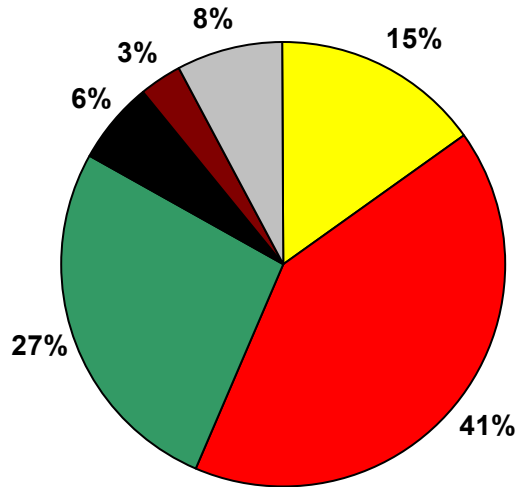


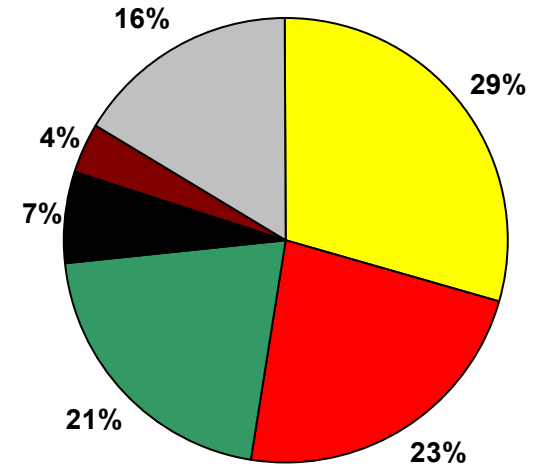
**MONITORING DATA**

**Craters of the Moon National Monument, ID  
2002 Reconstructed Extinction  
CRMO1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 35 Mm-1 (27 to 51 Mm-1)

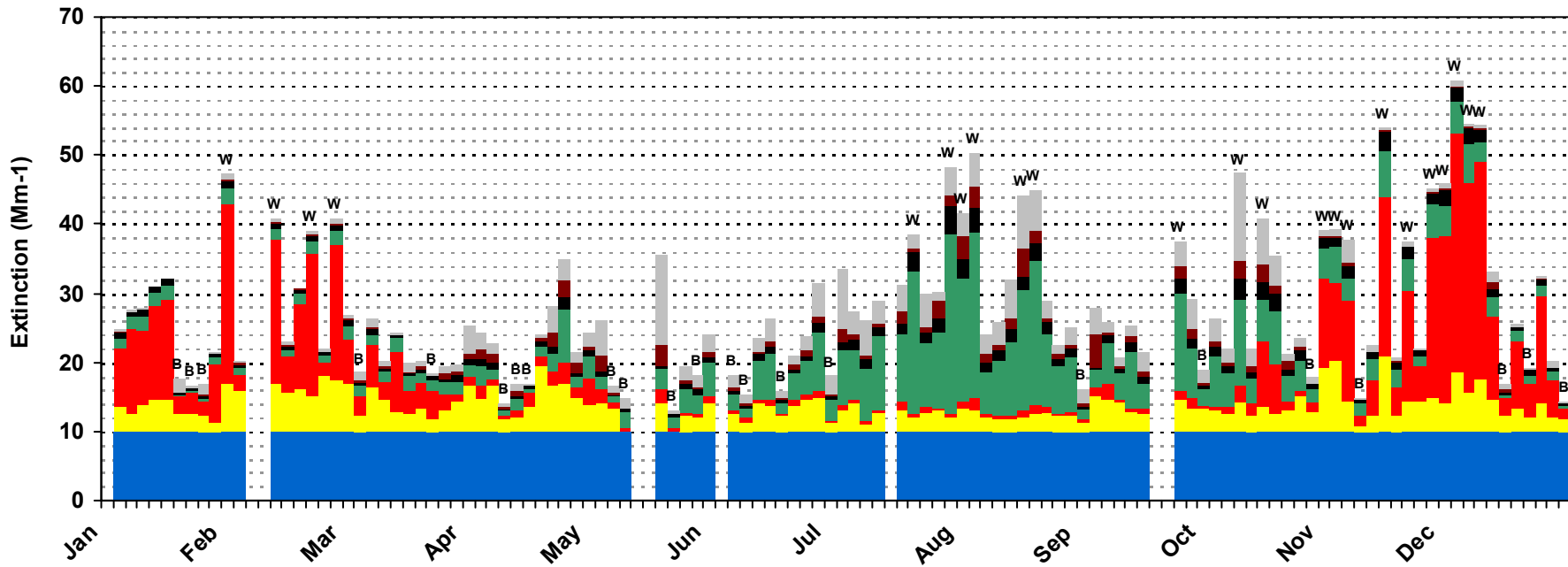


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (3 to 9 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

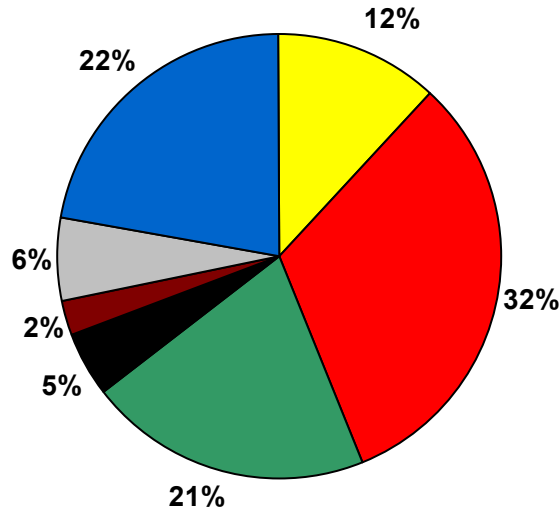
\*Excludes Rayleigh Extinction



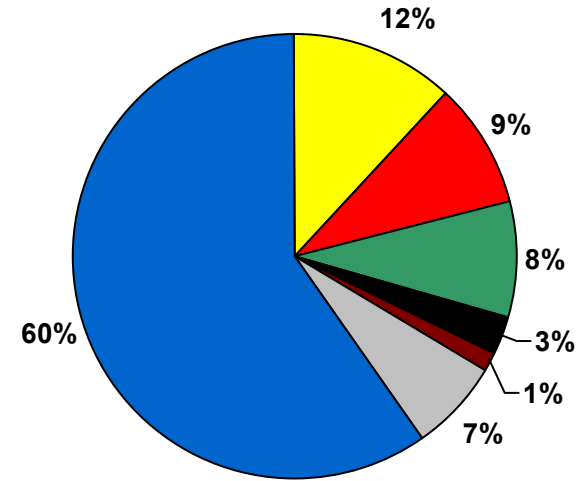
**MONITORING DATA**

**Craters of the Moon National Monument, ID  
2002 Reconstructed Extinction  
CRMO1 Monitoring Data (every third day)**

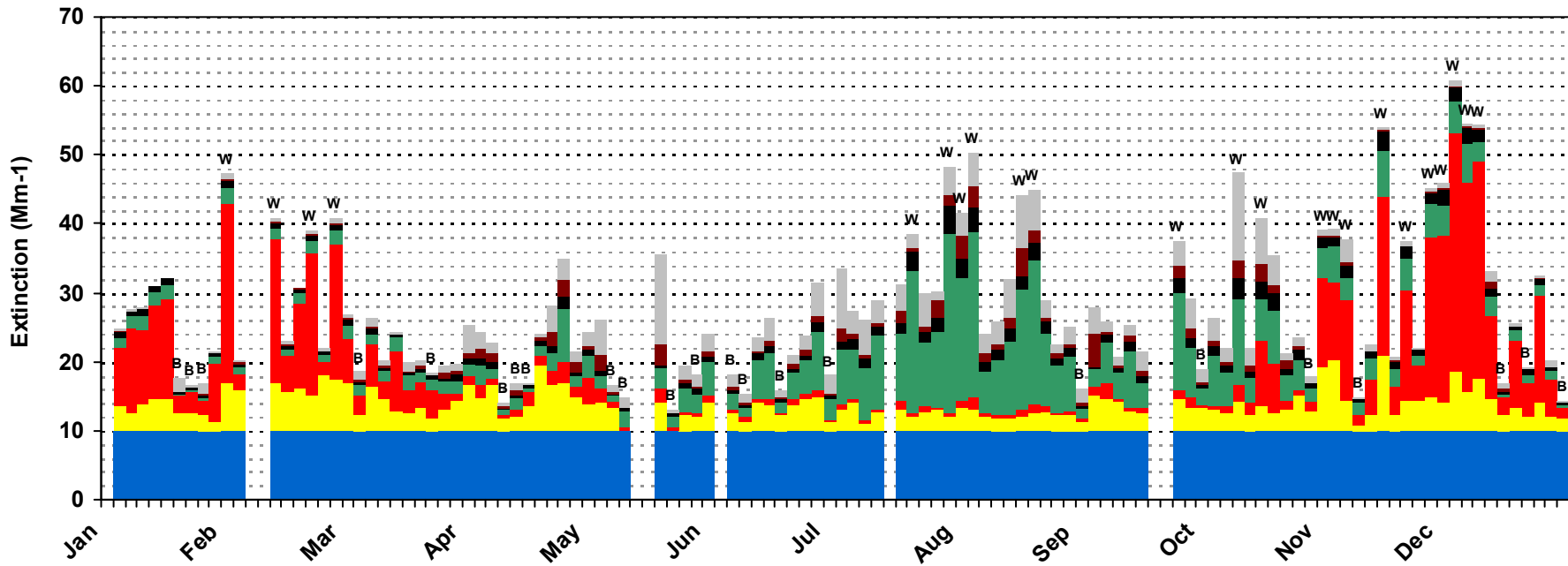
**20% Worst Visibility Days**  
Total Extinction = 45 Mm-1 (37 to 61 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (13 to 19 Mm-1)



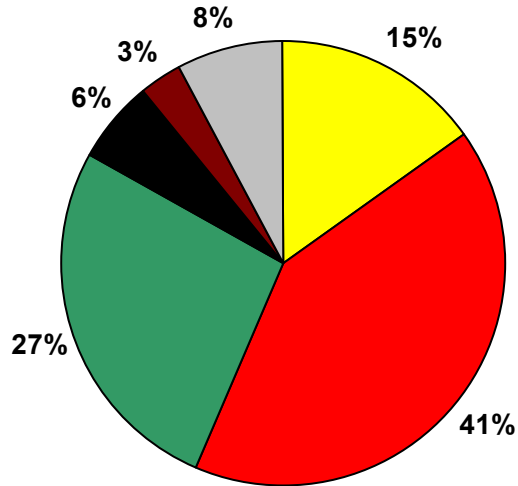
- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



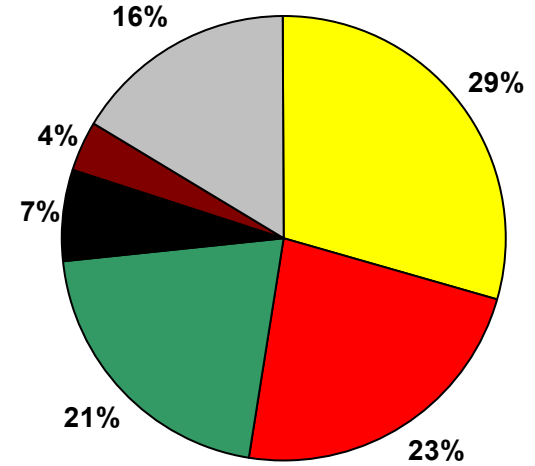
# MONITORING DATA

## Craters of the Moon National Monument, ID 2002 Reconstructed Extinction CRMO1 Monitoring Data (every third day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 35 Mm-1 (27 to 51 Mm-1)

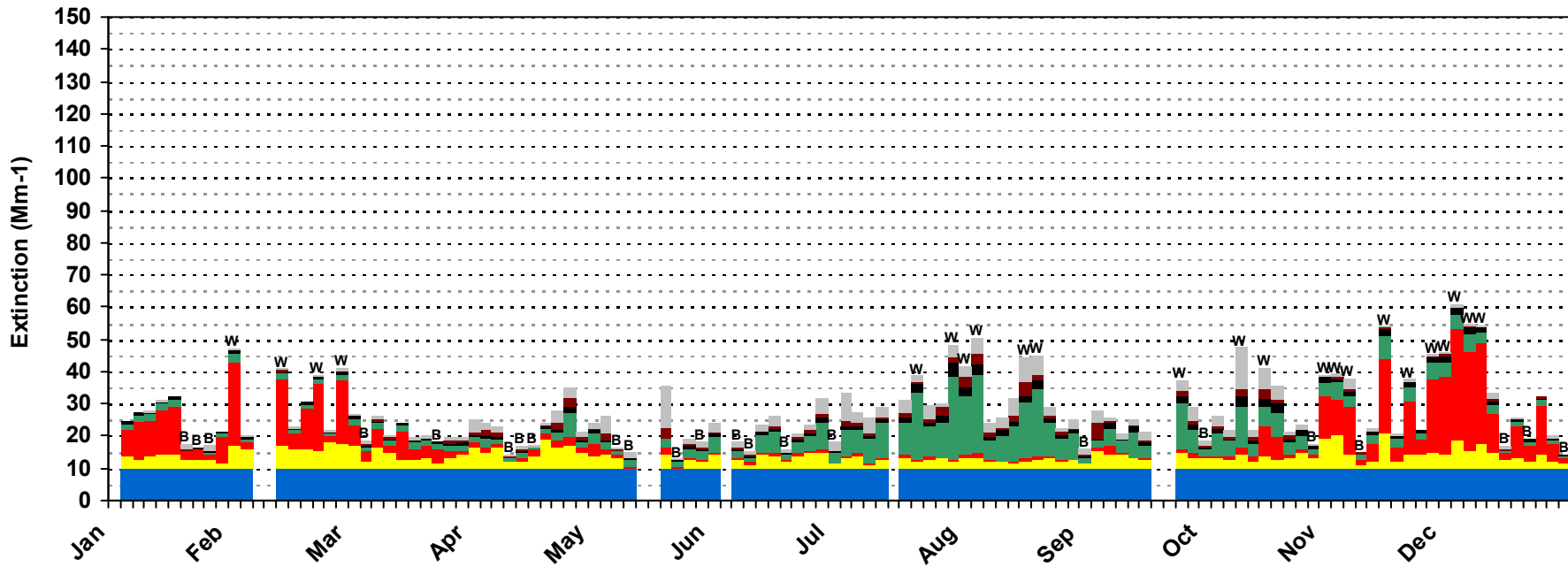


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (3 to 9 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

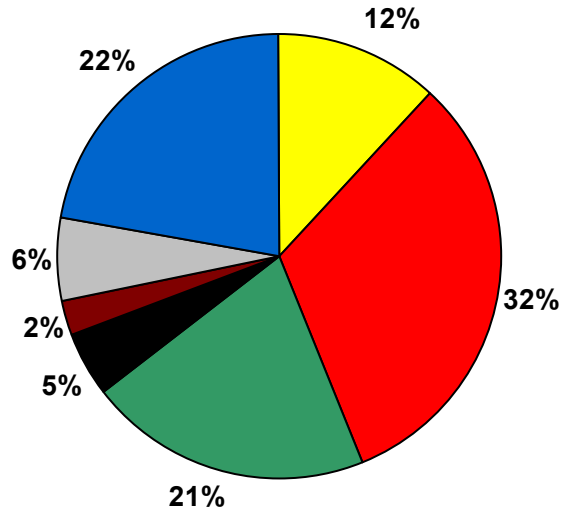
\*Excludes Rayleigh Extinction



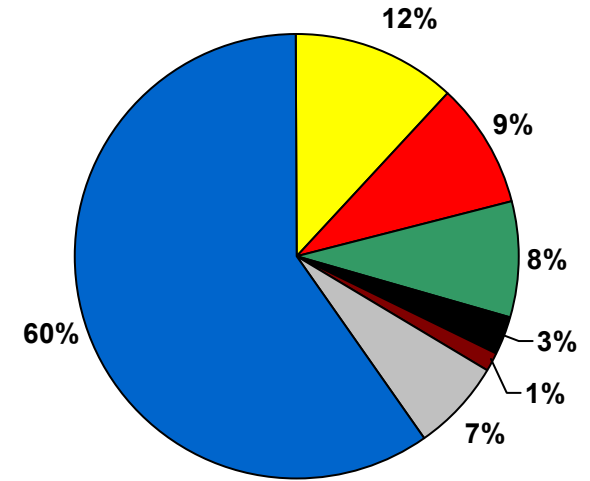
# MONITORING DATA

## Craters of the Moon National Monument, ID 2002 Reconstructed Extinction CRMO1 Monitoring Data (every third day)

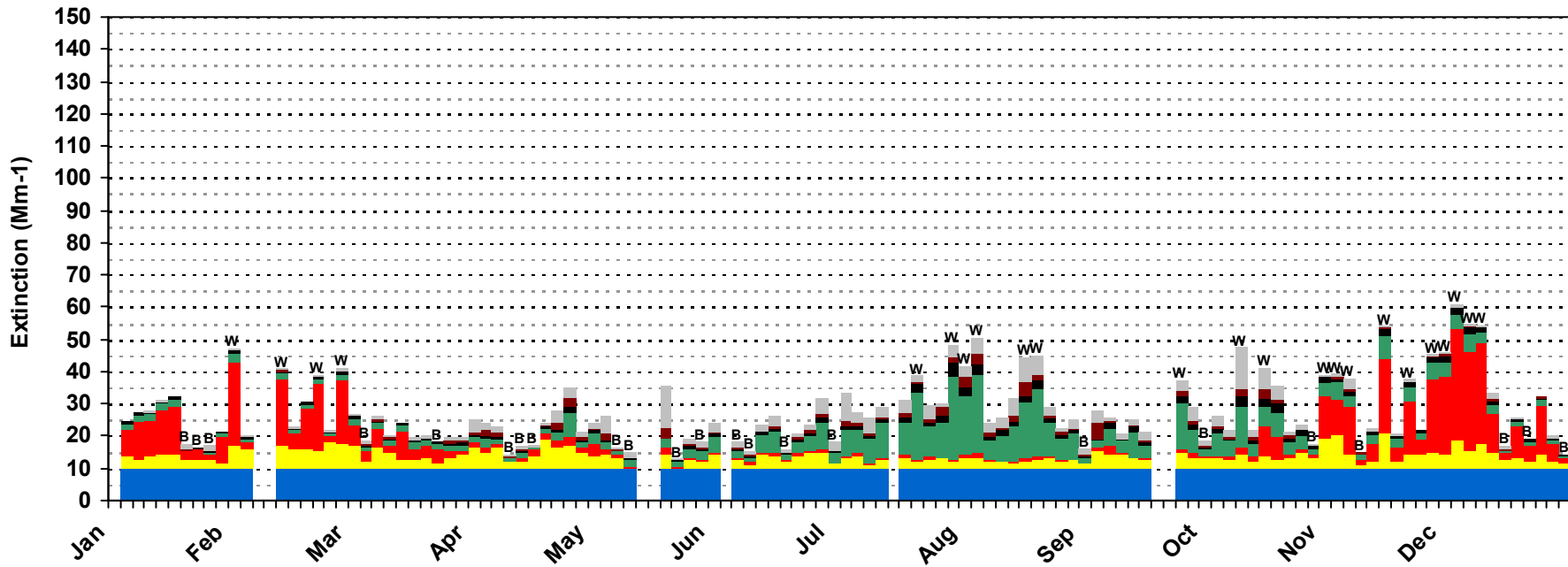
**20% Worst Visibility Days**  
Total Extinction = 45 Mm-1 (37 to 61 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (13 to 19 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



## MONITORING DATA

### Craters of the Moon National Monument, ID 2002 Reconstructed Extinction Values CRMO1 Monitoring Data (every third day)

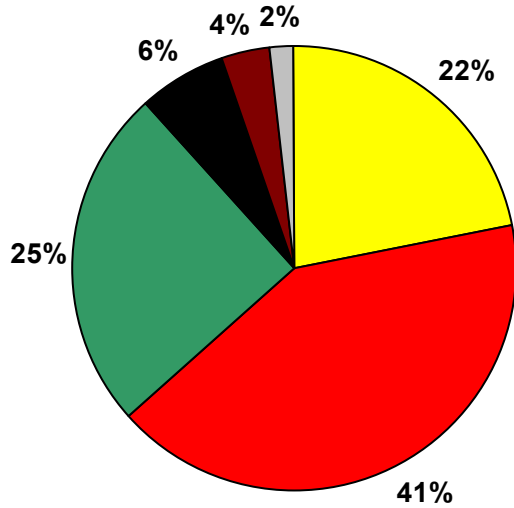
<b>20% Worst Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	44.8 (15.0 dv)	37.5 (13.2 dv)	60.8 (18.1 dv)
<b>Aerosol Extinction*:</b>	34.8	27.5	50.8
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	5.3	12%	15%
<b>Ammonium Nitrate:</b>	14.3	32%	41%
<b>Organic Material:</b>	9.3	21%	27%
<b>Elemental Carbon:</b>	2.1	5%	6%
<b>Soil:</b>	1.1	2%	3%
<b>Coarse Material:</b>	2.7	6%	8%
<b>Rayleigh:</b>	10.0	22%	N/A
<b>20% Best Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	16.7 (5.1 dv)	13.1 (2.7 dv)	19.2 (6.5 dv)
<b>Aerosol Extinction*:</b>	6.7	3.1	9.2
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	2.0	12%	29%
<b>Ammonium Nitrate:</b>	1.5	9%	23%
<b>Organic Material:</b>	1.4	8%	21%
<b>Elemental Carbon:</b>	0.5	3%	7%
<b>Soil:</b>	0.2	1%	4%
<b>Coarse Material:</b>	1.0	6%	15%
<b>Rayleigh:</b>	10.0	60%	N/A

\*Excludes Rayleigh Extinction

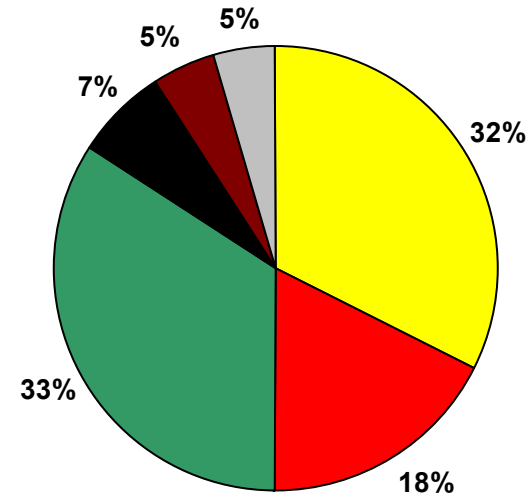
**MODEL RESULTS**

**Craters of the Moon National Monument, ID  
2002 Reconstructed Extinction  
CMAQ Model Results (every day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 35 Mm<sup>-1</sup> (21 to 145 Mm<sup>-1</sup>)

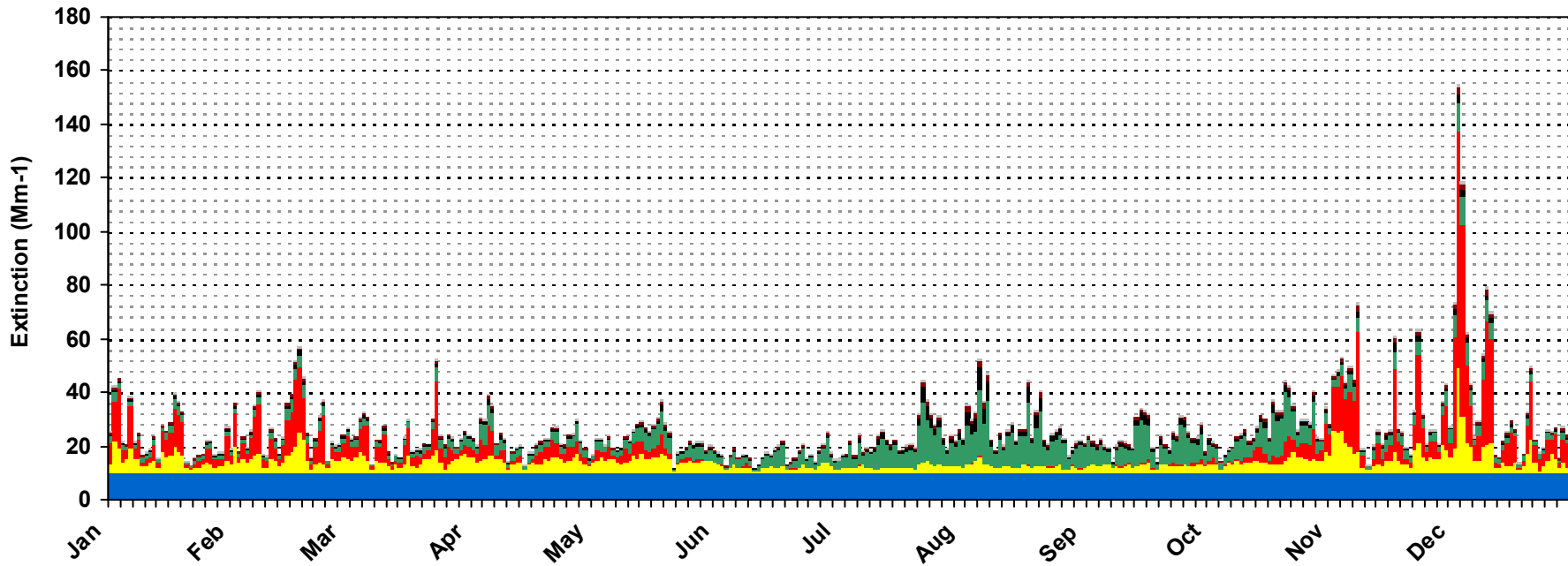


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm<sup>-1</sup> (2 to 8 Mm<sup>-1</sup>)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

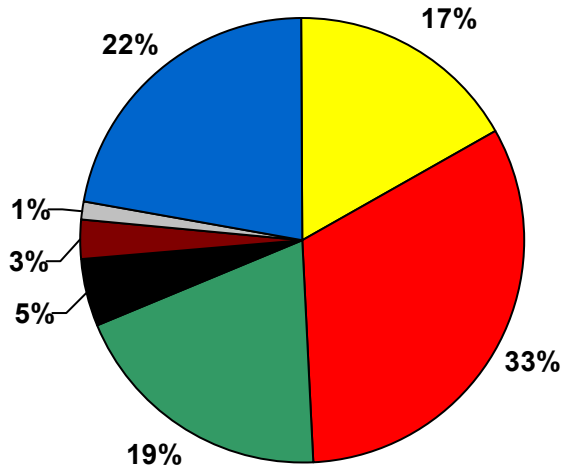
\*Excludes Rayleigh Extinction



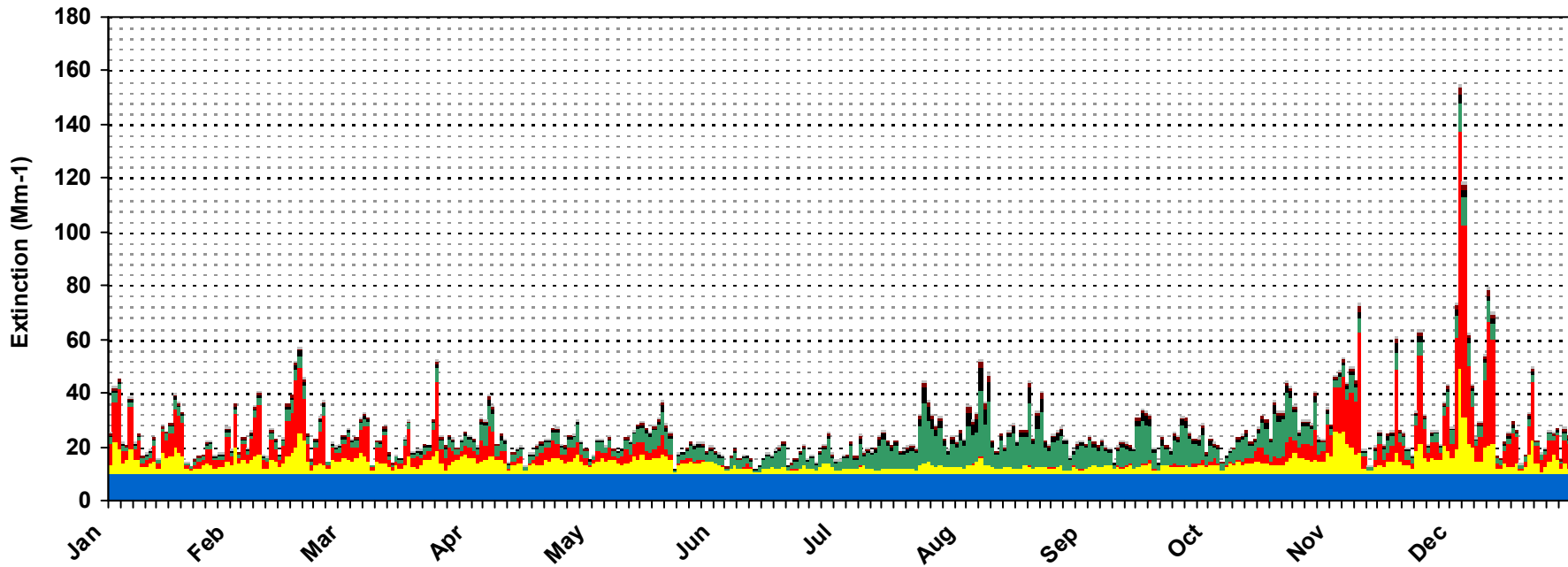
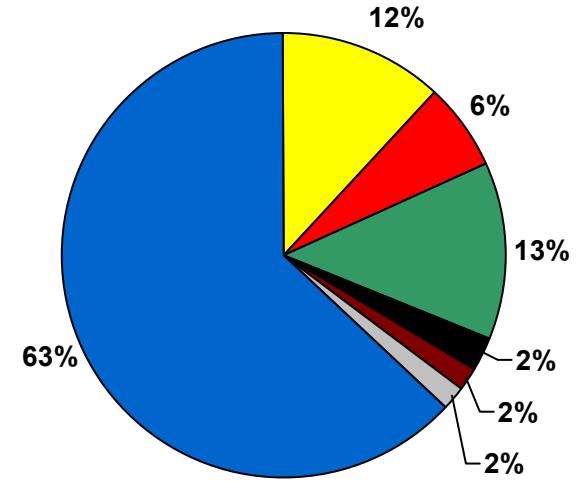
# MODEL RESULTS

## Craters of the Moon National Monument, ID 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Total Extinction = 45 Mm-1 (31 to 155 Mm-1)



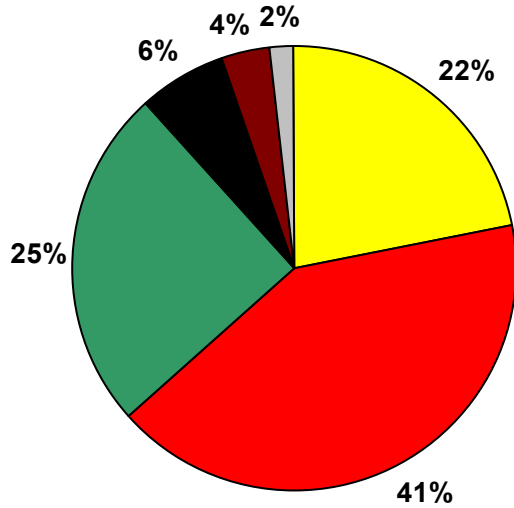
**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (12 to 18 Mm-1)



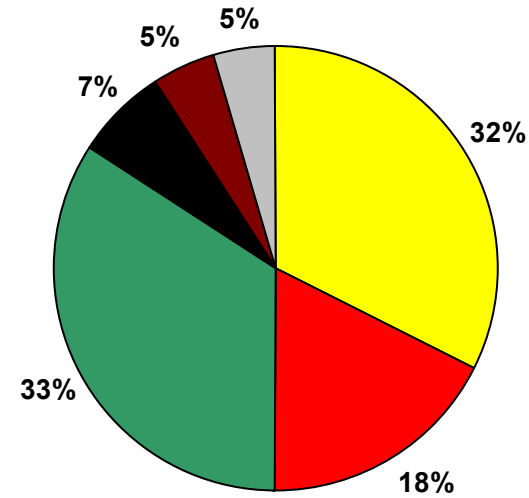
# MODEL RESULTS

## Craters of the Moon National Monument, ID 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 35 Mm-1 (21 to 145 Mm-1)

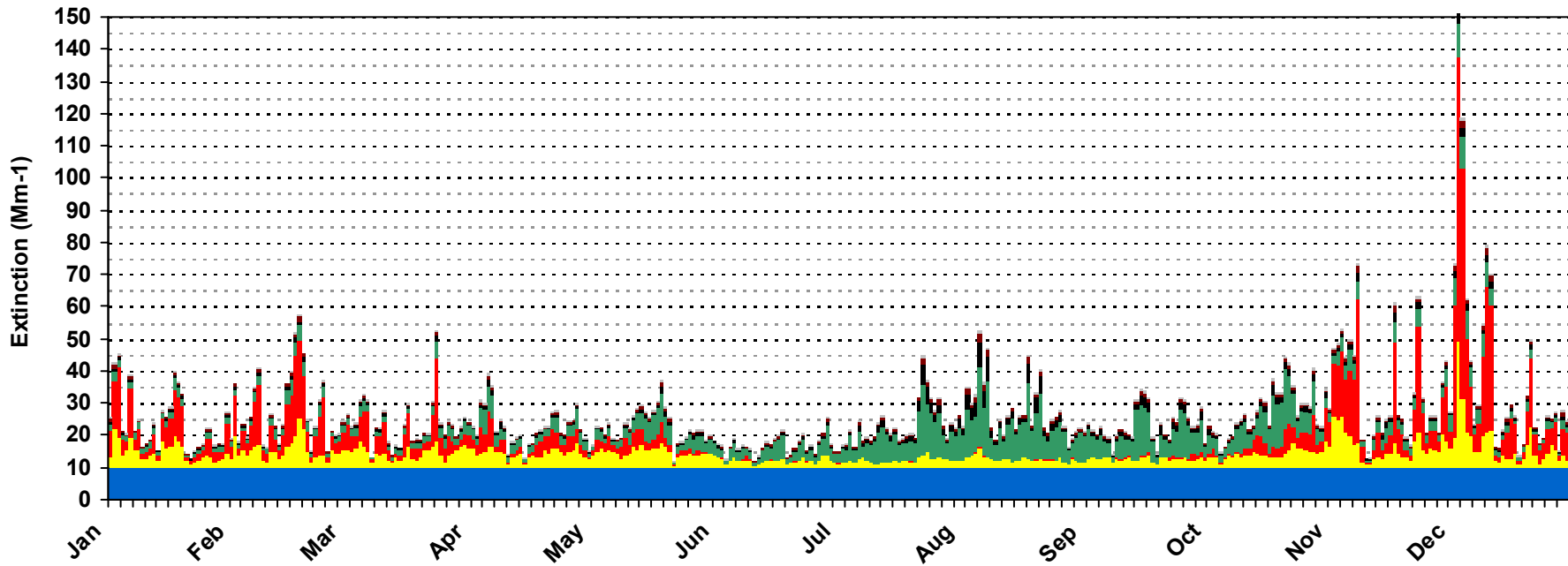


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm-1 (2 to 8 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh

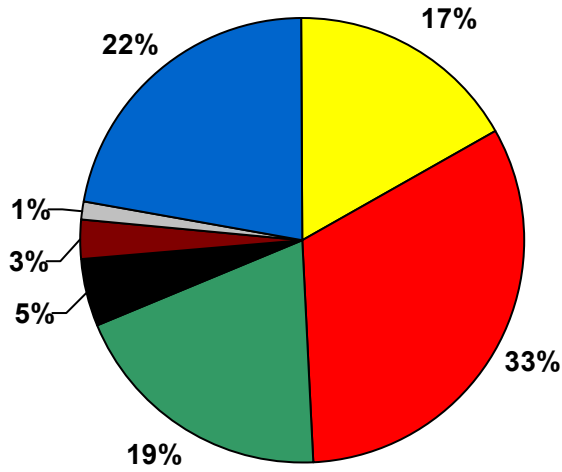
\*Excludes Rayleigh Extinction



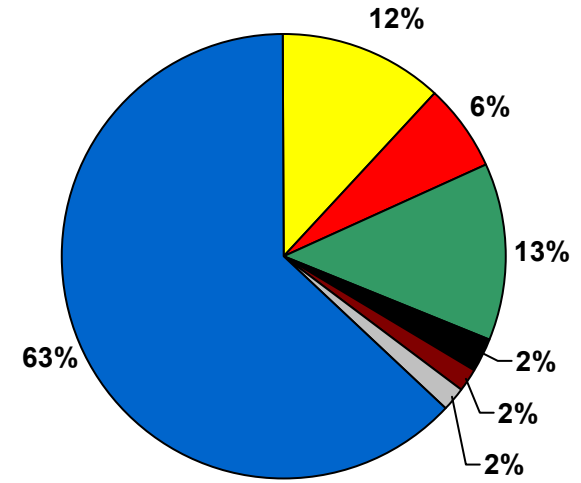
# MODEL RESULTS

## Craters of the Moon National Monument, ID 2002 Reconstructed Extinction CMAQ Model Results (every day)

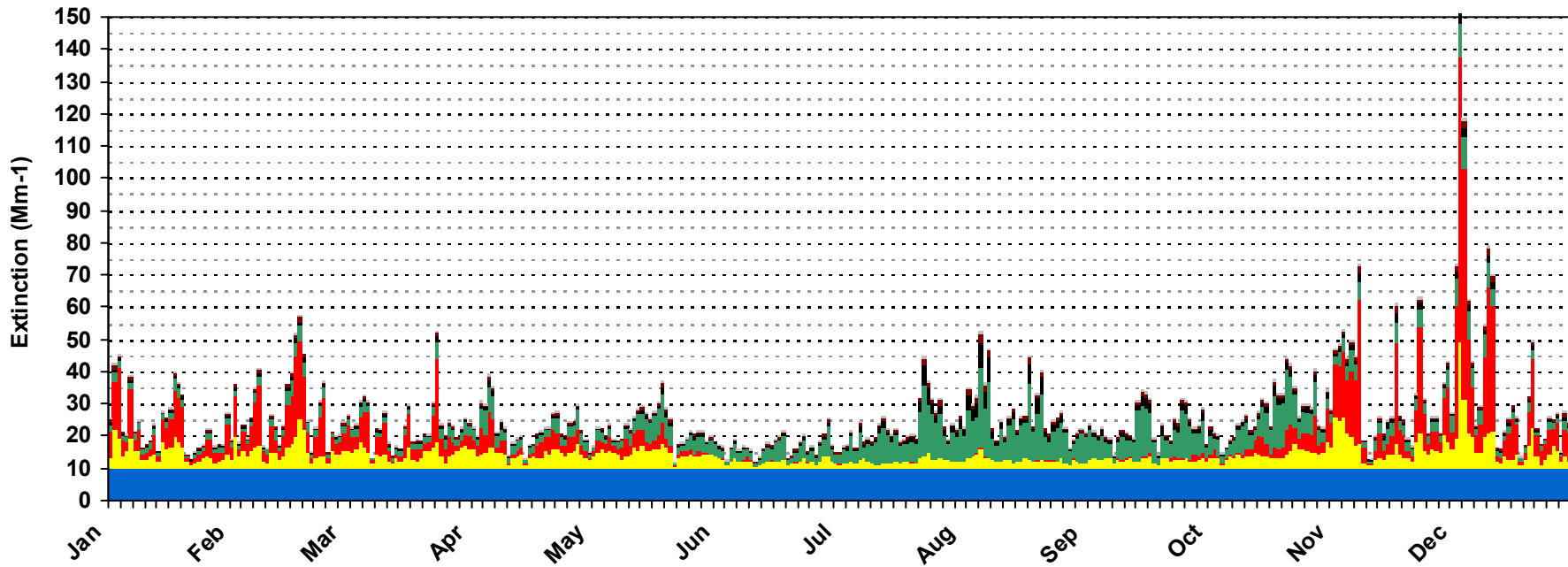
**20% Worst Visibility Days**  
Total Extinction = 45 Mm-1 (31 to 155 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (12 to 18 Mm-1)



- Coarse Material
- Soil
- Elemental Carbon
- Organic Material
- Ammonium Nitrate
- Ammonium Sulfate
- Rayleigh



## MODEL RESULTS

### Craters of the Moon National Monument, ID 2002 Reconstructed Extinction CMAQ Model Results (every day)

<b>20% Worst Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	44.9 (15.0 dv)	31.0 (11.3 dv)	154.7 (27.4 dv)
<b>Aerosol Extinction*:</b>	34.9	21.0	144.7
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	7.6	17%	22%
<b>Ammonium Nitrate:</b>	14.4	32%	41%
<b>Organic Material:</b>	8.7	19%	25%
<b>Elemental Carbon:</b>	2.2	5%	6%
<b>Soil:</b>	1.2	3%	4%
<b>Coarse Material:</b>	0.6	1%	2%
<b>Rayleigh:</b>	10.0	22%	N/A
<b>20% Best Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	15.8 (4.6 dv)	11.8 (1.7 dv)	18.1 (5.9 dv)
<b>Aerosol Extinction*:</b>	5.8	1.8	8.1
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	1.9	12%	33%
<b>Ammonium Nitrate:</b>	1.0	6%	18%
<b>Organic Material:</b>	2.0	13%	34%
<b>Elemental Carbon:</b>	0.4	2%	7%
<b>Soil:</b>	0.3	2%	5%
<b>Coarse Material:</b>	0.3	2%	5%
<b>Rayleigh:</b>	10.0	63%	N/A

\*Excludes Rayleigh Extinction