

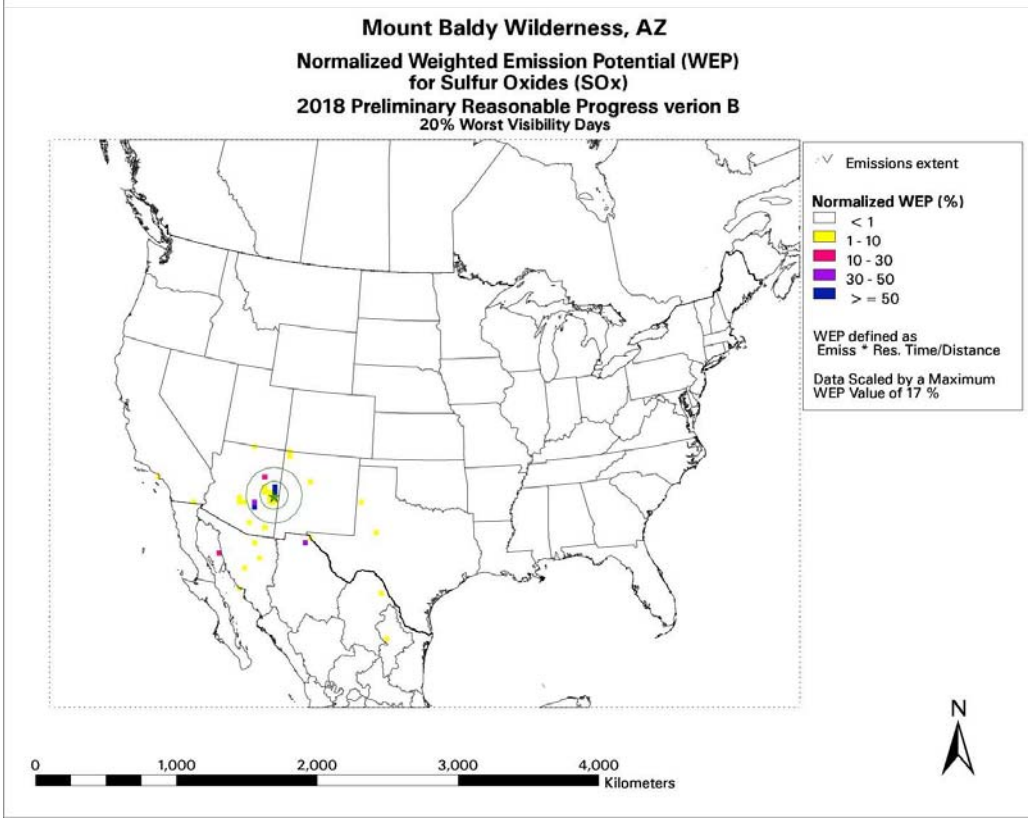




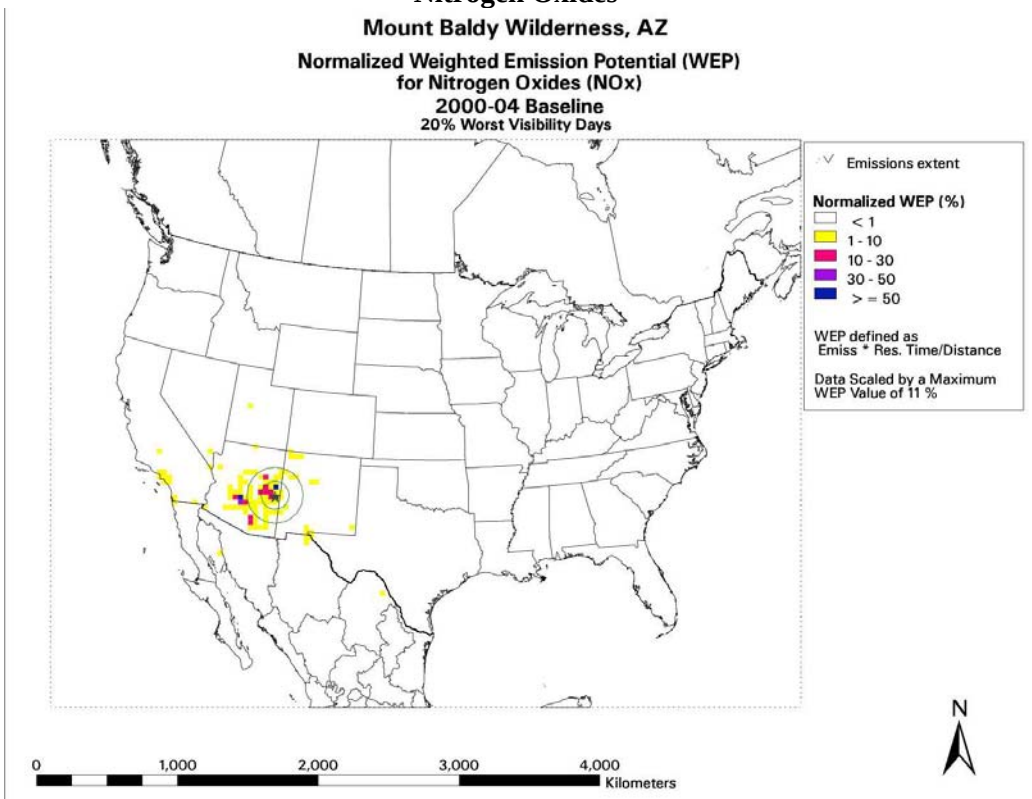
Mount Baldy

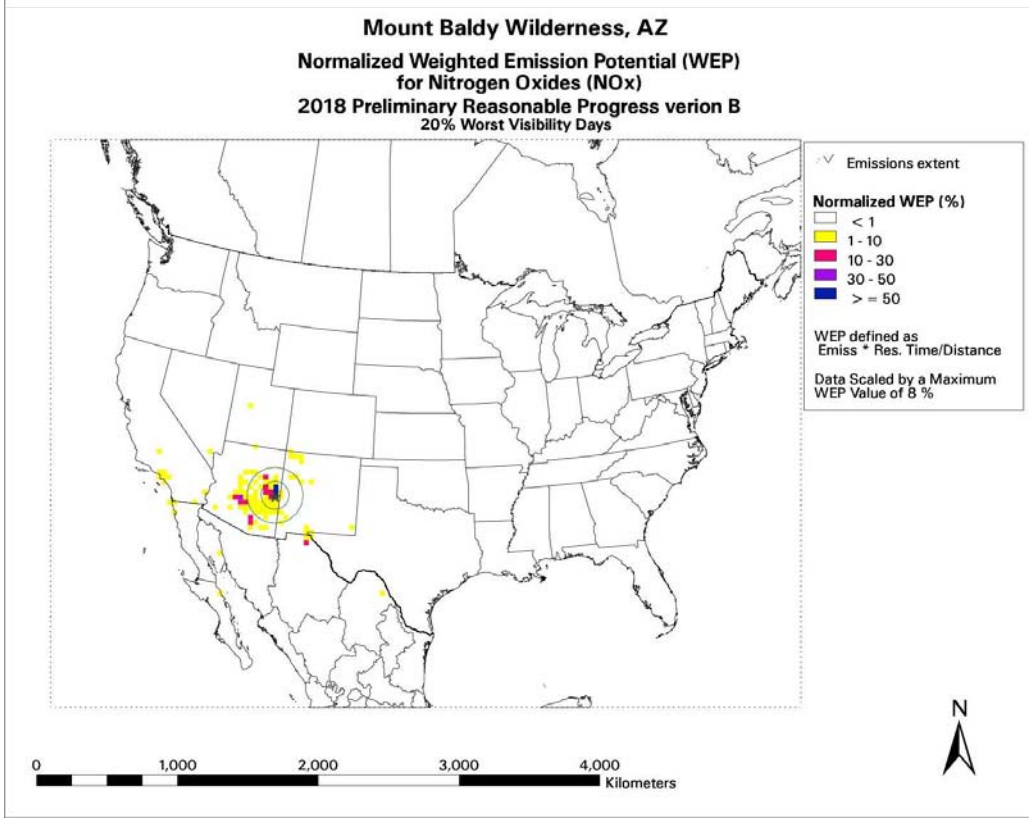
Sulfur Oxides



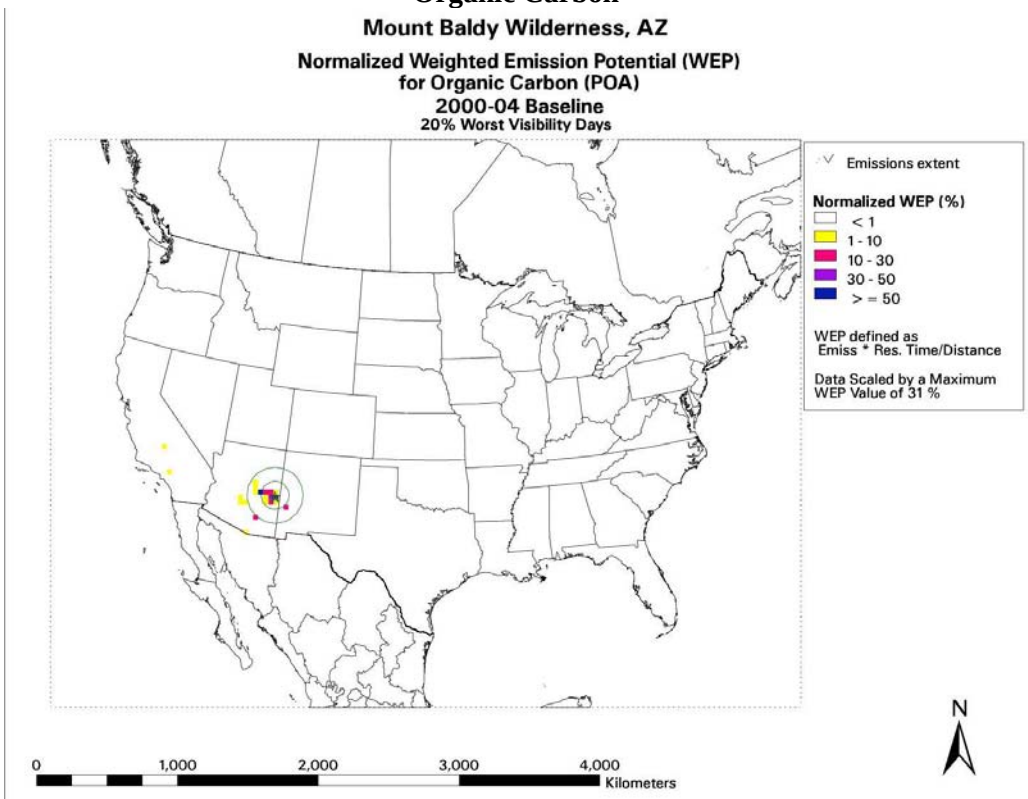


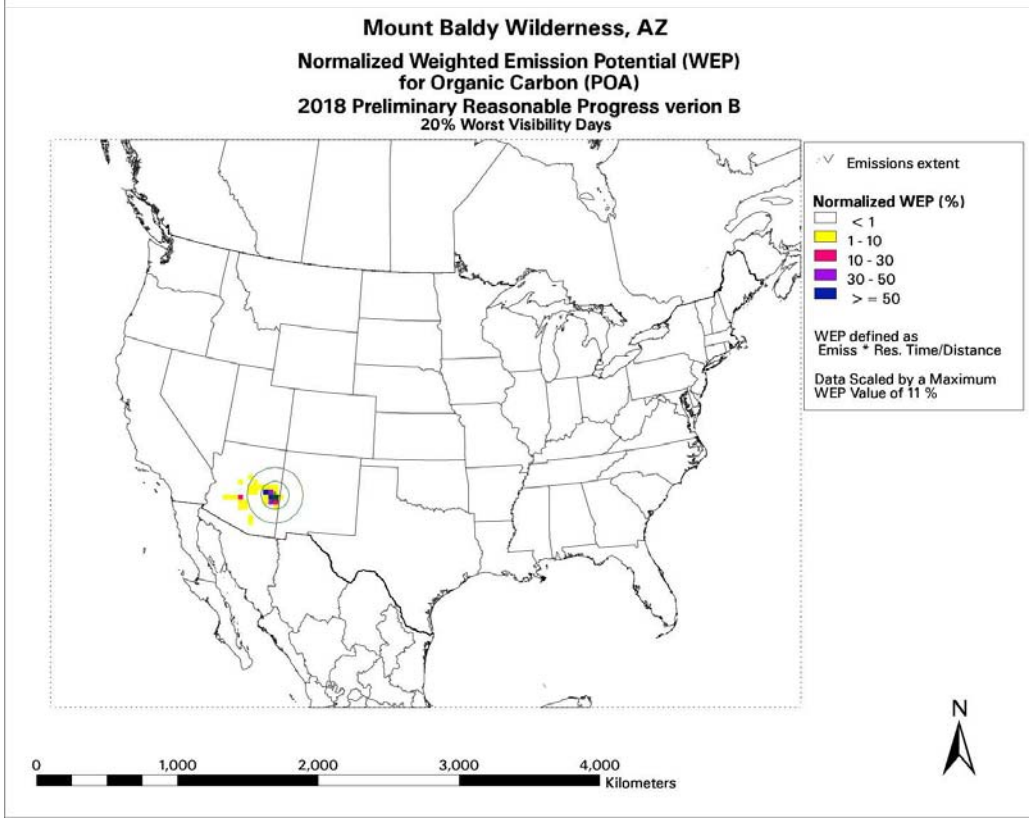
Nitrogen Oxides



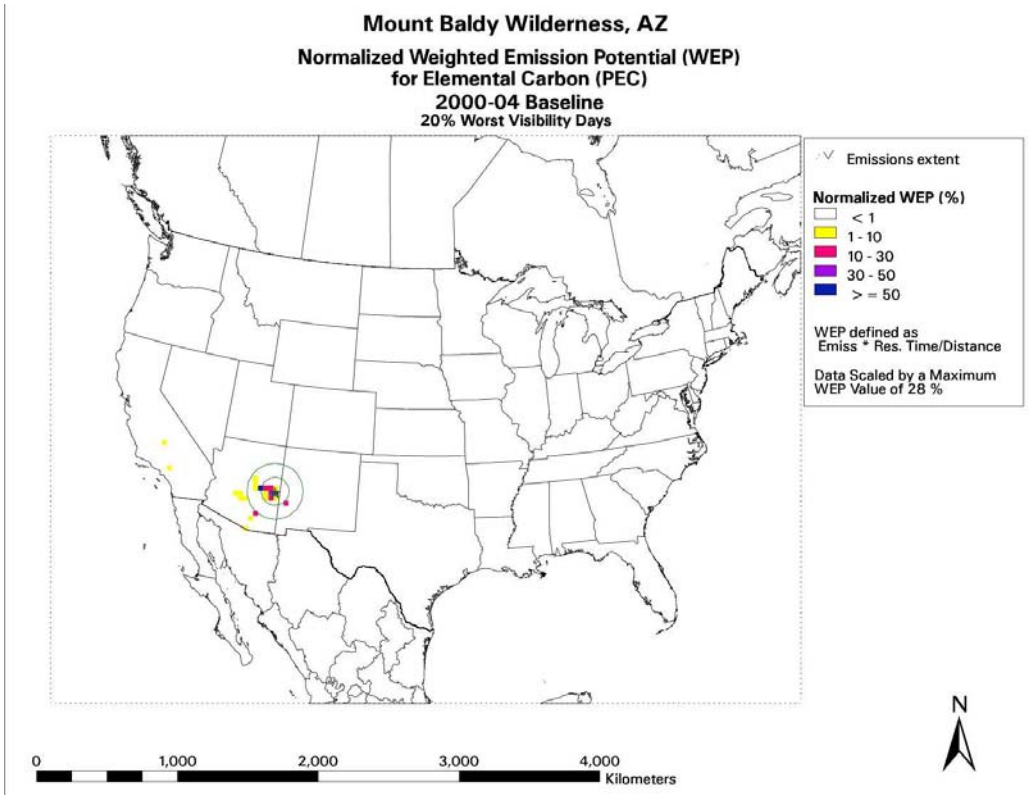


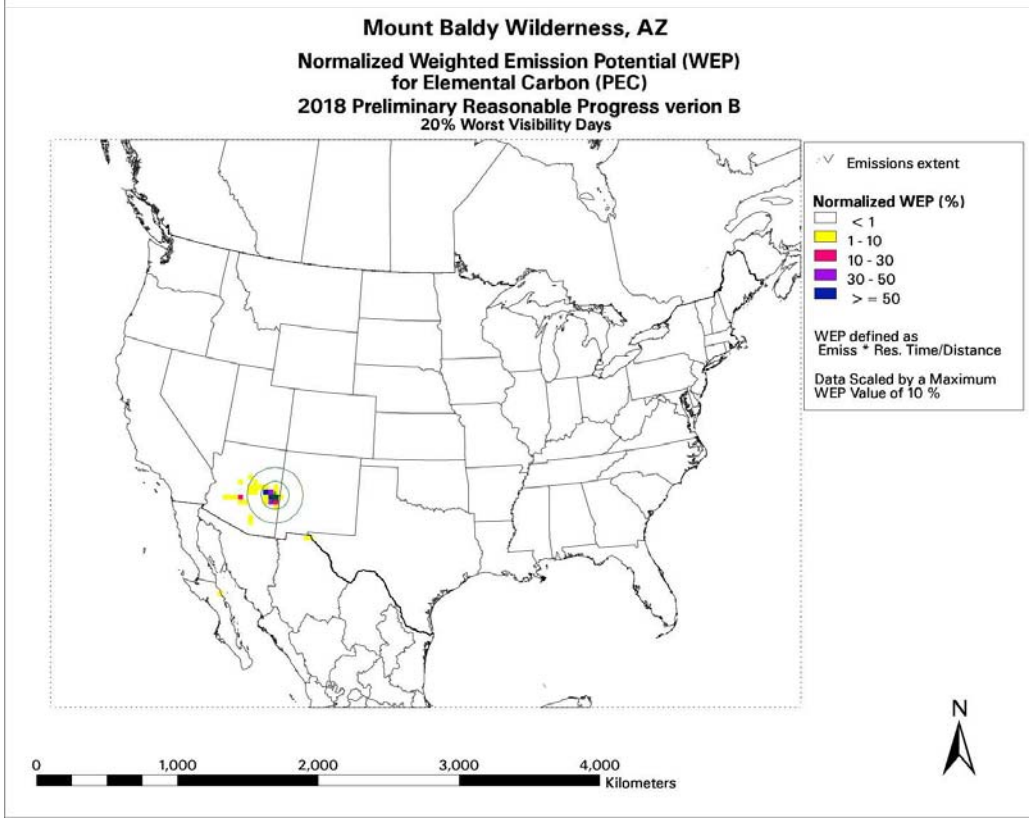
Organic Carbon



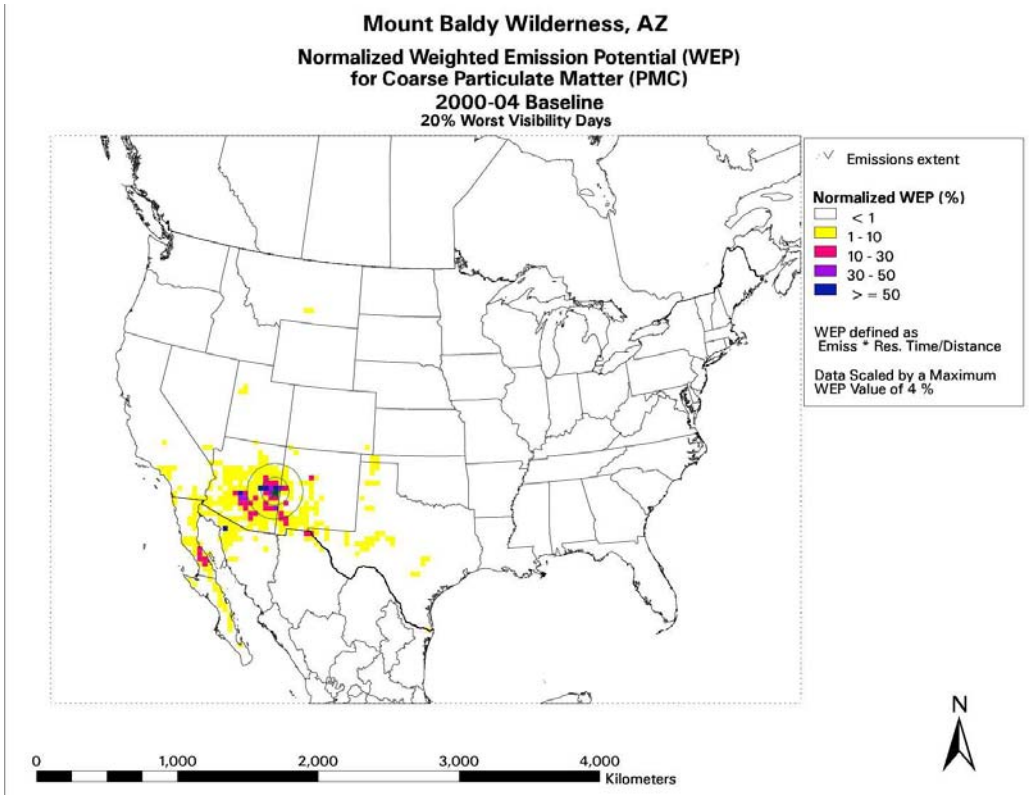


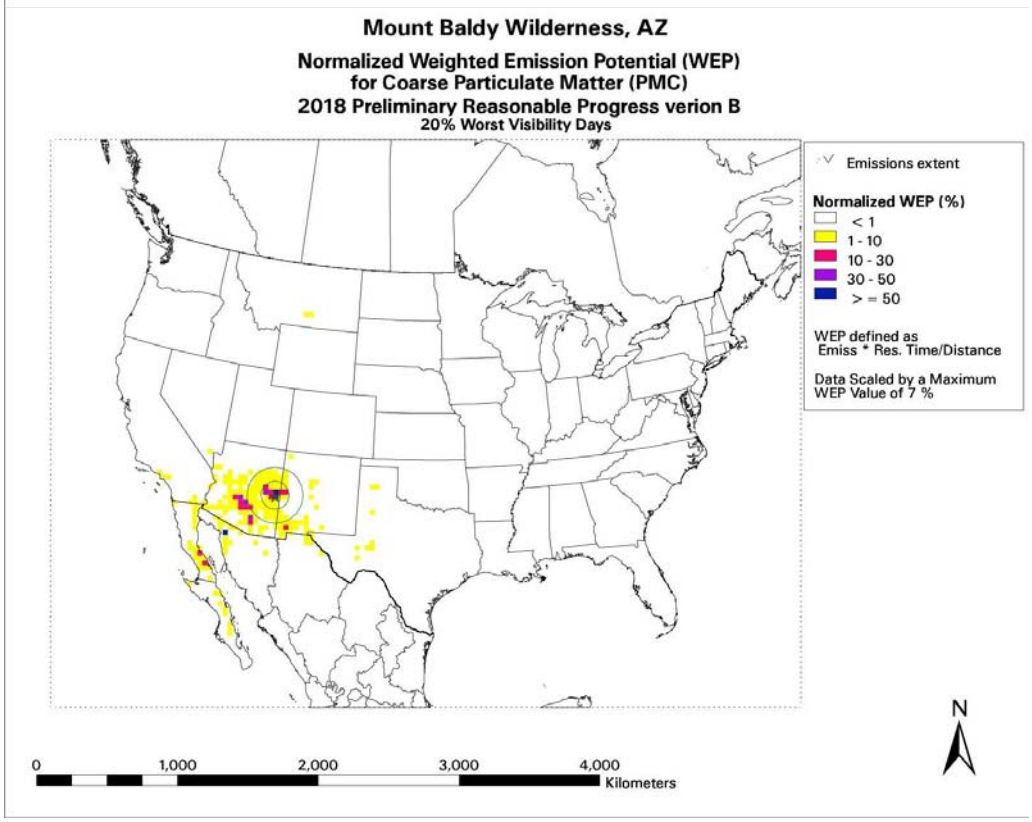
Elemental Carbon



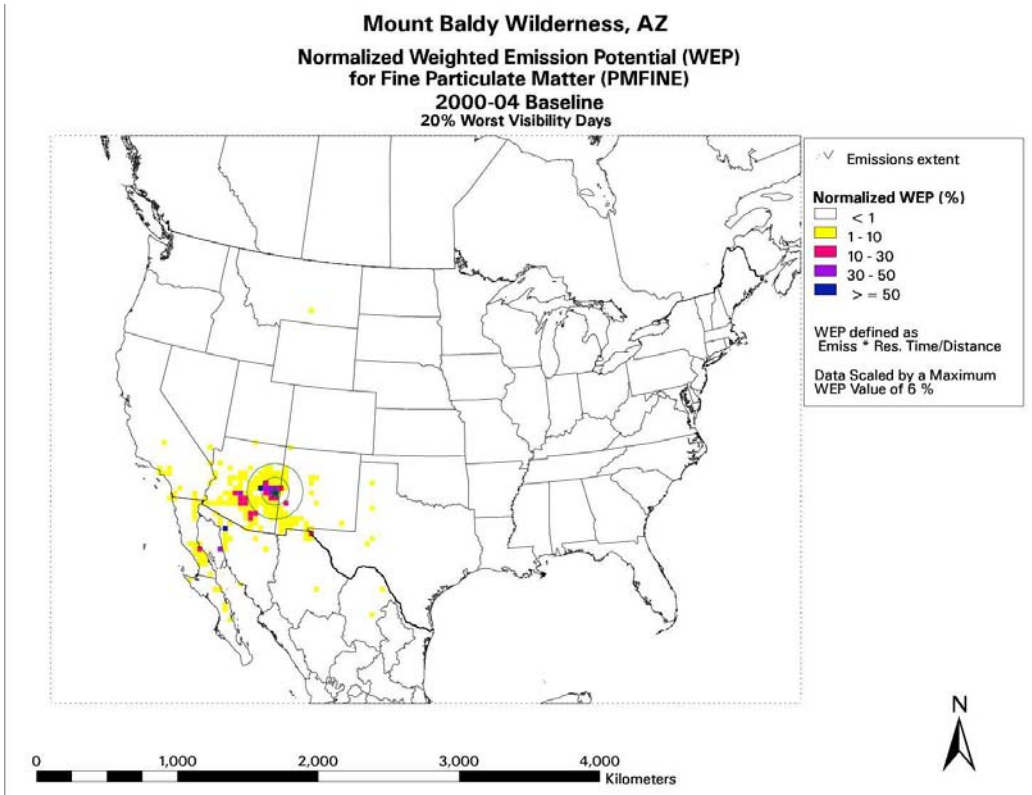


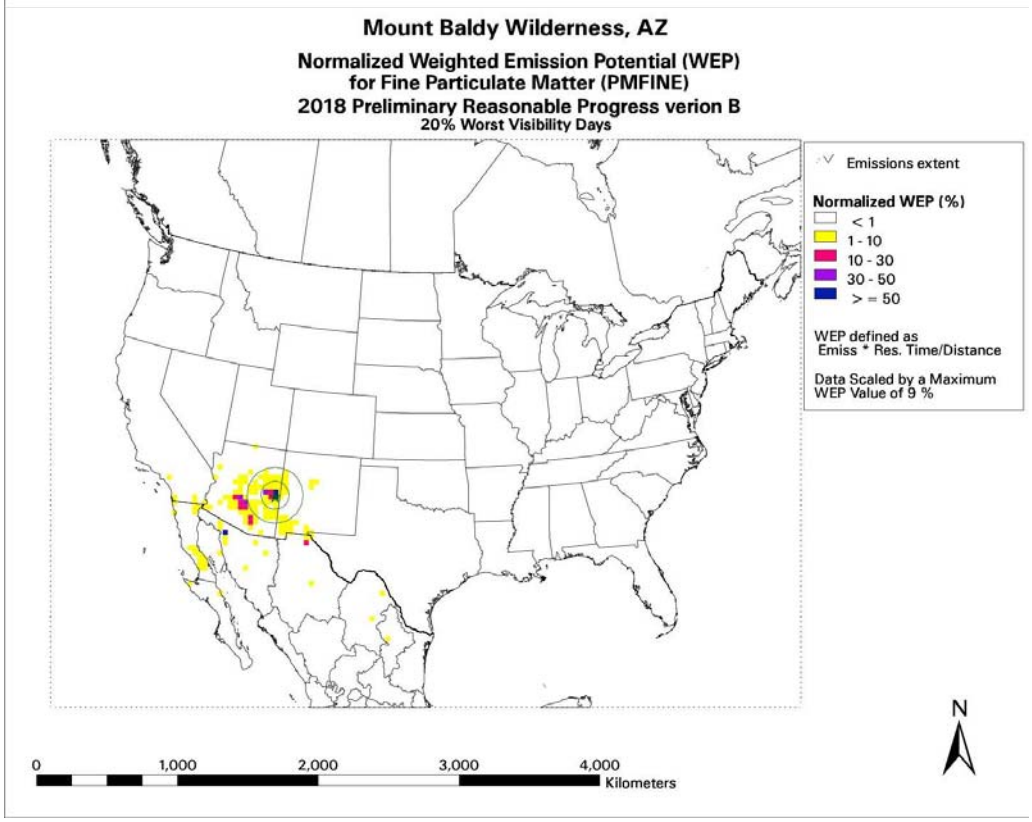
Coarse Mass


Mount Baldy Wilderness, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 4 %
0
1,000
2,000
3,000
4,000
Kilometers
N


Mount Baldy Wilderness, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 7 %
0
1,000
2,000
3,000
4,000
Kilometers
N

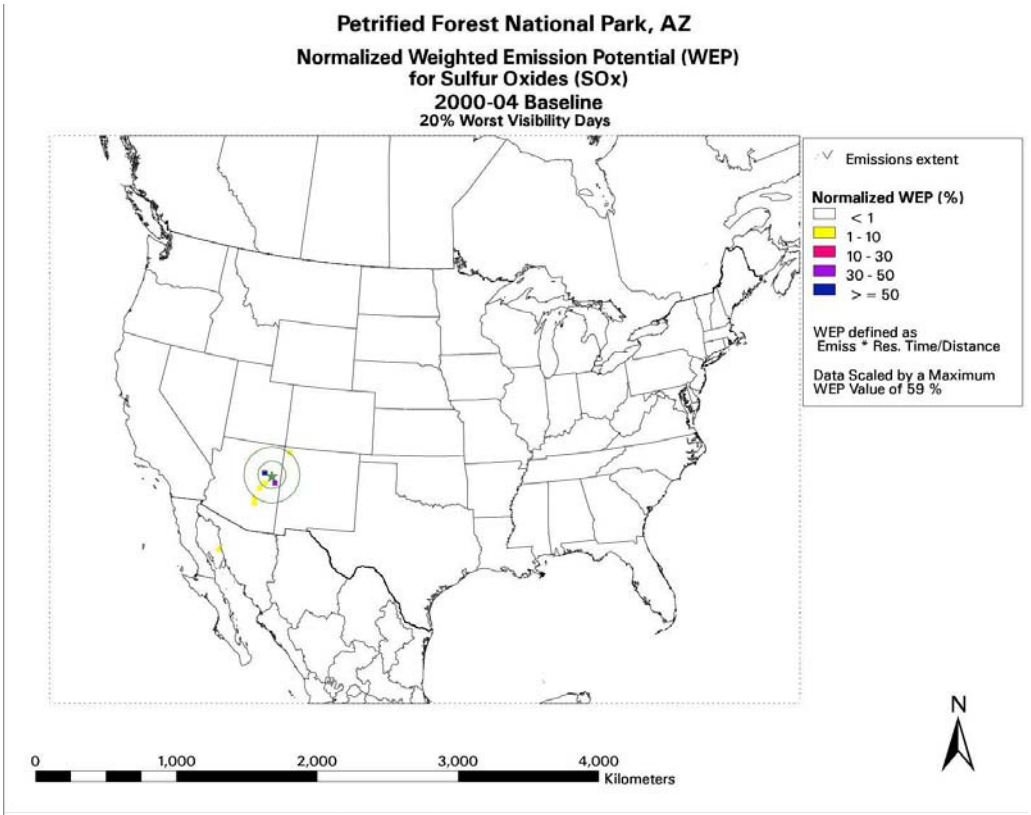
Fine Particulate Matter

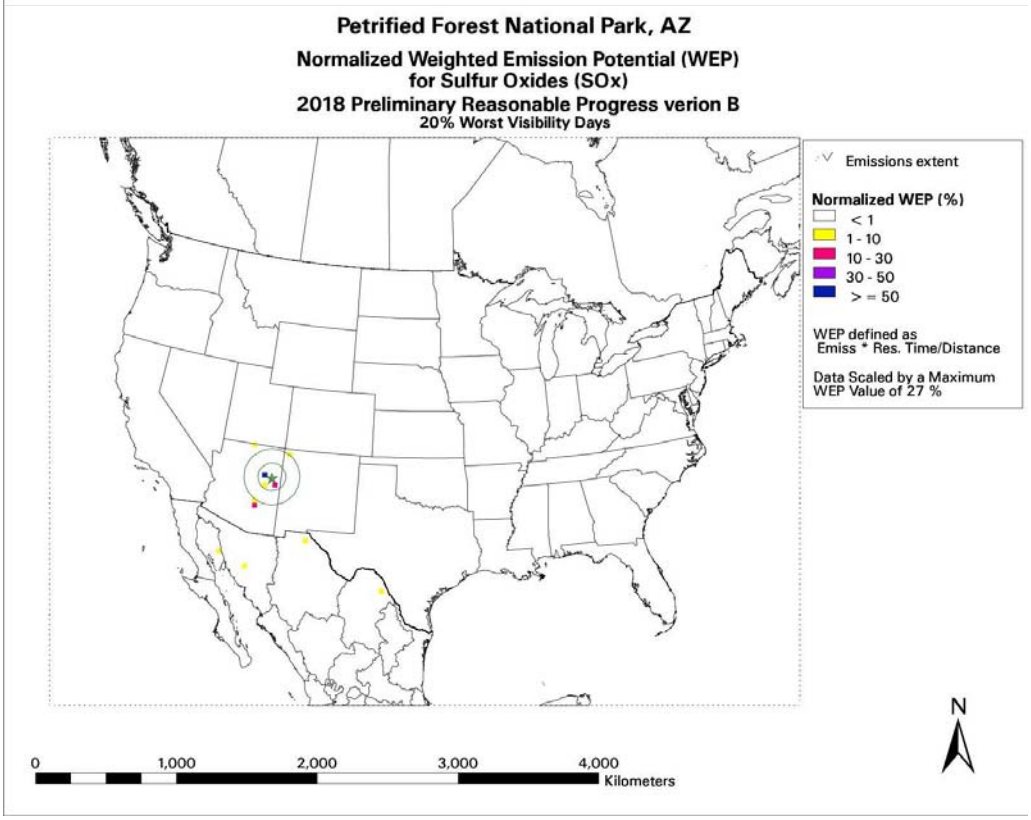




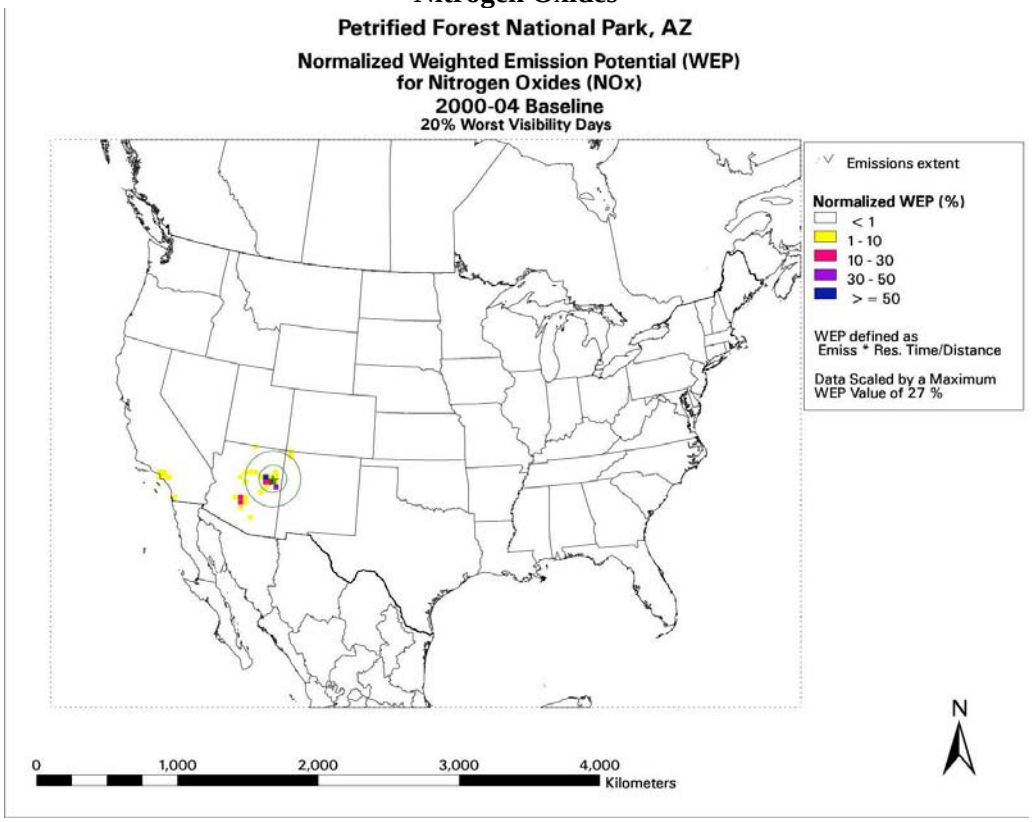
Petrified Forest National Park

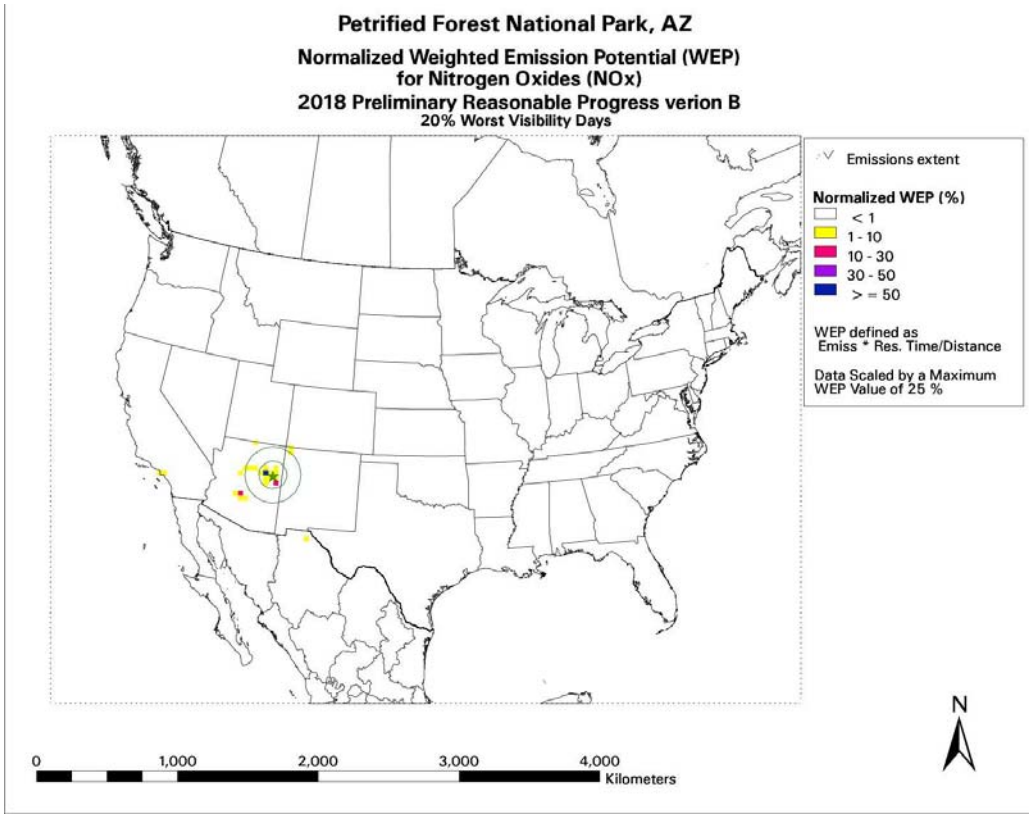
Sulfur Oxides



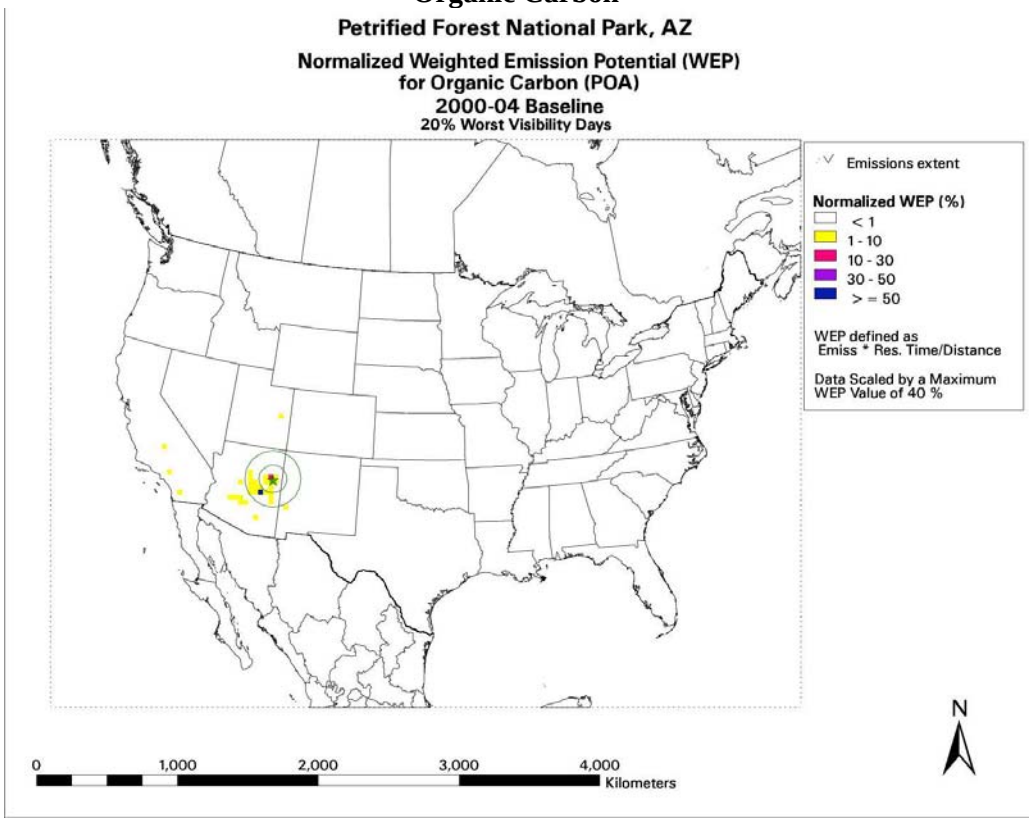


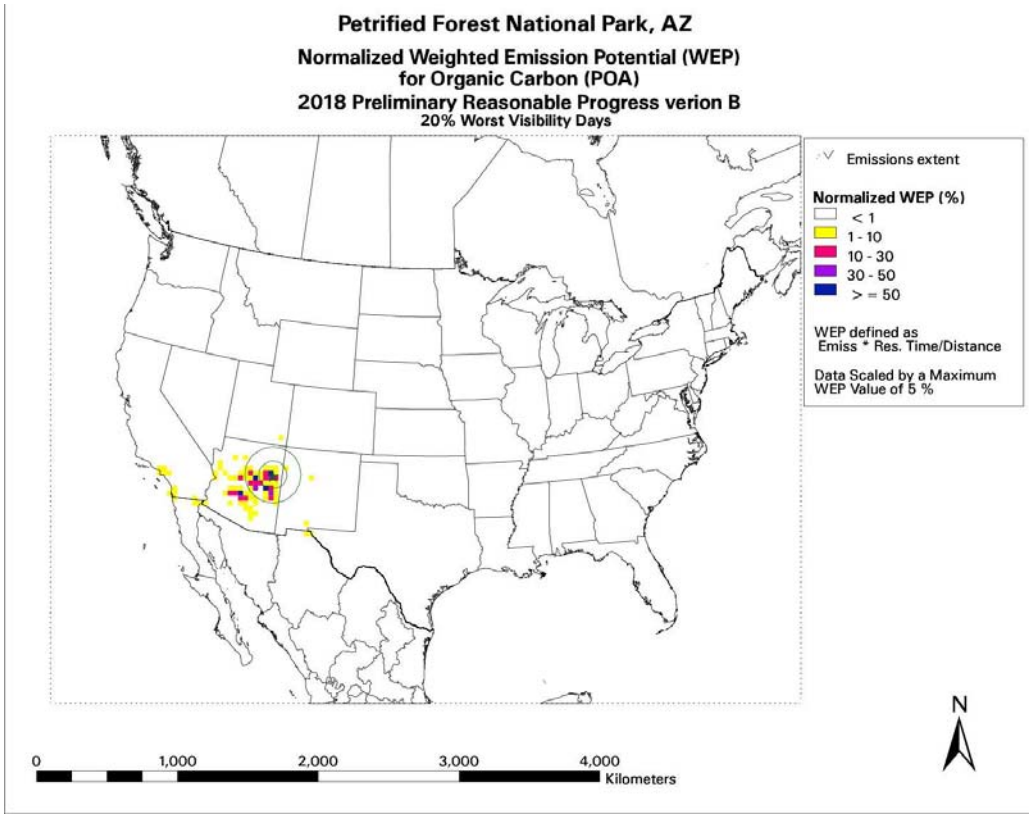
Nitrogen Oxides



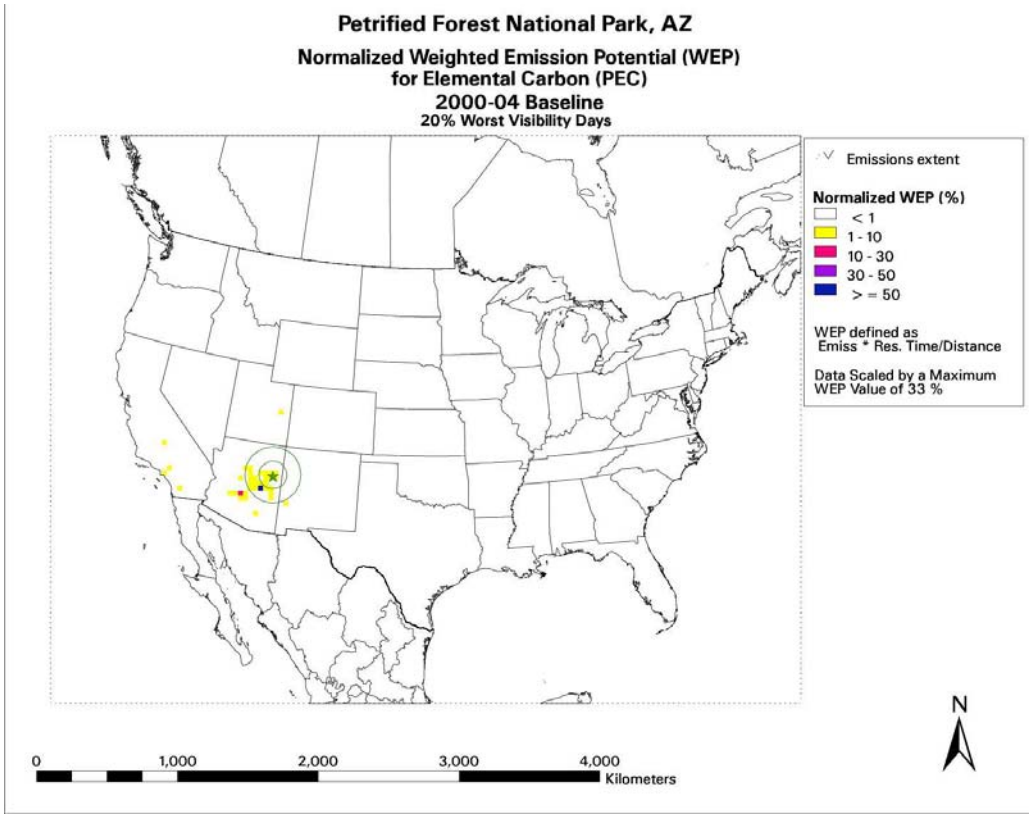


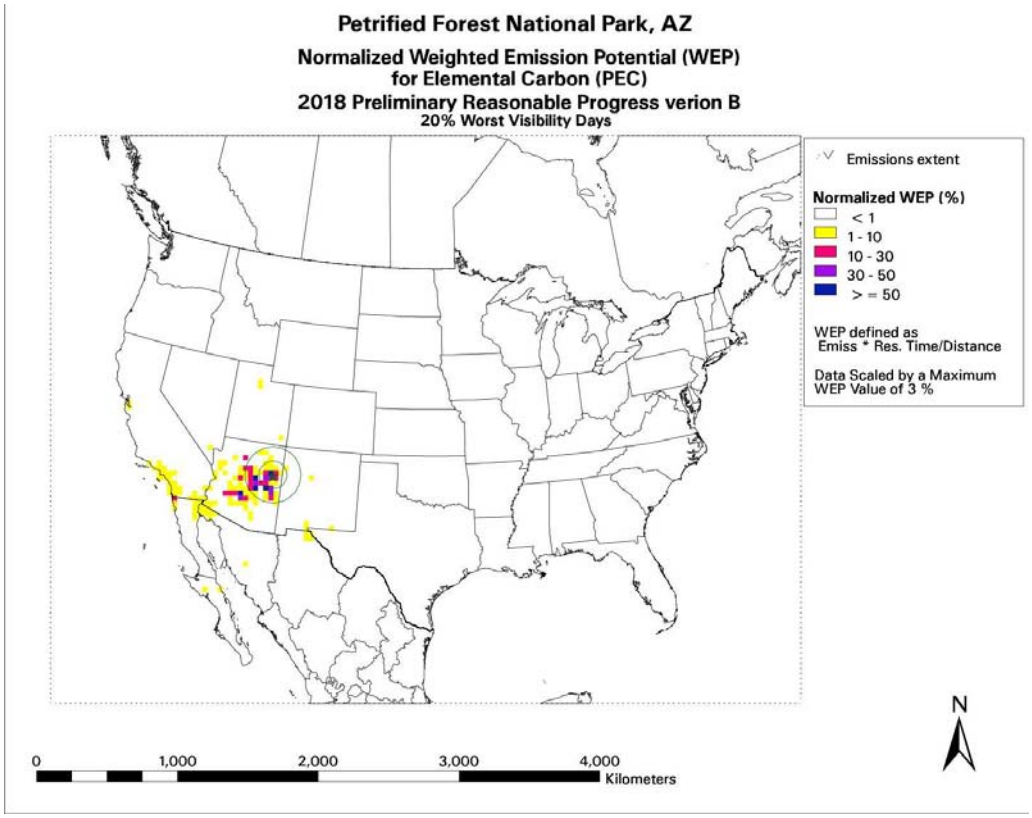
Organic Carbon



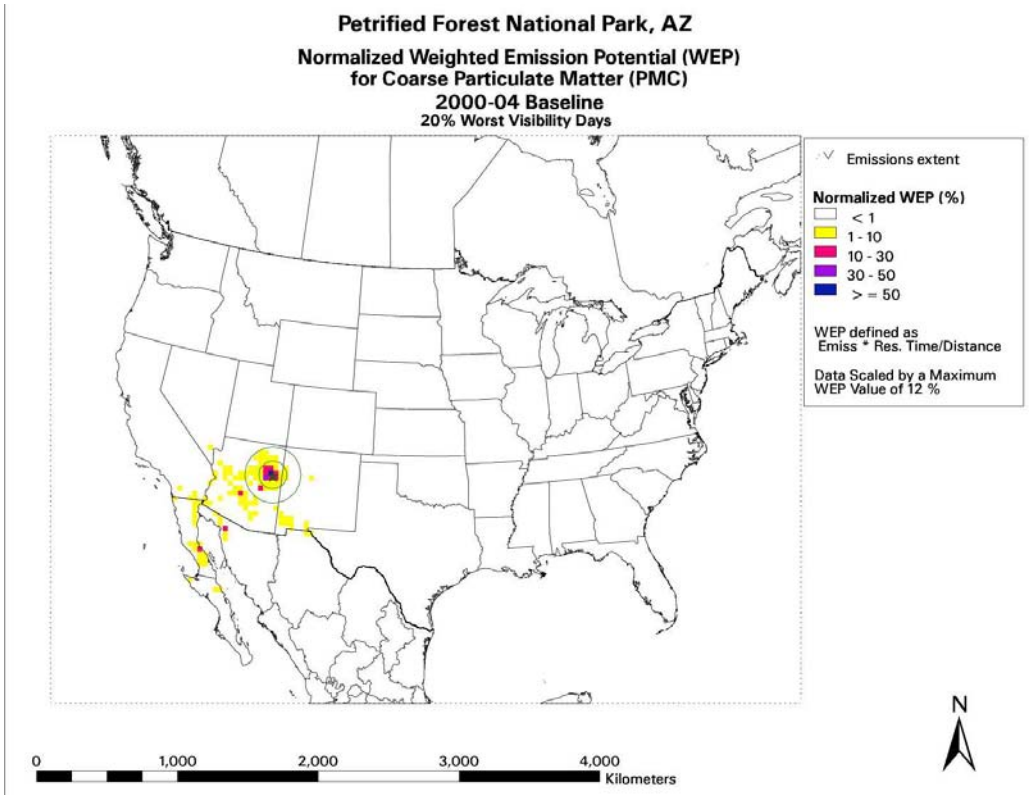


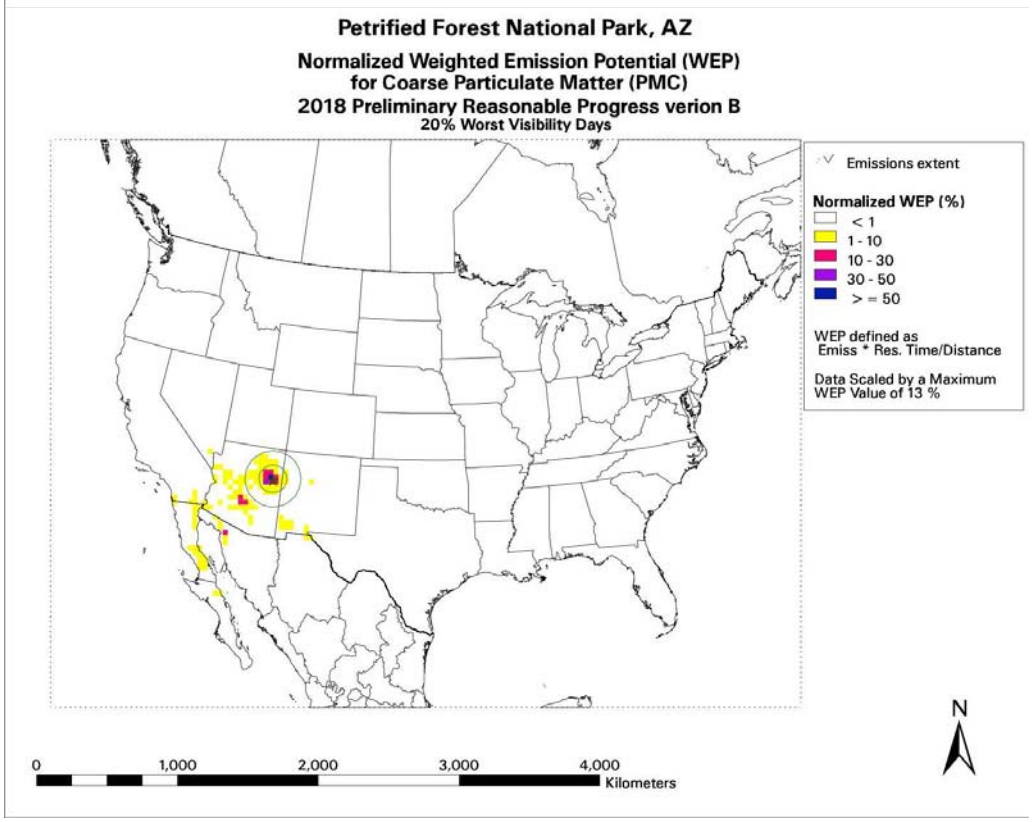
Elemental Carbon



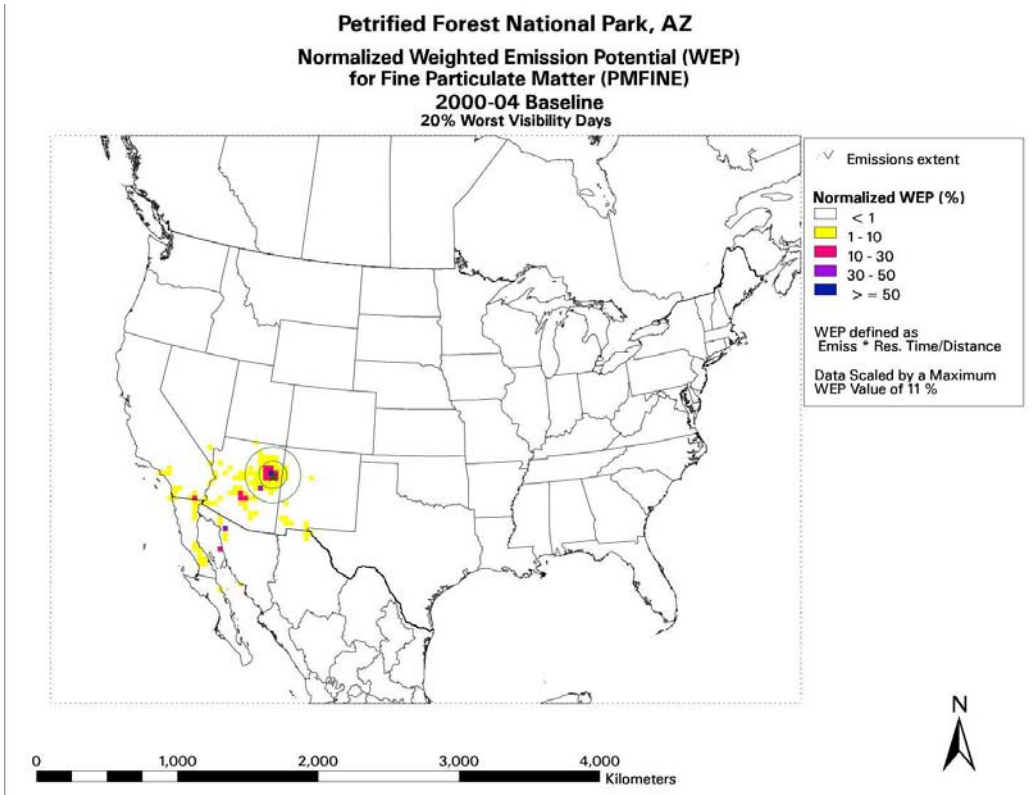


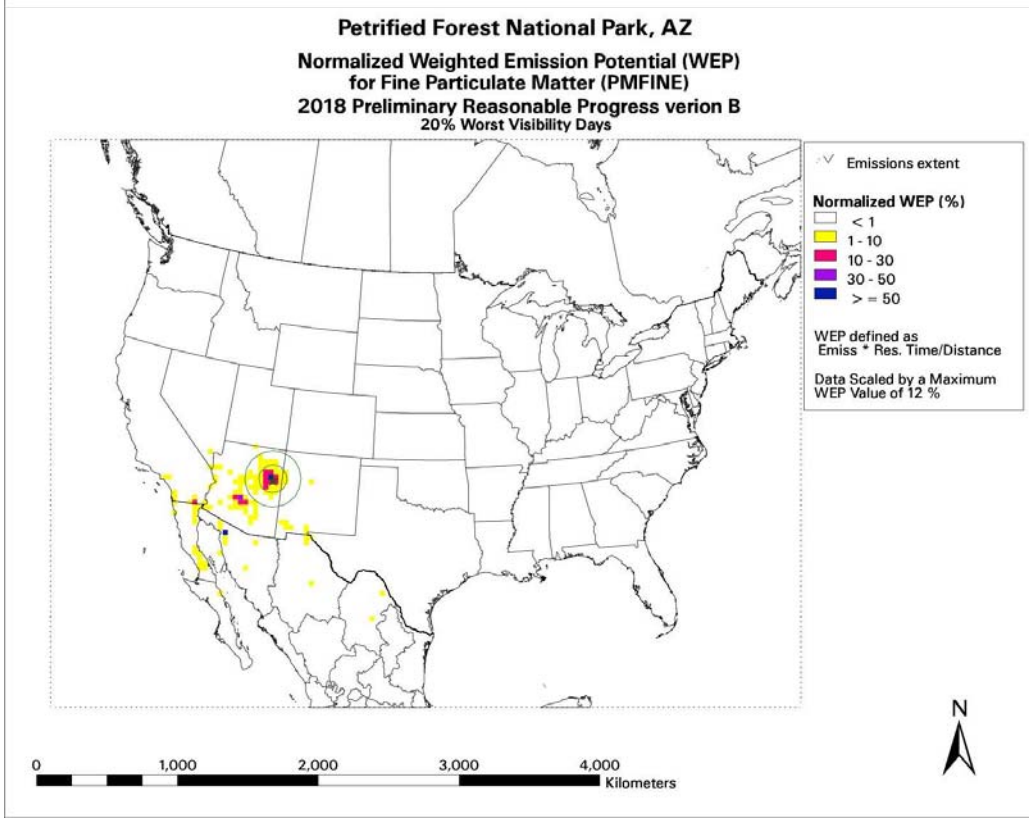
Coarse Mass


Petrified Forest National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 12 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Petrified Forest National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 13 %
N
0
1,000
2,000
3,000
4,000
Kilometers

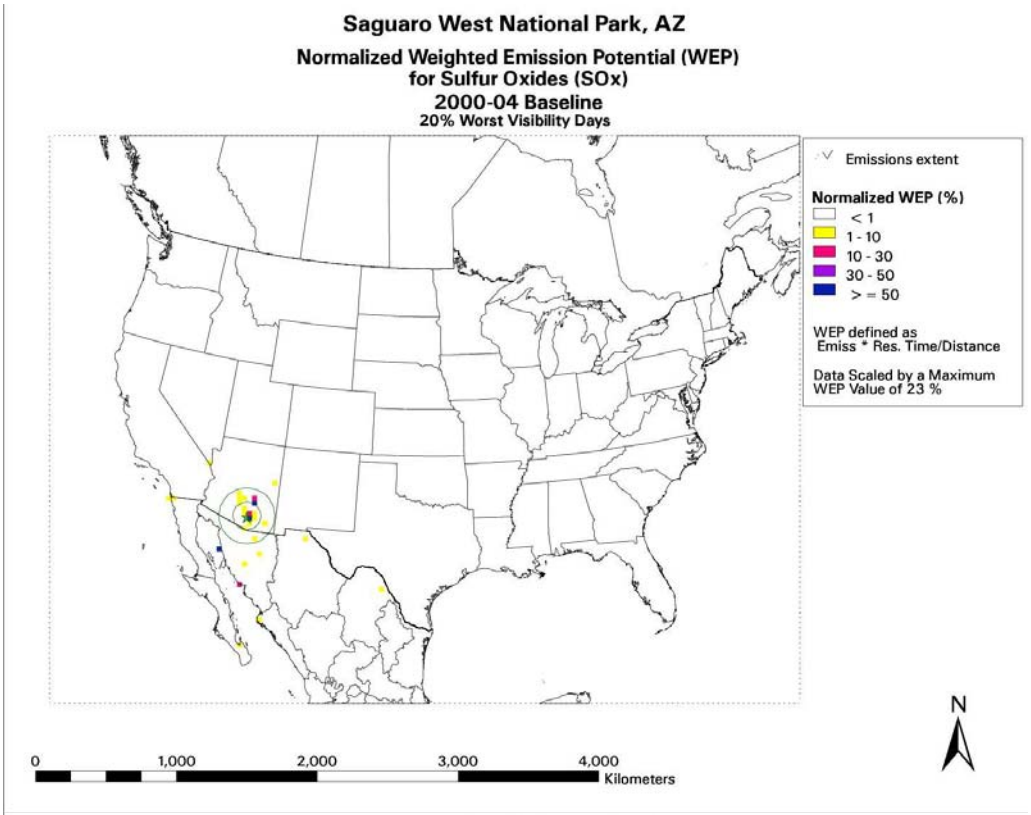
Fine Particulate Matter

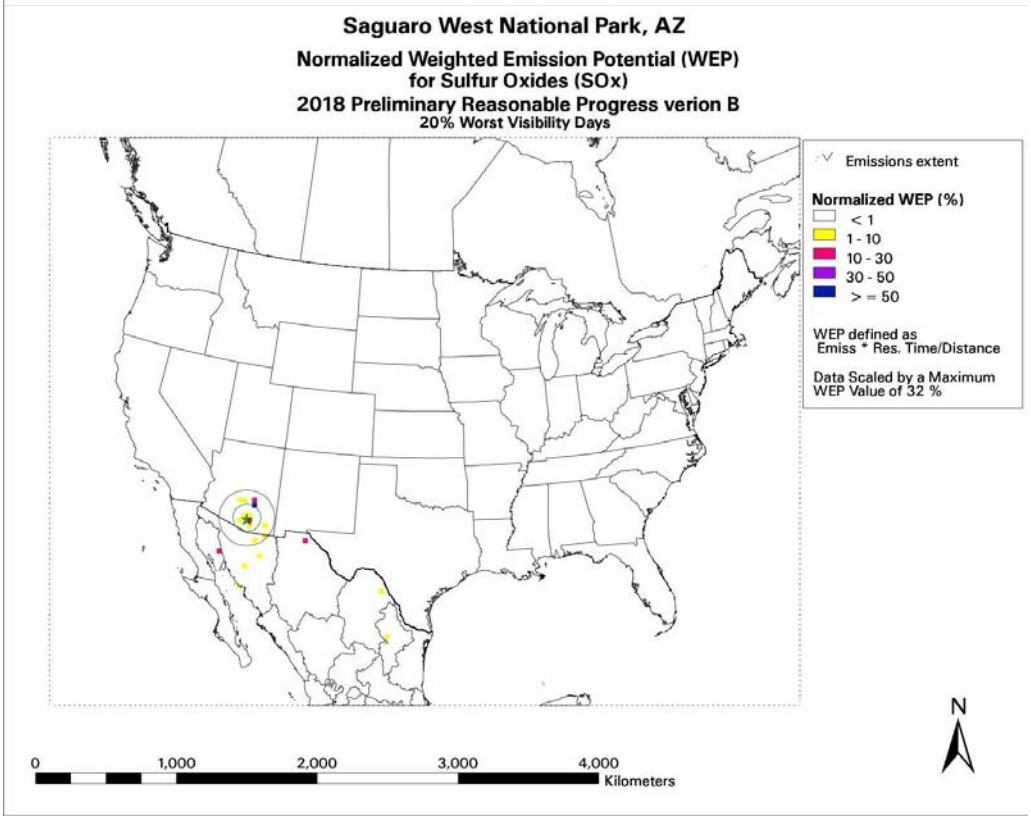




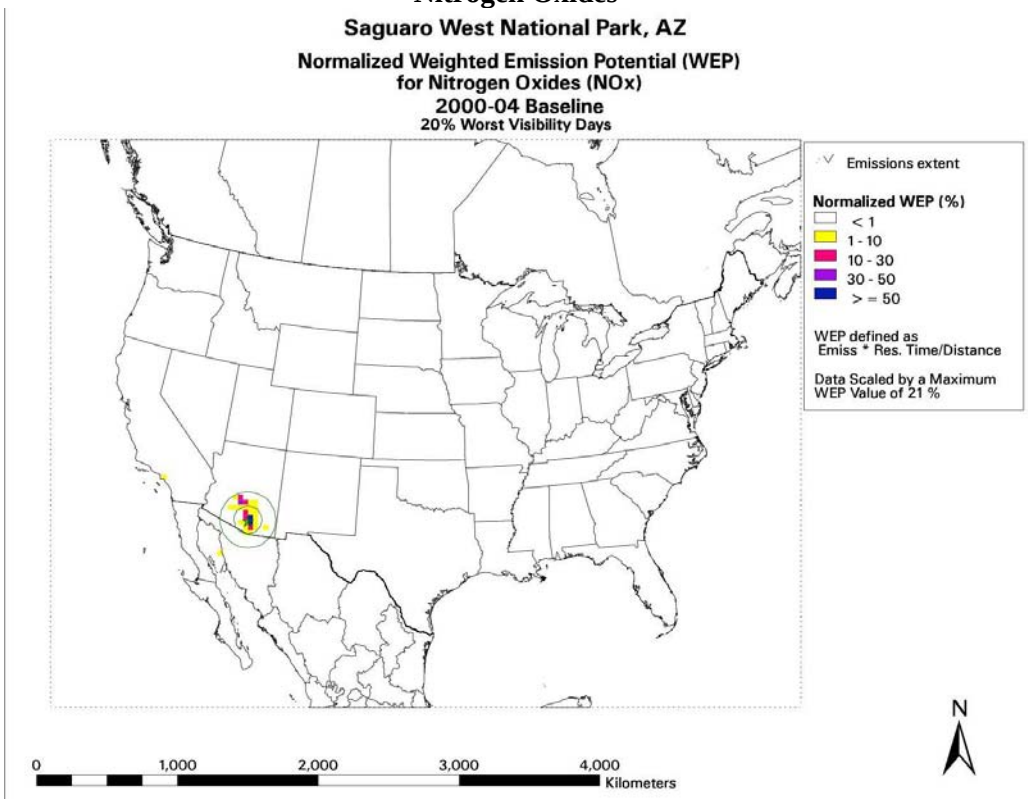
Saguaro National Park – West Unit

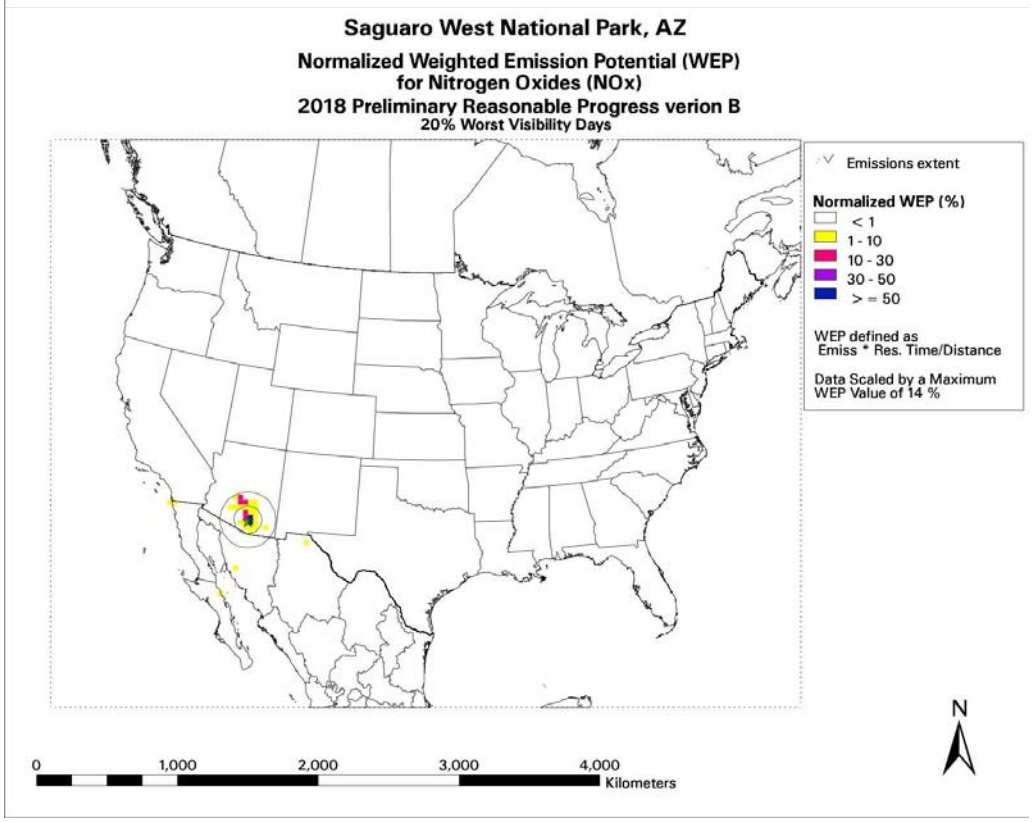
Sulfur Oxides



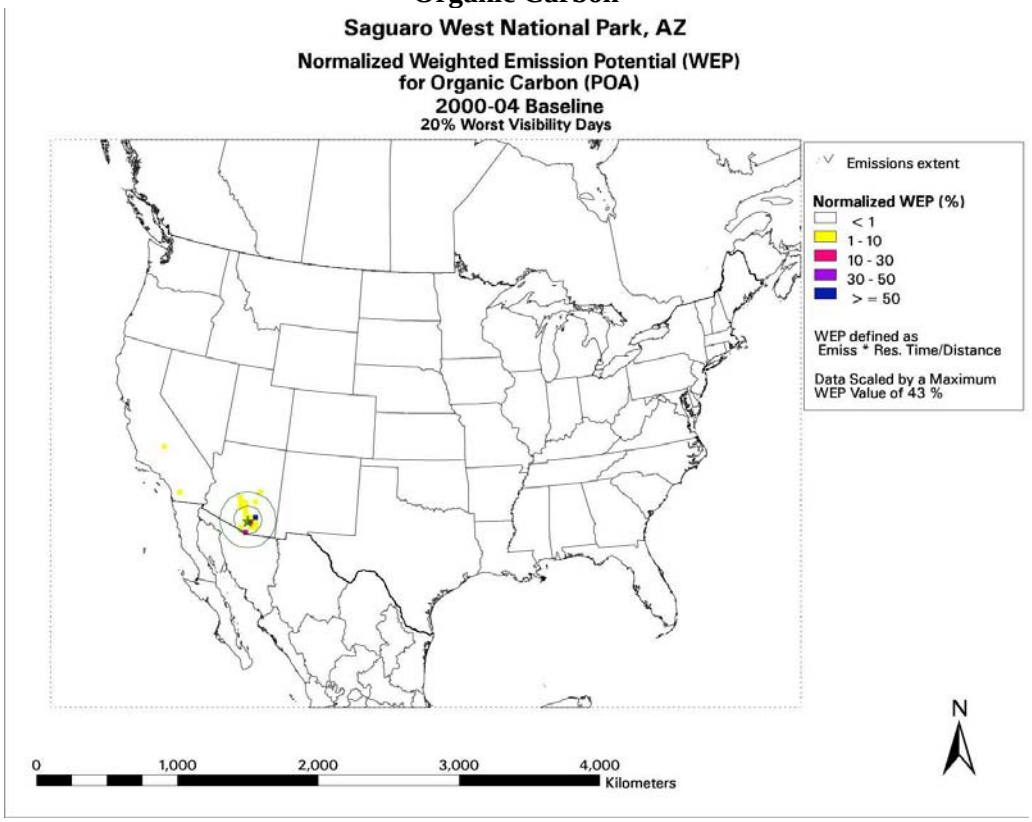


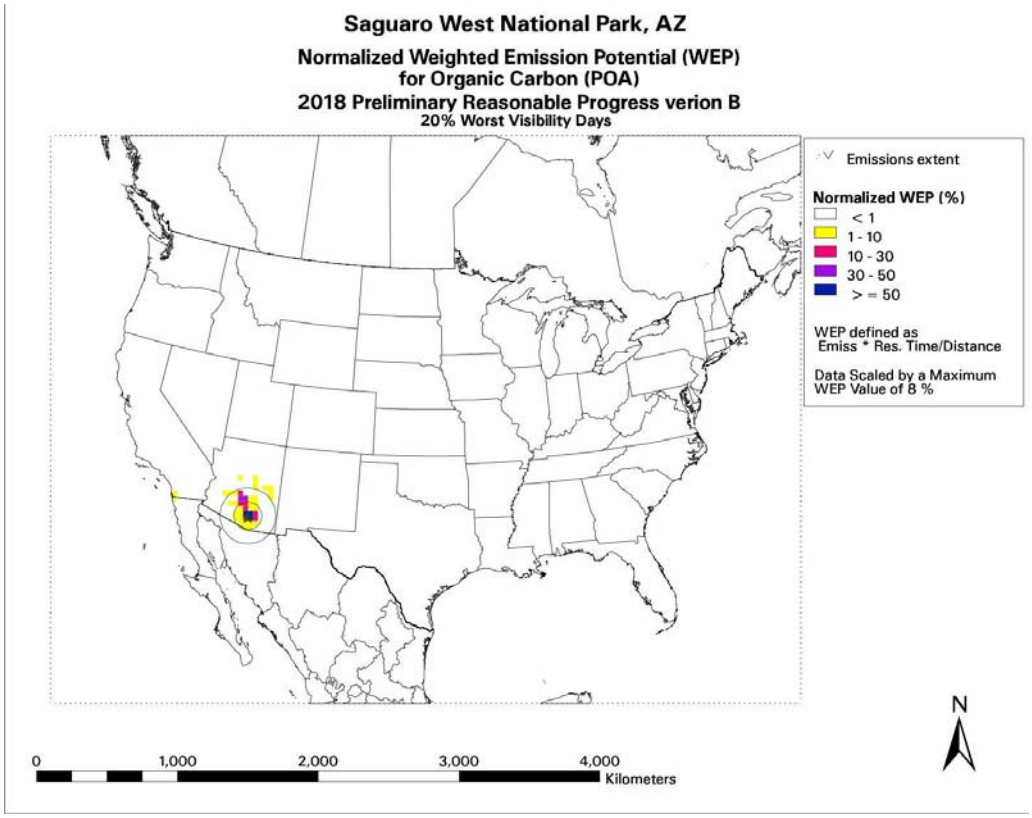
Nitrogen Oxides



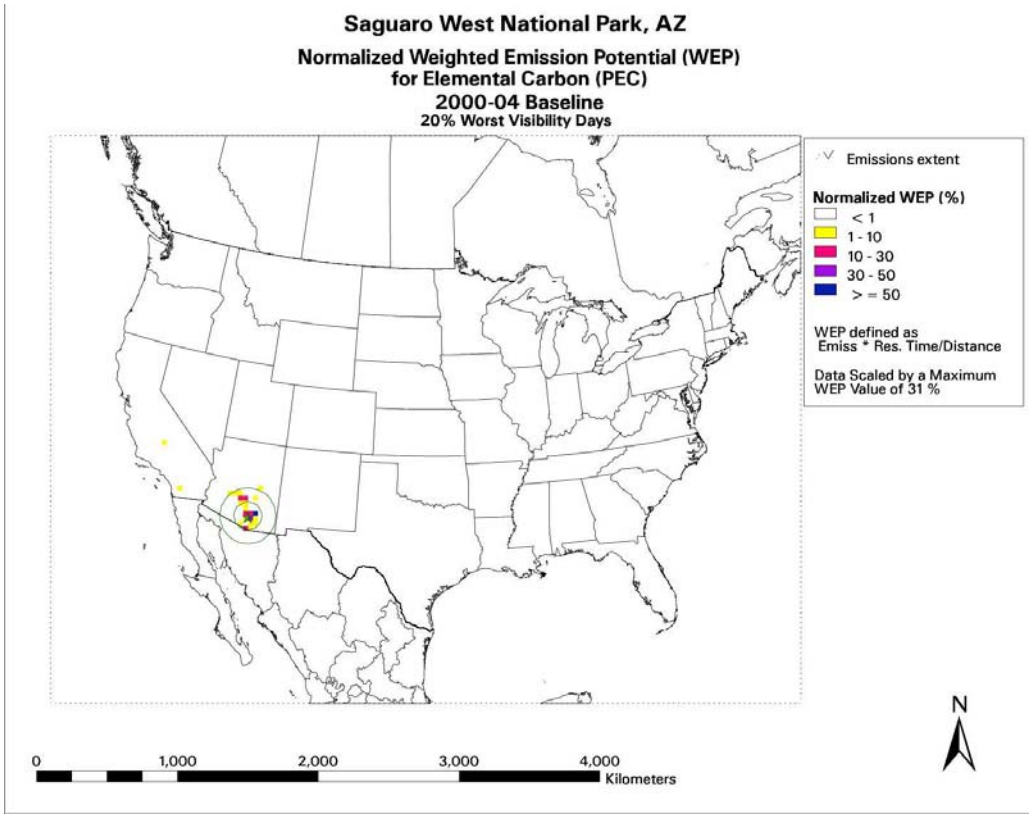


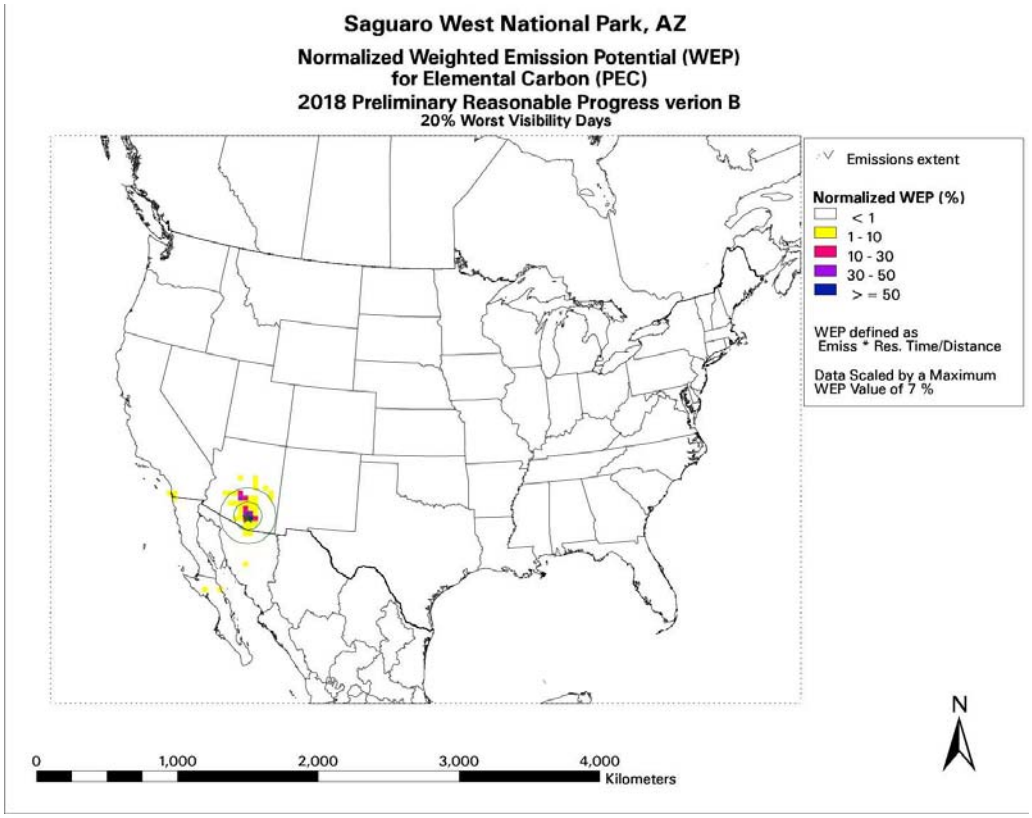
Organic Carbon



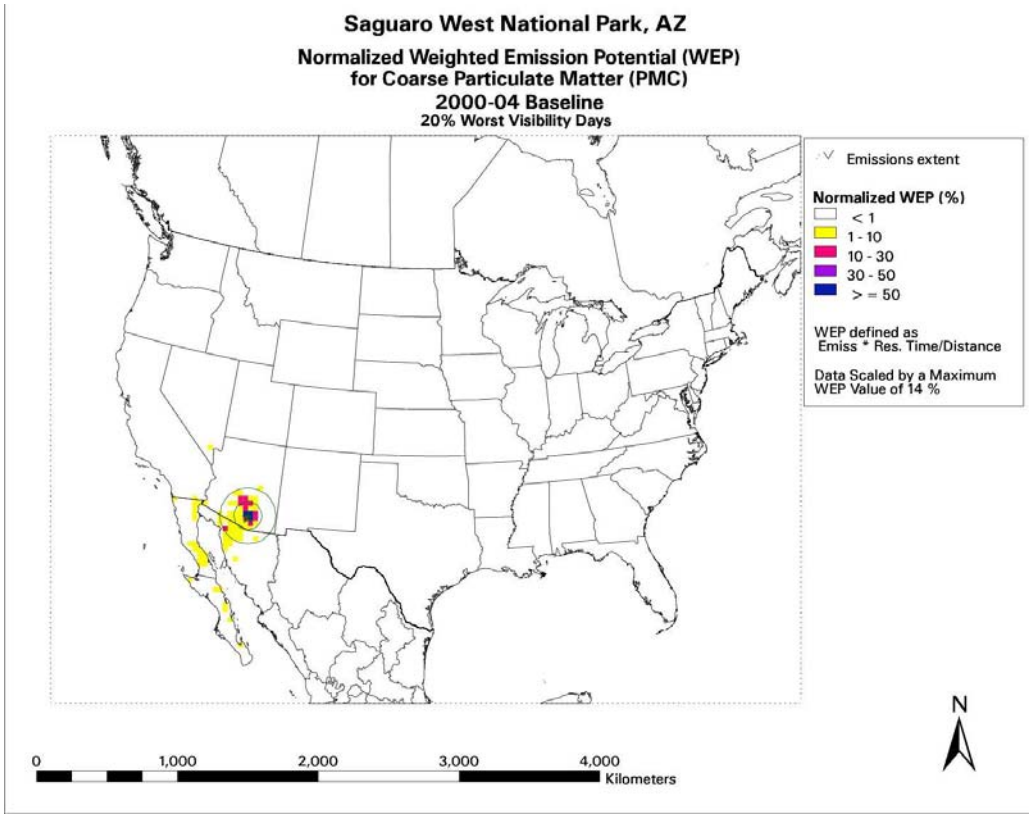


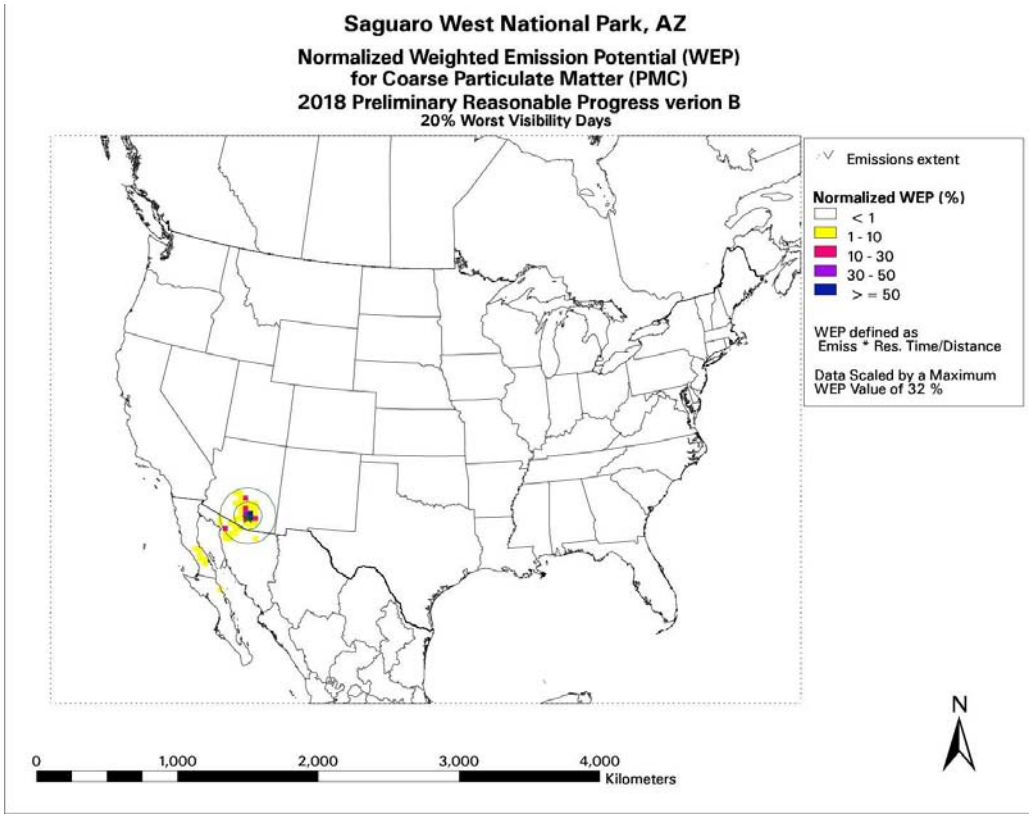
Elemental Carbon



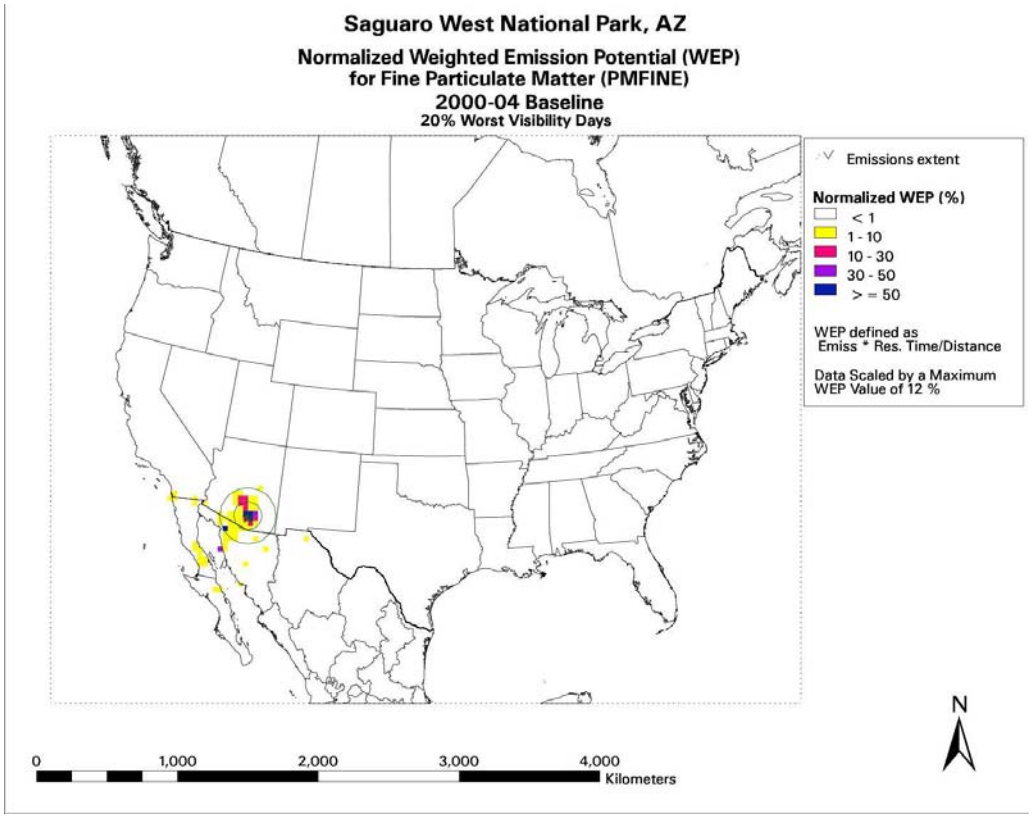


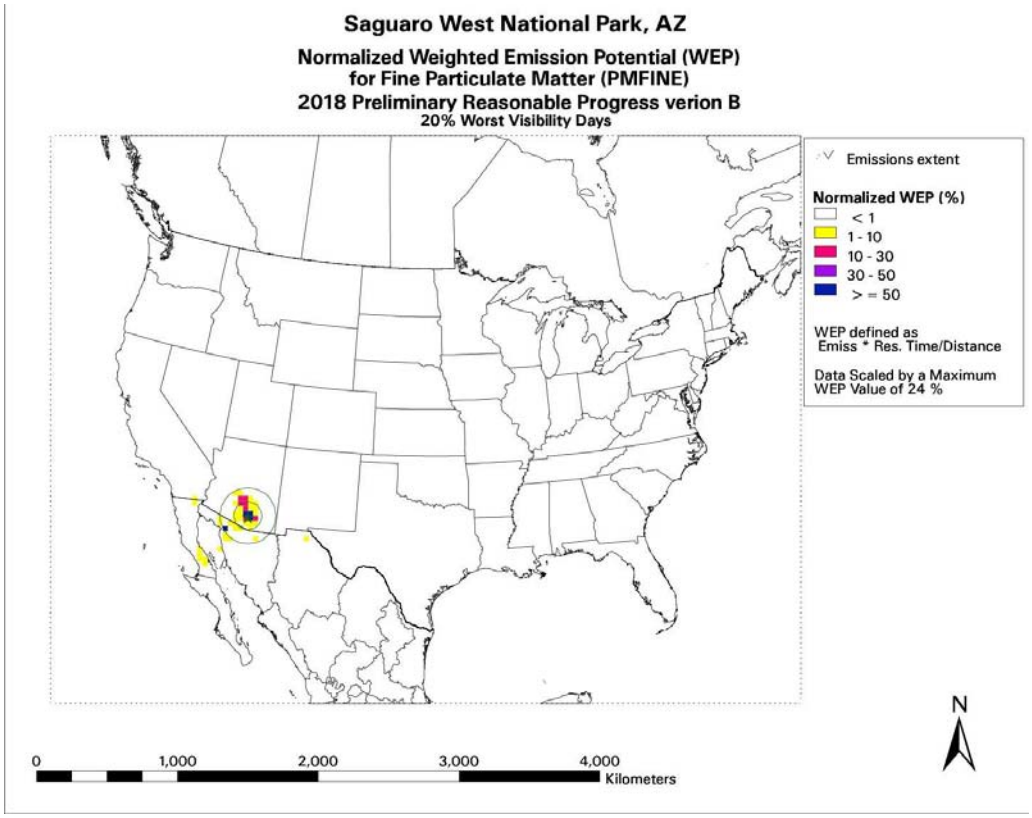
Coarse Mass


Saguaro West National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 14 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Saguaro West National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 32 %
N
0
1,000
2,000
3,000
4,000
Kilometers

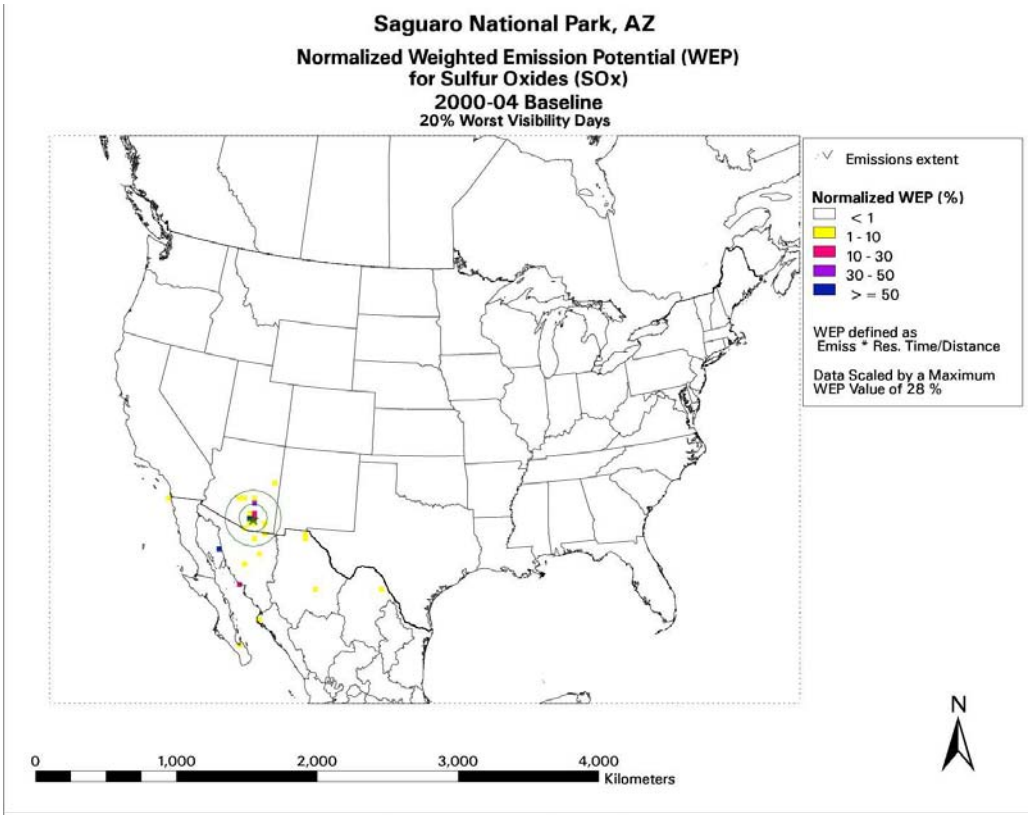
Fine Particulate Matter

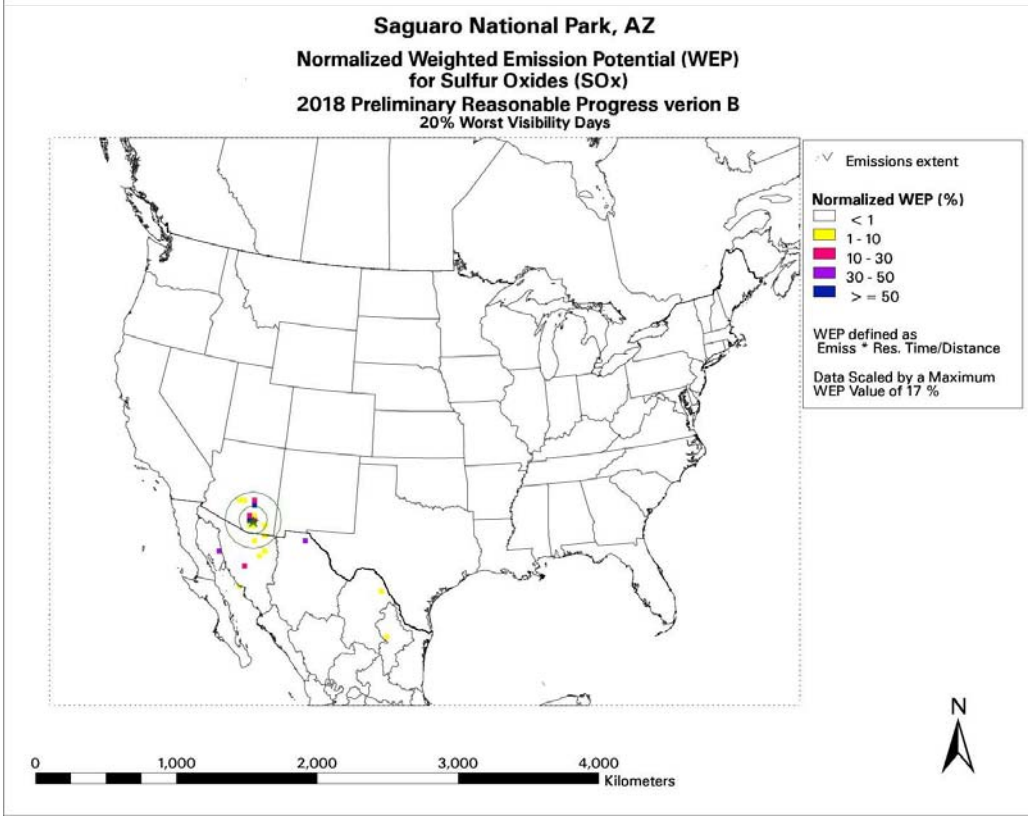




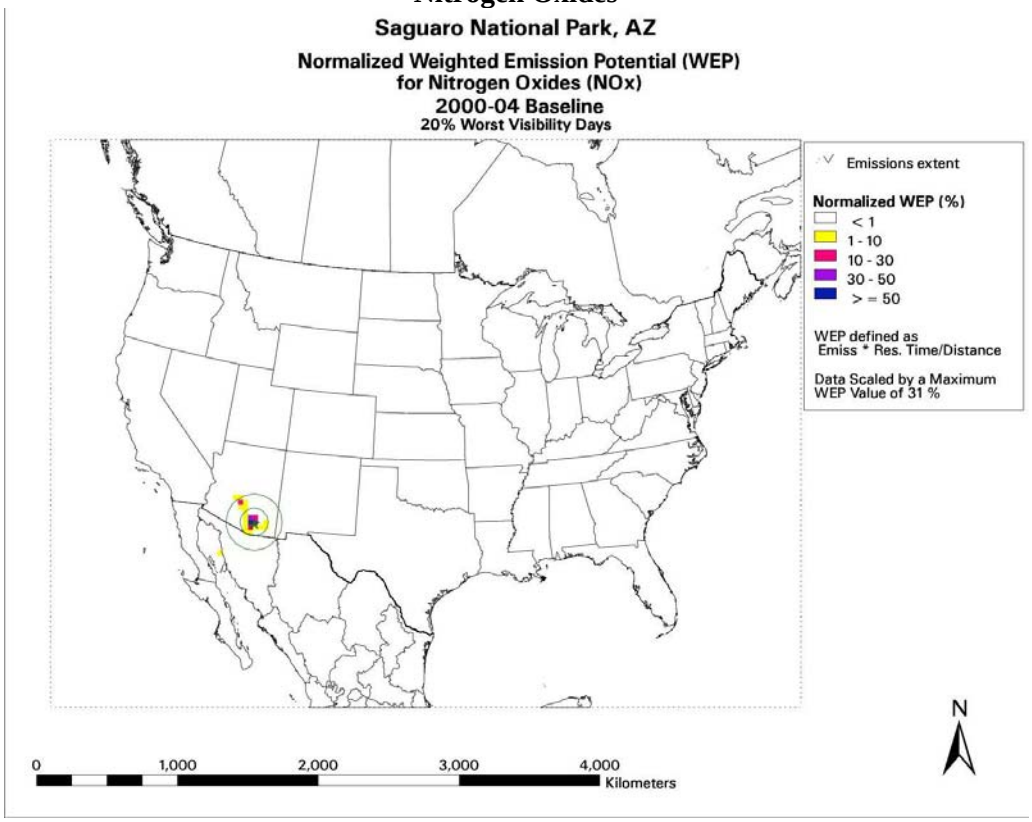
Saguaro National Park – East Unit

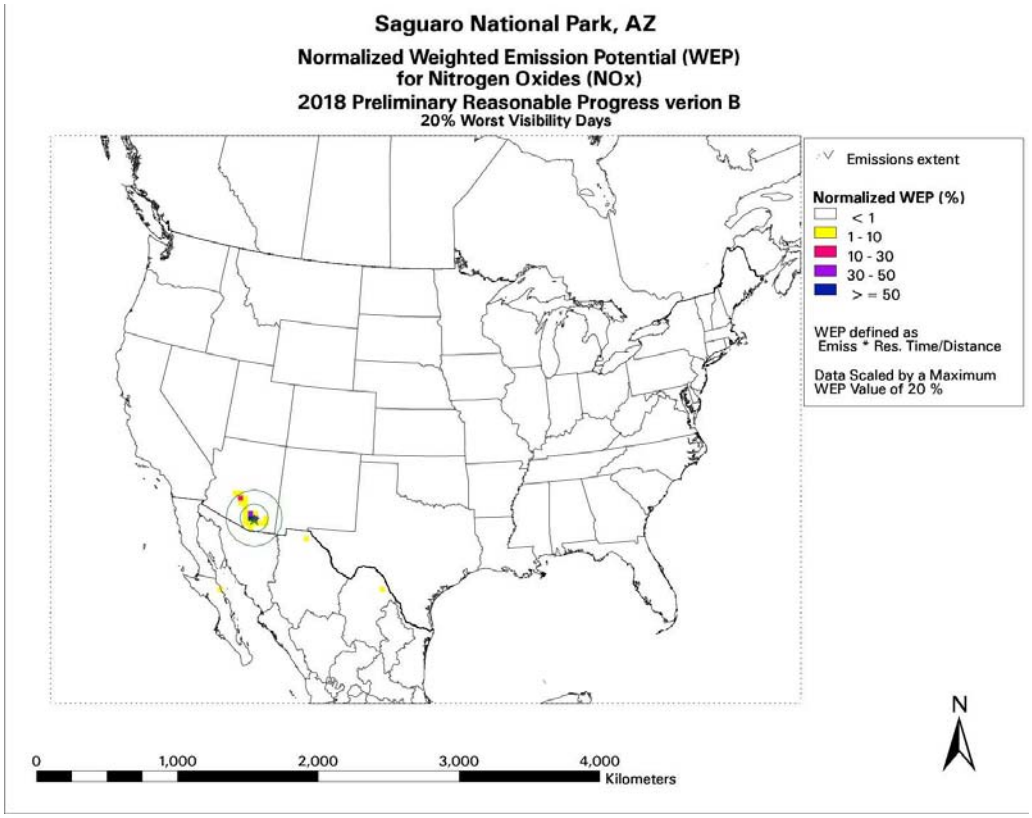
Sulfur Oxides



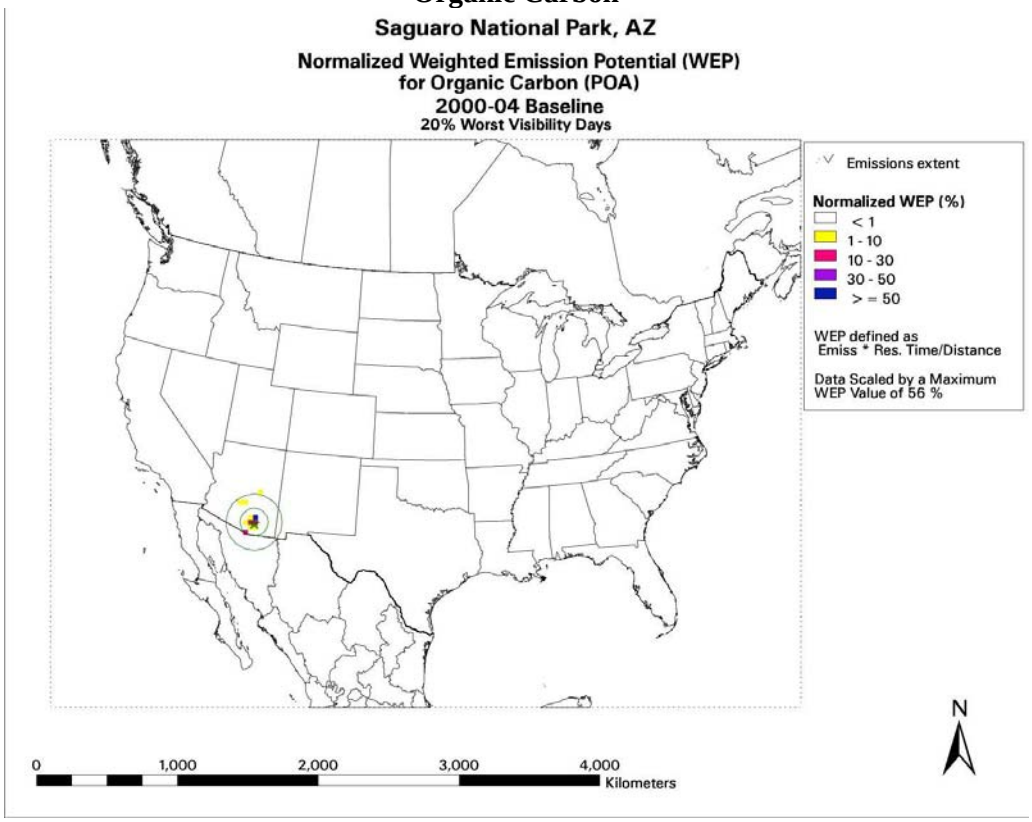


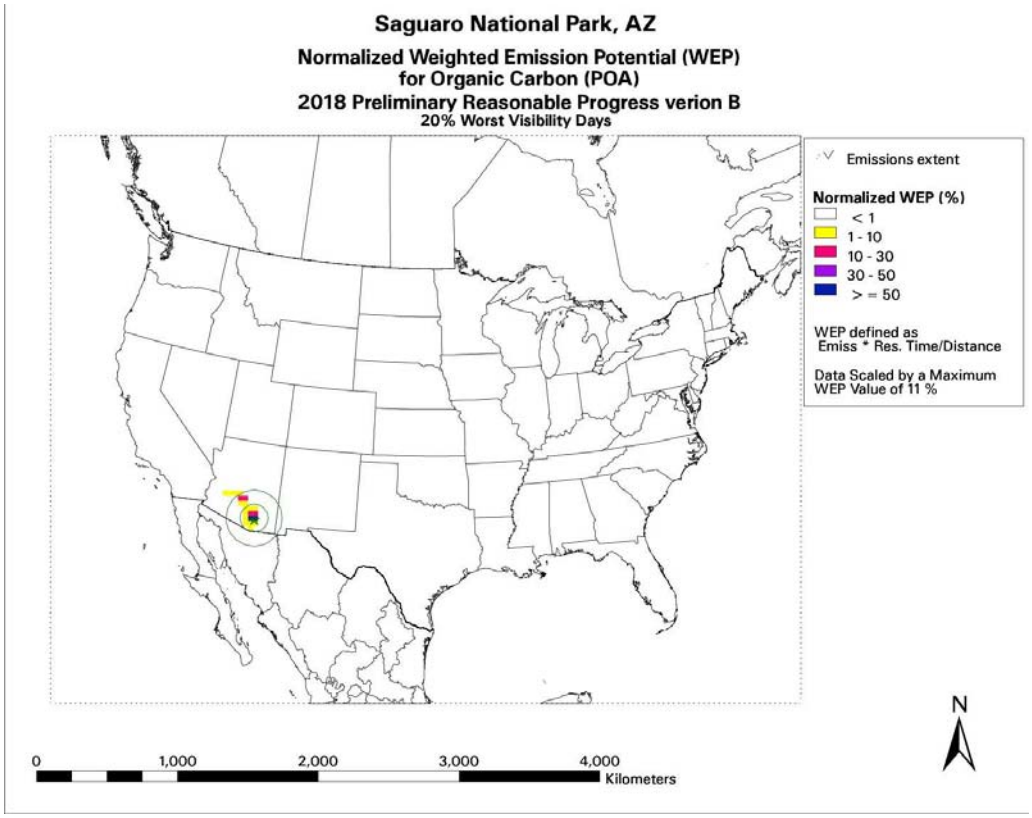
Nitrogen Oxides



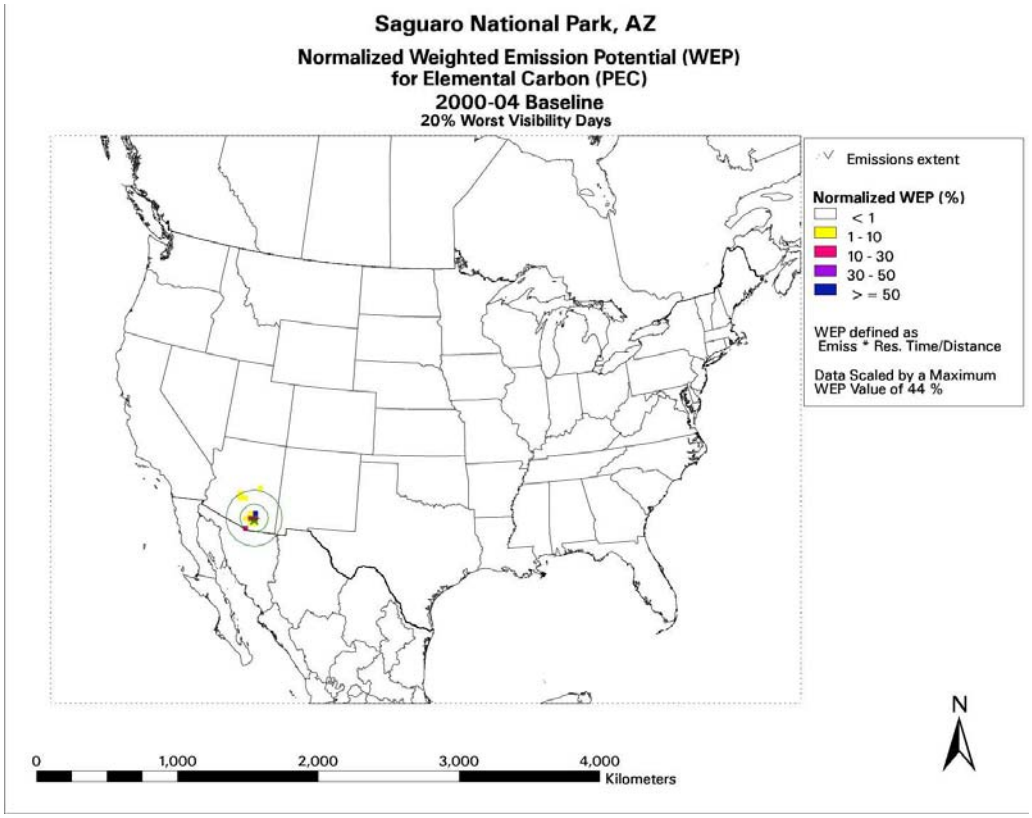


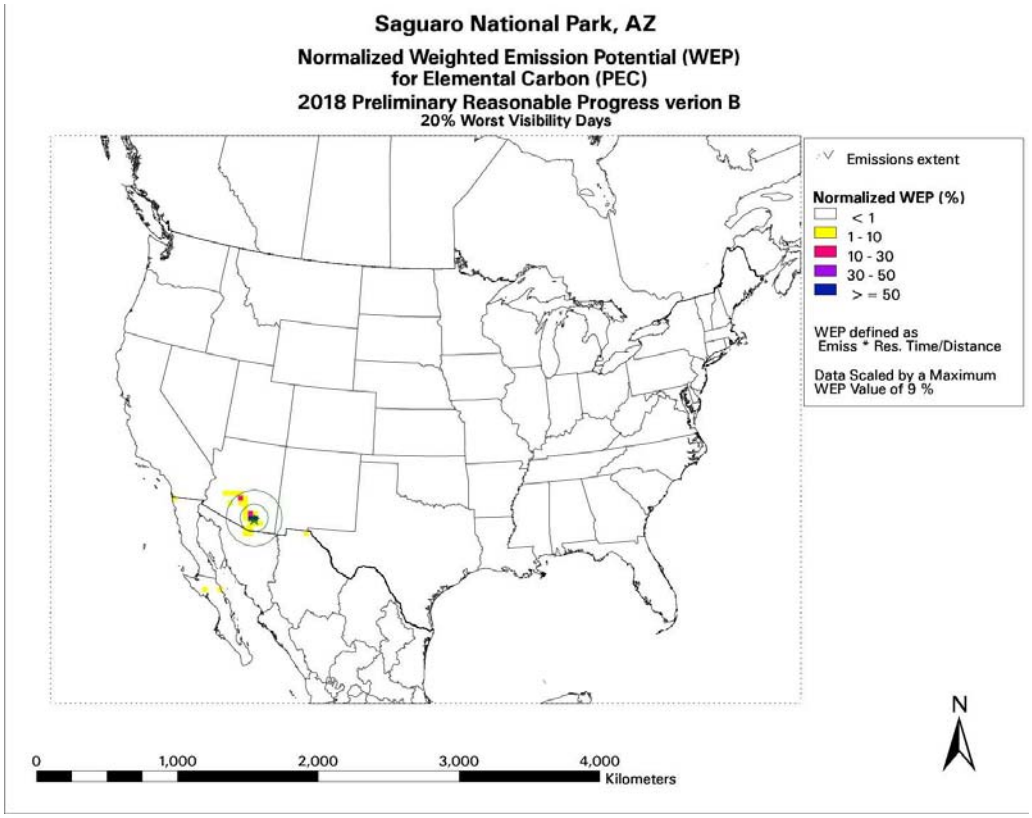
Organic Carbon



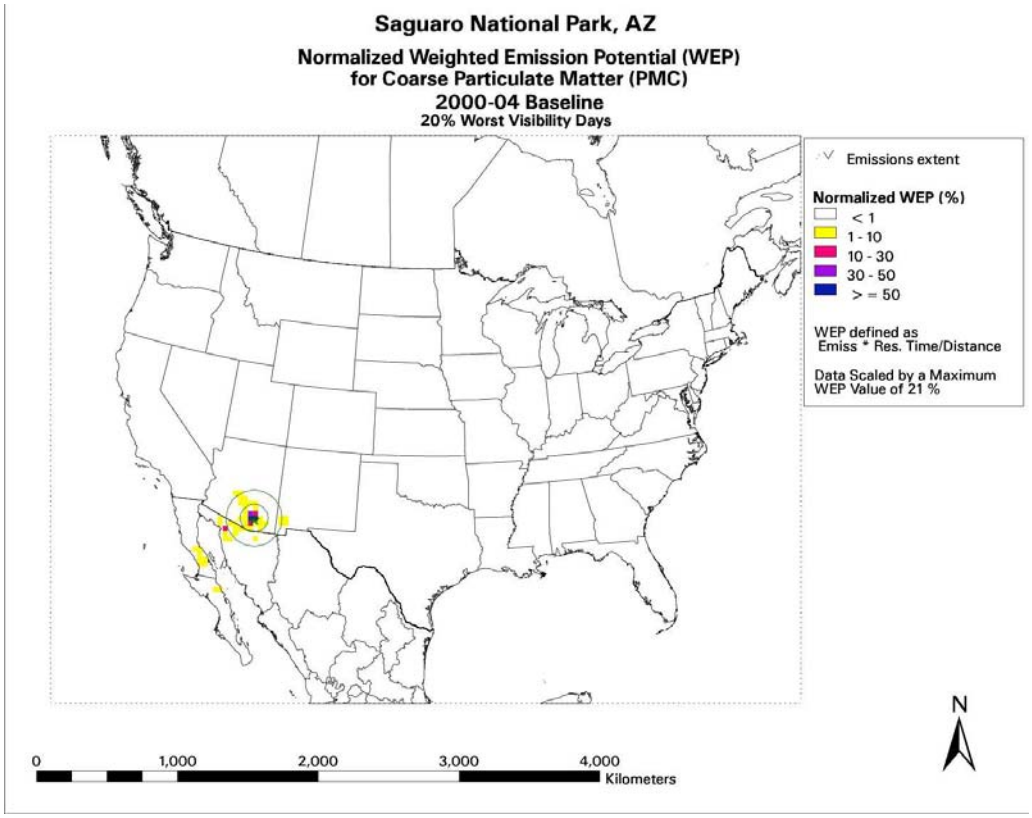


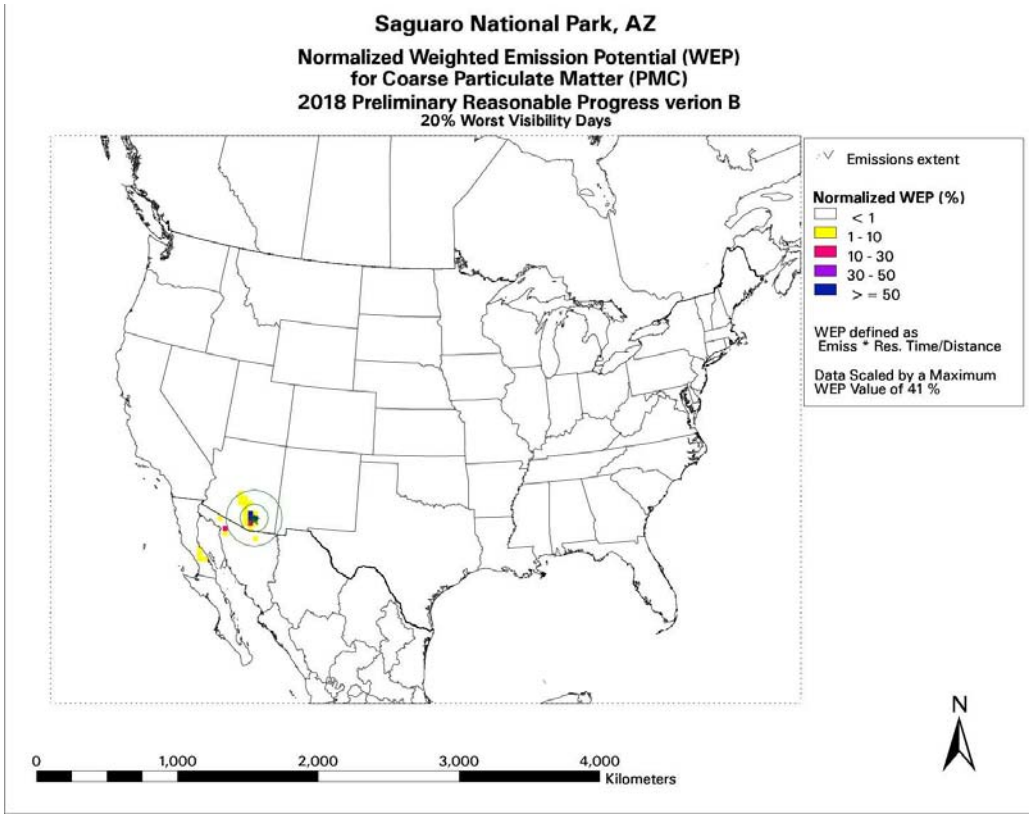
Elemental Carbon



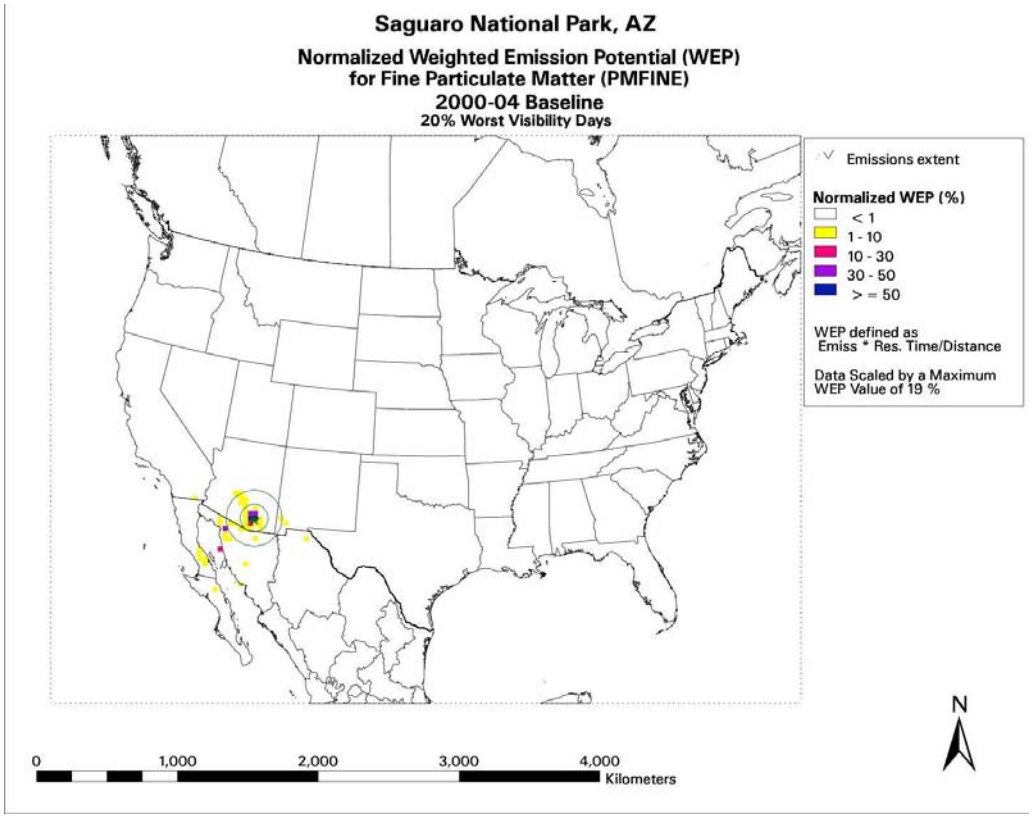


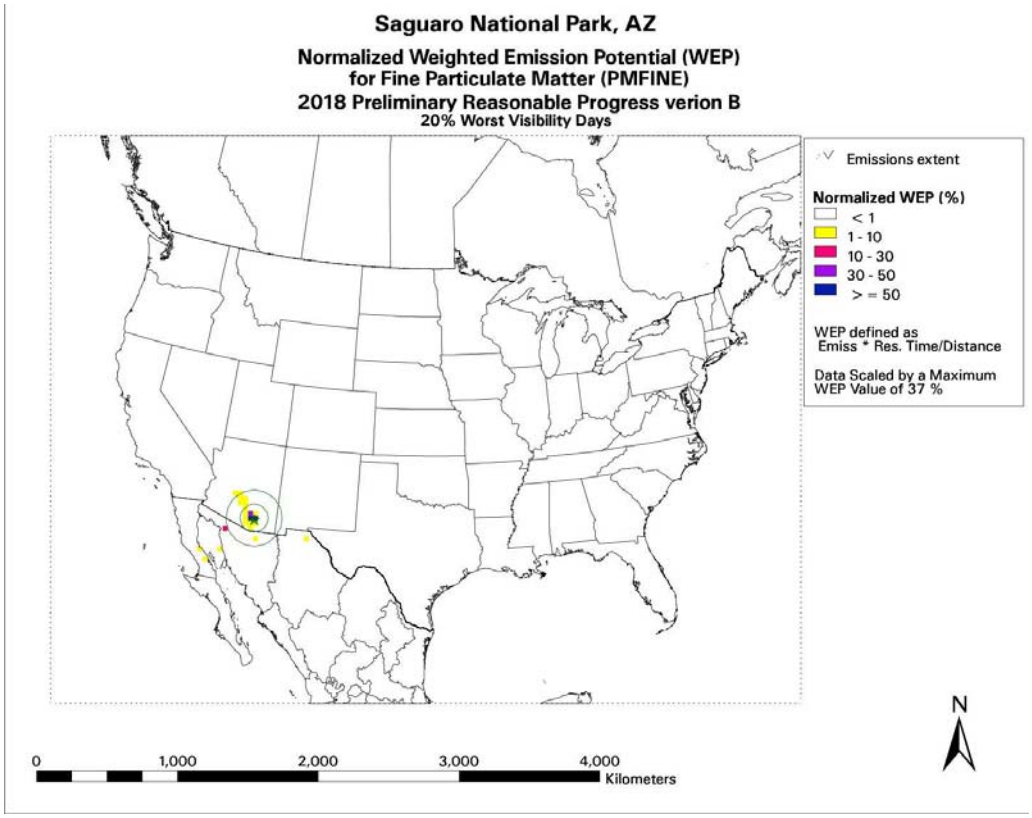
Coarse Mass


Saguaro National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 21 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Saguaro National Park, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 41 %
N
0
1,000
2,000
3,000
4,000
Kilometers

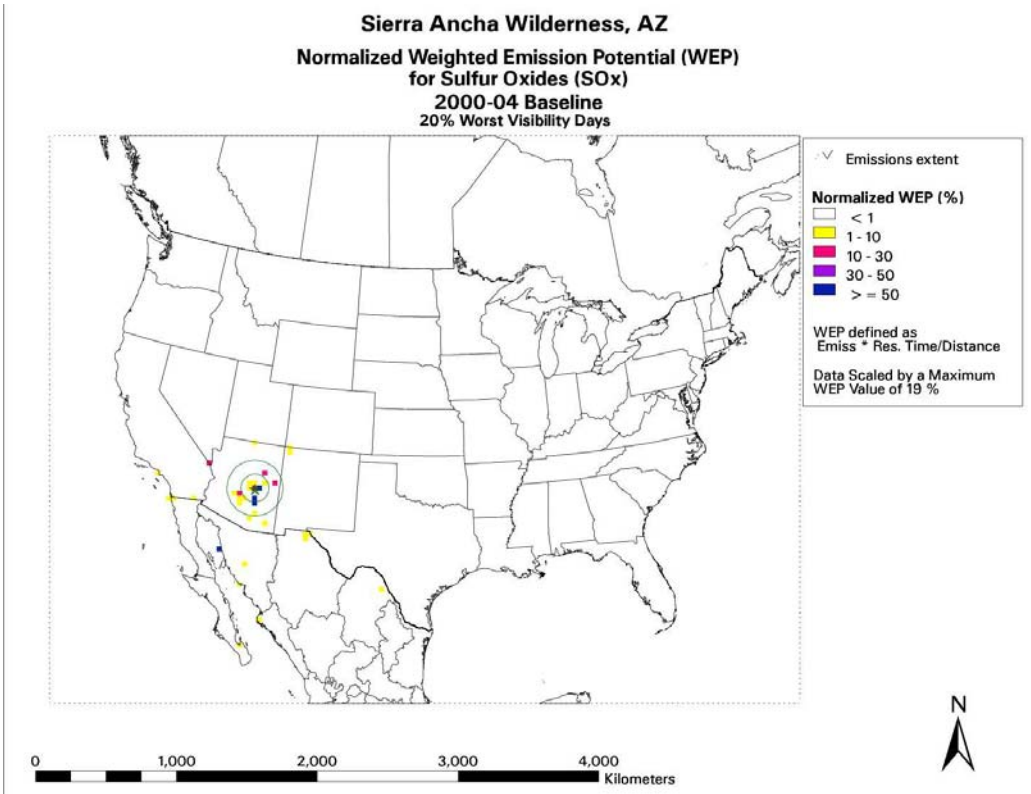
Fine Particulate Matter

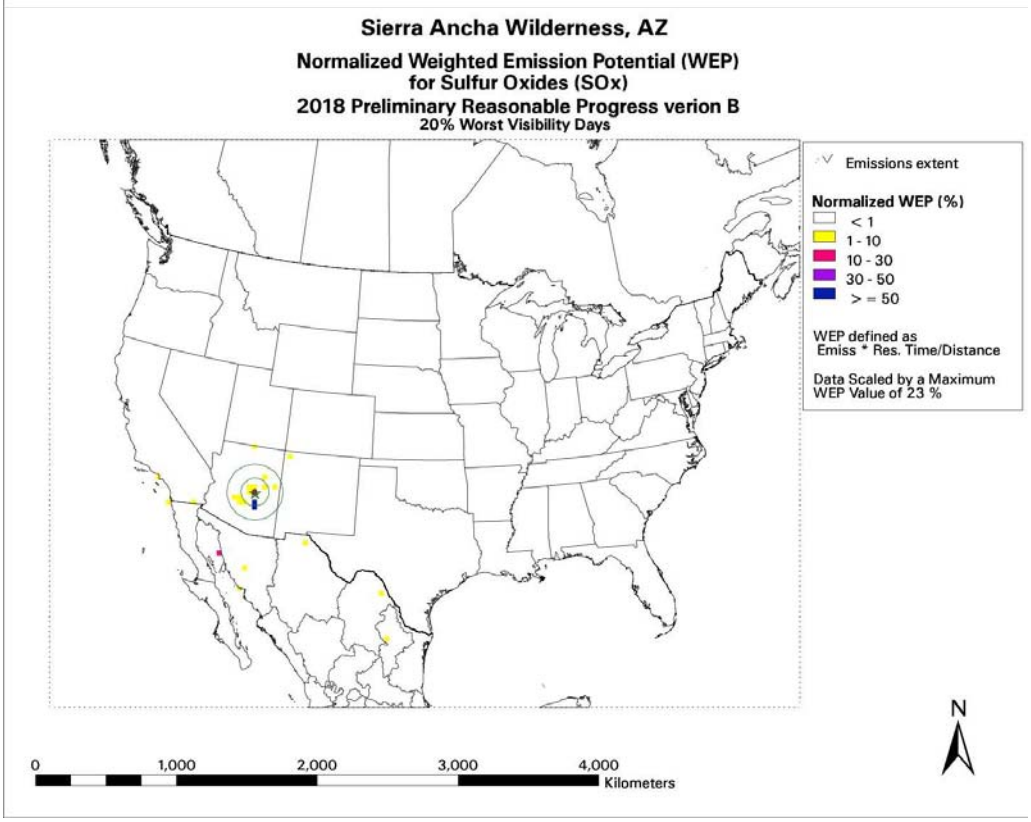




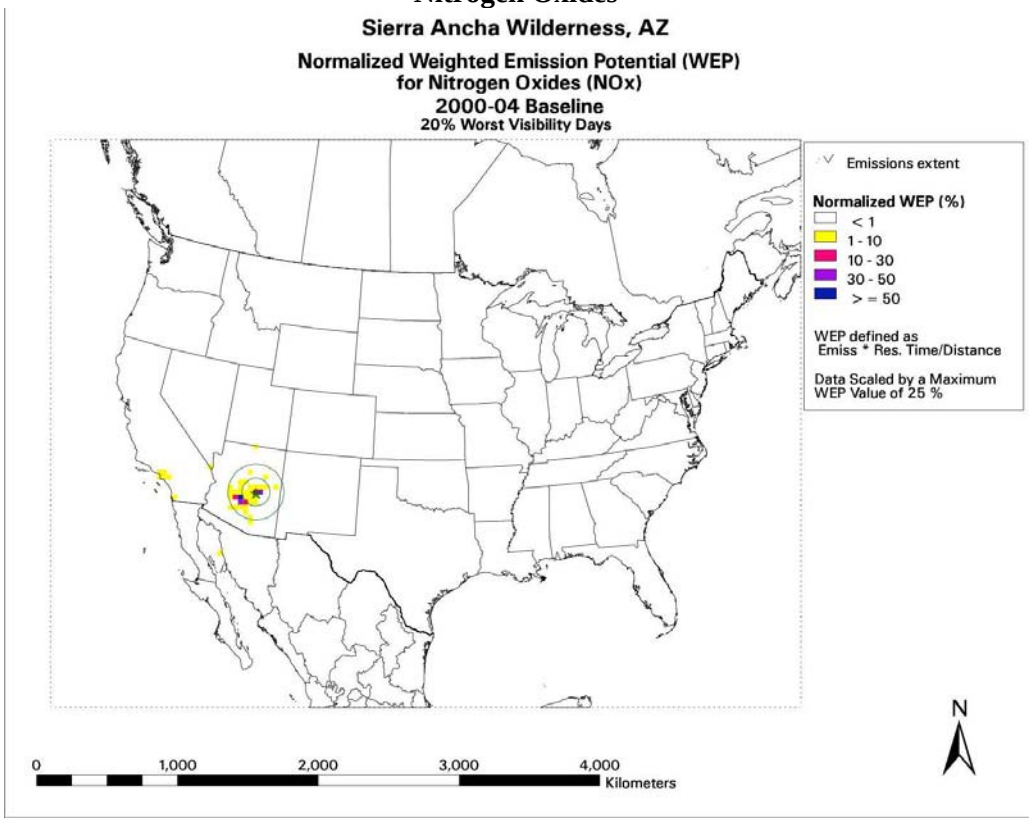
Sierra Ancha Wilderness Area

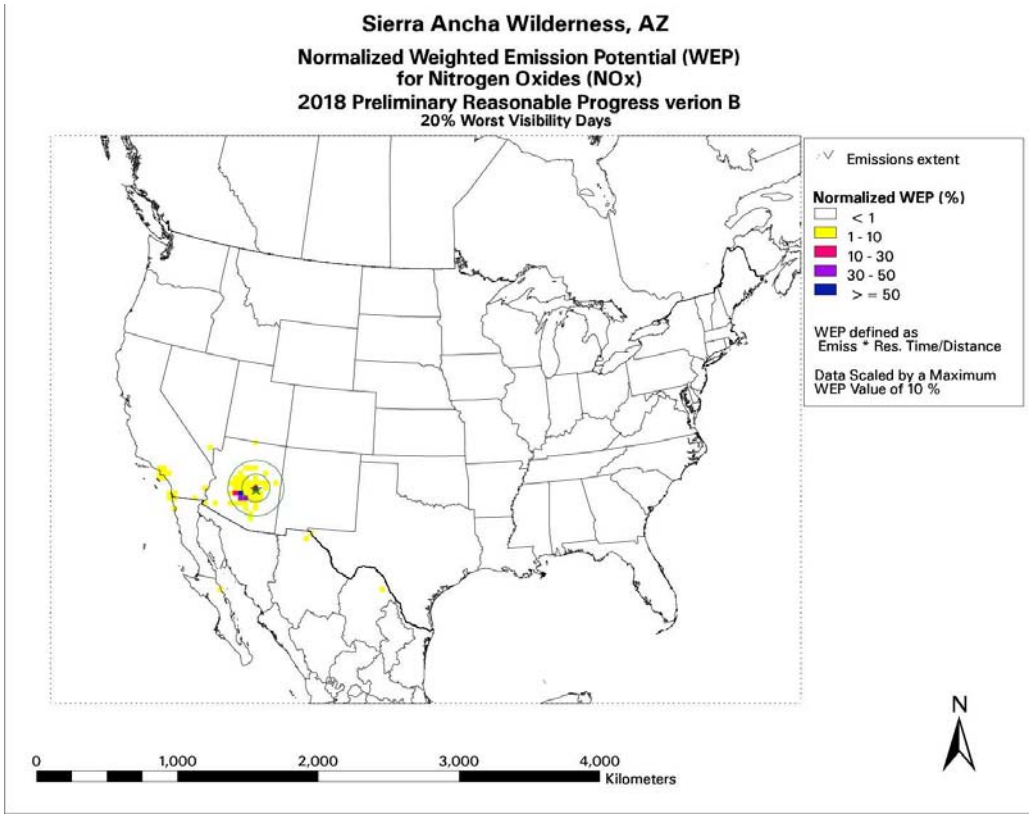
Sulfur Oxides



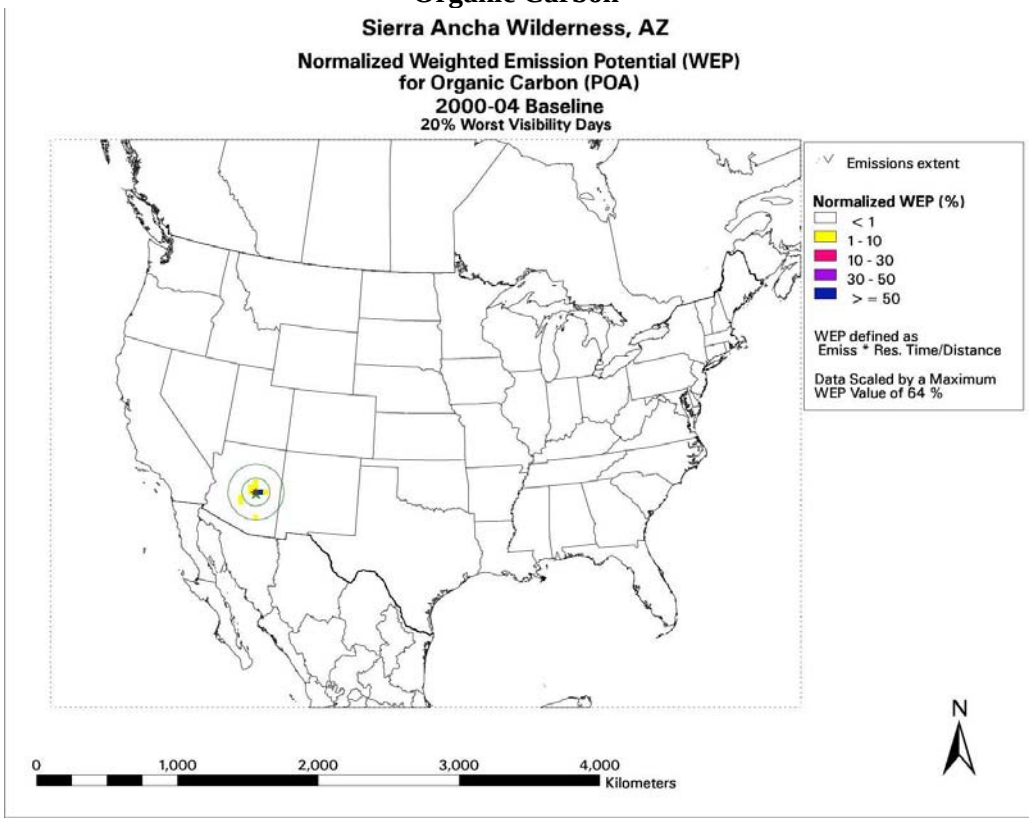


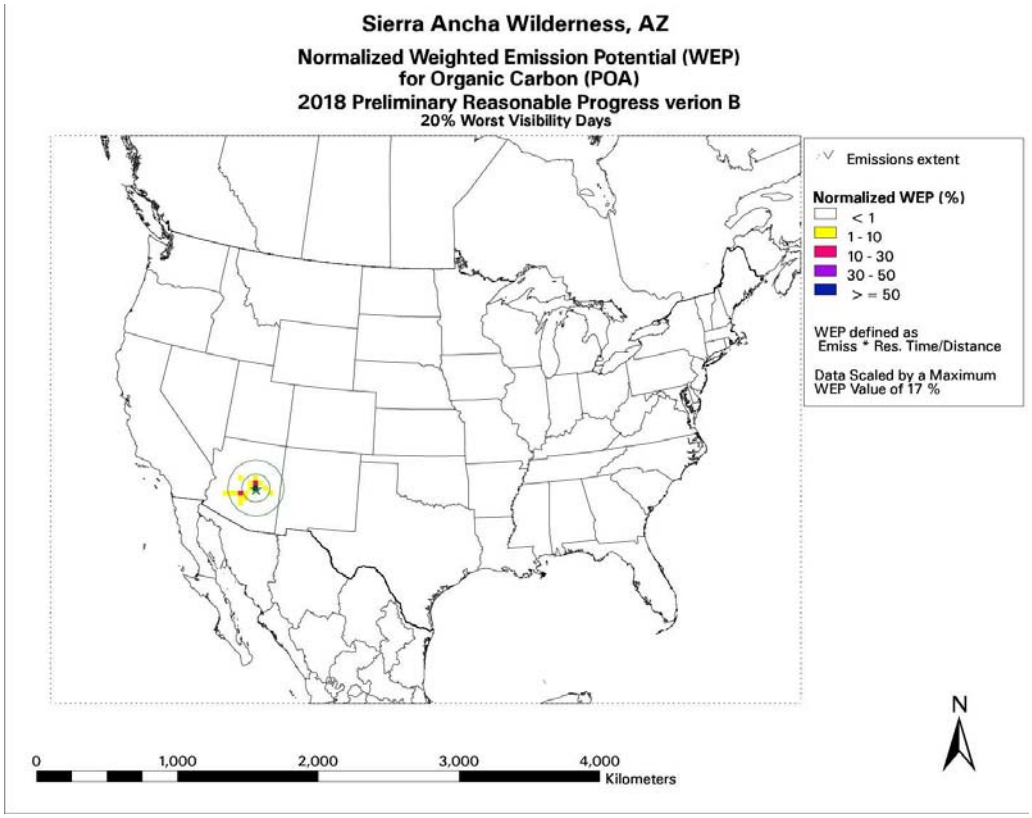
Nitrogen Oxides



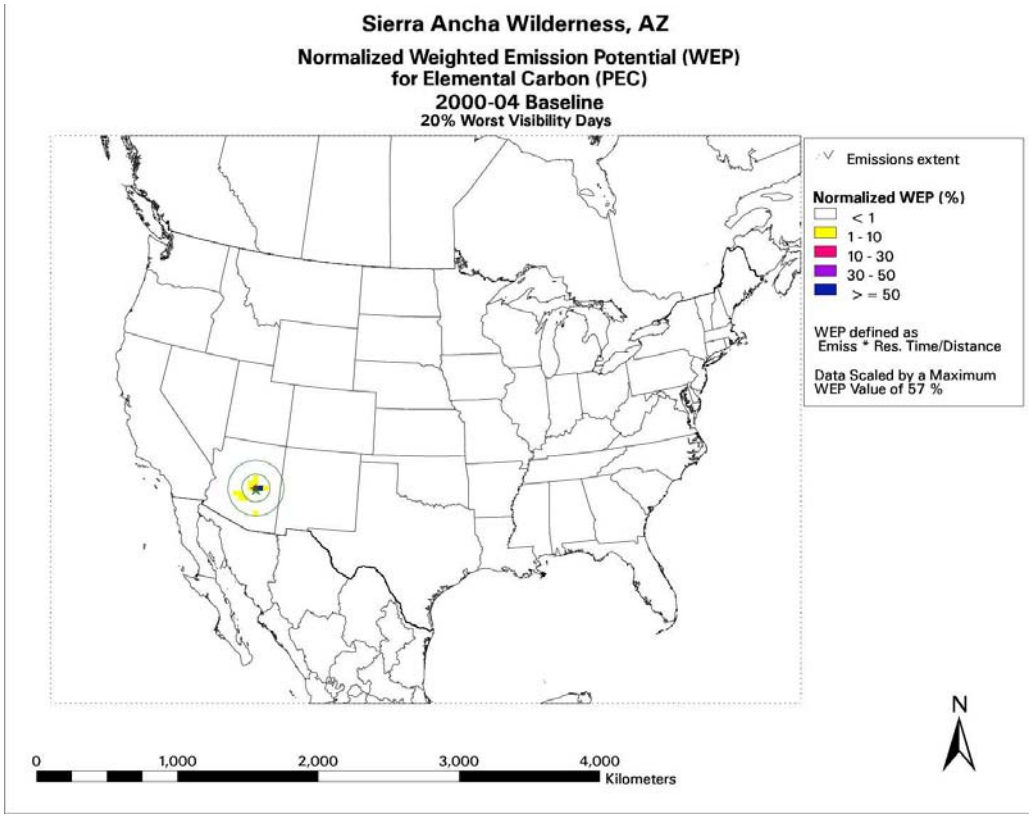


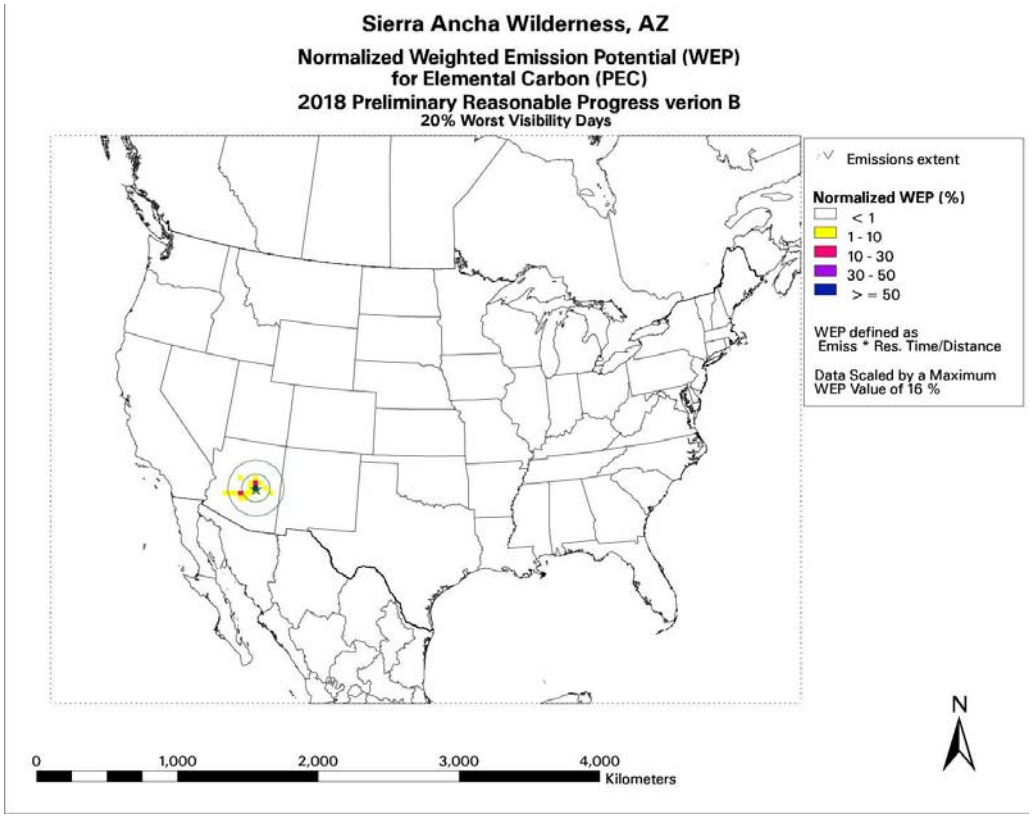
Organic Carbon



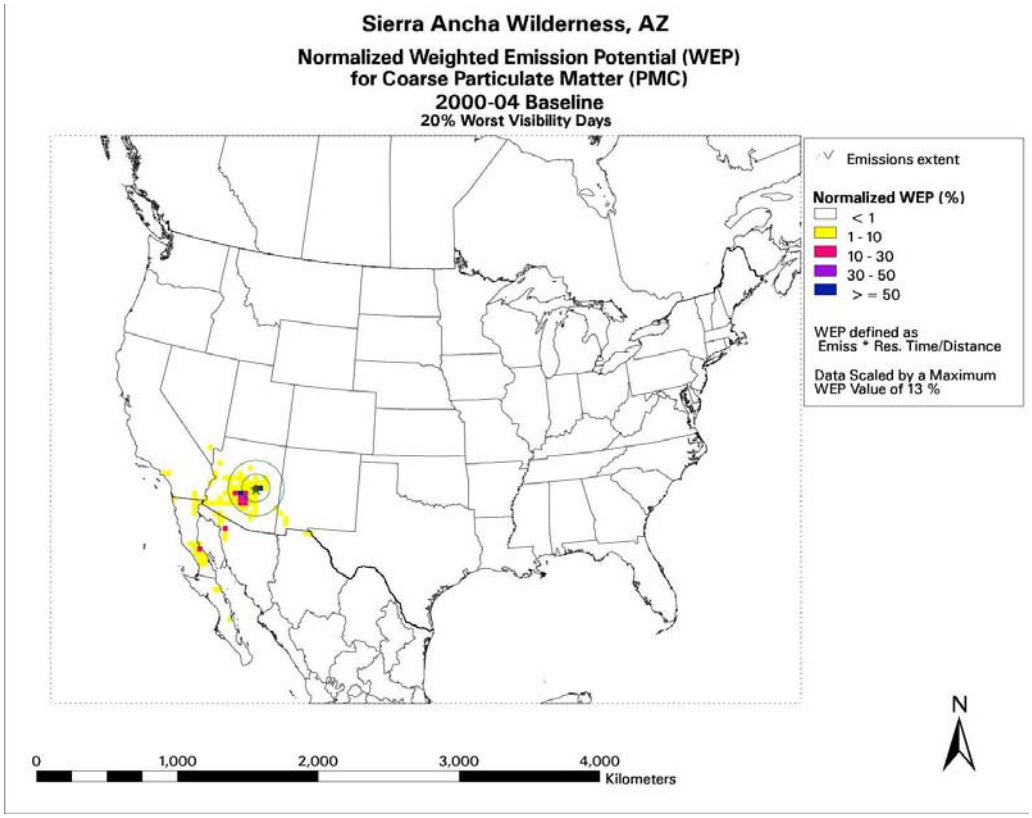


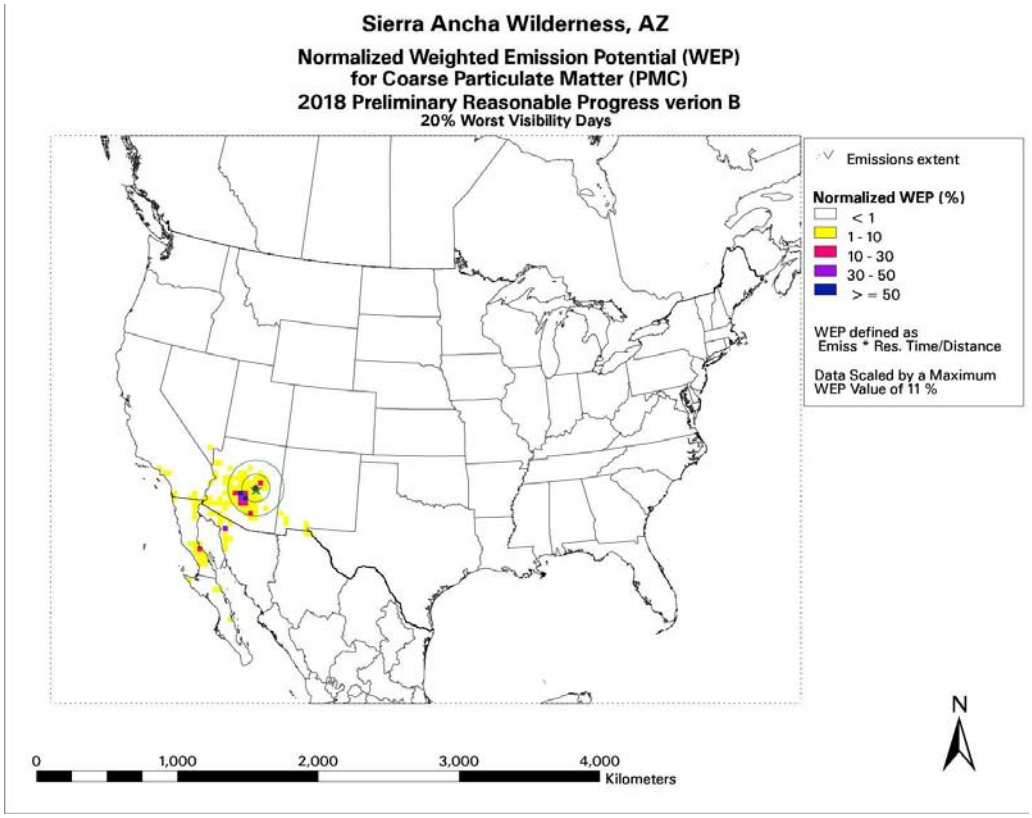
Elemental Carbon



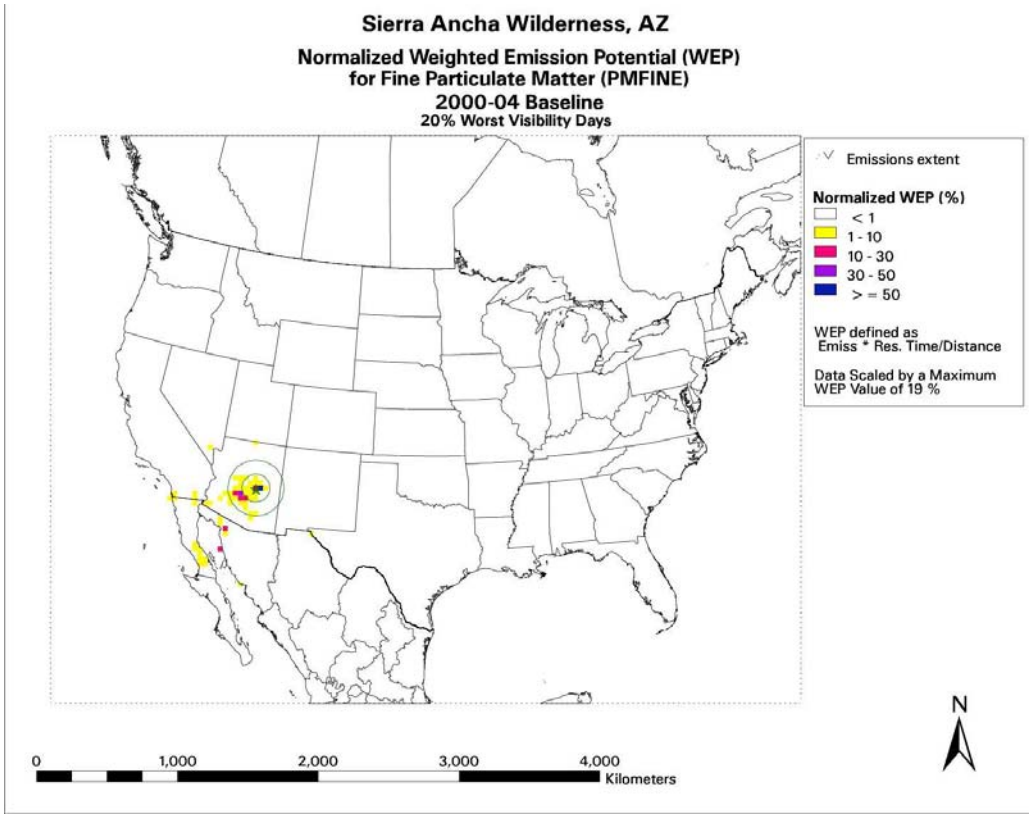


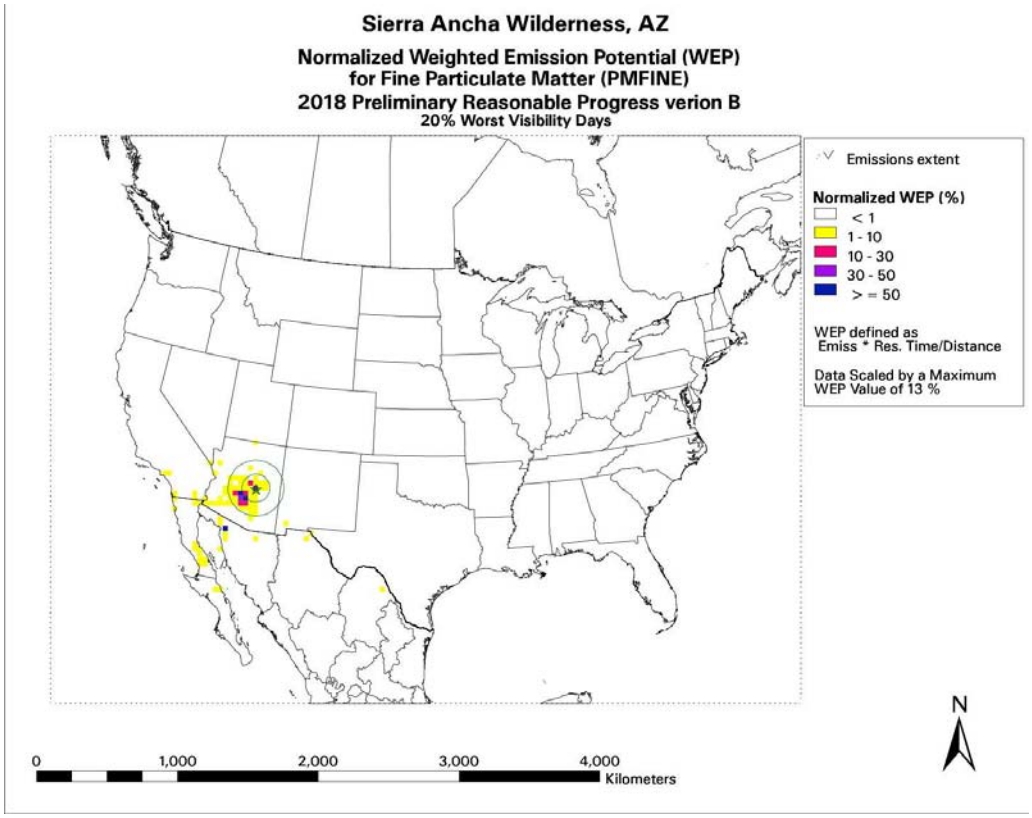
Coarse Mass


Sierra Ancha Wilderness, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 13 %
N
0
1,000
2,000
3,000
4,000
Kilometers

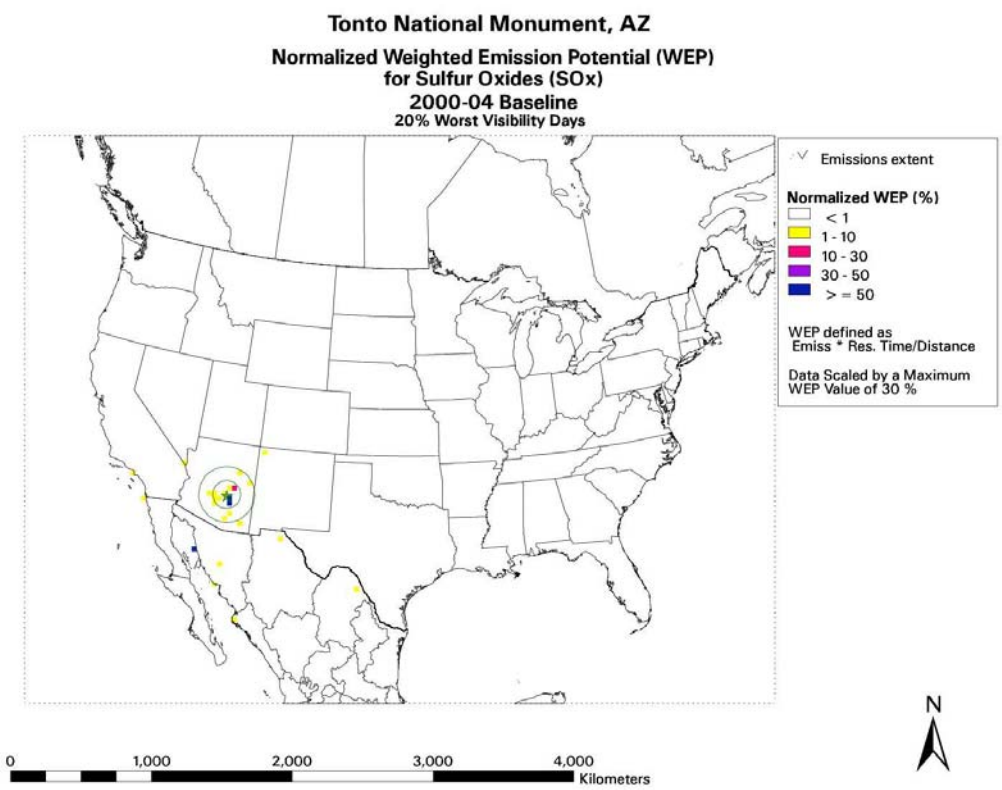

Sierra Ancha Wilderness, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 11 %
N
0
1,000
2,000
3,000
4,000
Kilometers

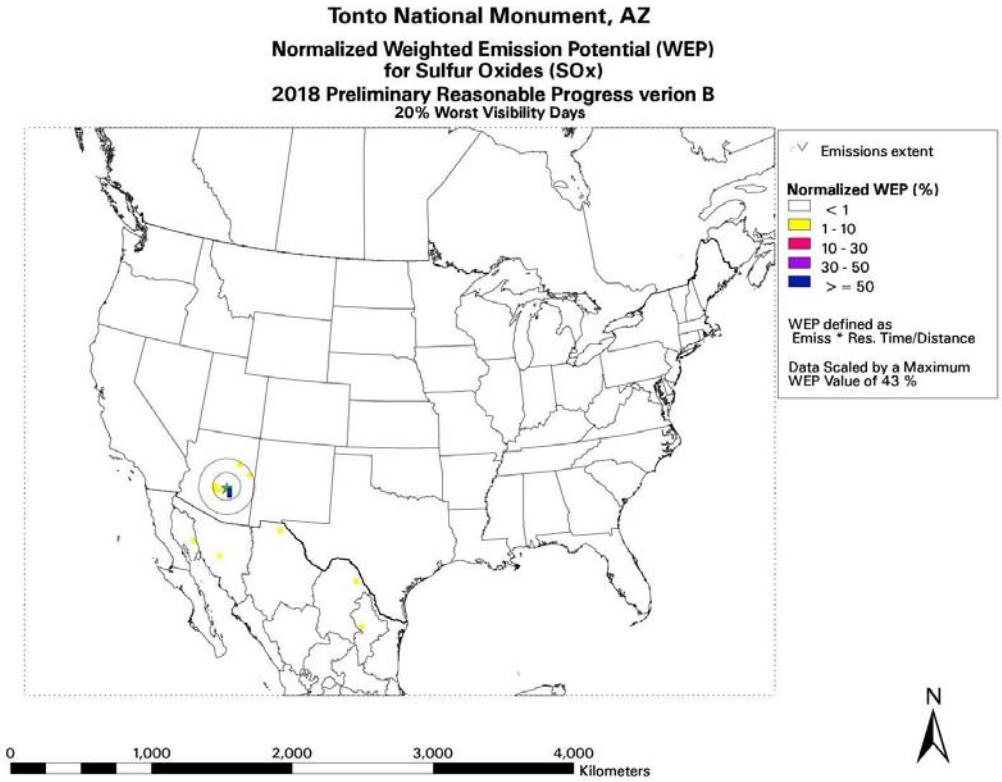
Fine Particulate Matter



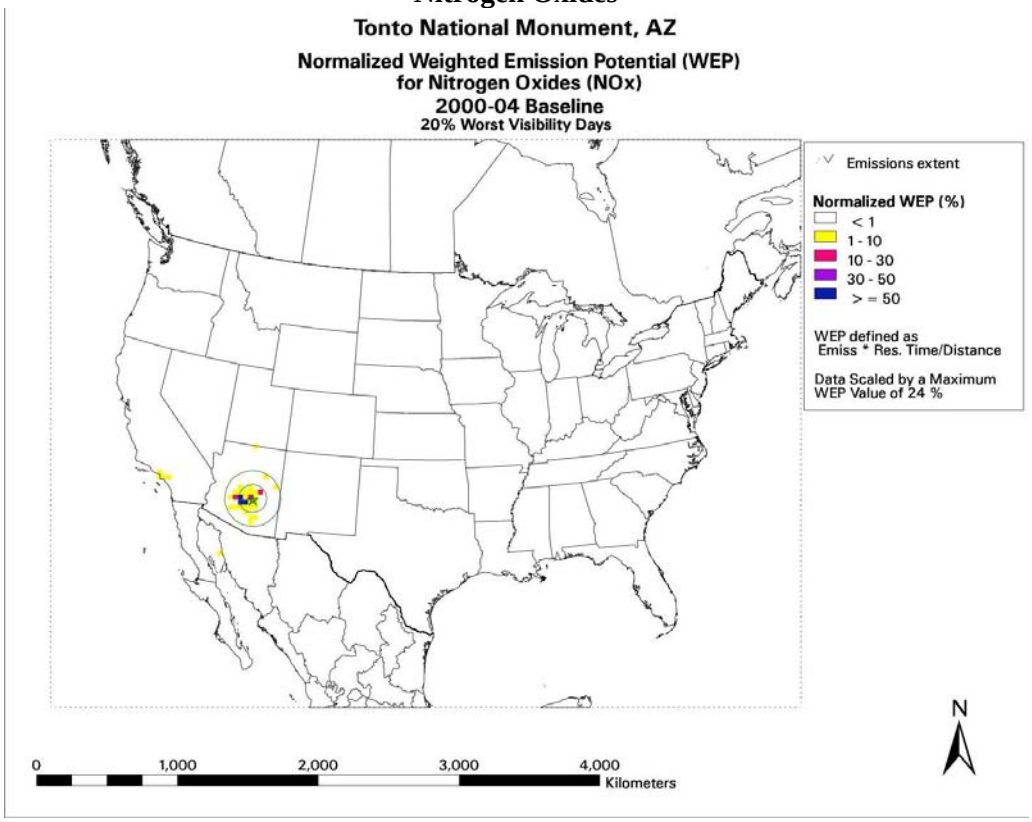


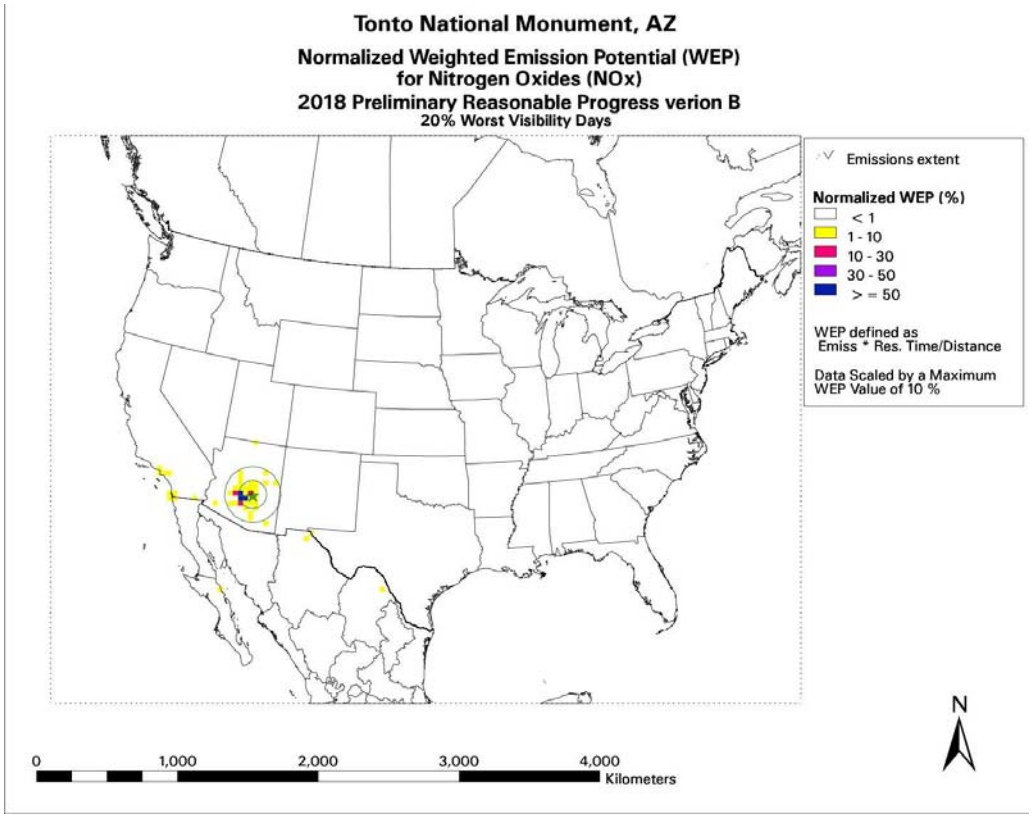
Superstition Wilderness Area
Sulfur Oxides



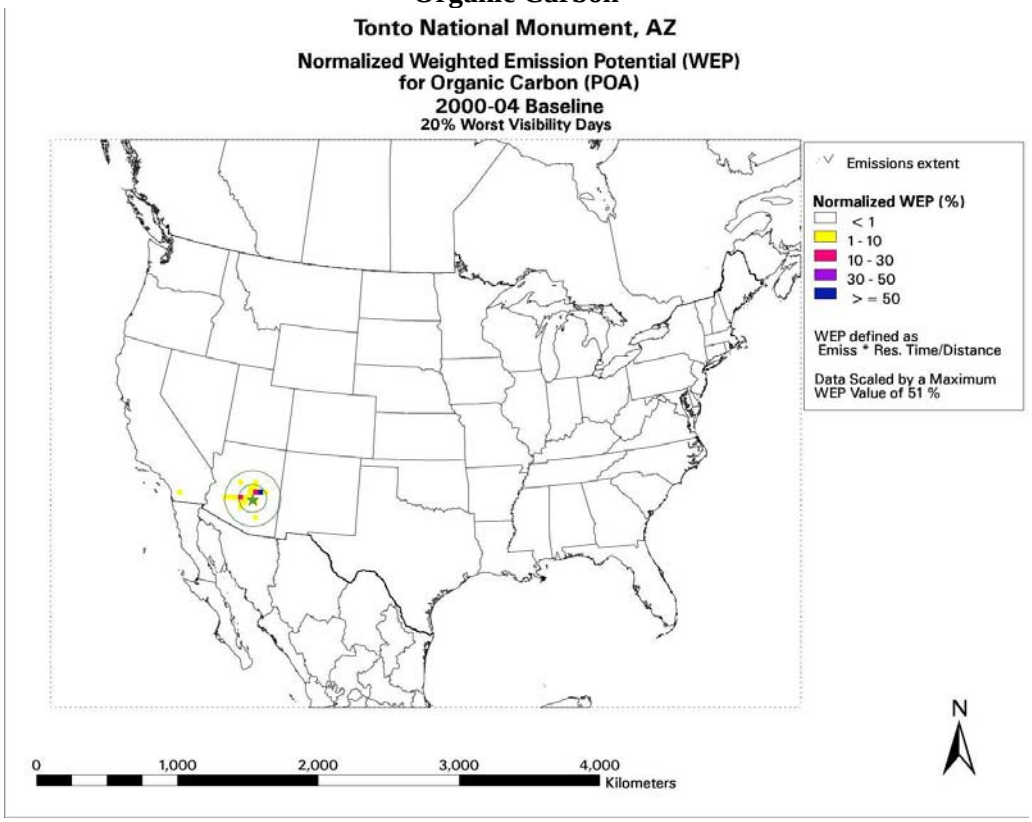


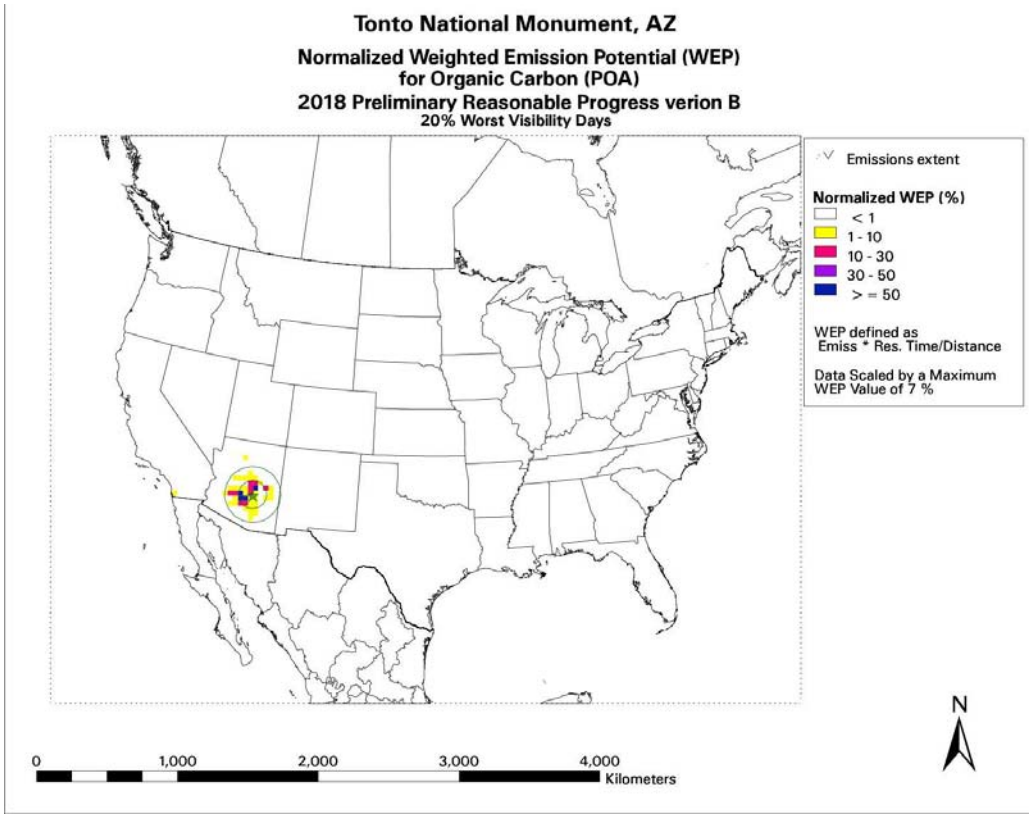
Nitrogen Oxides



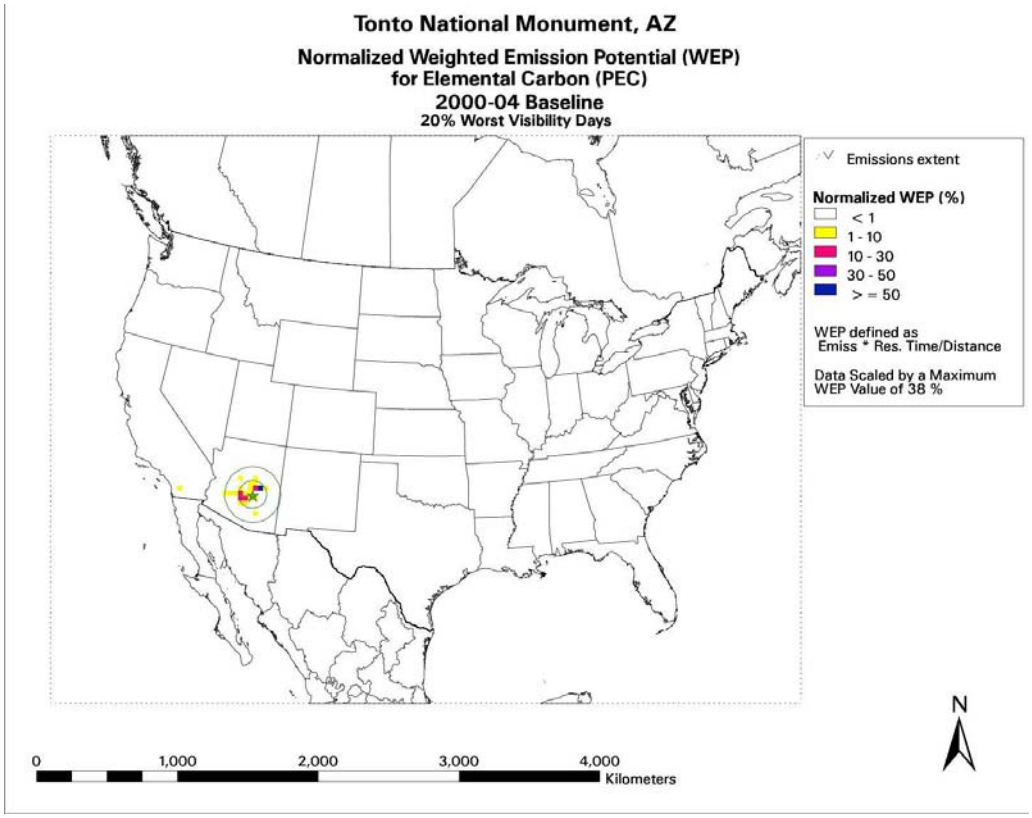


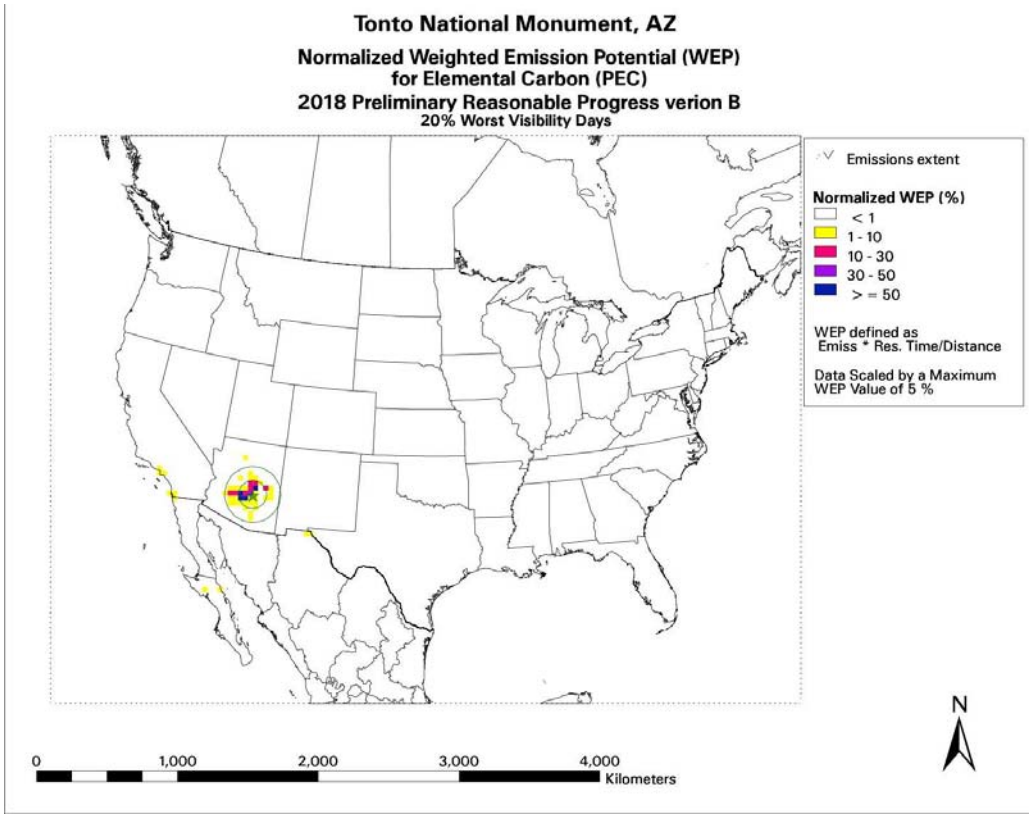
Organic Carbon



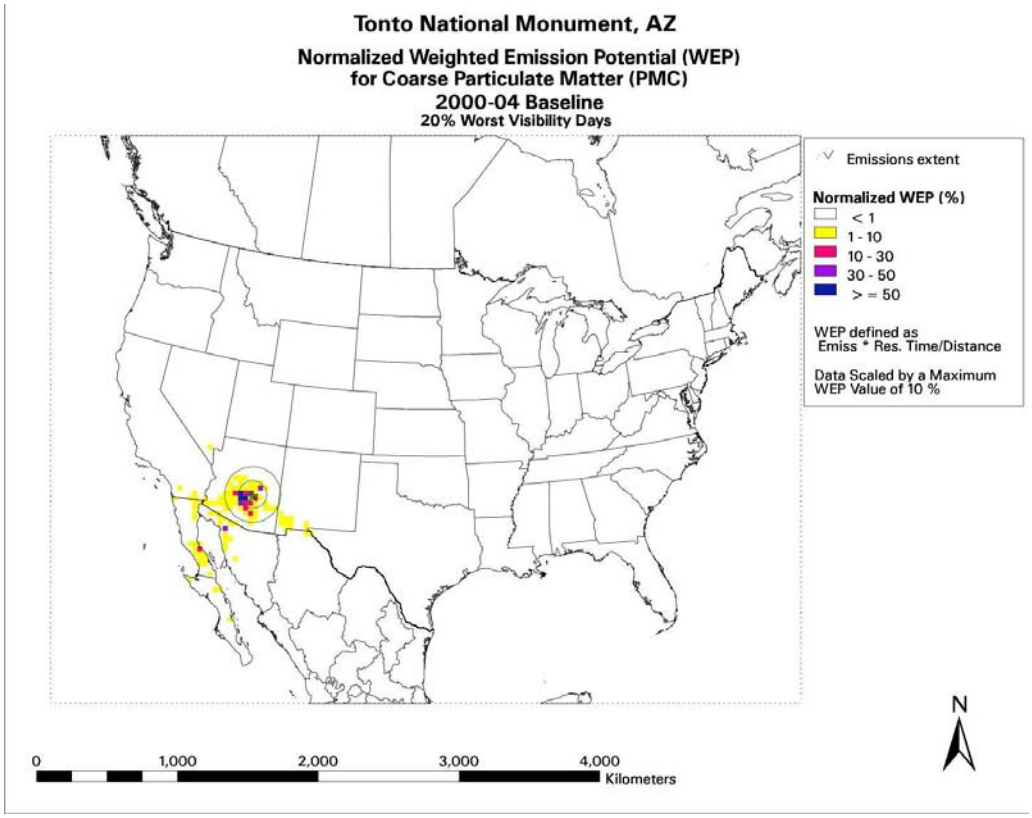


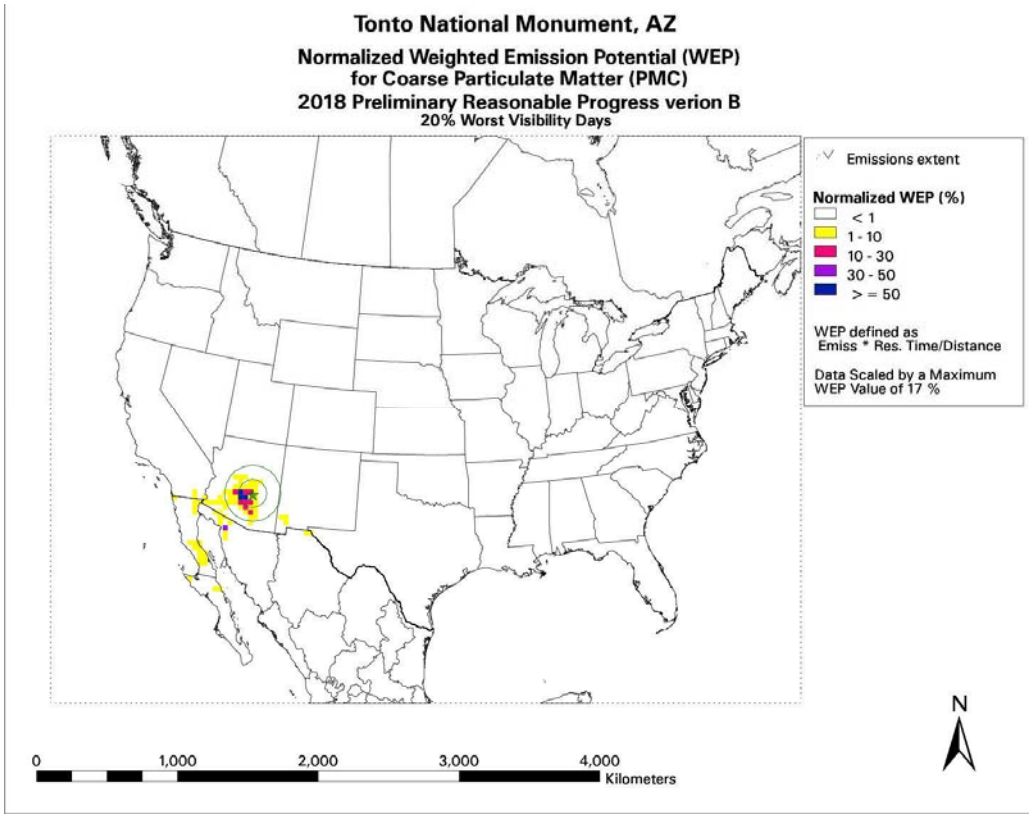
Elemental Carbon



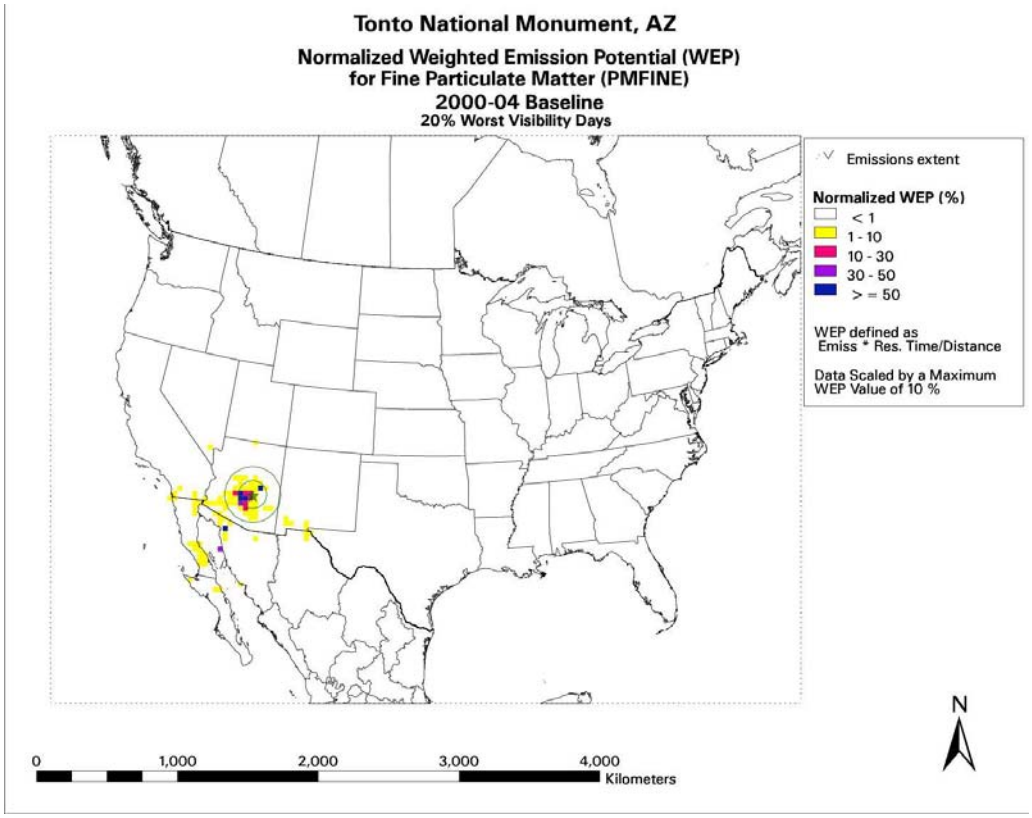


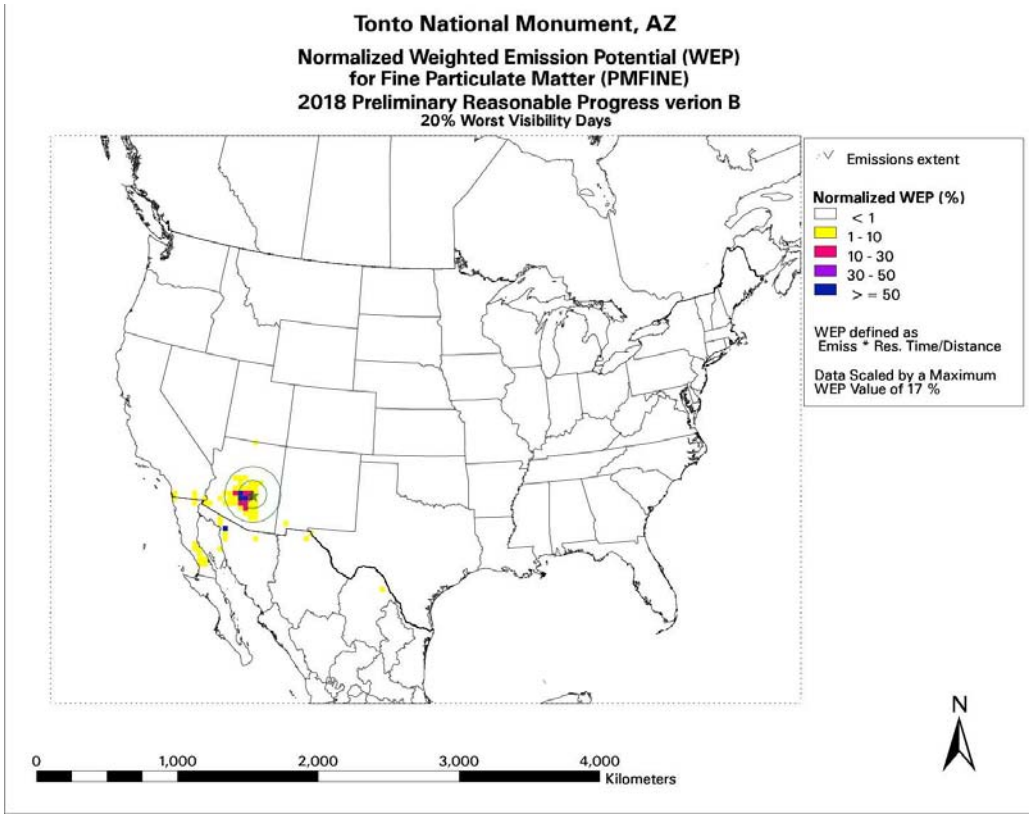
Coarse Mass


Tonto National Monument, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 10 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Tonto National Monument, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 17 %
N
0
1,000
2,000
3,000
4,000
Kilometers

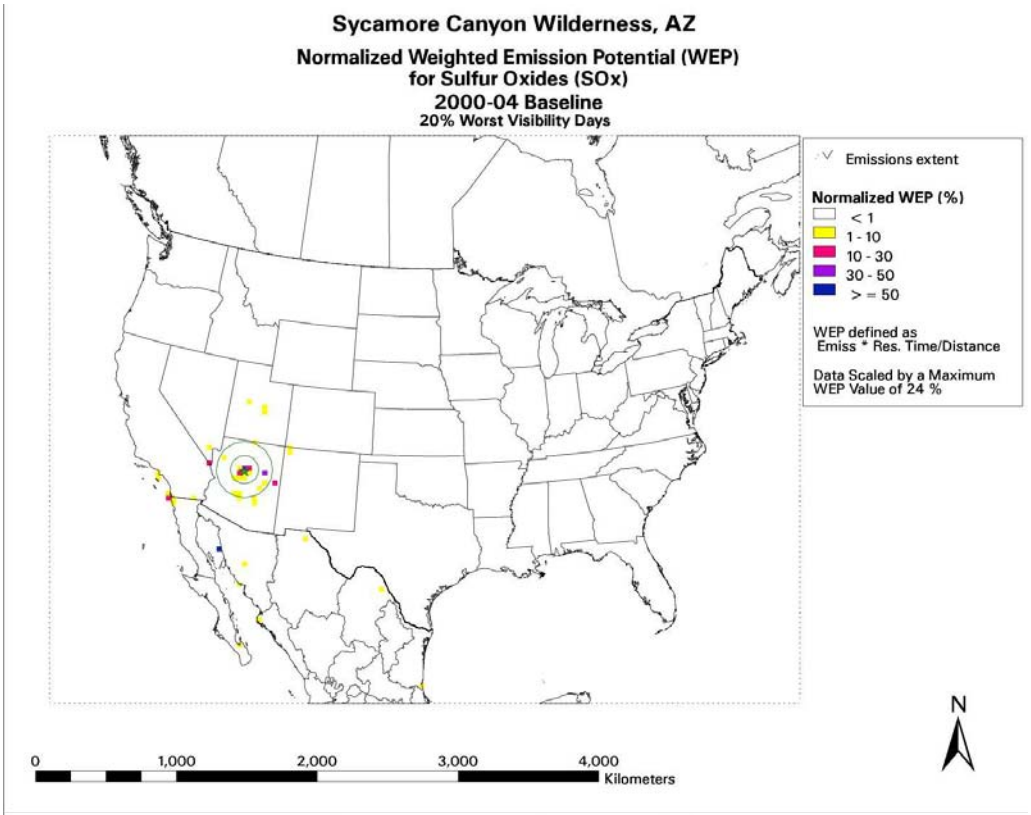
Fine Particulate Matter

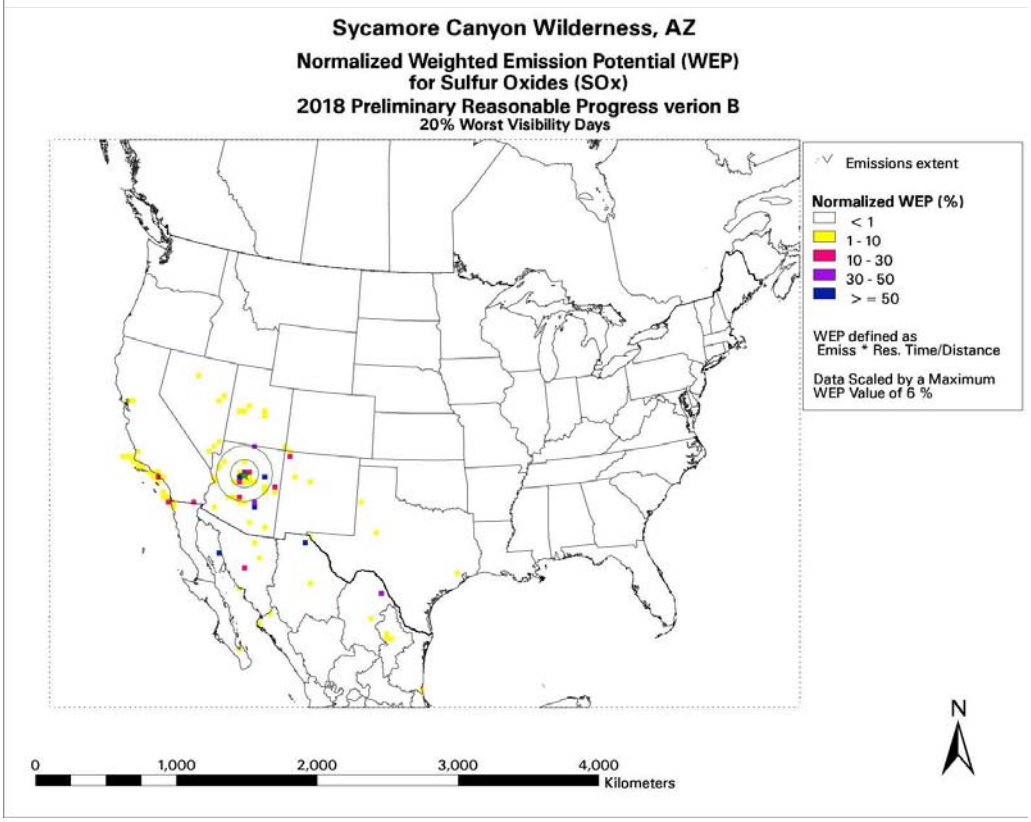




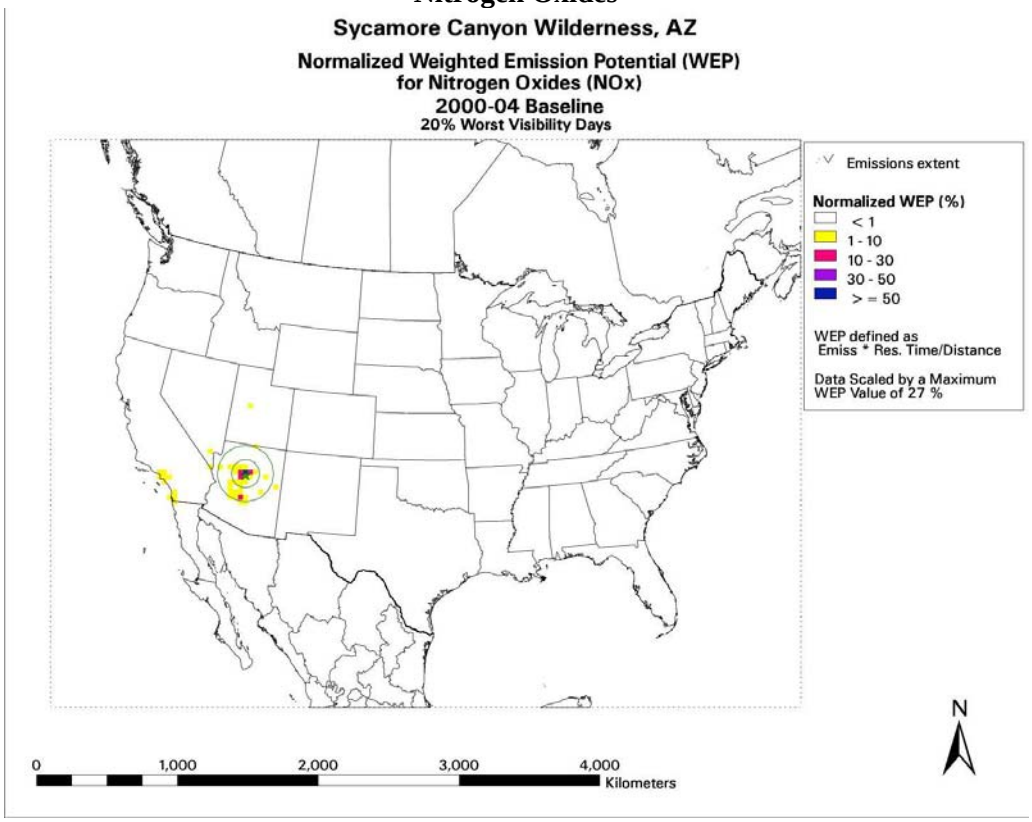
Sycamore Canyon Wilderness Area

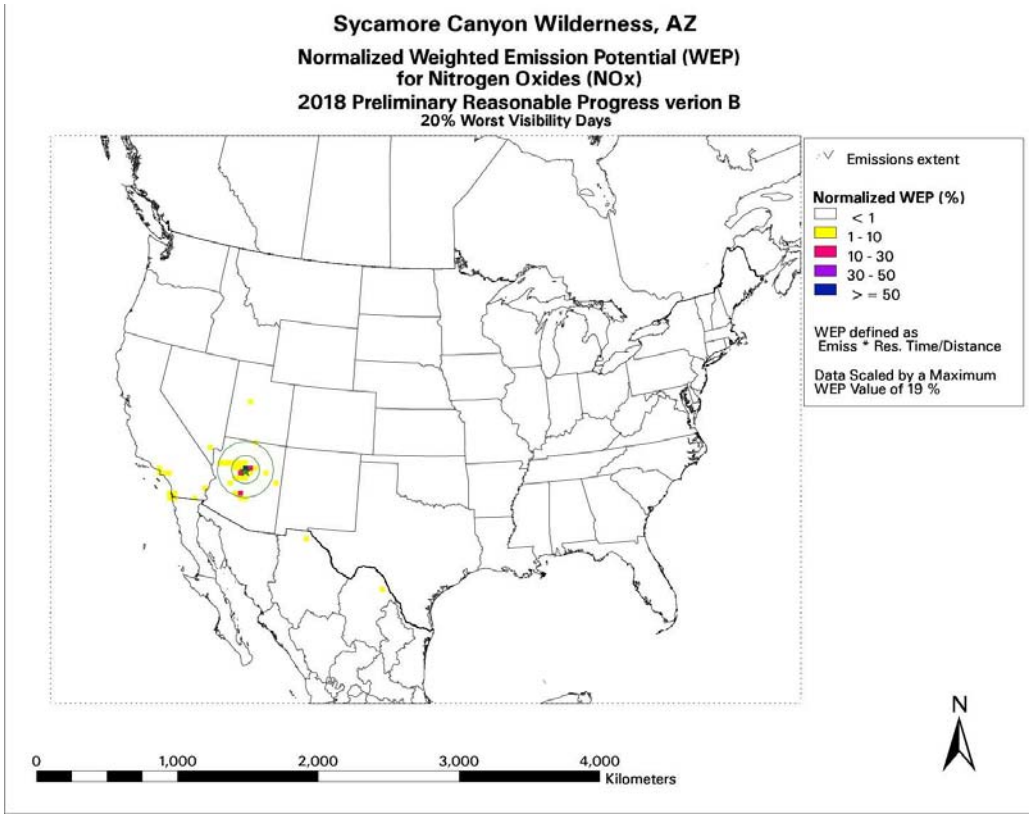
Sulfur Oxides



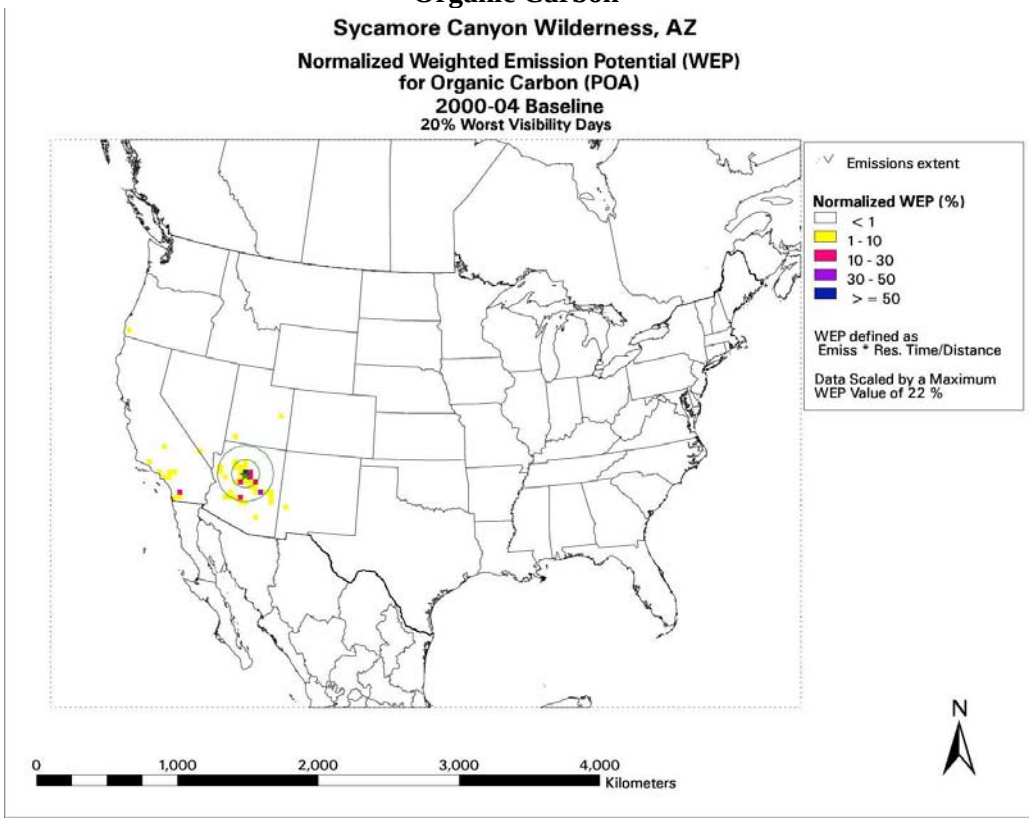


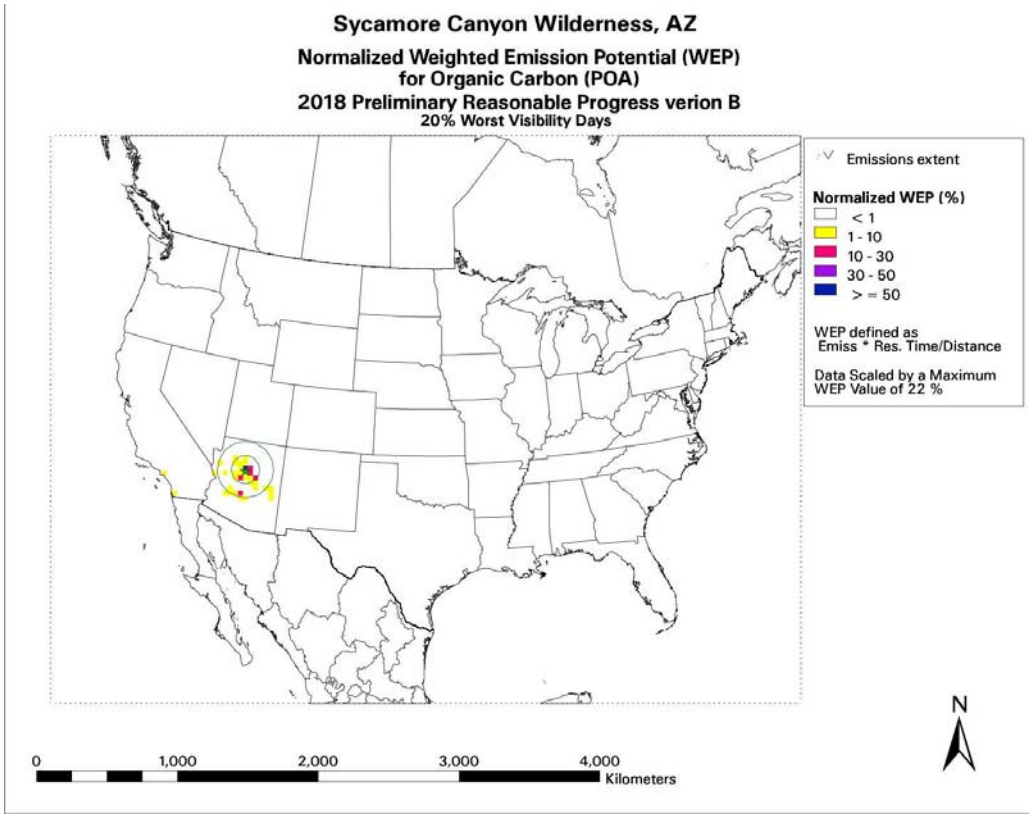
Nitrogen Oxides



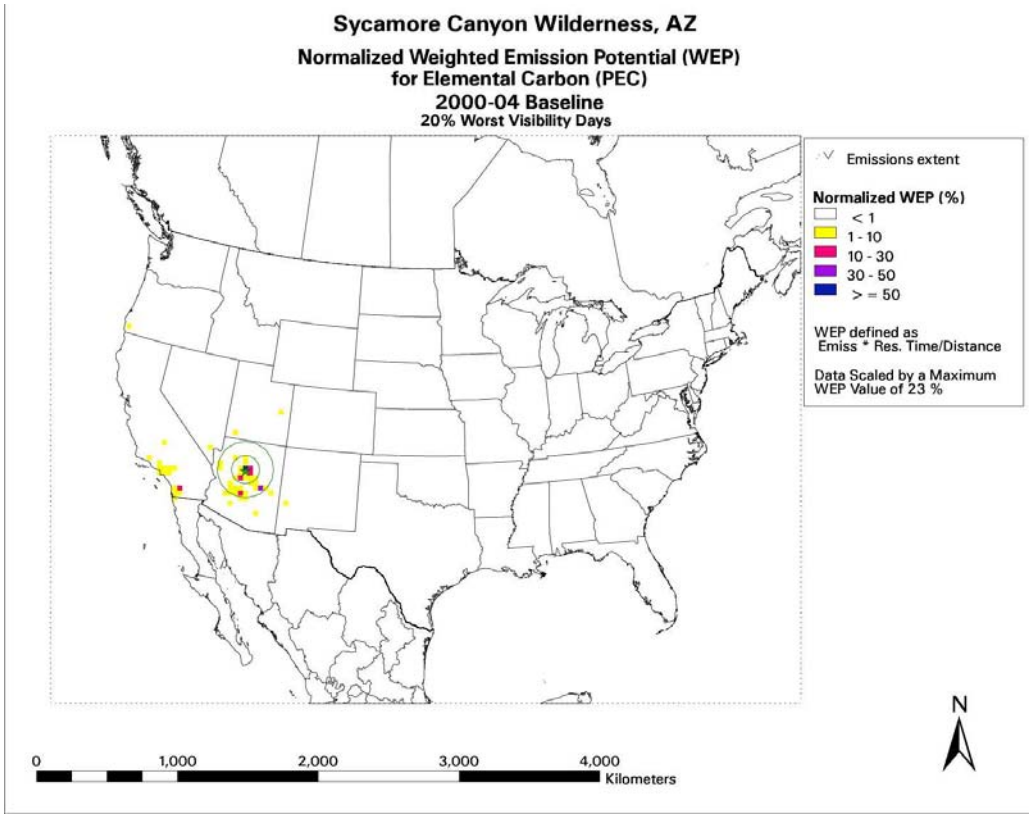


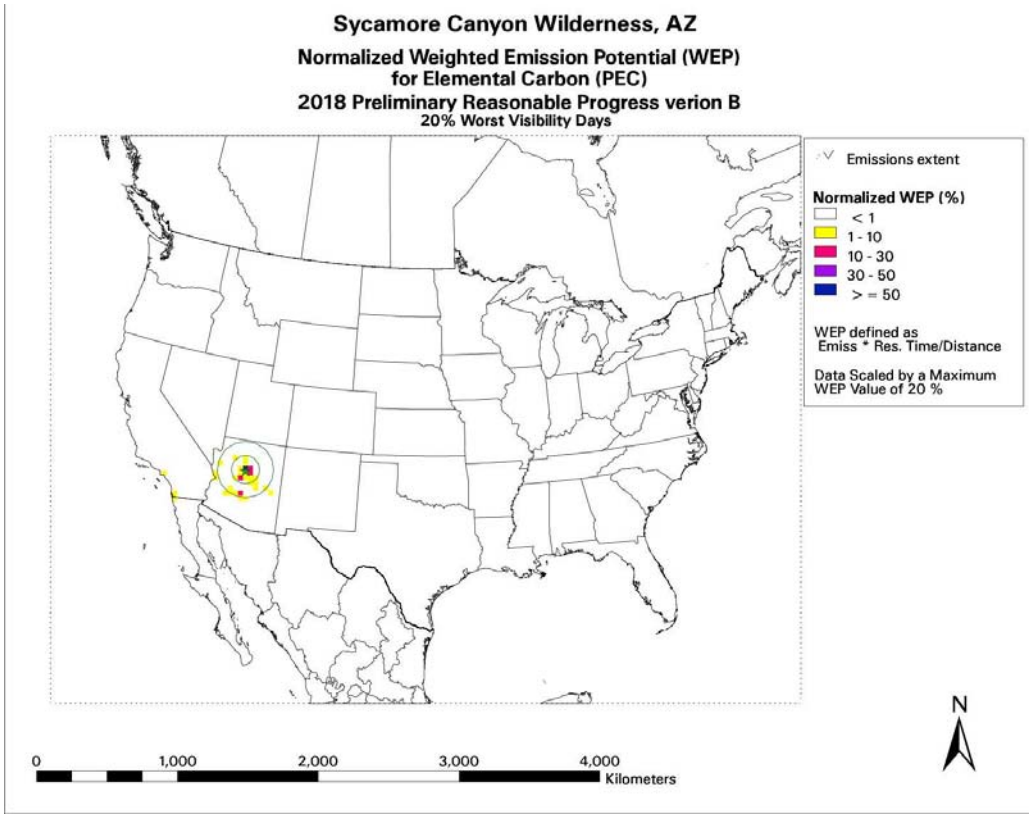
Organic Carbon



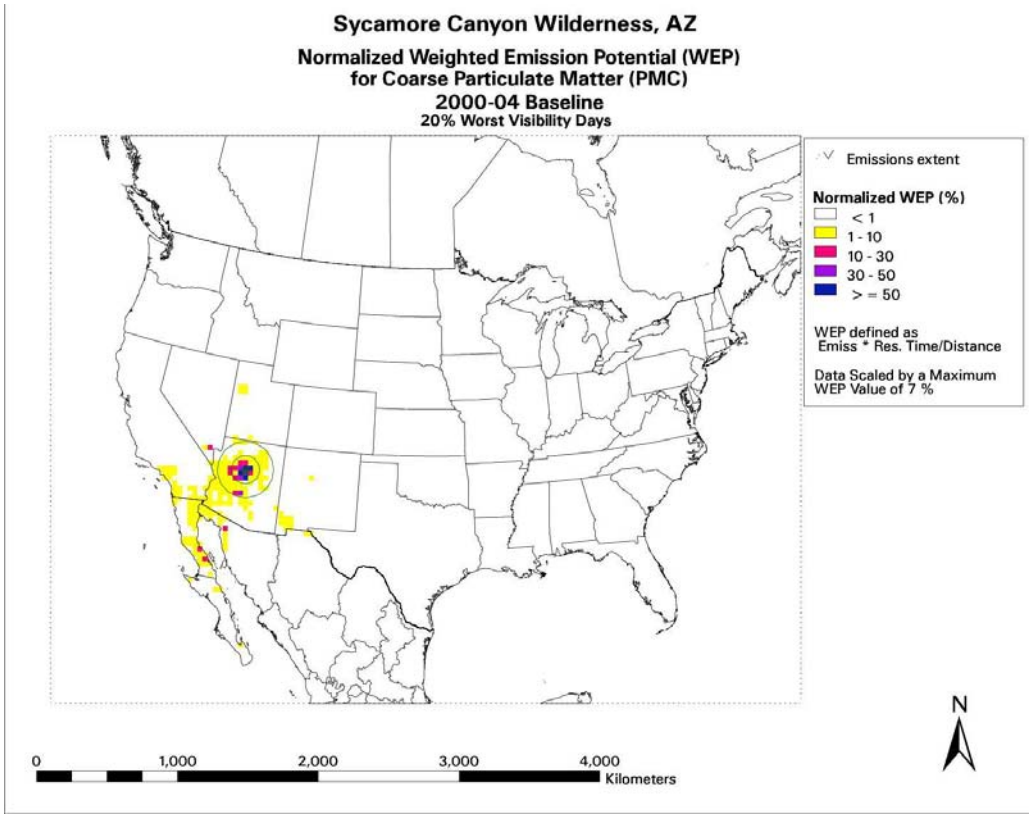


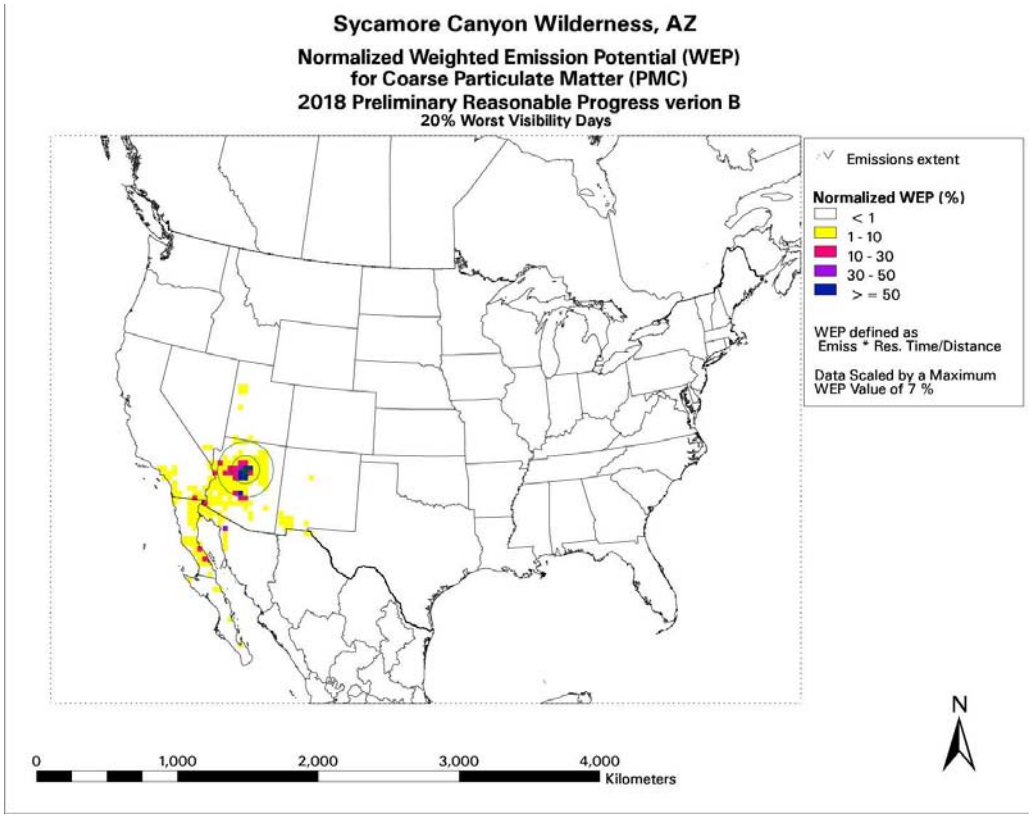
Elemental Carbon



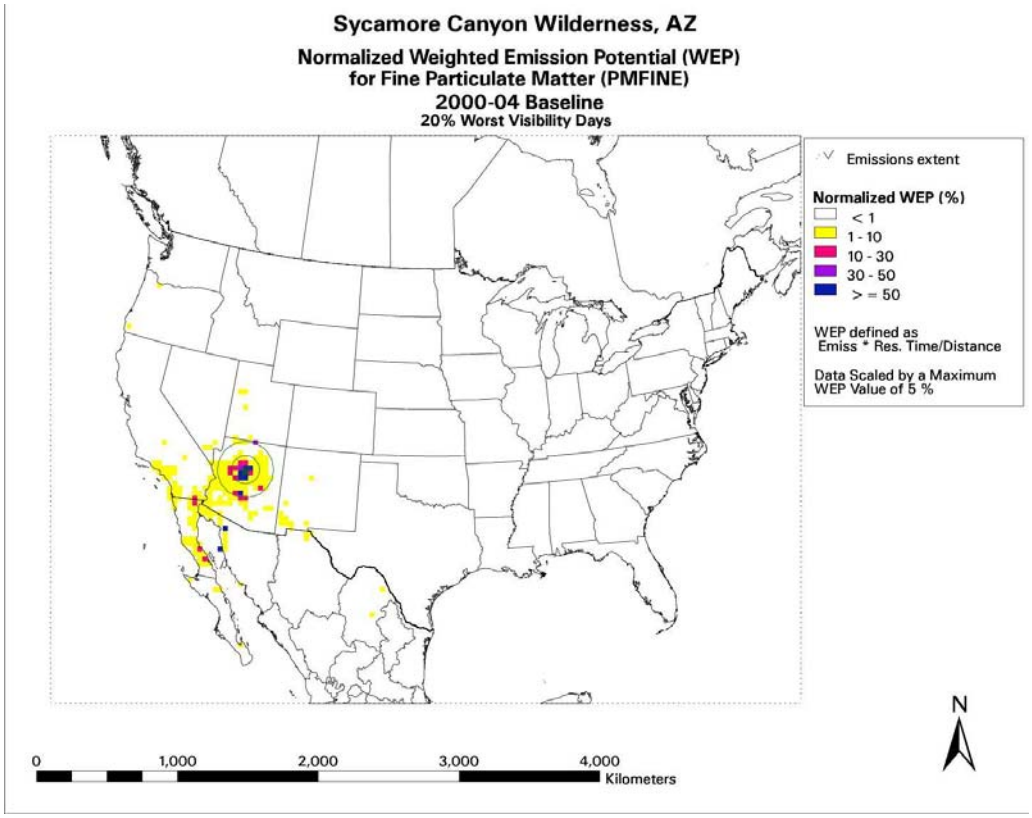


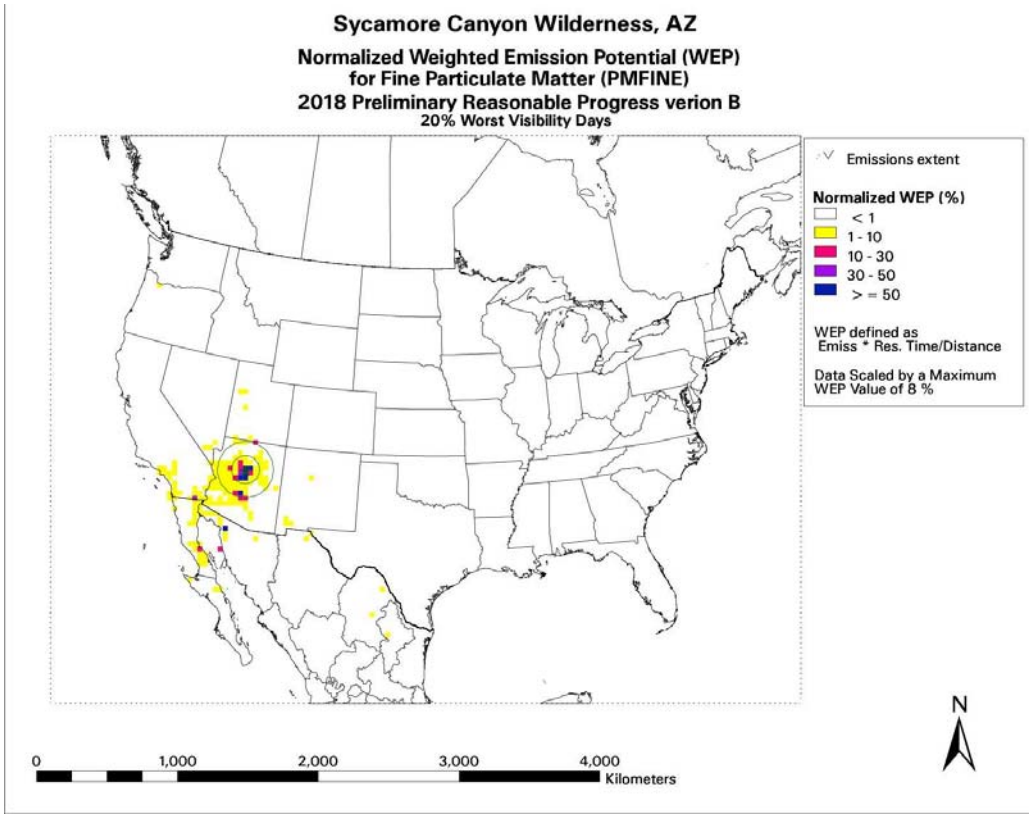
Coarse Mass


Sycamore Canyon Wilderness, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2000-04 Baseline
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 7 %
N
0
1,000
2,000
3,000
4,000
Kilometers


Sycamore Canyon Wilderness, AZ
Normalized Weighted Emission Potential (WEP)
for Coarse Particulate Matter (PMC)
2018 Preliminary Reasonable Progress verion B
20% Worst Visibility Days
Emissions extent
Normalized WEP (%)
< 1
1 - 10
10 - 30
30 - 50
> = 50
WEP defined as
Emiss * Res. Time/Distance
Data Scaled by a Maximum
WEP Value of 7 %
N
0
1,000
2,000
3,000
4,000
Kilometers

Fine Particulate Matter





Section 2

Visibility Impairment Analysis

Contribution to Class I Areas in Colorado, Utah, and New Mexico

The tables in this section represent the percent contribution to sulfate and nitrate at Class I areas in Colorado, New Mexico, and Utah. The data is from the PSAT modeling analysis for the 2002 base case (plan 02c) and 2018 projections (base 18b). The tables show the highest contributors only, not all contributions from all states or regions. The tables also provide the concentrations from point, area, mobile, natural fire/biogenic, and anthropogenic fire. The tables do not provide the total concentration for each Class I area.

Colorado Class I areas:

- Mesa Verde National Park (MEVE1)
- Black Canyon of the Gunnison National Park, La Garita Wilderness, and Weminuche Wilderness (WEMI1)
- Great Sand Dunes National Monument (GRSA1)
- Eagles Nest Wilderness, Flat Tops Wilderness, Maroon Bells-Snowmass Wilderness, and West Elk Wilderness (WHRI1)

New Mexico Class I areas:

- Gila Wilderness, New Mexico (GICL1)
- Bosque del Apache National Wildlife Refuge, New Mexico (BOAP1)
- San Pedro Parks Wilderness, New Mexico (SAPE1)
- Bandelier National Monument, New Mexico (BAND1)

Utah Class I areas:

- Zion National Park (ZION1)
- Bryce Canyon National Park (BRCA1)
- Capitol Reef National Park (CAPI1)
- Canyonlands National Park and Arches National Park (CANY1)

Mesa Verde National Park, Colorado – PSAT results for SO4 and NO3

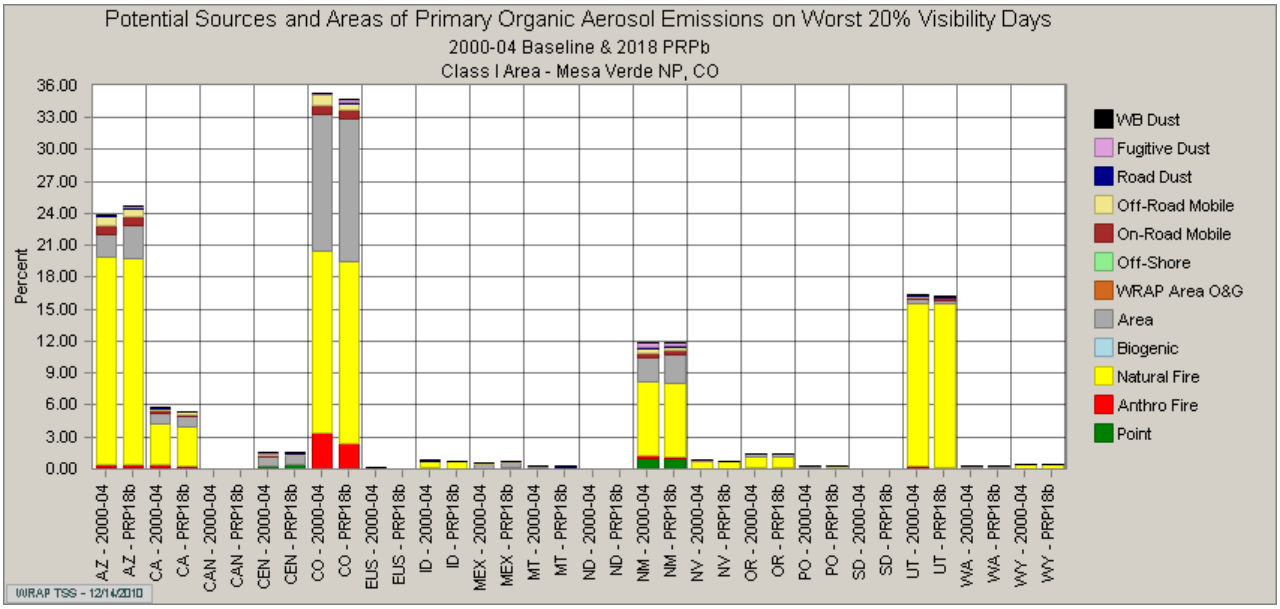
Contribution to SO4 at MEVE1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.225	0.225	33.8%
NM	0.001	0	0.002	0.003	0.118		0.124	18.6%
MEX	0	0	0.002	0.011	0.054		0.067	10.1%
AZ	0.003	0	0.005	0.001	0.048		0.057	8.6%
PO	0	0	0.001	0.033	0.015		0.049	7.4%
CA	0.008	0	0.004	0.004	0.013		0.029	4.4%

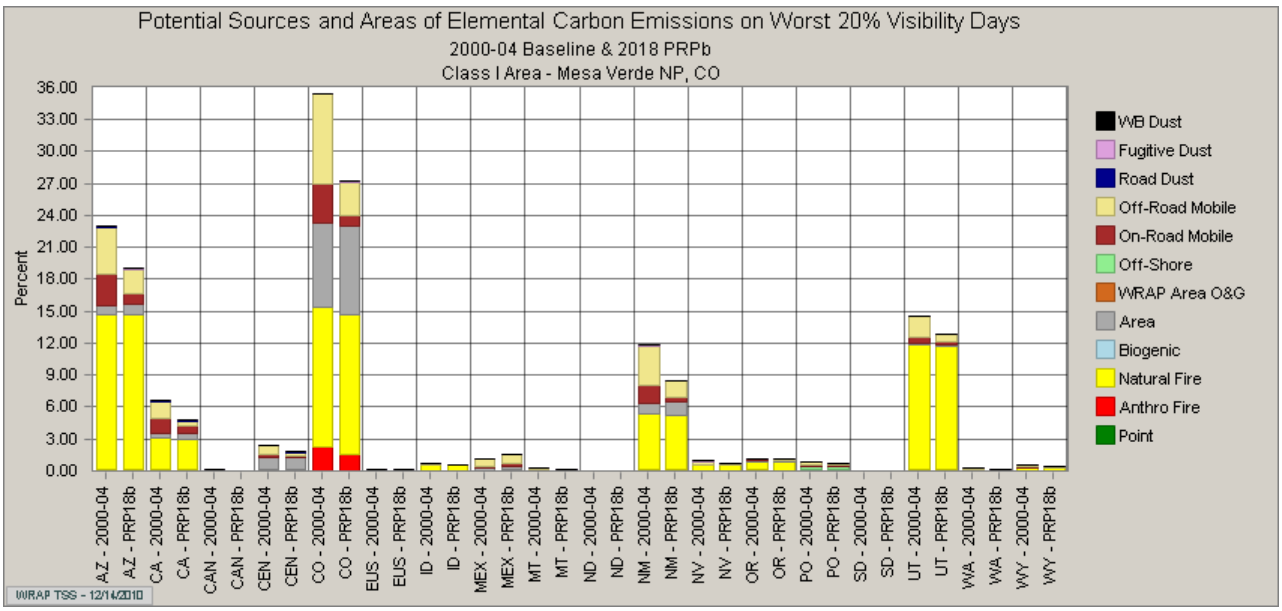
Contribution to SO4 at MEVE1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.229	0.229	35.5%
NM	0.001	0	0.001	0.005	0.104		0.111	17.2%
MEX	0	0	0.002	0.011	0.06		0.073	11.3%
AZ	0.004	0	0.002	0.002	0.058		0.066	10.2%
PO	0	0	0.001	0.033	0.016		0.05	7.8%
CA	0.007	0	0.003	0.004	0.013		0.027	4.2%

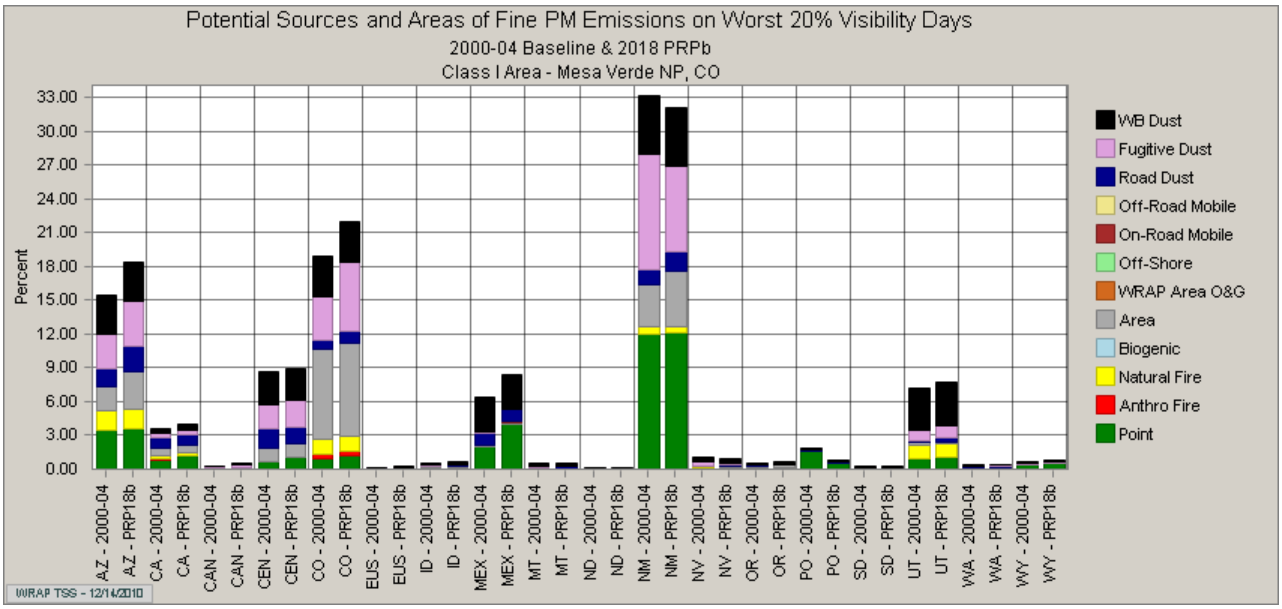
Contribution to NO3 at MEVE1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.001	0	0.006	0.028	0.1		0.135	54.2%
AZ	0.002	0	0.02	0.001	0.01		0.033	13.3%
CO	0.001	0	0.008	0.01	0.007		0.026	10.4%
OD						0.023	0.023	9.2%
CA	0.001	0	0.011	0.001	0.001		0.014	5.6%

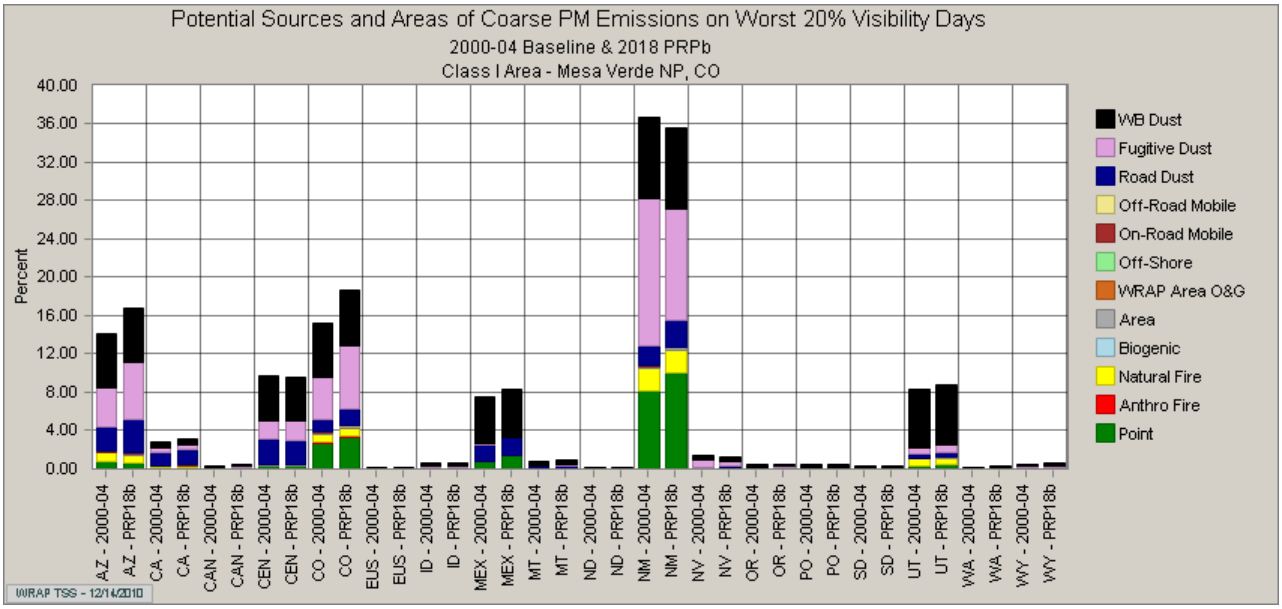
Contribution to NO3 at MEVE1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.001	0	0.002	0.076	0.083		0.162	60.2%
CO	0.001	0	0.003	0.024	0.005		0.033	12.3%
AZ	0.002	0	0.008	0.001	0.015		0.026	9.7%
OD						0.026	0.026	9.7%
CA	0.001	0	0.005	0.001	0.001		0.008	3.0%

Mesa Verde National Park, Colorado – WEP results for OC, EC, fine PM, and coarse PM






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Mesa Verde NP, CO
Percent
33.00
30.00
27.00
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Mesa Verde NP, CO
Percent
40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Black Canyon of the Gunnison National Park, La Garita Wilderness, and Weminuche Wilderness (WEMI1), Colorado

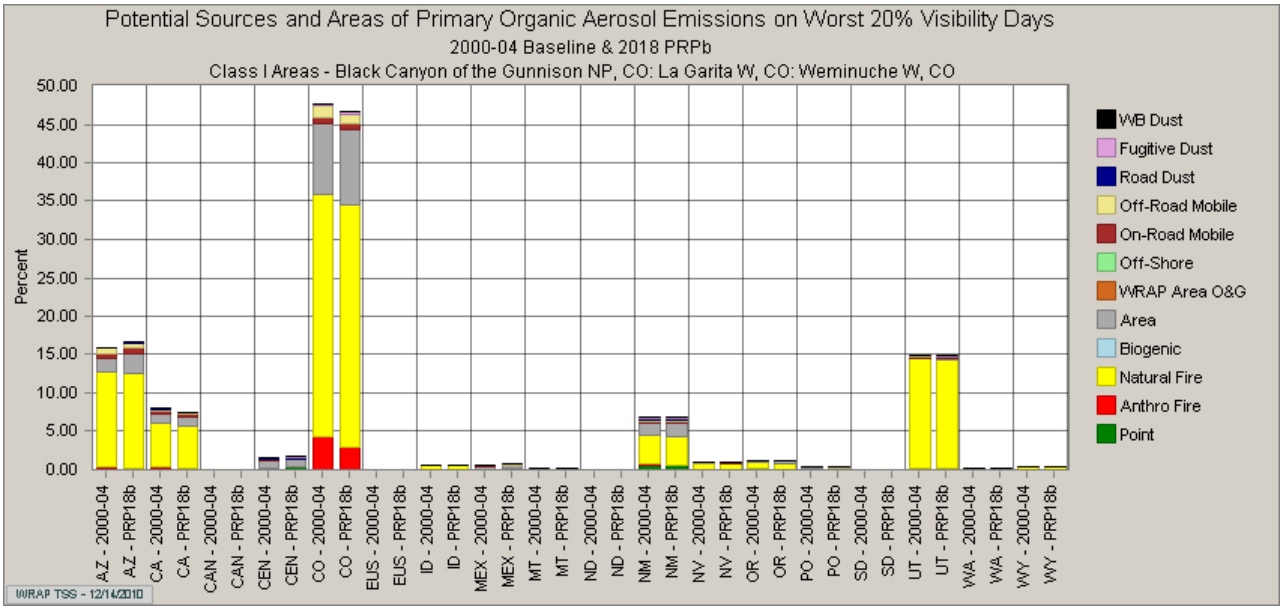
Contribution to SO4 at WEMI1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.165	0.165	34.1%
NM	0	0	0.001	0.002	0.057		0.06	12.4%
MEX	0	0	0.001	0.008	0.034		0.043	8.9%
PO	0	0	0.001	0.029	0.013		0.043	8.9%
AZ	0.002	0	0.003	0.001	0.028		0.034	7.0%
CO	0.006	0	0.003	0.001	0.014		0.024	5.0%

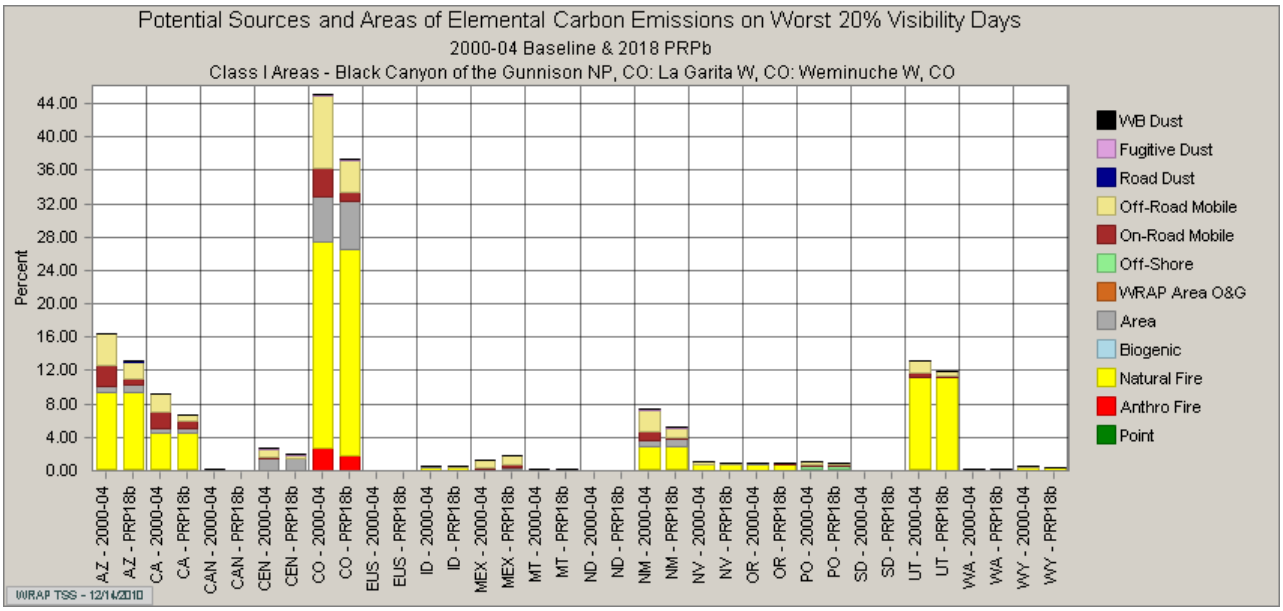
Contribution to SO4 at WEMI1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.169	0.169	34.9%
NM	0	0	0	0.004	0.06		0.064	13.2%
MEX	0	0	0.002	0.009	0.041		0.052	10.7%
PO	0	0	0.001	0.029	0.014		0.044	9.1%
AZ	0.002	0	0.001	0.001	0.038		0.042	8.7%
CA	0.006	0	0.002	0.004	0.013		0.025	5.2%

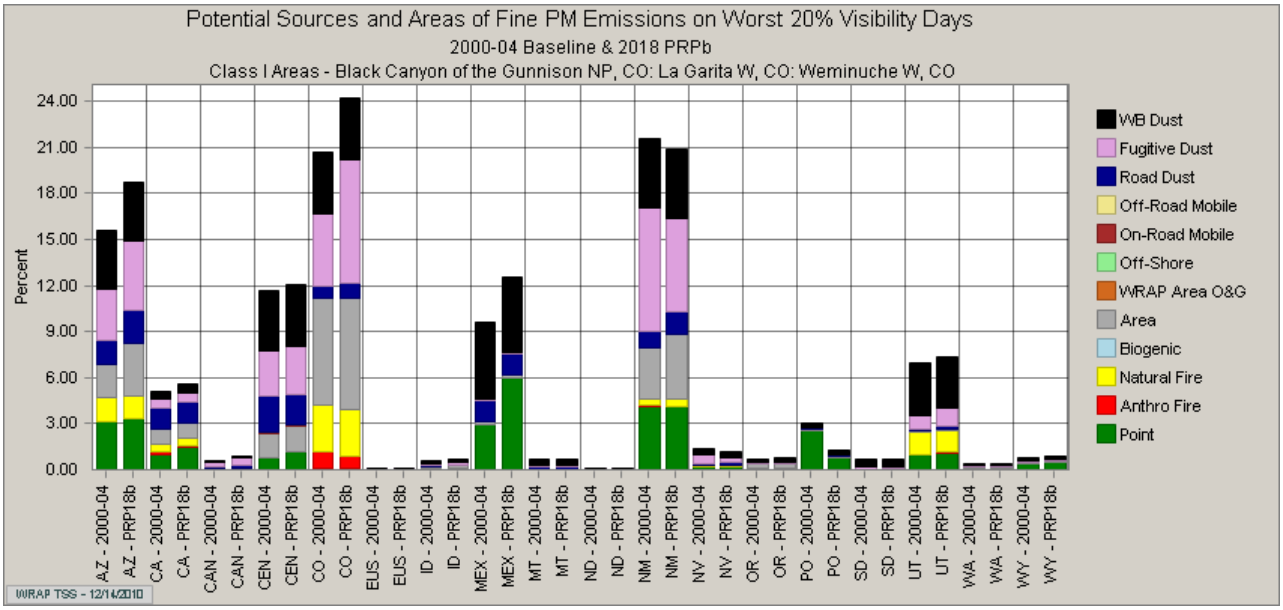
Contribution to NO3 at WEMI1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0	0	0.001	0.005	0.018		0.024	30.0%
CA	0.001	0	0.015	0.002	0.001		0.019	23.8%
OD						0.014	0.014	17.5%
AZ	0.001	0	0.008	0	0.003		0.012	15.0%
CO	0	0	0.001	0.002	0.001		0.004	5.0%

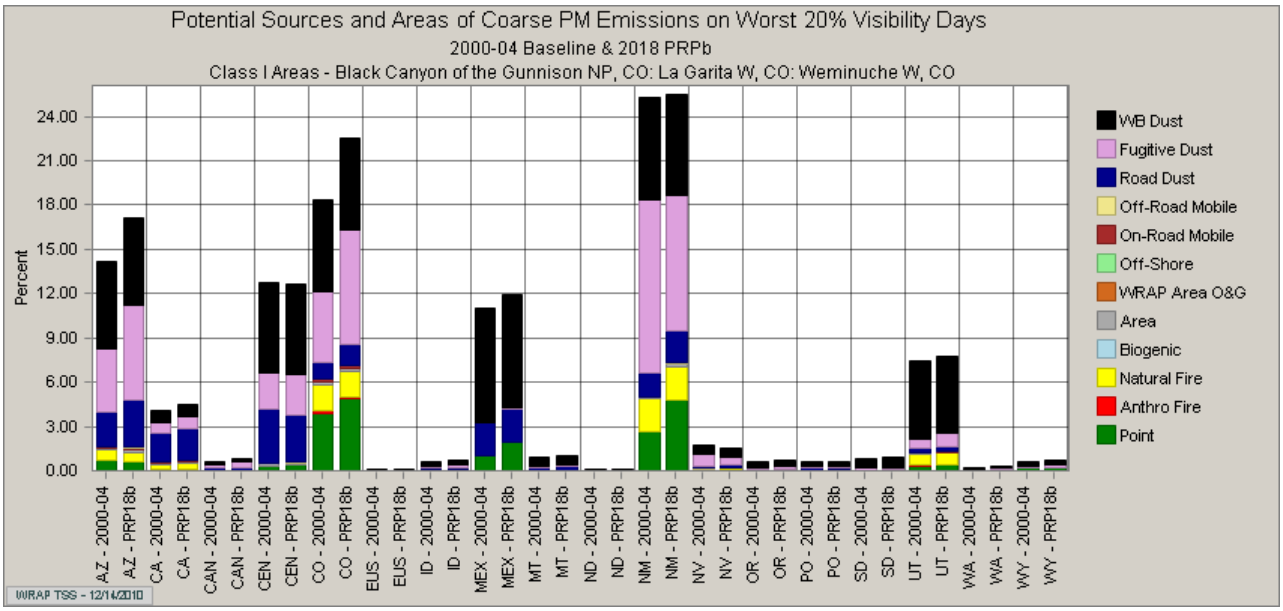
Contribution to NO3 at WEMI1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0	0	0.001	0.013	0.017		0.031	43.7%
OD						0.014	0.014	19.7%
CA	0	0	0.006	0.002	0.002		0.01	14.1%
AZ	0	0	0.003	0	0.004		0.007	9.9%
CO	0	0	0	0.004	0.001		0.005	7.0%

Black Canyon of the Gunnison National Park, La Garita Wilderness, and Weminuche Wilderness (WEMI1), Colorado – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Areas - Black Canyon of the Gunnison NP, CO: La Garita W, CO: Weminuche W, CO
Percent
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Areas - Black Canyon of the Gunnison NP, CO: La Garita W, CO: Weminuche W, CO
Percent
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Great Sand Dunes National Monument (GRSA1), Colorado – PSAT Analysis

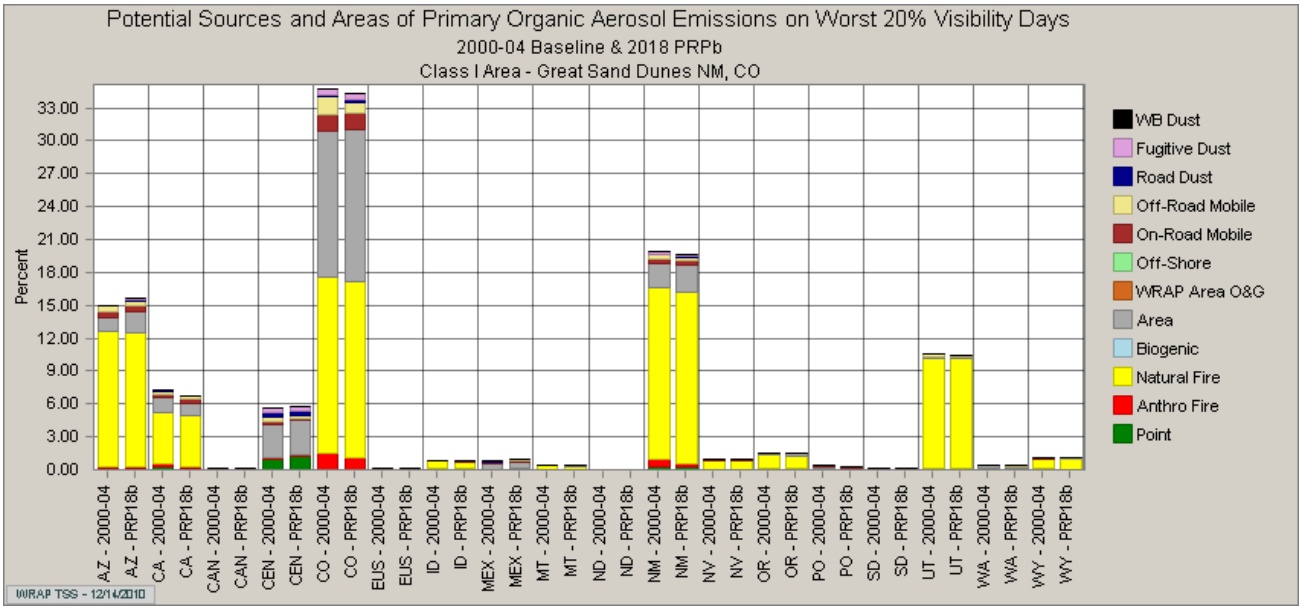
Contribution to SO4 at GRSA1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.165	0.165	37.5%
CO	0.001	0	0.005	0.002	0.049		0.057	13.0%
CEN	0	0	0.004	0.004	0.038		0.046	10.5%
MEX	0	0	0.001	0.005	0.024		0.03	6.8%
NM	0.001	0	0.002	0.002	0.023		0.028	6.4%
PO	0	0	0	0.016	0.007		0.023	5.2%
AZ	0.002	0	0.002	0	0.017		0.021	4.8%

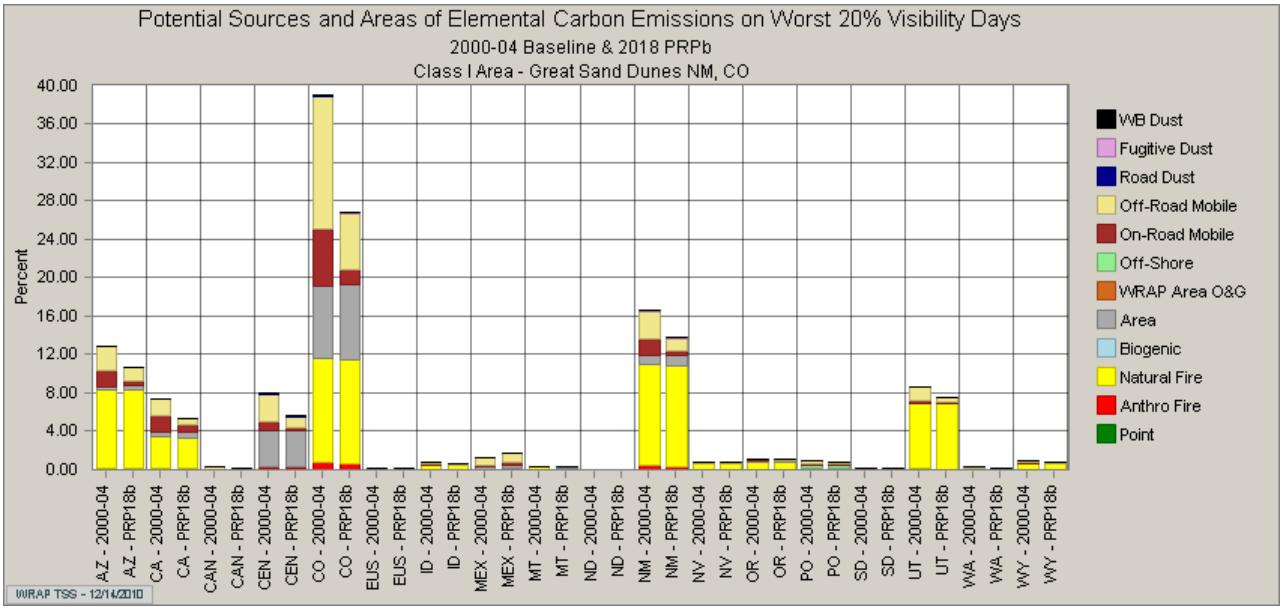
Contribution to SO4 at GRSA1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.169	0.169	38.2%
CO	0.001	0	0.002	0.002	0.038		0.043	9.7%
NM	0.001	0	0	0.004	0.031		0.036	8.1%
MEX	0	0	0.001	0.005	0.029		0.035	7.9%
CEN	0	0	0	0.004	0.029		0.033	7.5%
AZ	0.002	0	0.001	0.001	0.023		0.027	6.1%
PO	0	0	0	0.016	0.008		0.024	5.4%

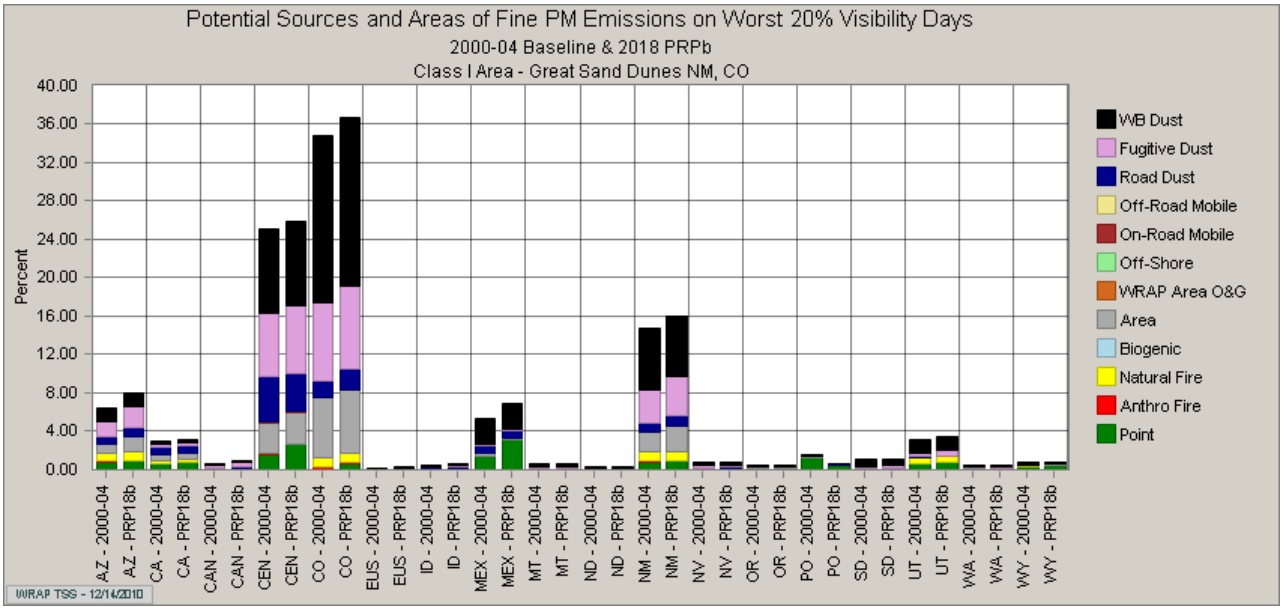
Contribution to NO3 at GRSA1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.031	0.031	26.7%
NM	0.001	0	0.005	0.006	0.013		0.025	21.6%
CO	0.002	0	0.009	0.002	0.004		0.017	14.7%
CEN	0.002	0	0.006	0.001	0.003		0.012	10.3%
AZ	0.001	0	0.004	0	0.002		0.007	6.0%
UT	0	0	0.003	0	0.004		0.007	6.0%

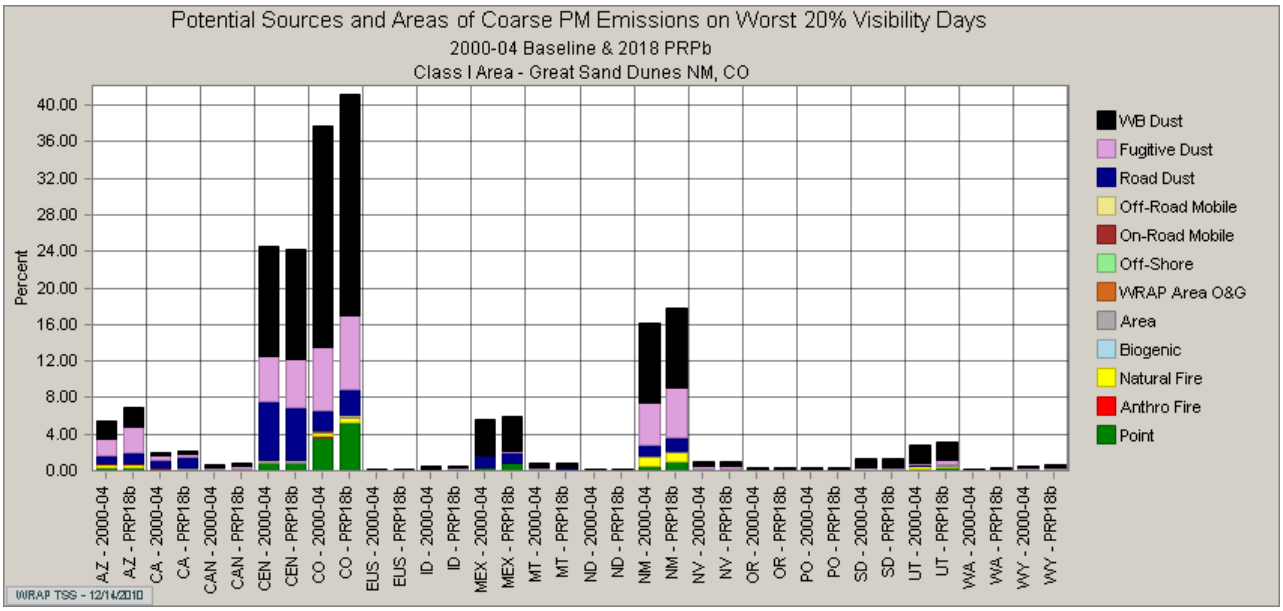
Contribution to NO3 at GRSA1 2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.033	0.033	28.9%
NM	0.001	0	0.002	0.016	0.012		0.031	27.2%
CO	0.002	0	0.004	0.004	0.004		0.014	12.3%
CEN	0.003	0	0.002	0.001	0.004		0.01	8.8%
AZ	0.001	0	0.002	0	0.004		0.007	6.1%
UT	0	0	0.001	0.001	0.003		0.005	4.4%

Great Sand Dunes National Monument (GRSA1), Colorado – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Great Sand Dunes NM, CO
Percent
40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Great Sand Dunes NM, CO
Percent
40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Eagles Nest Wilderness, Flat Tops Wilderness, Maroon Bells-Snowmass Wilderness, and West Elk Wilderness (WHRI1), Colorado – PSAT Analysis

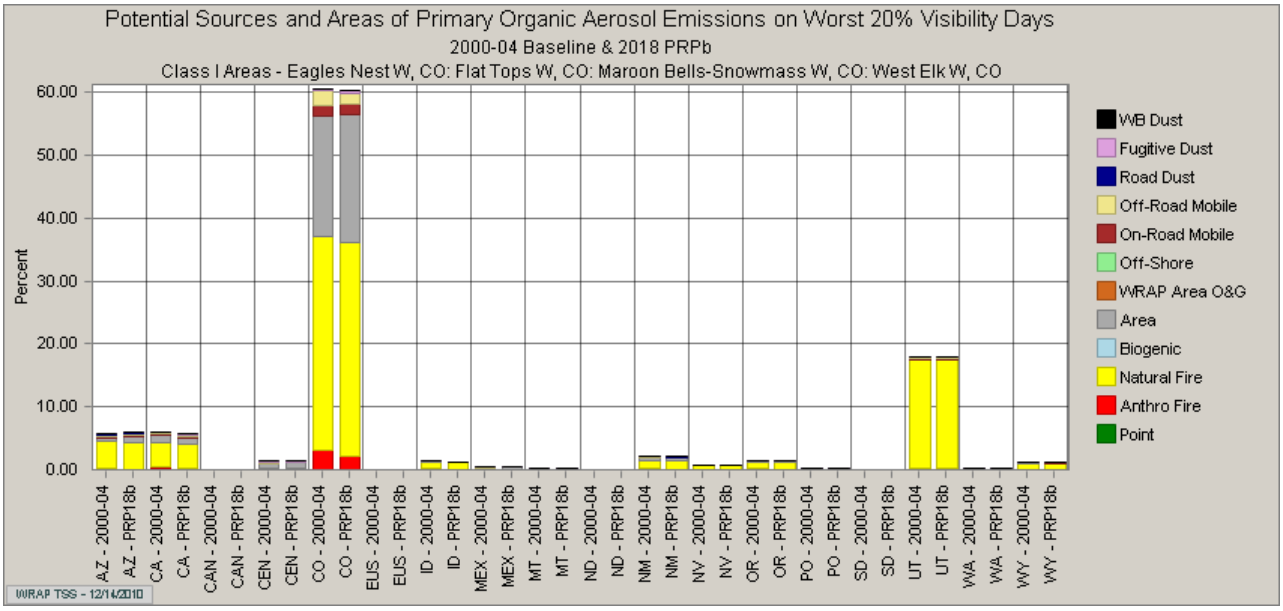
Contribution to SO4 at WHIR1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.167	0.167	38.9%
MEX	0	0	0.001	0.005	0.033		0.039	9.1%
CO	0.001	0	0.005	0.002	0.02		0.028	6.5%
PO	0	0	0	0.016	0.007		0.023	5.4%
UT	0.007	0	0.002	0.001	0.013		0.023	5.4%
AZ	0.001	0	0.002	0.001	0.018		0.022	5.1%
NM	0.001	0	0.001	0.001	0.019		0.022	5.1%

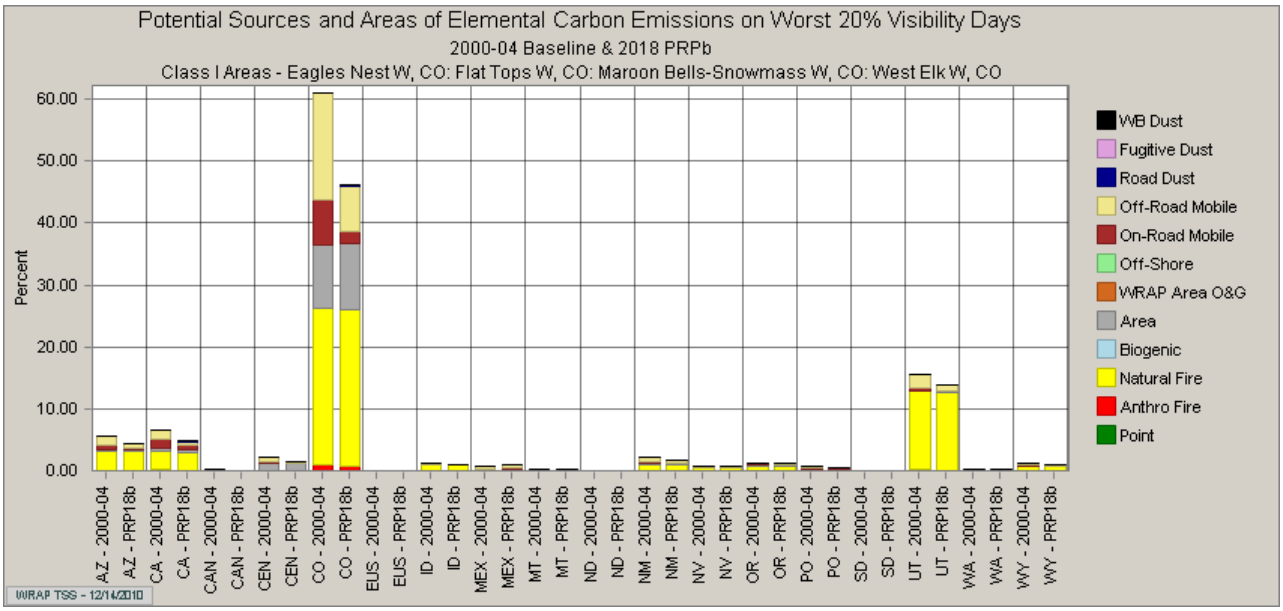
Contribution to SO4 at WHIR1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.171	0.171	40.2%
MEX	0	0	0.001	0.006	0.039		0.046	10.8%
AZ	0.002	0	0.001	0.001	0.025		0.029	6.8%
NM	0.001	0	0	0.002	0.023		0.026	6.1%
CEN	0	0	0	0.004	0.021		0.025	5.9%
UT	0.007	0	0	0.001	0.016		0.024	5.6%
PO	0	0	0	0.016	0.007		0.023	5.4%

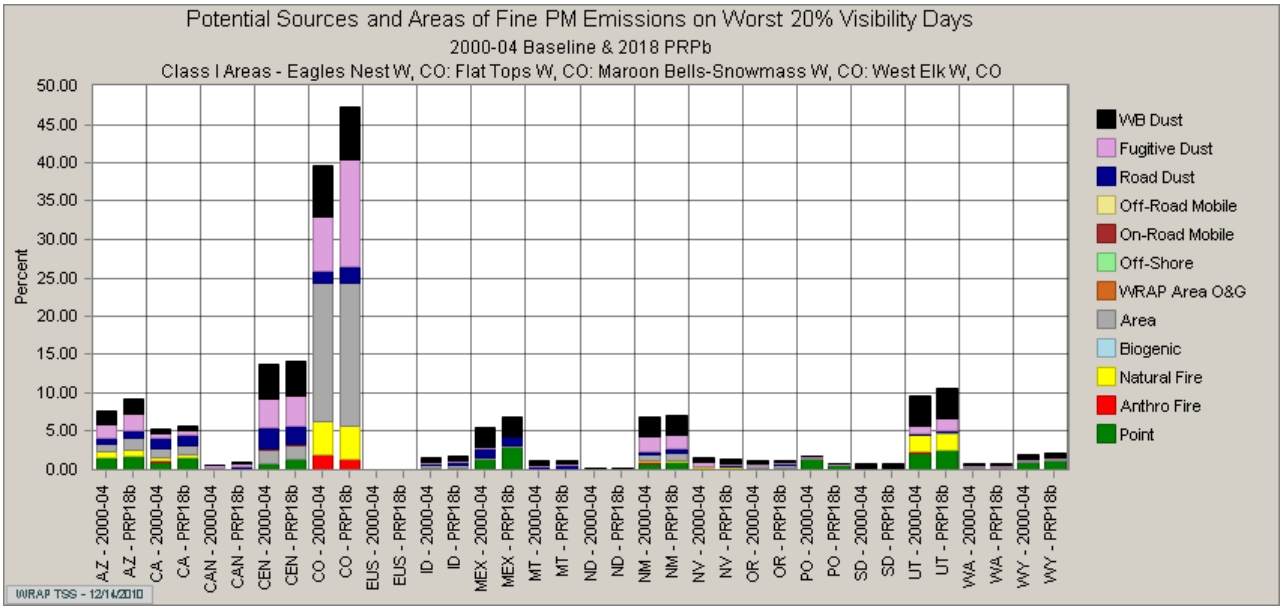
Contribution to NO3 at WHIR1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.01	0.01	50.0%
CO	0	0	0.002	0.001	0.001		0.004	20.0%
UT	0	0	0.002	0	0.002		0.004	20.0%
CA	0	0	0.001	0	0		0.001	5.0%
NM	0	0	0	0	0.001		0.001	5.0%
AZ	0	0	0	0	0		0	0%

Contribution to NO3 at WHIR1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.011	0.011	55.0%
UT	0	0	0.001	0.001	0.002		0.004	20.0%
CO	0	0	0.001	0.001	0.001		0.003	15.0%
NM	0	0	0	0.001	0.001		0.002	10.0%
AZ	0	0	0	0	0		0	0%
CA	0	0	0	0	0		0	0%

Eagles Nest Wilderness, Flat Tops Wilderness, Maroon Bells-Snowmass Wilderness, and West Elk Wilderness (WHRI1), Colorado – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Areas - Eagles Nest W, CO: Flat Tops W, CO: Maroon Bells-Snowmass W, CO: West Elk W, CO
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
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NM - 2000-04
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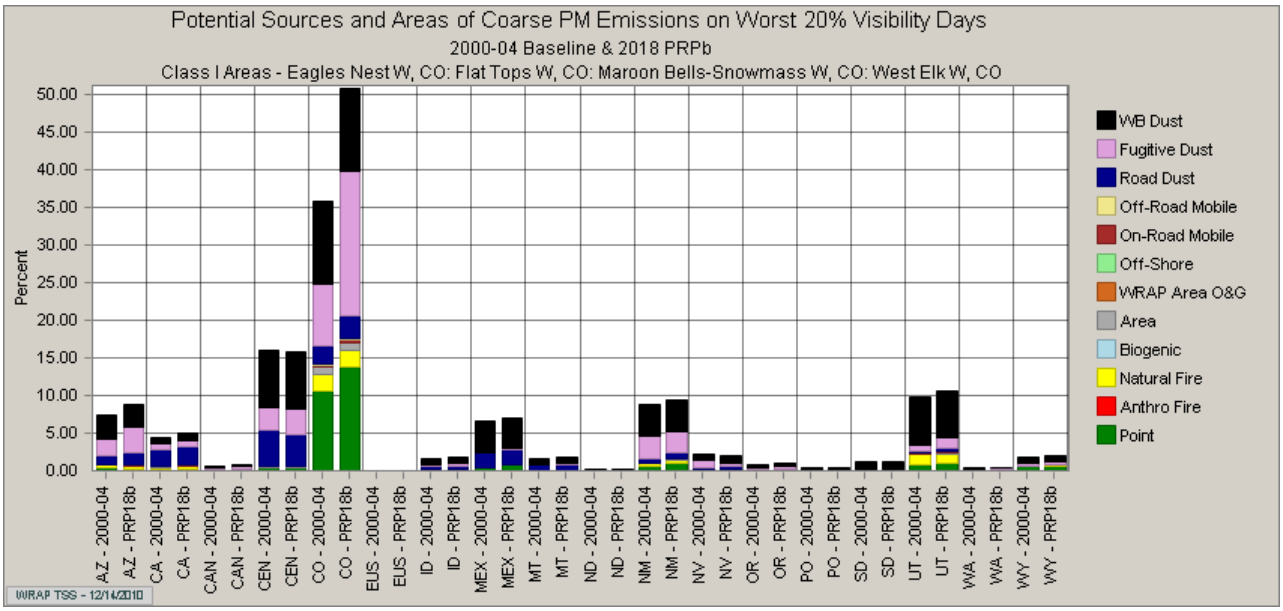
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Areas - Eagles Nest W, CO: Flat Tops W, CO: Maroon Bells-Snowmass W, CO: West Elk W, CO
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
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ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Gila Wilderness, New Mexico (GICL1) – PSAT Analysis

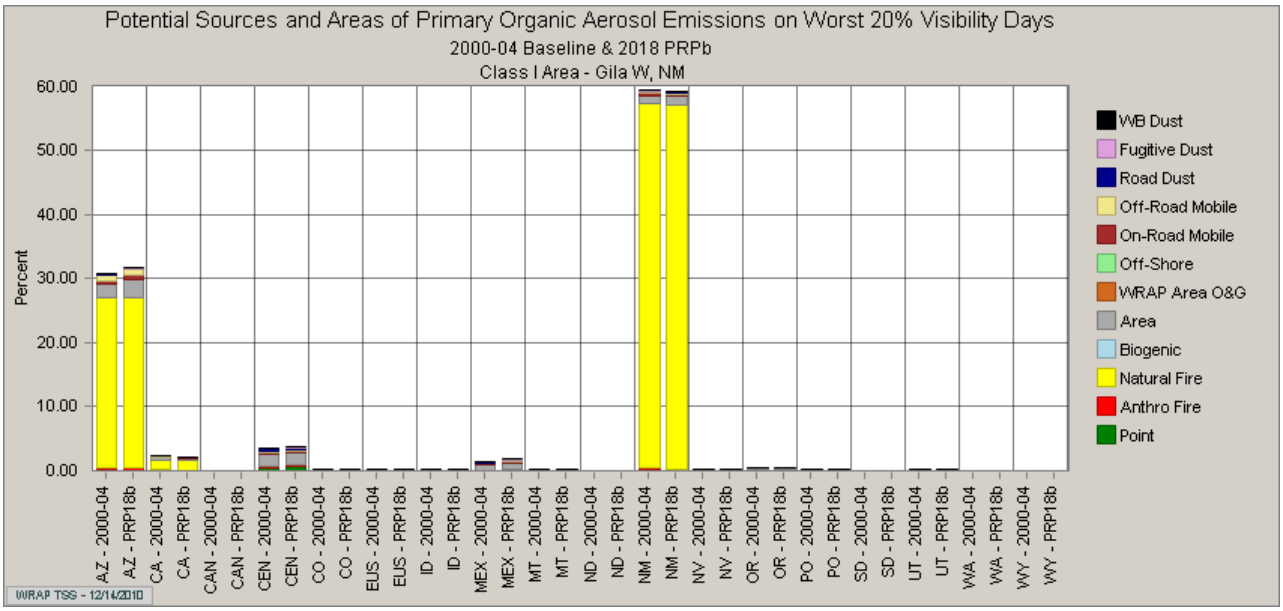
Contribution to SO4 at GICL1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.196	0.196	20.1%
MEX	0	0	0.004	0.026	0.166		0.196	20.1%
CEN	0	0	0.009	0.025	0.153		0.187	19.1%
EUS	0	0	0.006	0.01	0.162		0.178	18.2%
AZ	0.007	0	0.006	0.002	0.049		0.064	6.6%
PO	0	0	0.001	0.027	0.014		0.042	4.3%
NM	0.014	0	0.004	0.004	0.018		0.04	4.1%

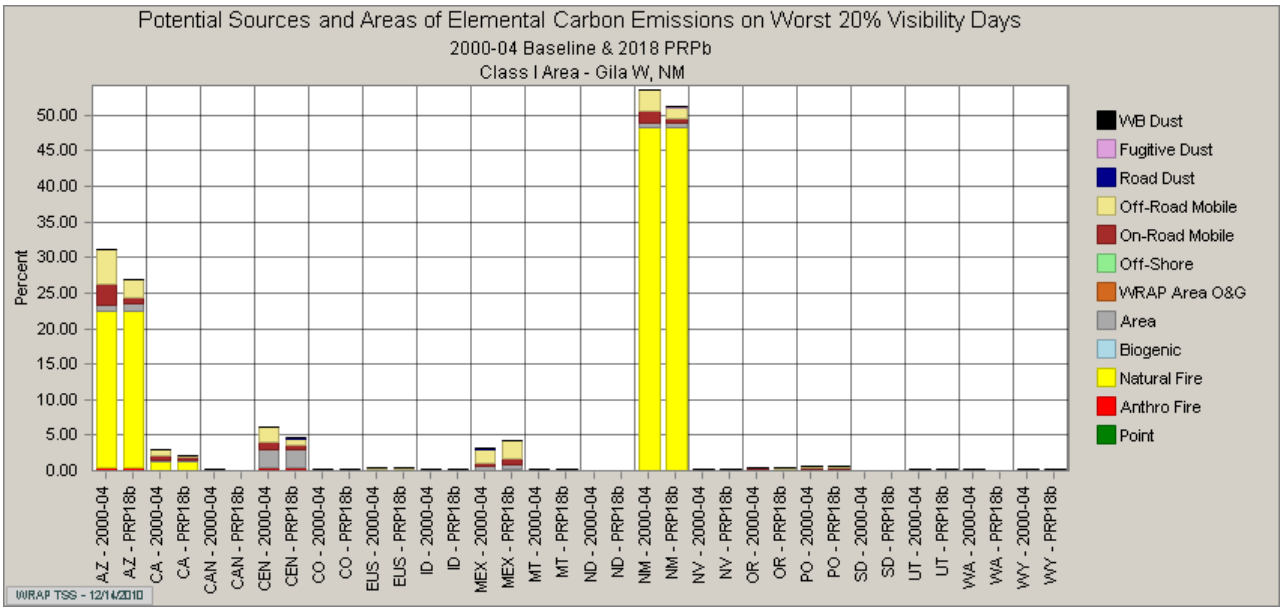
Contribution to SO4 at GICL1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
MEX	0	0	0.004	0.027	0.175		0.206	24.5%
OD						0.201	0.201	23.9%
CEN	0	0	0.001	0.026	0.111		0.138	16.4%
EUS	0	0	0.002	0.011	0.072		0.085	10.1%
AZ	0.007	0	0.002	0.003	0.055		0.067	8.0%
NM	0.014	0	0.001	0.007	0.019		0.041	4.9%
PO	0	0	0	0.027	0.014		0.041	4.9%

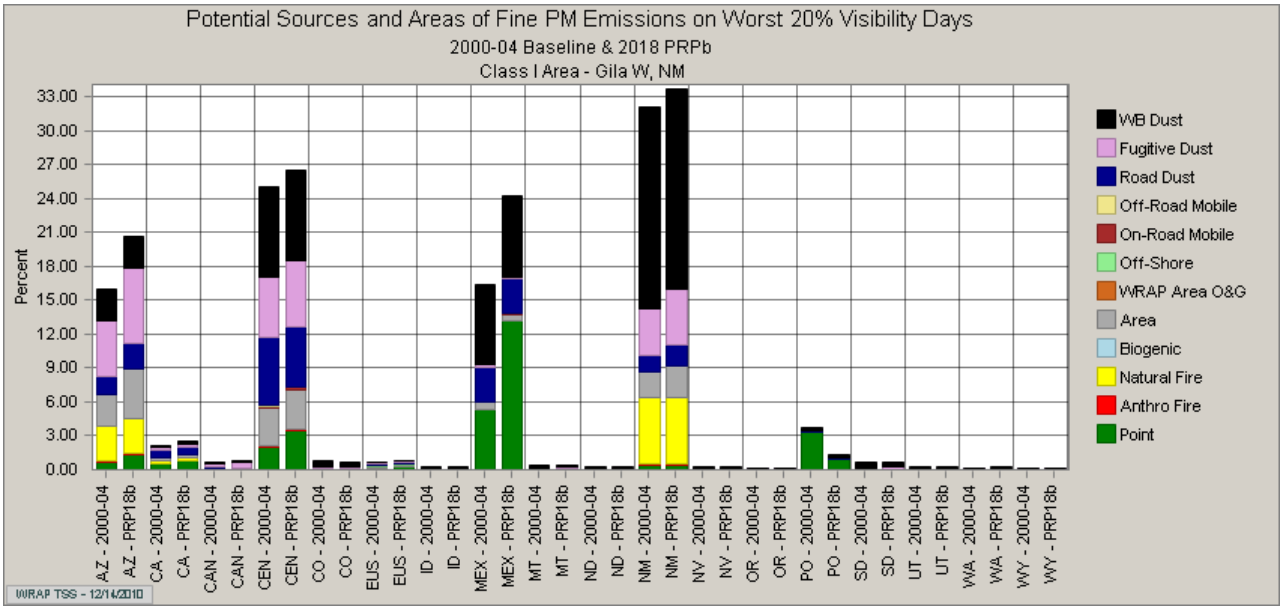
Contribution to NO3 at GICL1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.02	0.02	35.7%
CA	0.001	0	0.013	0.002	0.002		0.018	32.1%
AZ	0.001	0	0.011	0	0.001		0.013	23.2%

Contribution to NO3 at GICL1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.02	0.02	50.0%
CA	0.001	0	0.005	0.002	0.002		0.01	25.0%
AZ	0.001	0	0.004	0.001	0.002		0.008	20.0%

Gila Wilderness, New Mexico (GICL1) – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Gila W, NM
Percent
33.00
30.00
27.00
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
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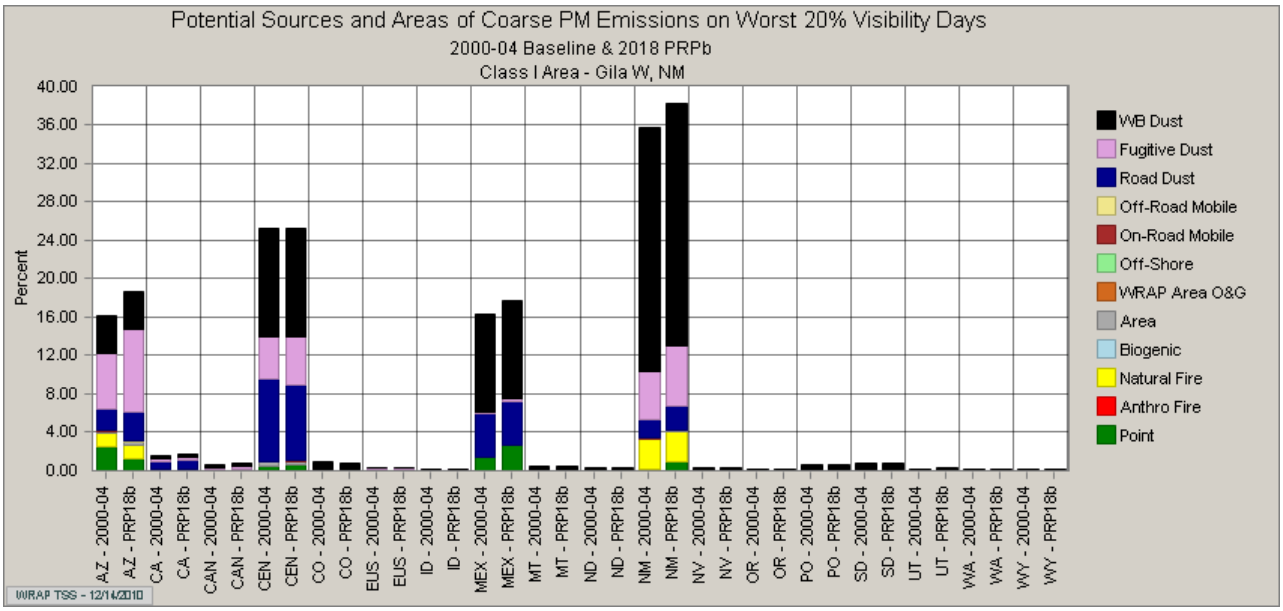
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Gila W, NM
Percent
40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
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WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Bosque del Apache National Wildlife Refuge, New Mexico – PSAT Analysis

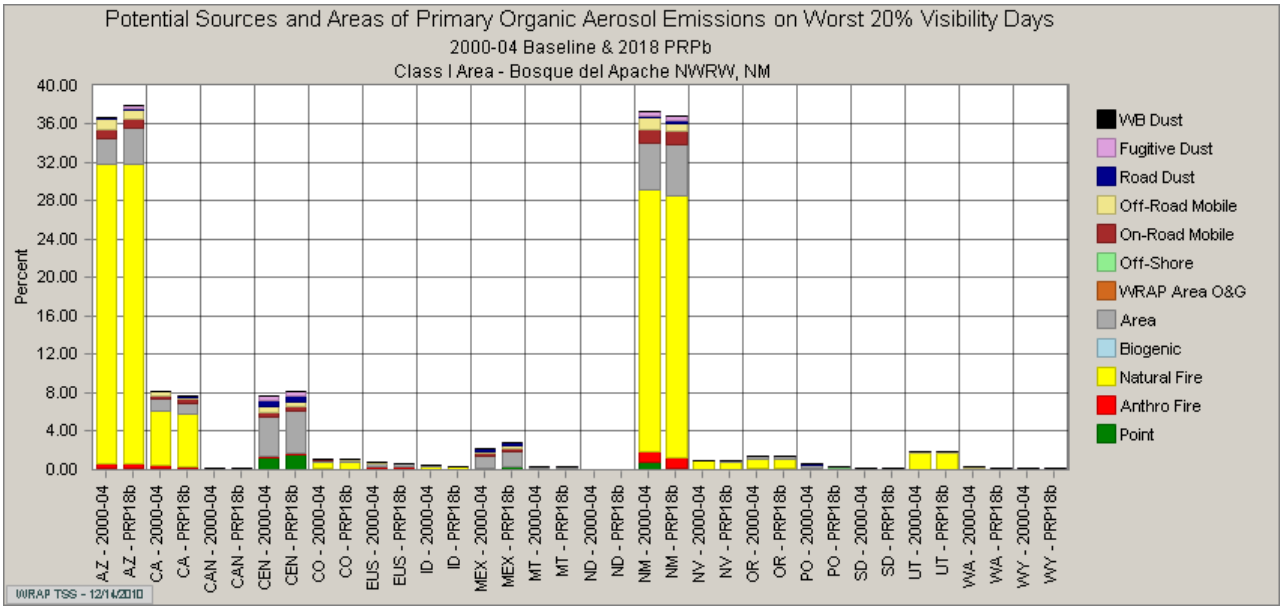
Contribution to SO4 at BOAP1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
CEN	0	0	0.014	0.033	0.217		0.264	22.7%
EUS	0	0	0.007	0.013	0.208		0.228	19.6%
OD						0.224	0.224	19.2%
MEX	0	0	0.003	0.02	0.142		0.165	14.2%
NM	0.003	0	0.011	0.012	0.052		0.078	6.7%
AZ	0.007	0	0.004	0.001	0.057		0.069	5.9%

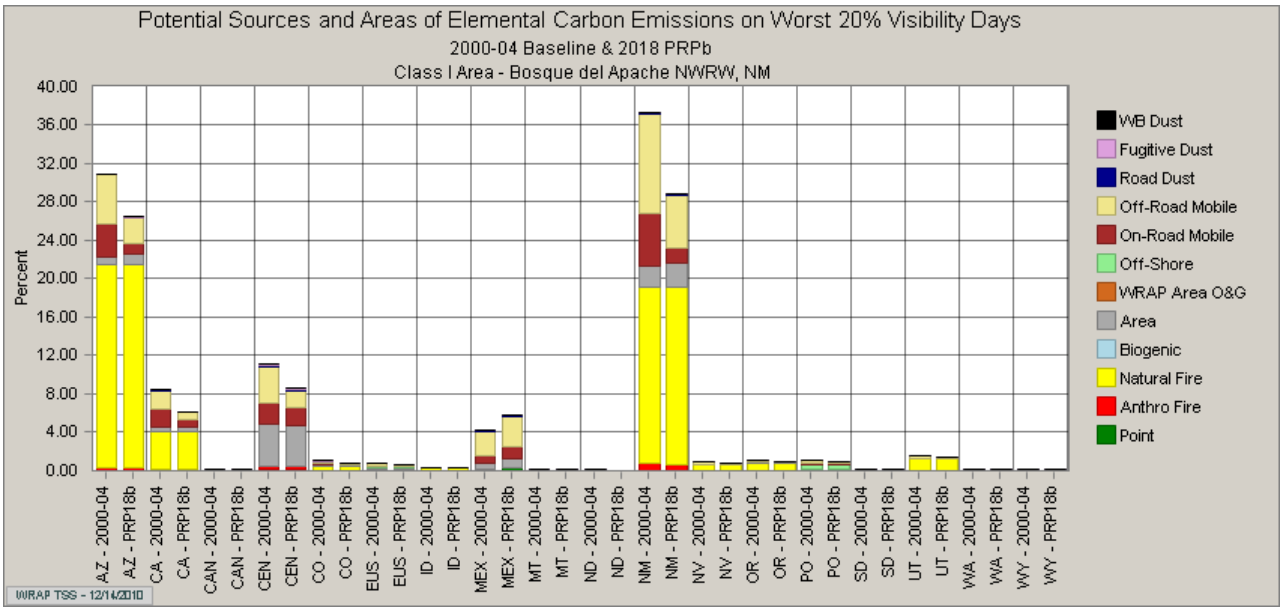
Contribution to SO4 at BOAP1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.23	0.23	23.0%
CEN	0	0	0.001	0.035	0.162		0.198	19.8%
MEX	0	0	0.003	0.021	0.15		0.174	17.4%
EUS	0	0	0.002	0.014	0.093		0.109	10.9%
NM	0.003	0	0.004	0.032	0.051		0.09	9.0%
AZ	0.008	0	0.002	0.002	0.059		0.071	7.1%

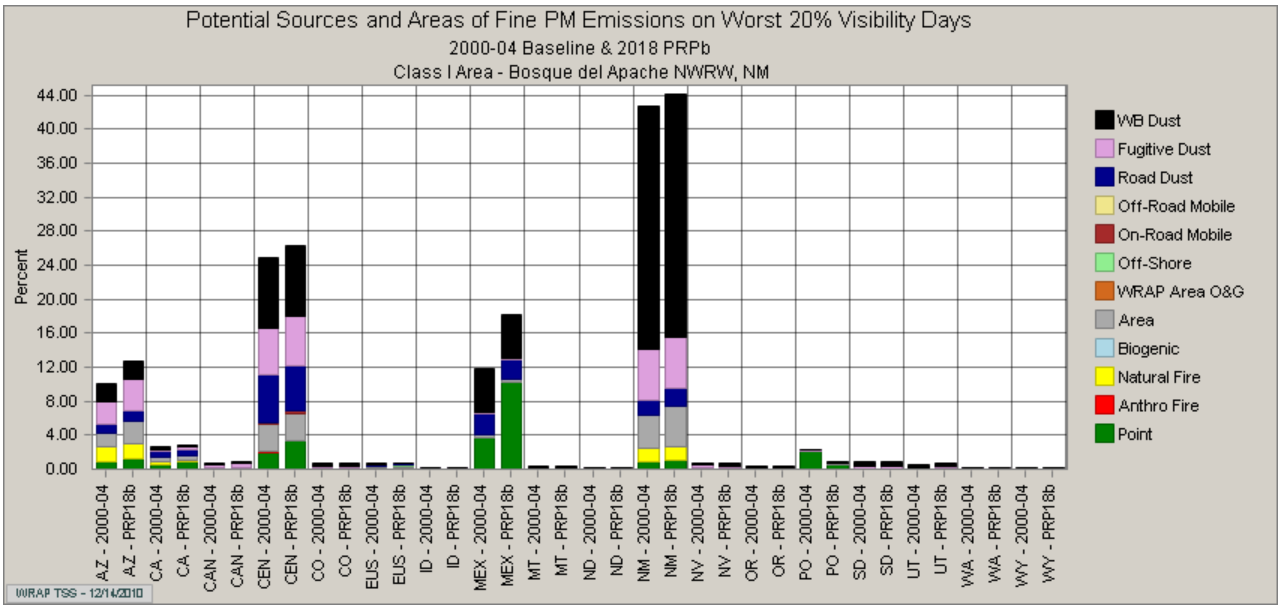
Contribution to NO3 at BOAP1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.004	0	0.027	0.01	0.011		0.052	37.4%
CEN	0.005	0	0.014	0.005	0.013		0.037	26.6%
AZ	0.001	0	0.007	0	0.004		0.012	8.6%
OD						0.011	0.011	7.9%
CO	0.001	0	0.003	0.001	0.002		0.007	5.0%

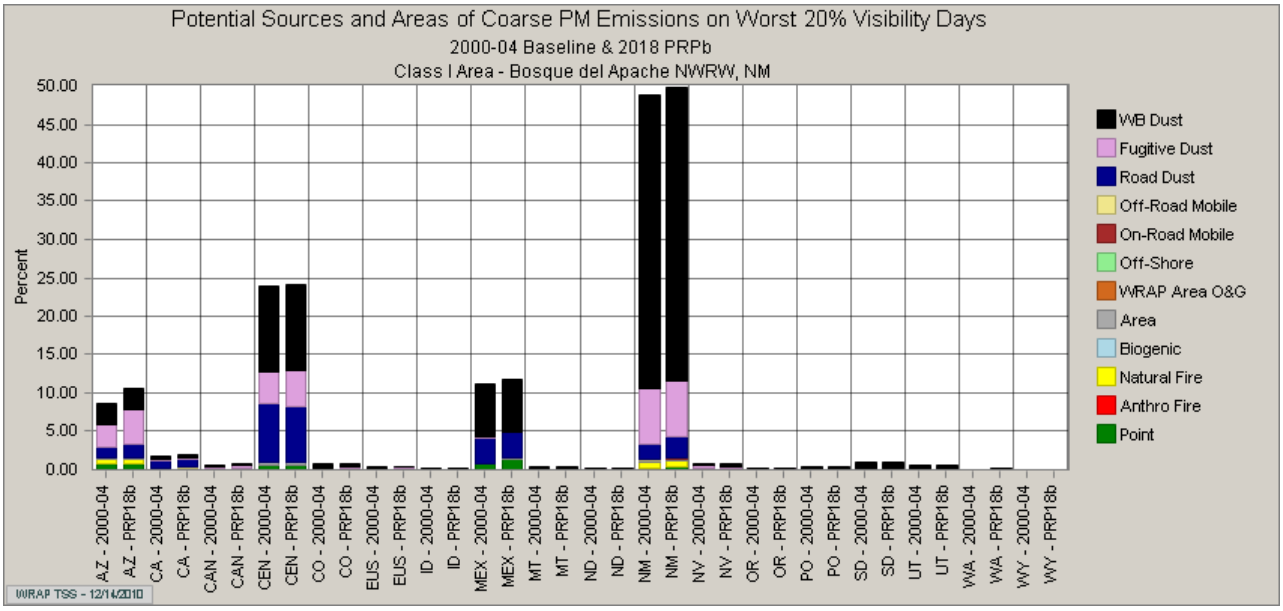
Contribution to NO3 at BOAP1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.004	0	0.014	0.02	0.012		0.05	37.3%
CEN	0.007	0	0.005	0.007	0.016		0.035	26.1%
OD						0.014	0.014	10.4%
AZ	0.002	0	0.003	0	0.005		0.01	7.5%
CO	0.001	0	0.001	0.002	0.002		0.006	4.5%

Bosque del Apache National Wildlife Refuge, New Mexico – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Bosque del Apache NWRW, NM
Percent
44.00
40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Bosque del Apache NWRW, NM
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

San Pedro Parks Wilderness, New Mexico – PSAT Analysis

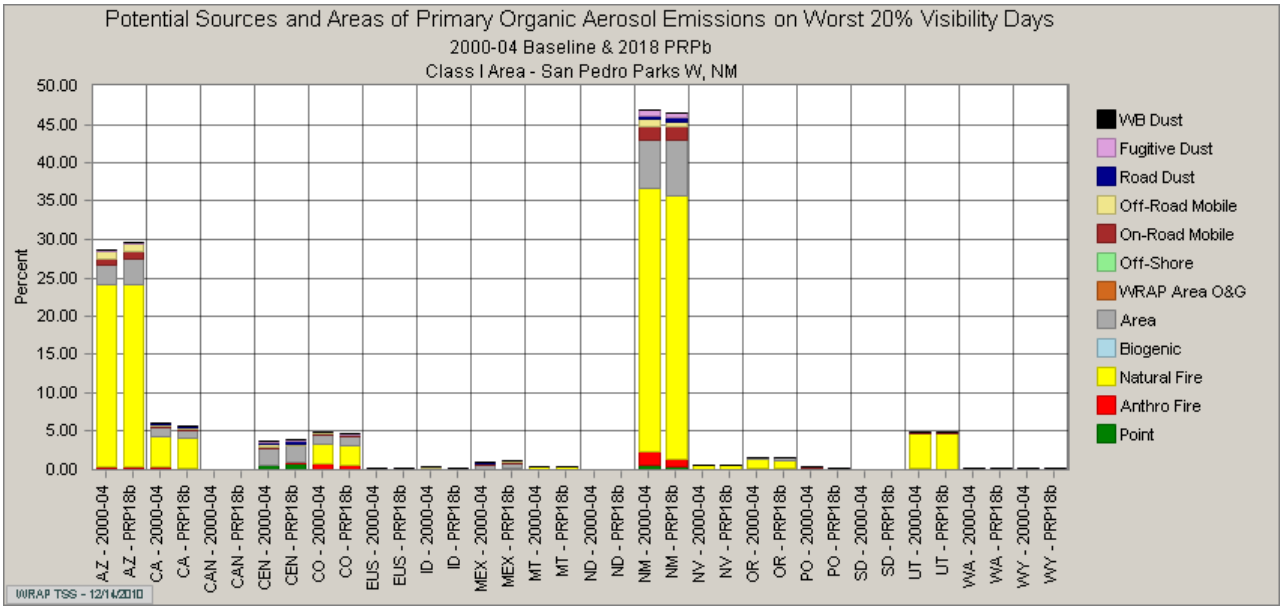
Contribution to SO4 at SAPE1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.18	0.18	25.8%
CEN	0	0	0.006	0.013	0.094		0.113	16.2%
MEX	0	0	0.002	0.013	0.072		0.087	12.5%
NM	0.002	0	0.007	0.01	0.048		0.067	9.6%
AZ	0.002	0	0.004	0.001	0.053		0.06	8.6%
EUS	0	0	0.002	0.003	0.053		0.058	8.3%
PO	0	0	0.001	0.023	0.013		0.037	5.3%

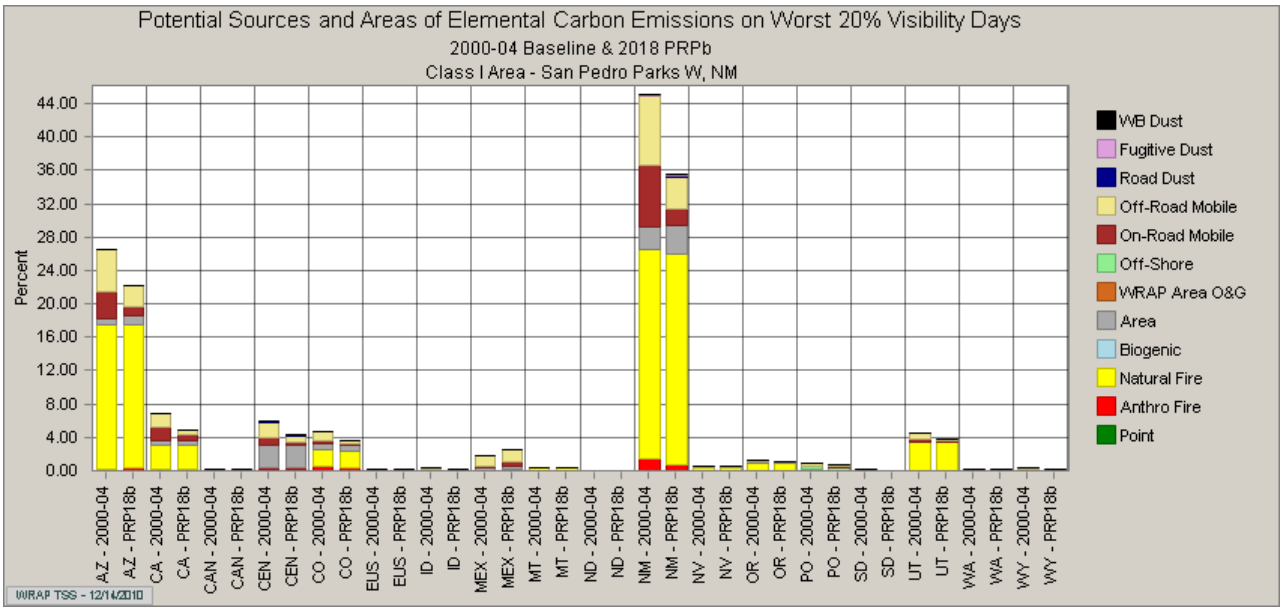
Contribution to SO4 at SAPE1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.186	0.186	27.3%
NM	0.002	0	0.003	0.028	0.064		0.097	14.2%
MEX	0	0	0.002	0.013	0.078		0.093	13.7%
CEN	0	0	0	0.013	0.066		0.079	11.6%
AZ	0.002	0	0.002	0.002	0.06		0.066	9.7%
PO	0	0	0.001	0.023	0.014		0.038	5.6%
EUS	0	0	0.001	0.004	0.023		0.028	4.1%

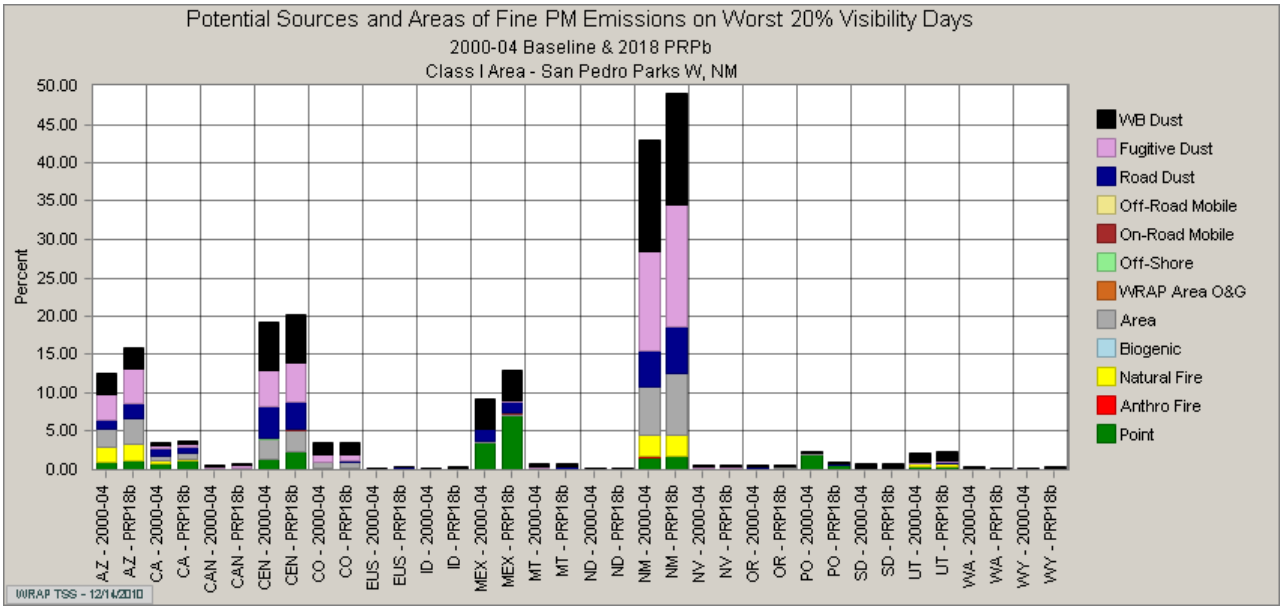
Contribution to NO3 at SAPE1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.001	0	0.011	0.007	0.01		0.029	38.7%
CEN	0.002	0	0.005	0.002	0.004		0.013	17.3%
AZ	0.001	0	0.005	0	0.004		0.01	13.3%
OD						0.008	0.008	10.7%
CA	0	0	0.004	0.001	0.001		0.006	8.0%

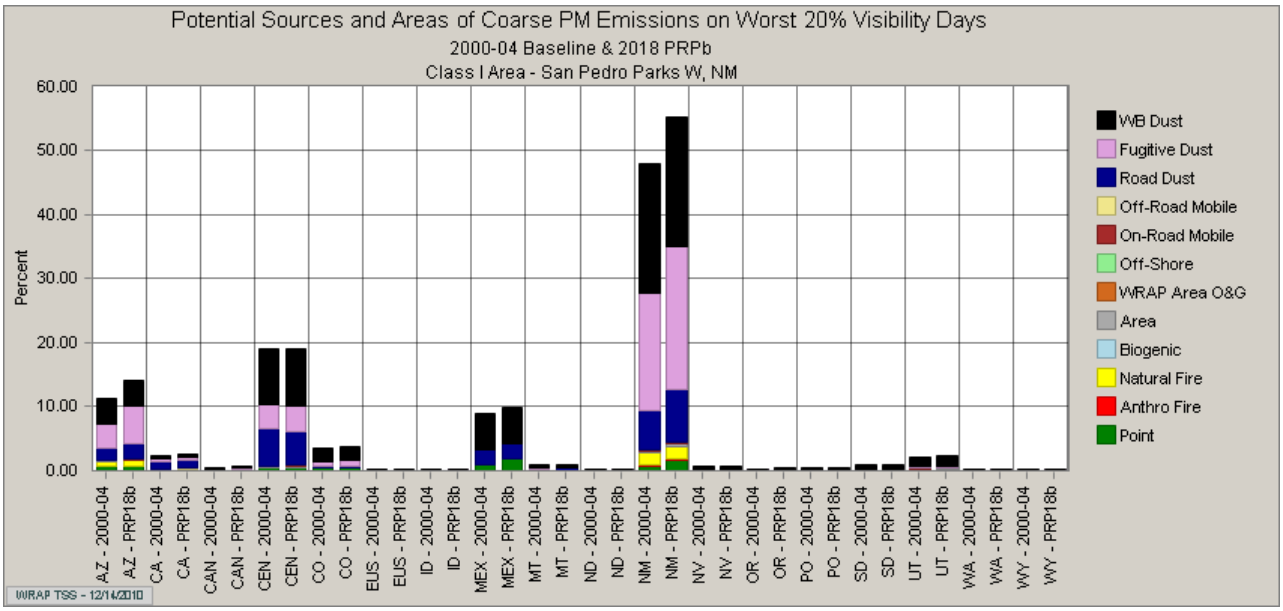
Contribution to NO3 at SAPE1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.002	0	0.006	0.018	0.012		0.038	45.8%
CEN	0.002	0	0.002	0.002	0.006		0.012	14.5%
AZ	0.002	0	0.003	0	0.006		0.011	13.3%
OD						0.01	0.01	12.0%
CA	0	0	0.002	0.001	0.001		0.004	4.8%

San Pedro Parks Wilderness, New Mexico – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - San Pedro Parks W, NM
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - San Pedro Parks W, NM
Percent
60.00
50.00
40.00
30.00
20.00
10.00
0.00
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WRAP TSS - 12/14/2010

Bandelier National Monument, New Mexico – PSAT Analysis

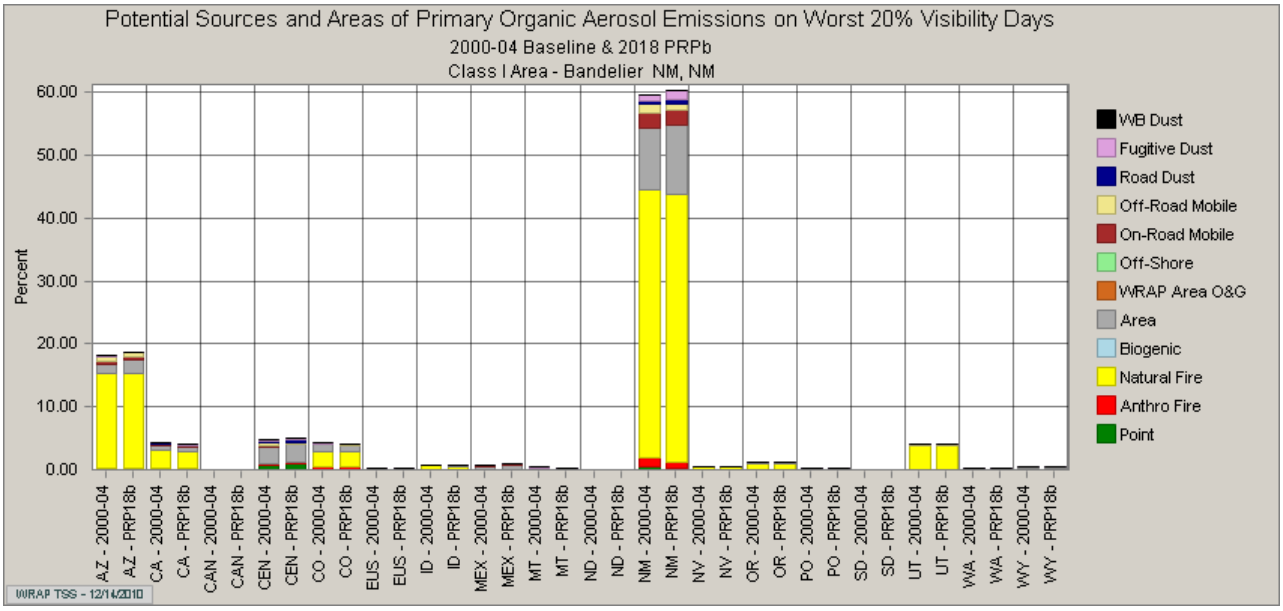
Contribution to SO4 at BAND1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.218	0.218	26.2%
CEN	0	0	0.007	0.016	0.113		0.136	16.3%
NM	0.005	0	0.009	0.014	0.095		0.123	14.8%
EUS	0	0	0.003	0.006	0.093		0.102	12.2%
MEX	0	0	0.002	0.011	0.065		0.078	9.4%
AZ	0.002	0	0.004	0.001	0.055		0.062	7.4%

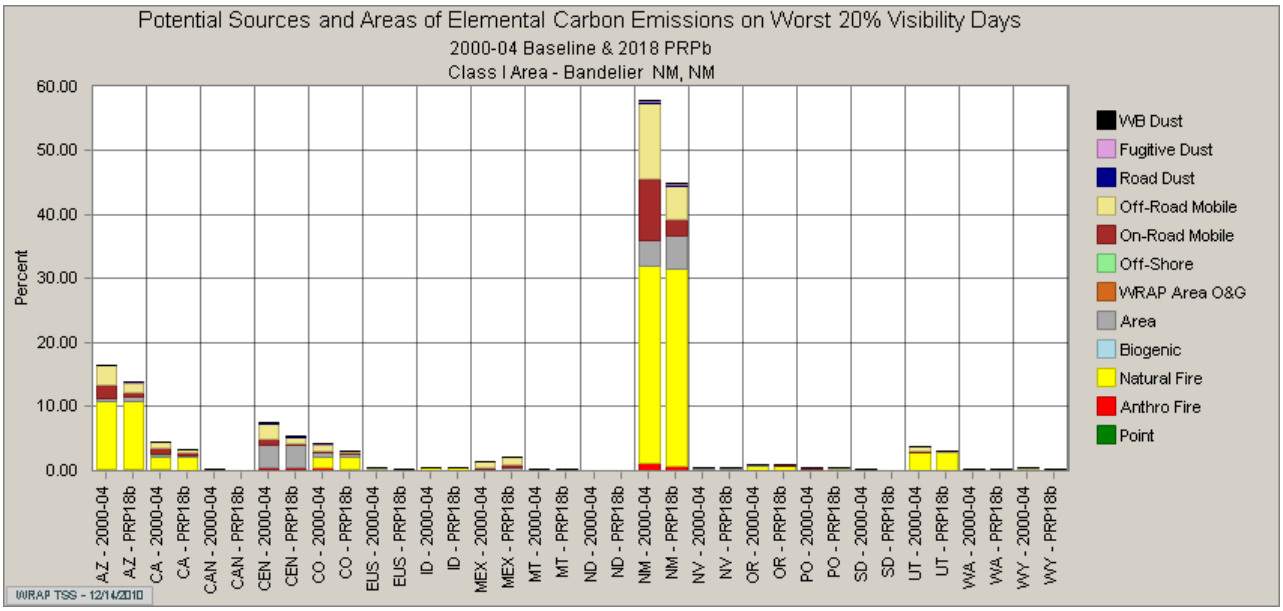
Contribution to SO4 at BAND1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.219	0.219	29.2%
NM	0.005	0	0.003	0.032	0.097		0.137	18.3%
CEN	0	0	0.001	0.016	0.076		0.093	12.4%
MEX	0	0	0.002	0.011	0.068		0.081	10.8%
AZ	0.002	0	0.001	0.002	0.06		0.065	8.7%
EUS	0	0	0.001	0.006	0.04		0.047	6.3%

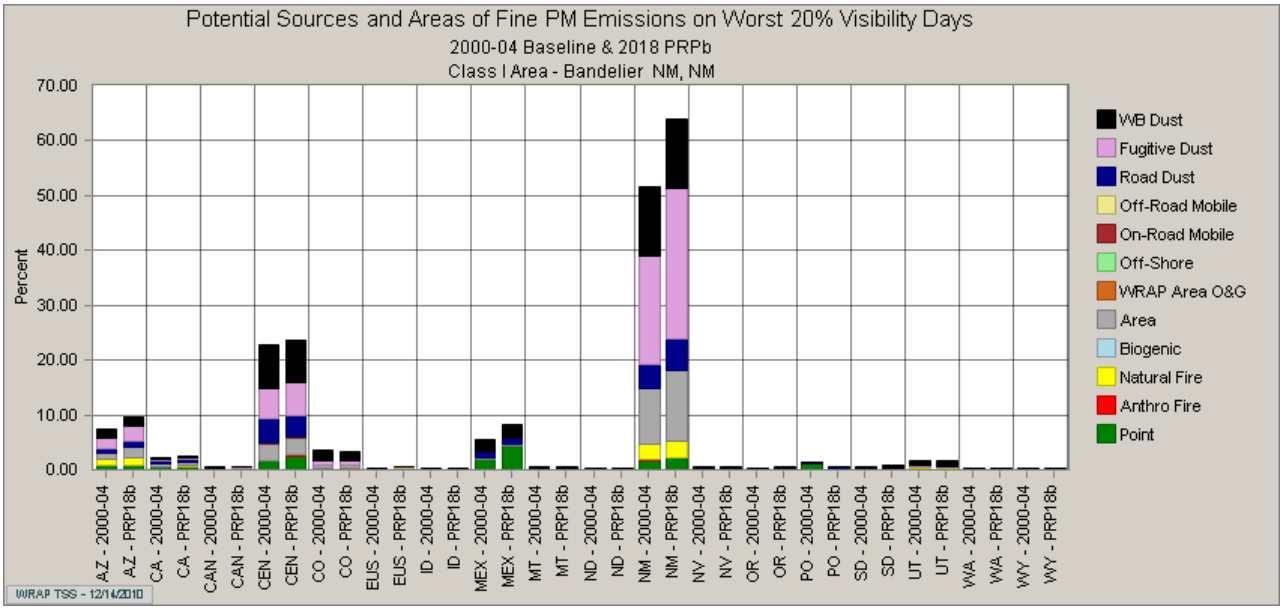
Contribution to NO3 at BAND1 (2002 Base)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.002	0	0.023	0.021	0.034		0.08	42.6%
OD						0.029	0.029	15.4%
CEN	0.003	0	0.008	0.002	0.007		0.02	10.6%
AZ	0.002	0	0.01	0	0.006		0.018	9.6%
CA	0	0	0.009	0.001	0.001		0.011	5.9%
UT	0	0	0.004	0	0.007		0.011	5.9%

Contribution to NO3 at BAND1 (2018 Projections)								
State or Region	**Nat. Fire/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
NM	0.002	0	0.01	0.051	0.031		0.094	47.7%
OD						0.033	0.033	16.8%
CEN	0.004	0	0.003	0.003	0.008		0.018	9.1%
AZ	0.002	0	0.005	0	0.01		0.017	8.6%
CO	0.001	0	0.001	0.006	0.002		0.01	5.1%
UT	0	0	0.002	0.001	0.004		0.007	3.6%

Bandelier National Monument, New Mexico – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Bandelier NM, NM
Percent
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
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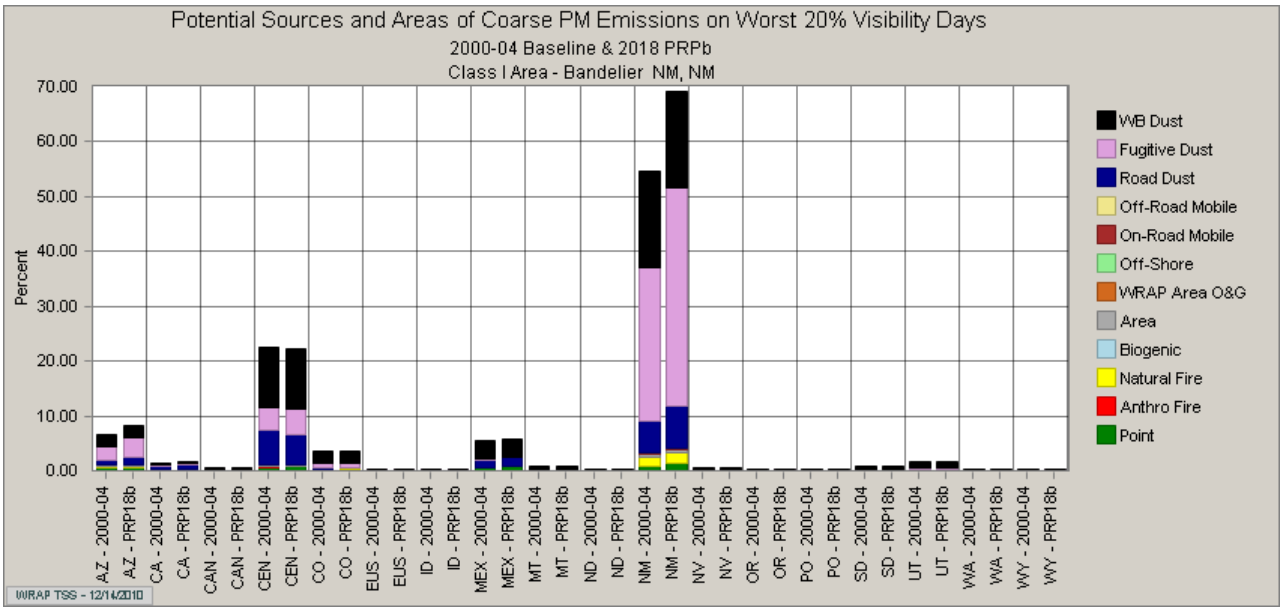
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Bandelier NM, NM
Percent
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
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MEX - 2000-04
MEX - PRP18b
MT - 2000-04
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ND - 2000-04
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OR - PRP18b
PO - 2000-04
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SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WRAP TSS - 12/14/2010

Zion National Park, Utah – PSAT Analysis

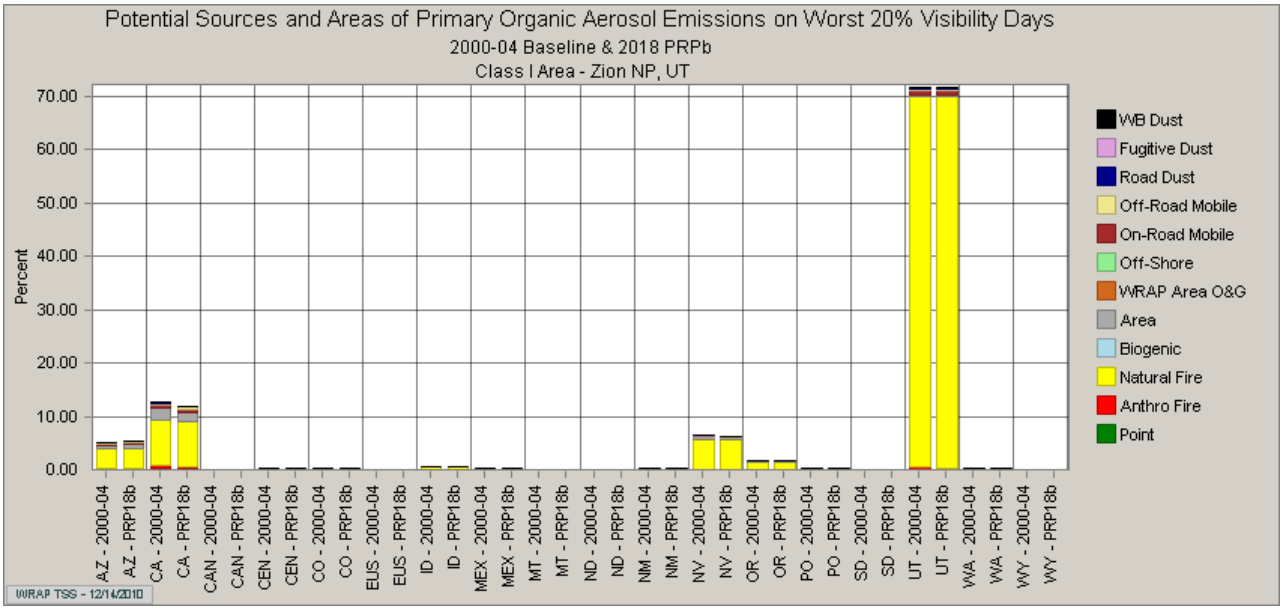
Contribution to SO4 at ZION1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fire**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.221	0.221	32.5%
PO	0	0	0.002	0.061	0.027		0.09	13.2%
UT	0.034	0	0.007	0.003	0.02		0.064	9.4%
NV	0.006	0	0.003	0.008	0.044		0.061	9.0%
CA	0.014	0	0.01	0.008	0.027		0.059	8.7%
MEX	0	0	0.002	0.013	0.042		0.057	8.4%
AZ	0.003	0	0.003	0.001	0.013		0.02	2.9%

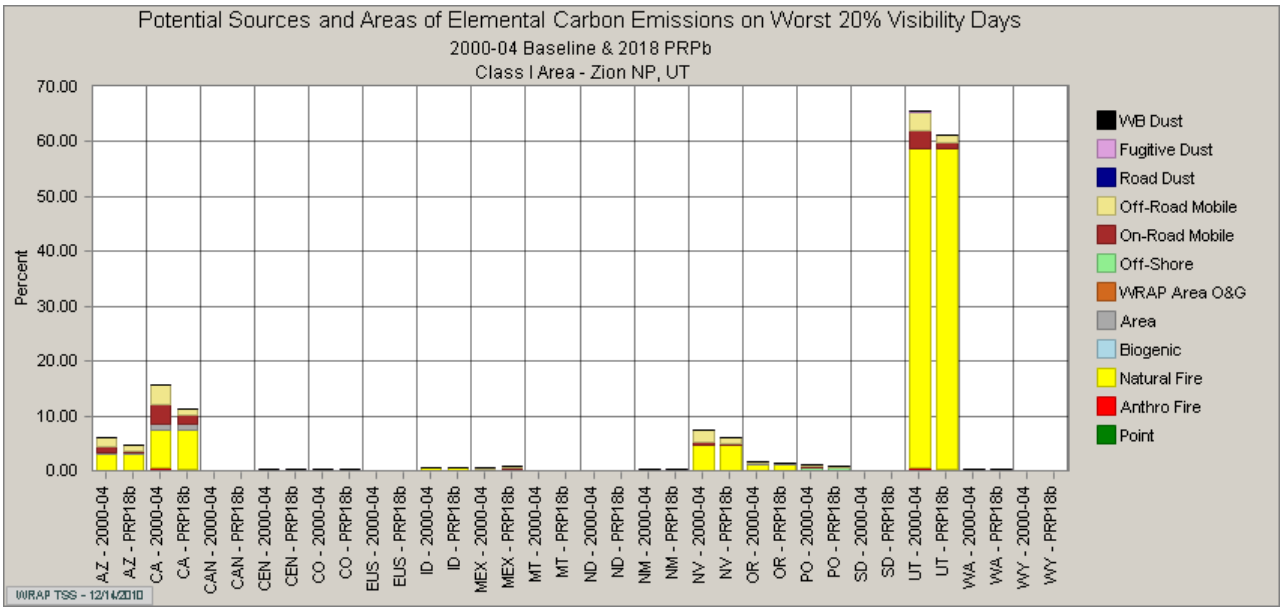
Contribution to SO4 at ZION1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fire**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.221	0.221	35.5%
PO	0	0	0.001	0.061	0.028		0.09	14.4%
UT	0.034	0	0.003	0.003	0.024		0.064	10.3%
MEX	0	0	0.002	0.013	0.043		0.058	9.3%
CA	0.013	0	0.006	0.008	0.027		0.054	8.7%
NV	0.006	0	0.002	0.009	0.018		0.035	5.6%
AZ	0.003	0	0.001	0.001	0.016		0.021	3.4%

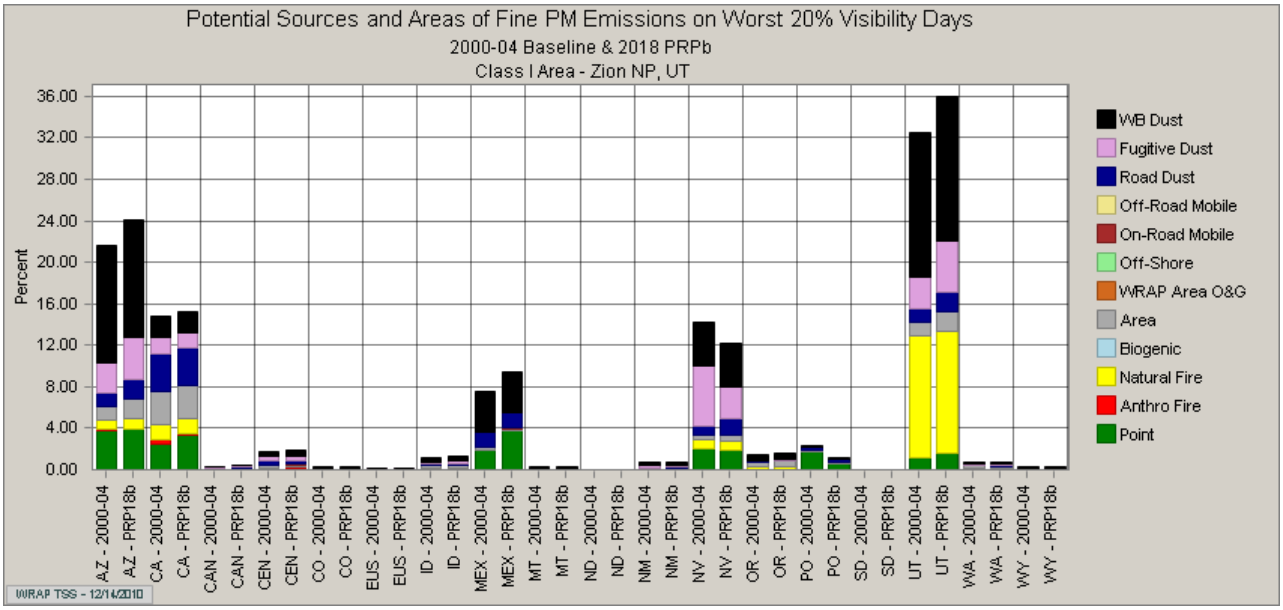
Contribution to NO3 at ZION1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
UT	0.002	0	0.029	0.002	0.027		0.06	28.2%
OD						0.049	0.049	23.0%
CA	0.002	0	0.033	0.005	0.004		0.044	20.7%
NV	0.001	0	0.009	0.001	0.007		0.018	8.5%
PO	0	0	0.003	0.004	0.001		0.008	3.8%
AZ	0.001	0	0.005	0	0.001		0.007	3.3%

Contribution to NO3 at ZION1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fire**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.055	0.055	29.6%
UT	0.002	0	0.015	0.003	0.026		0.046	24.7%
CA	0.002	0	0.016	0.006	0.006		0.03	16.1%
NV	0.001	0	0.005	0.001	0.008		0.015	8.1%
AZ	0.001	0	0.003	0	0.006		0.01	5.4%
PO	0	0	0.002	0.005	0		0.007	3.8%

Zion National Park, Utah – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Zion NP, UT
Percent
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
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WA - 2000-04
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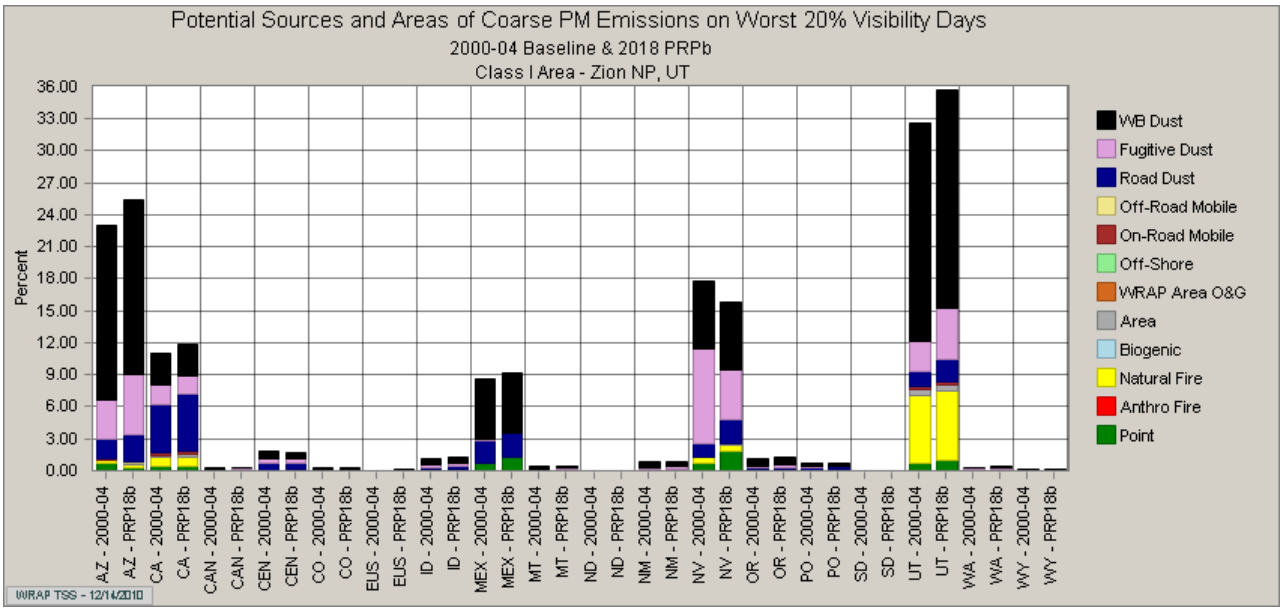
WY - PRP18b
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Zion NP, UT
Percent
36.00
33.00
30.00
27.00
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WRAP TSS - 12/14/2010

Bryce Canyon National Park, Utah – PSAT Analysis

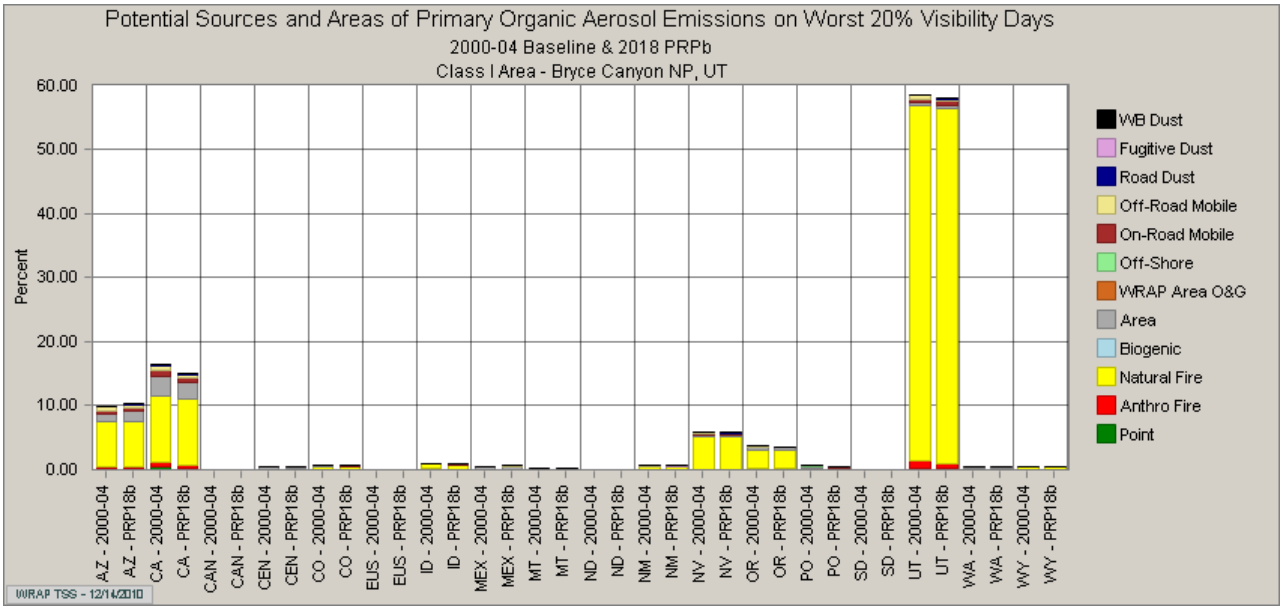
Contribution to SO4 at BRCA1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.192	0.192	34.5%
PO	0	0	0.001	0.051	0.022		0.074	13.3%
MEX	0	0	0.002	0.011	0.04		0.053	9.5%
CA	0.011	0	0.008	0.007	0.023		0.049	8.8%
NV	0.007	0	0.002	0.006	0.031		0.046	8.3%
UT	0.017	0	0.003	0.001	0.012		0.033	5.9%
EUS	0	0	0.001	0.001	0.021		0.023	4.1%
AZ	0.003	0	0.002	0.001	0.008		0.014	2.5%

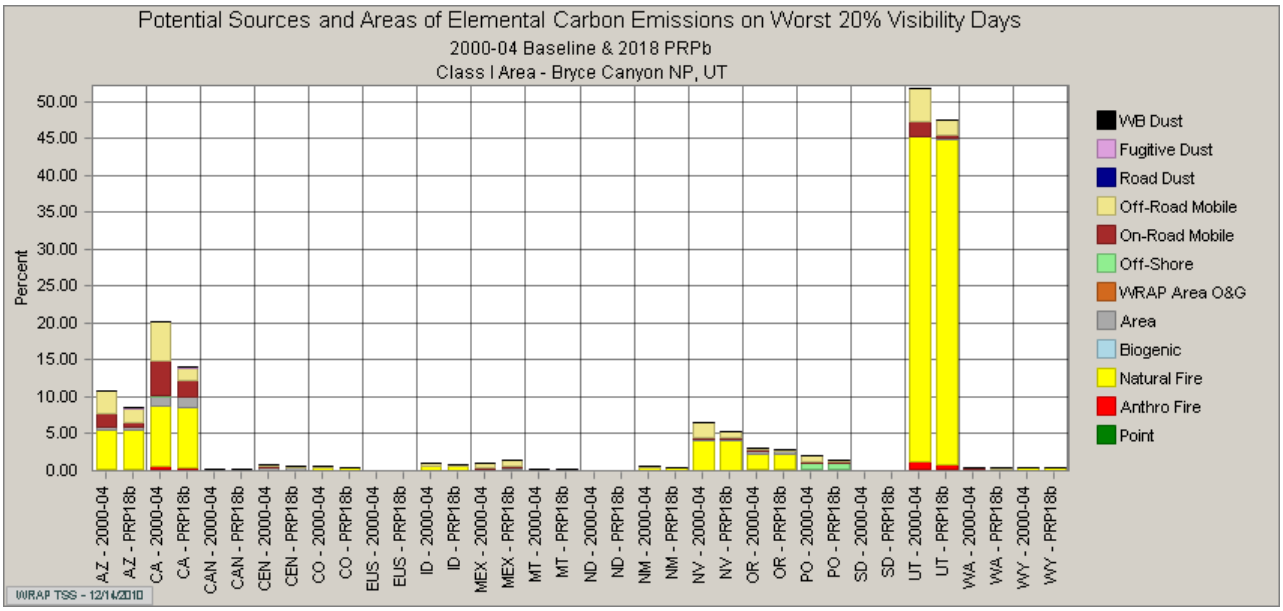
Contribution to SO4 at BRCA1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.191	0.191	37.8%
PO	0	0	0.001	0.05	0.022		0.073	14.5%
MEX	0	0	0.002	0.011	0.039		0.052	10.3%
CA	0.013	0	0.005	0.007	0.023		0.048	9.5%
UT	0.017	0	0.001	0.001	0.013		0.032	6.3%
NV	0.007	0	0.001	0.006	0.01		0.024	4.8%
AZ	0.003	0	0.001	0.001	0.01		0.015	3.0%

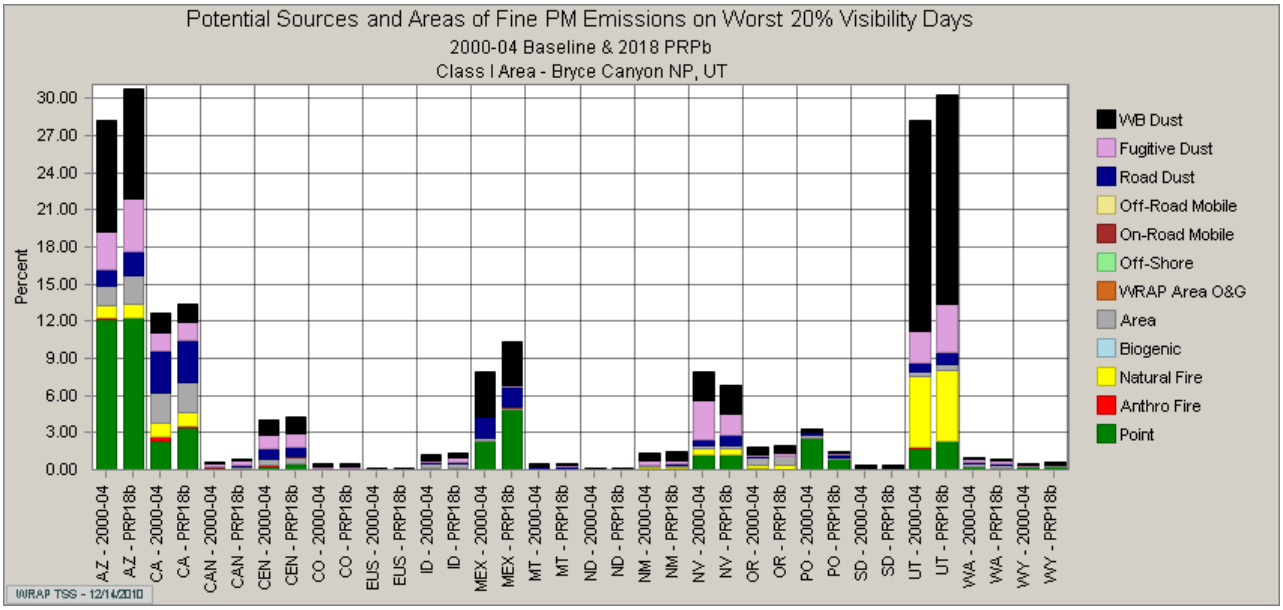
Contribution to NO3 at BRCA1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
CA	0.002	0	0.026	0.004	0.004		0.036	34.0%
OD						0.028	0.028	26.4%
UT	0.001	0	0.007	0	0.005		0.013	12.3%
NV	0.001	0	0.005	0	0.004		0.01	9.4%
PO	0	0	0.002	0.003	0		0.005	4.7%
AZ	0.001	0	0.004	0	0		0.005	4.7%

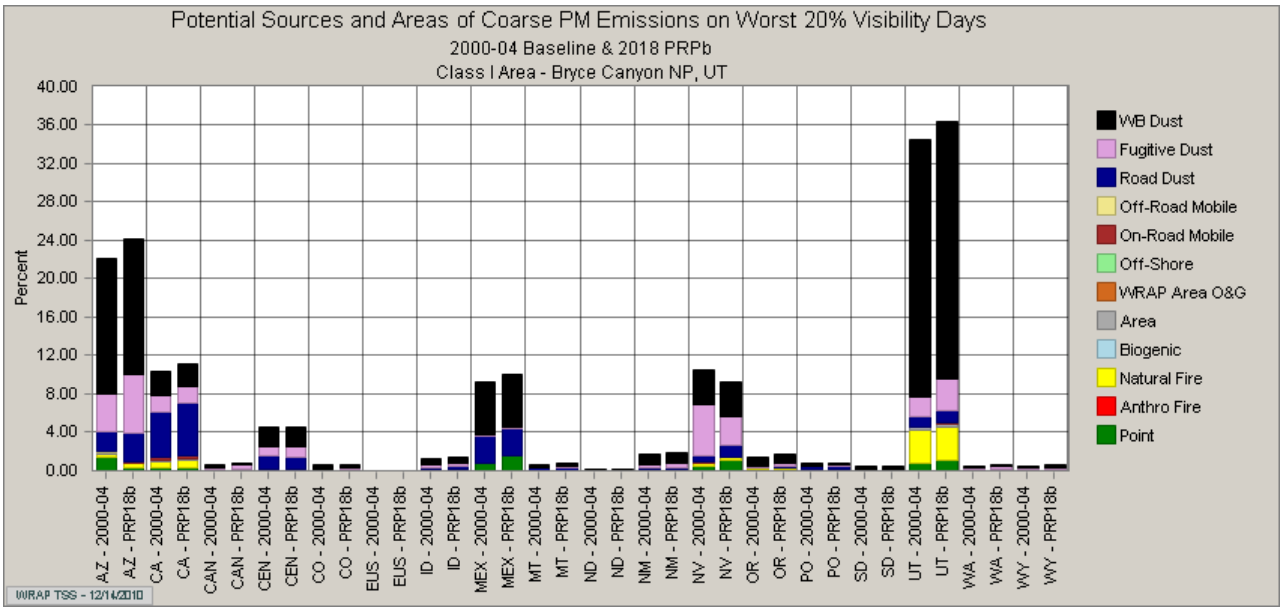
Contribution to NO3 at BRCA1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.035	0.035	35.7%
CA	0.002	0	0.014	0.005	0.005		0.026	26.5%
UT	0.001	0	0.004	0.001	0.005		0.011	11.2%
NV	0	0	0.003	0.001	0.005		0.009	9.2%
PO	0	0	0.001	0.004	0		0.005	5.1%
AZ	0.001	0	0.002	0	0.001		0.004	4.1%

Bryce Canyon National Park, Utah – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Bryce Canyon NP, UT
Percent
30.00
27.00
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Bryce Canyon NP, UT
Percent
40.00
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Capital Reef National Park, Utah – PSAT Analysis

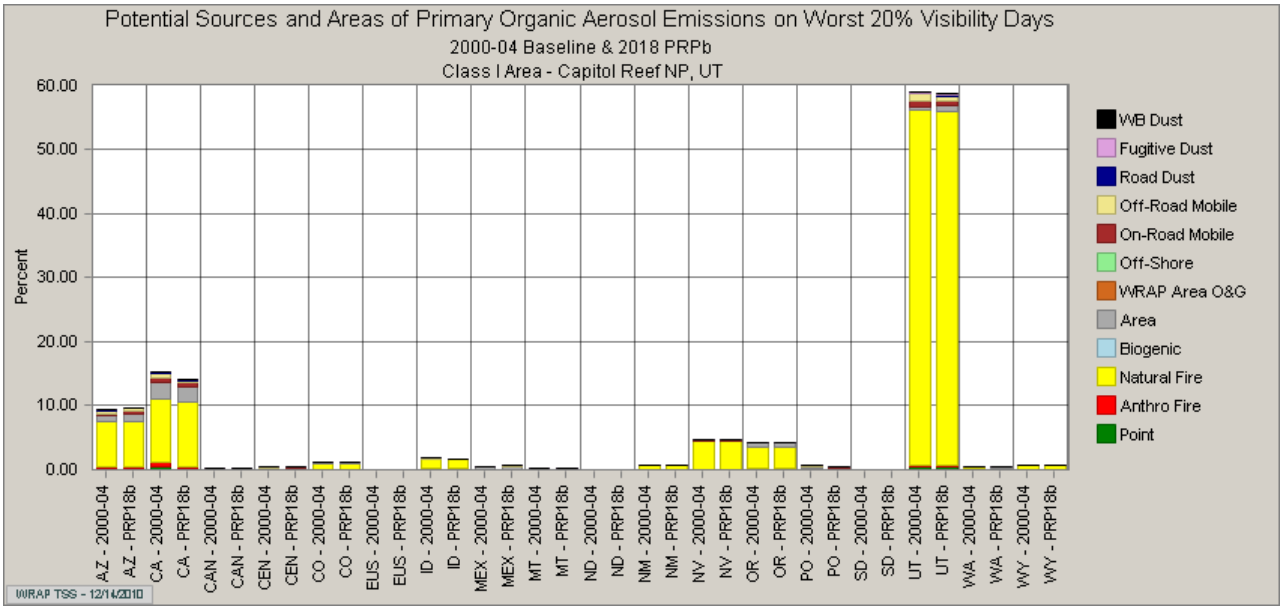
Contribution to SO4 at CAPI1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.197	0.197	40.5%
PO	0	0	0.001	0.033	0.014		0.048	9.9%
UT	0.005	0	0.005	0.002	0.032		0.044	9.0%
MEX	0	0	0.001	0.007	0.028		0.036	7.4%
CA	0.008	0	0.006	0.005	0.016		0.035	7.2%
NV	0.005	0	0.001	0.004	0.02		0.03	6.2%
AZ	0.002	0	0.002	0	0.01		0.014	2.9%

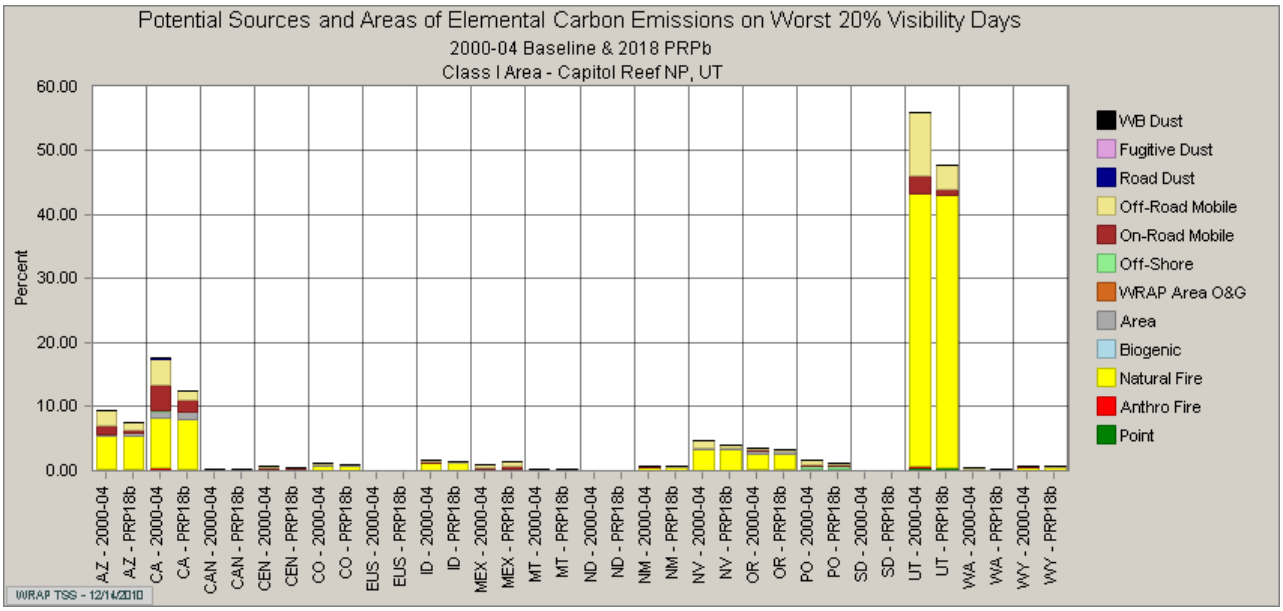
Contribution to SO4 at CAPI1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.197	0.197	42.4%
PO	0	0	0.001	0.033	0.015		0.049	10.5%
UT	0.006	0	0.002	0.002	0.035		0.045	9.7%
MEX	0	0	0.001	0.007	0.03		0.038	8.2%
CA	0.009	0	0.003	0.005	0.016		0.033	7.1%
NV	0.005	0	0.001	0.004	0.008		0.018	3.9%
AZ	0.002	0	0.001	0.001	0.014		0.018	3.9%

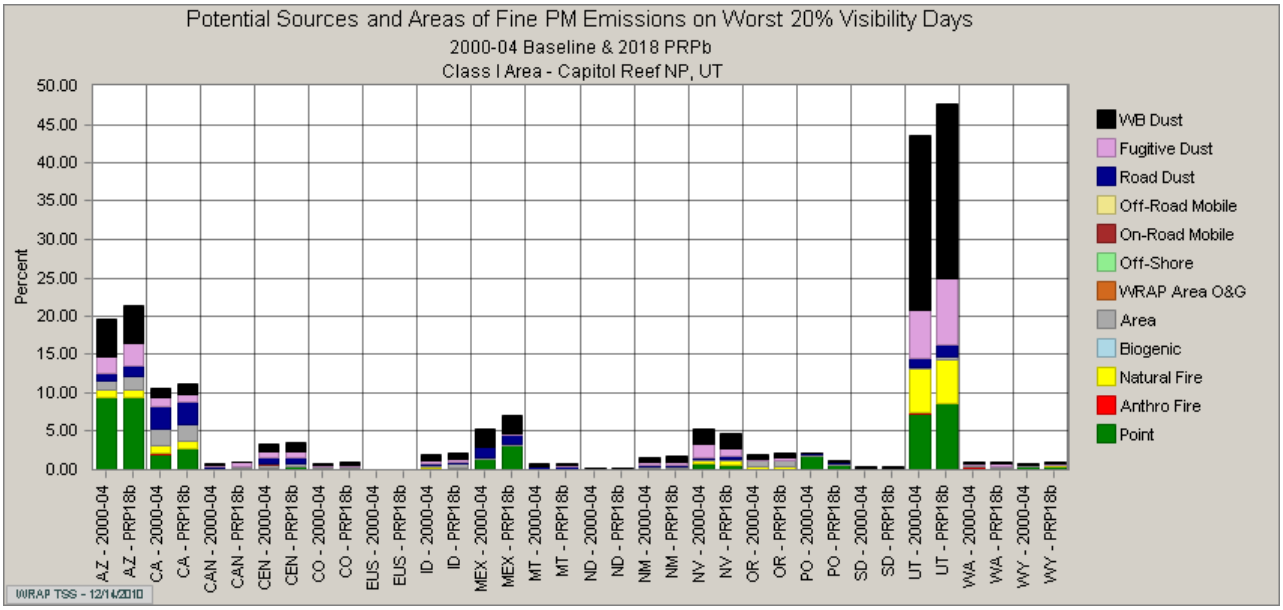
Contribution to NO3 at CAPI1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
UT	0.003	0	0.031	0.002	0.047		0.083	40.5%
OD						0.049	0.049	23.9%
CA	0.001	0	0.02	0.003	0.003		0.027	13.2%
NV	0.001	0	0.005	0	0.004		0.01	4.9%
AZ	0.001	0	0.007	0	0.001		0.009	4.4%

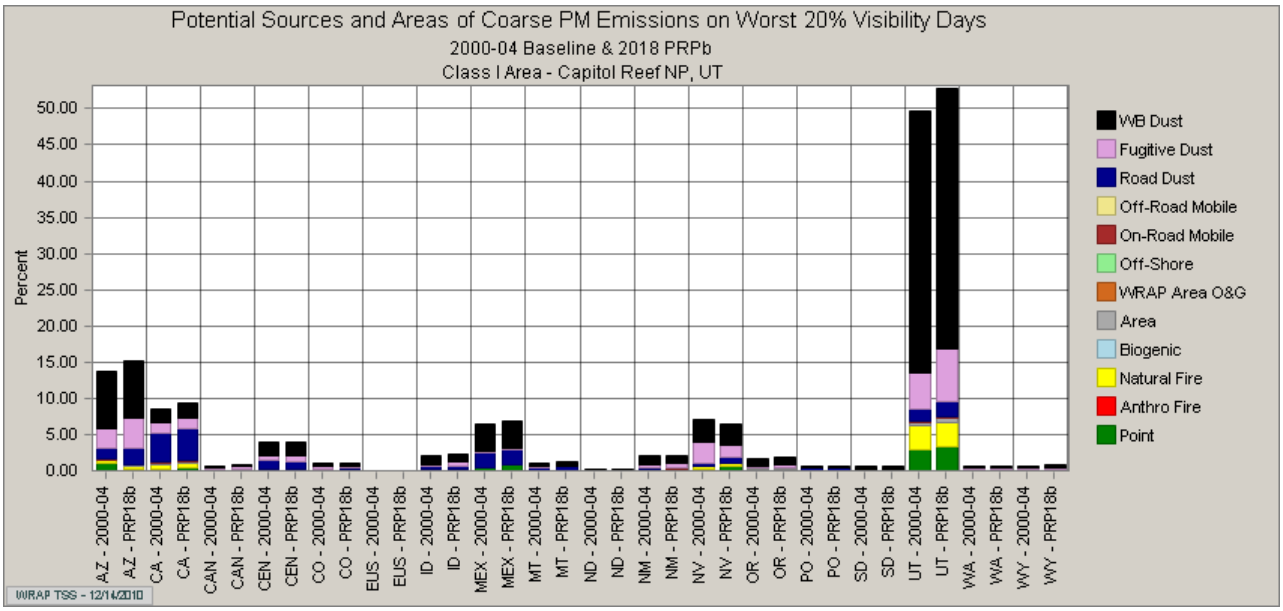
Contribution to NO3 at CAPI1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.054	0.054	29.2%
UT	0.003	0	0.015	0.003	0.03		0.051	27.6%
AZ	0.001	0	0.004	0	0.022		0.027	14.6%
CA	0.002	0	0.011	0.004	0.004		0.021	11.4%
NV	0.001	0	0.003	0.001	0.006		0.011	5.9%

Capital Reef National Park, Utah – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Capitol Reef NP, UT
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
ID - 2000-04
ID - PRP18b
MEX - 2000-04
MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Area - Capitol Reef NP, UT
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
CO - PRP18b
EUS - 2000-04
EUS - PRP18b
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MEX - 2000-04
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MT - 2000-04
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NV - PRP18b
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PO - 2000-04
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SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010

Canyonlands National Park and Arches National Park, Utah – PSAT Analysis

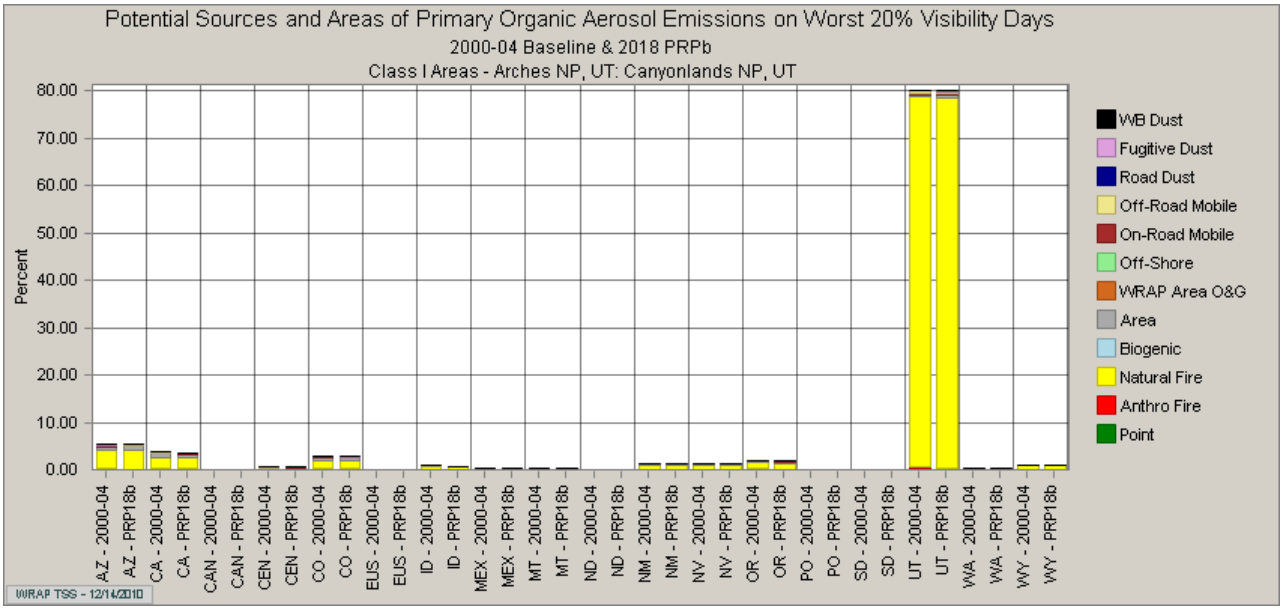
Contribution to SO4 at CANY1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.21	0.21	33.6%
UT	0.013	0	0.007	0.003	0.054		0.077	12.3%
MEX	0	0	0.002	0.009	0.044		0.055	8.8%
PO	0	0	0.001	0.036	0.015		0.052	8.3%
NM	0.001	0	0.001	0.001	0.036		0.039	6.2%
CA	0.007	0	0.006	0.005	0.017		0.035	5.6%
NV	0.004	0	0.001	0.004	0.021		0.03	4.8%
AZ	0.003	0	0.003	0.001	0.018		0.025	4.0%

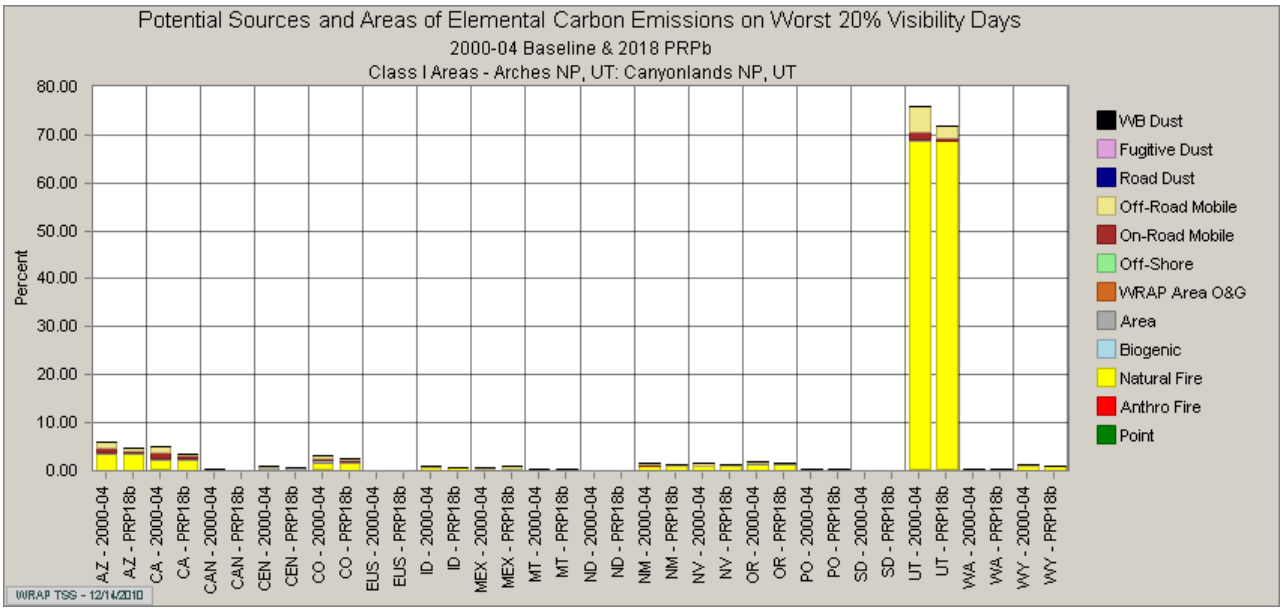
Contribution to SO4 at CANY1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
OD						0.216	0.216	35.5%
UT	0.013	0	0.002	0.003	0.06		0.078	12.8%
MEX	0	0	0.002	0.01	0.049		0.061	10.0%
PO	0	0	0.001	0.036	0.016		0.053	8.7%
NM	0.001	0	0	0.002	0.032		0.035	5.7%
AZ	0.004	0	0.001	0.001	0.027		0.033	5.4%
CA	0.007	0	0.003	0.005	0.017		0.032	5.3%

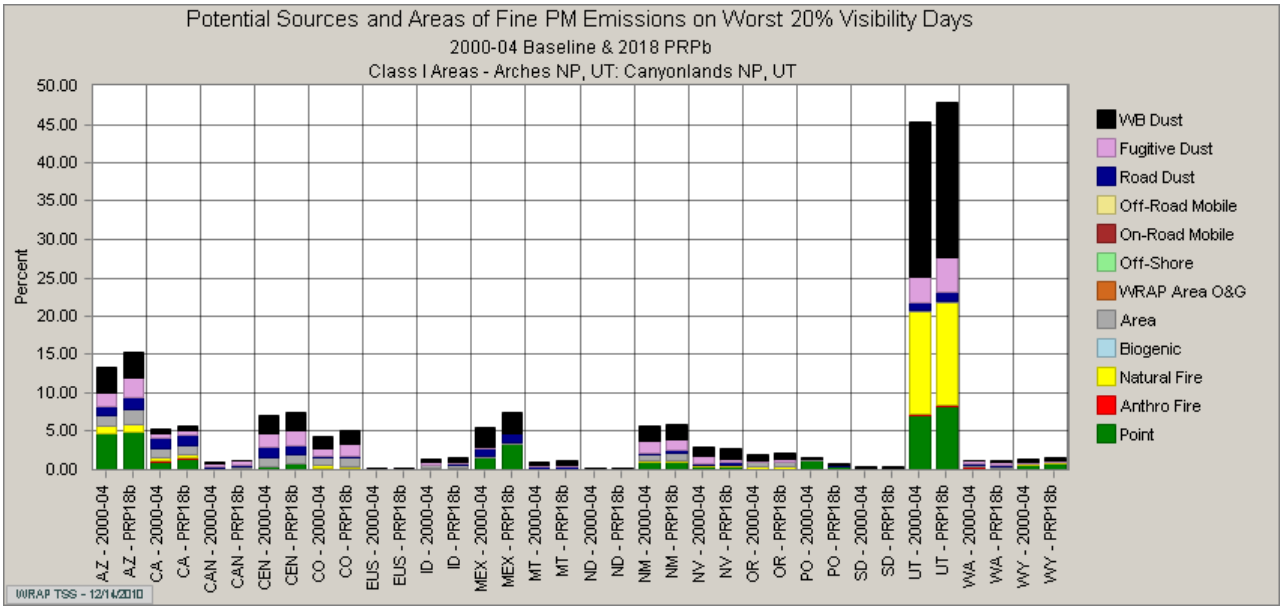
Contribution to NO3 at CANY1 (2002 Base)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
UT	0.003	0	0.018	0.003	0.029		0.053	33.3%
OD						0.03	0.03	18.9%
NM	0	0	0.001	0.003	0.018		0.022	13.8%
CA	0.001	0	0.014	0.002	0.002		0.019	11.9%
CO	0.001	0	0.005	0.002	0.003		0.011	6.9%
AZ	0.001	0	0.007	0	0.002		0.01	6.3%

Contribution to NO3 at CANY1 (2018 Projections)								
State or Region	**Nat Fires/Bio**	**Anthro Fires**	**Mobile**	**Area**	**Point**	**Outside Domain**	**Total**	**% Contribution**
UT	0.003	0	0.01	0.006	0.026		0.045	28.1%
OD						0.036	0.036	22.5%
NM	0	0	0	0.011	0.018		0.029	18.1%
CA	0.002	0	0.007	0.003	0.003		0.015	9.4%
AZ	0.001	0	0.003	0	0.009		0.013	8.1%
CO	0.001	0	0.002	0.005	0.003		0.011	6.9%

Canyonlands National Park and Arches National Park, Utah – WEP Analysis






Potential Sources and Areas of Fine PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Areas - Arches NP, UT: Canyonlands NP, UT
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
CEN - 2000-04
CEN - PRP18b
CO - 2000-04
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EUS - 2000-04
EUS - PRP18b
ID - 2000-04
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MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
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NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
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WA - PRP18b
WY - 2000-04
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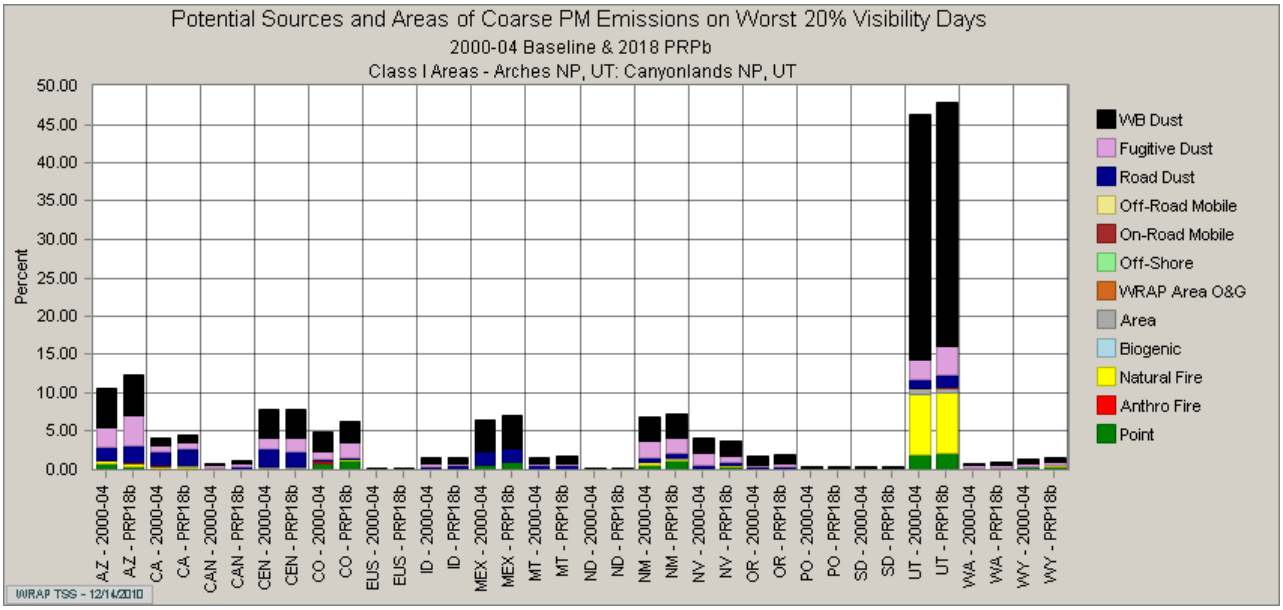
WB Dust
Fugitive Dust
Road Dust
Off-Road Mobile
On-Road Mobile
Off-Shore
WRAP Area O&G
Area
Biogenic
Natural Fire
Anthro Fire
Point
WRAP TSS - 12/14/2010


Potential Sources and Areas of Coarse PM Emissions on Worst 20% Visibility Days
2000-04 Baseline & 2018 PRPb
Class I Areas - Arches NP, UT: Canyonlands NP, UT
Percent
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
AZ - 2000-04
AZ - PRP18b
CA - 2000-04
CA - PRP18b
CAN - 2000-04
CAN - PRP18b
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CEN - PRP18b
CO - 2000-04
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EUS - 2000-04
EUS - PRP18b
ID - 2000-04
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MEX - PRP18b
MT - 2000-04
MT - PRP18b
ND - 2000-04
ND - PRP18b
NM - 2000-04
NM - PRP18b
NV - 2000-04
NV - PRP18b
OR - 2000-04
OR - PRP18b
PO - 2000-04
PO - PRP18b
SD - 2000-04
SD - PRP18b
UT - 2000-04
UT - PRP18b
WA - 2000-04
WA - PRP18b
WY - 2000-04
WY - PRP18b
WB Dust
Fugitive Dust
Road Dust
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On-Road Mobile
Off-Shore
WRAP Area O&G
Area
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Point
WRAP TSS - 12/14/2010