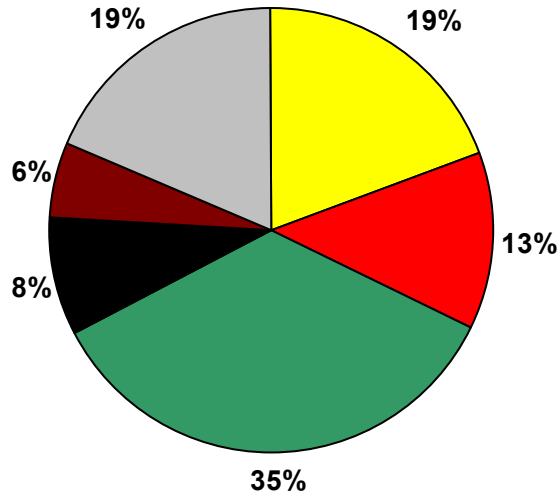


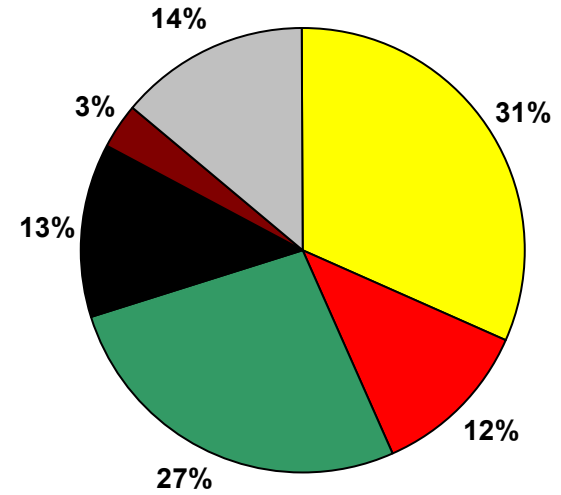
**MONITORING DATA**

**Capital Reef National Park, UT  
2002 Reconstructed Extinction  
CAPI1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 26 Mm-1 (20 to 44 Mm-1)

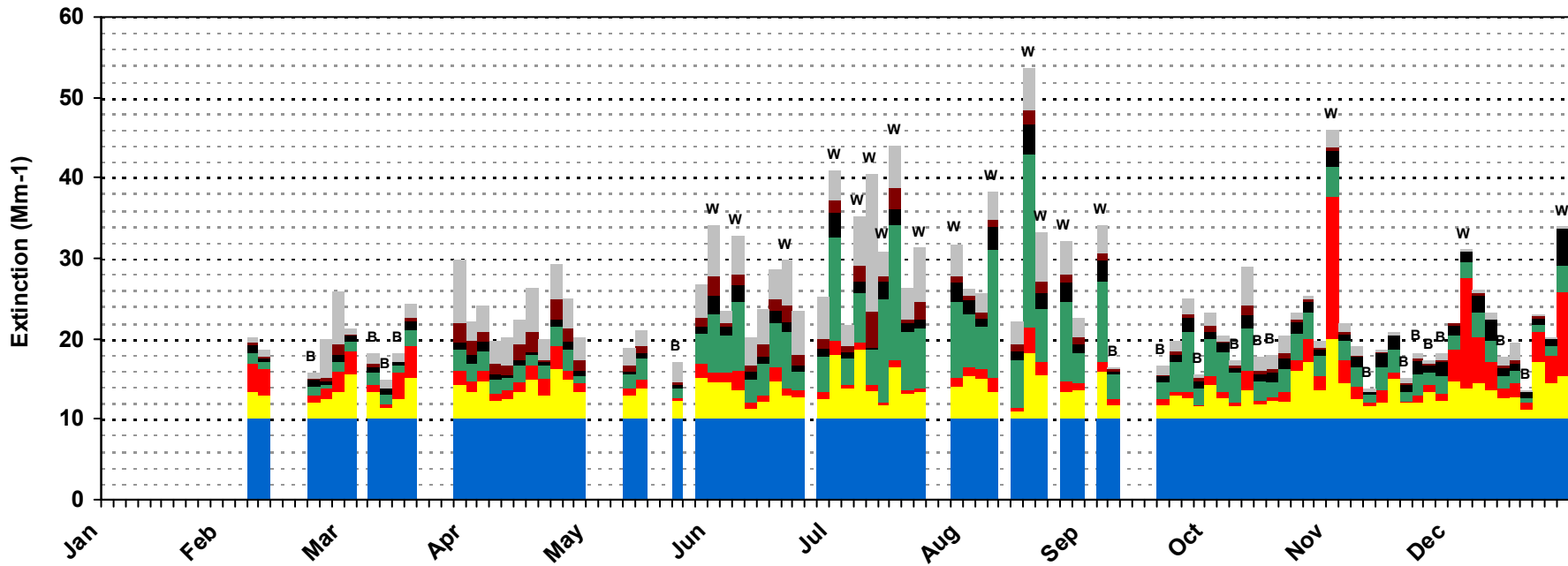


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (4 to 8 Mm-1)



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

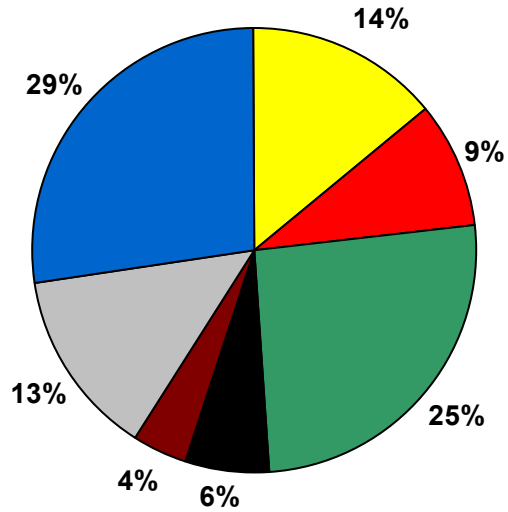
\*Excludes Rayleigh Extinction



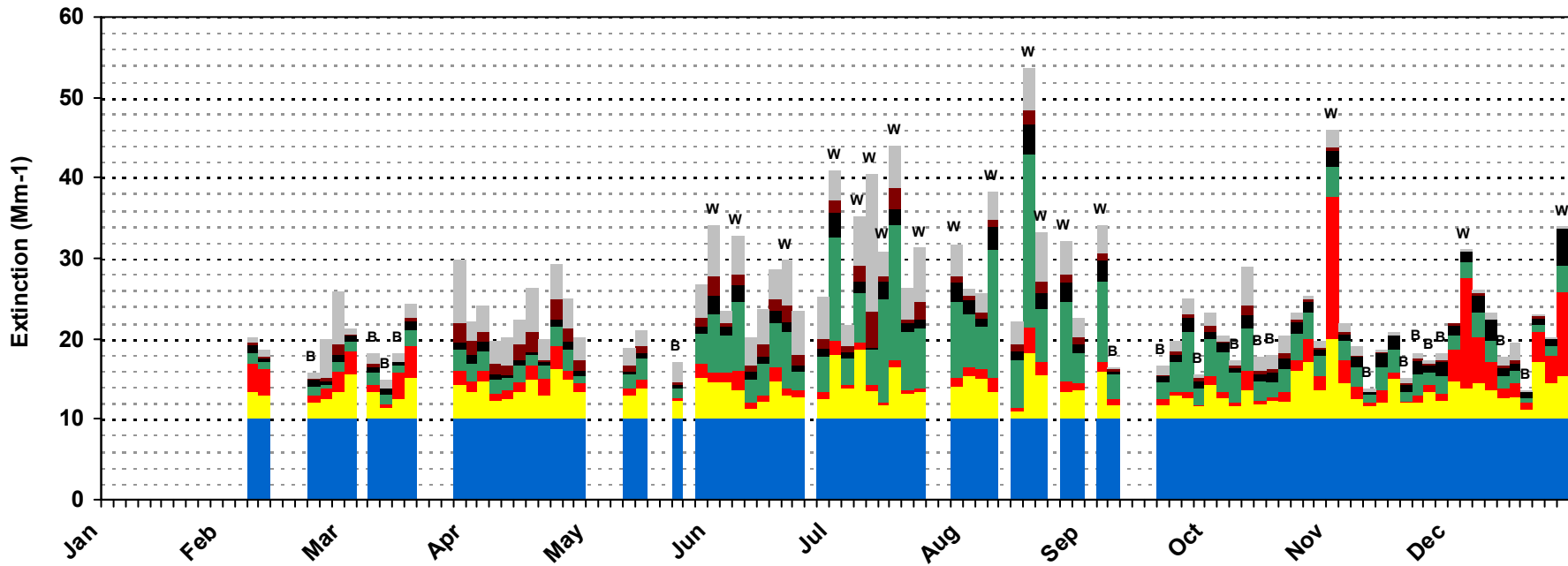
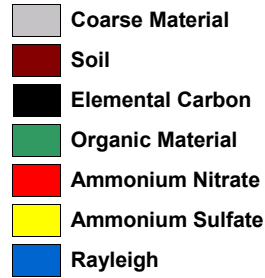
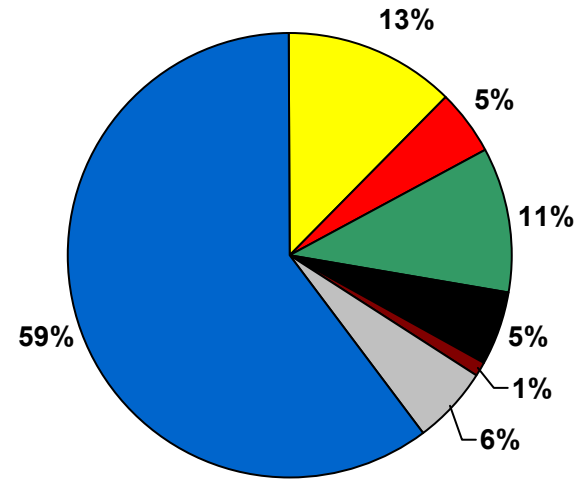
**MONITORING DATA**

**Capital Reef National Park, UT  
2002 Reconstructed Extinction  
CAPI1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Total Extinction = 36 Mm-1 (30 to 54 Mm-1)



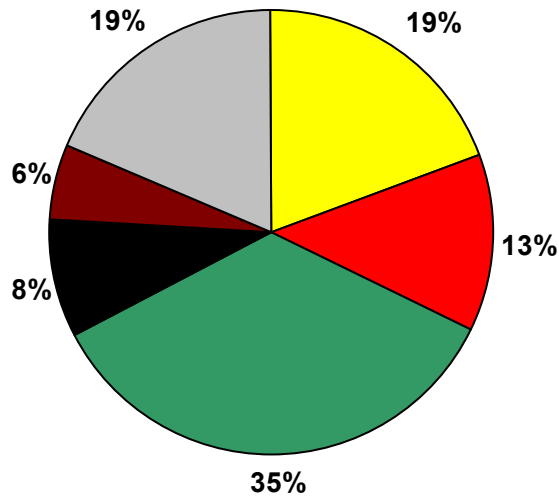
**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (14 to 18 Mm-1)



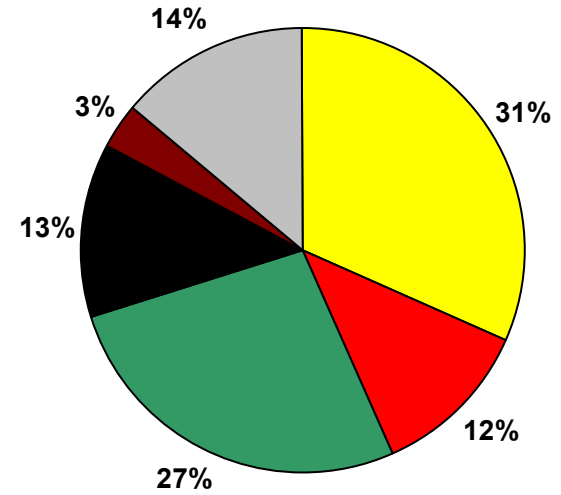
**MONITORING DATA**

**Capital Reef National Park, UT  
2002 Reconstructed Extinction  
CAPI1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 26 Mm-1 (20 to 44 Mm-1)

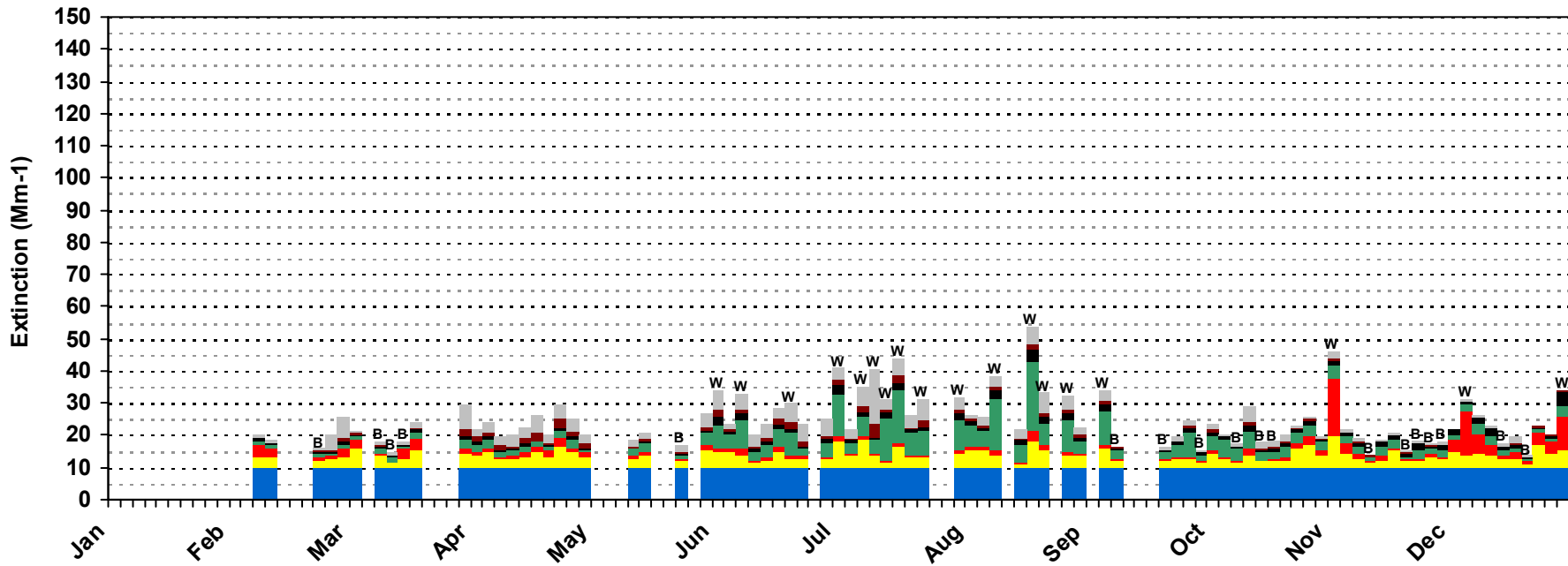


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm-1 (4 to 8 Mm-1)



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

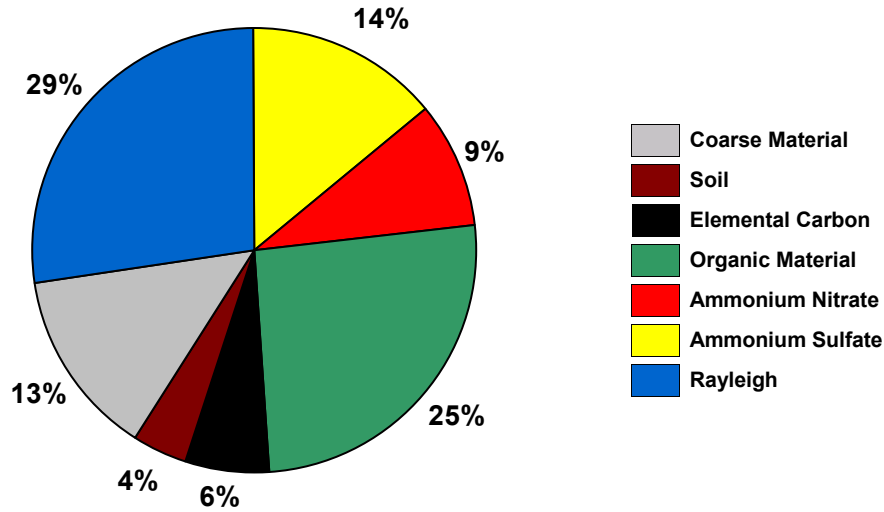
\*Excludes Rayleigh Extinction



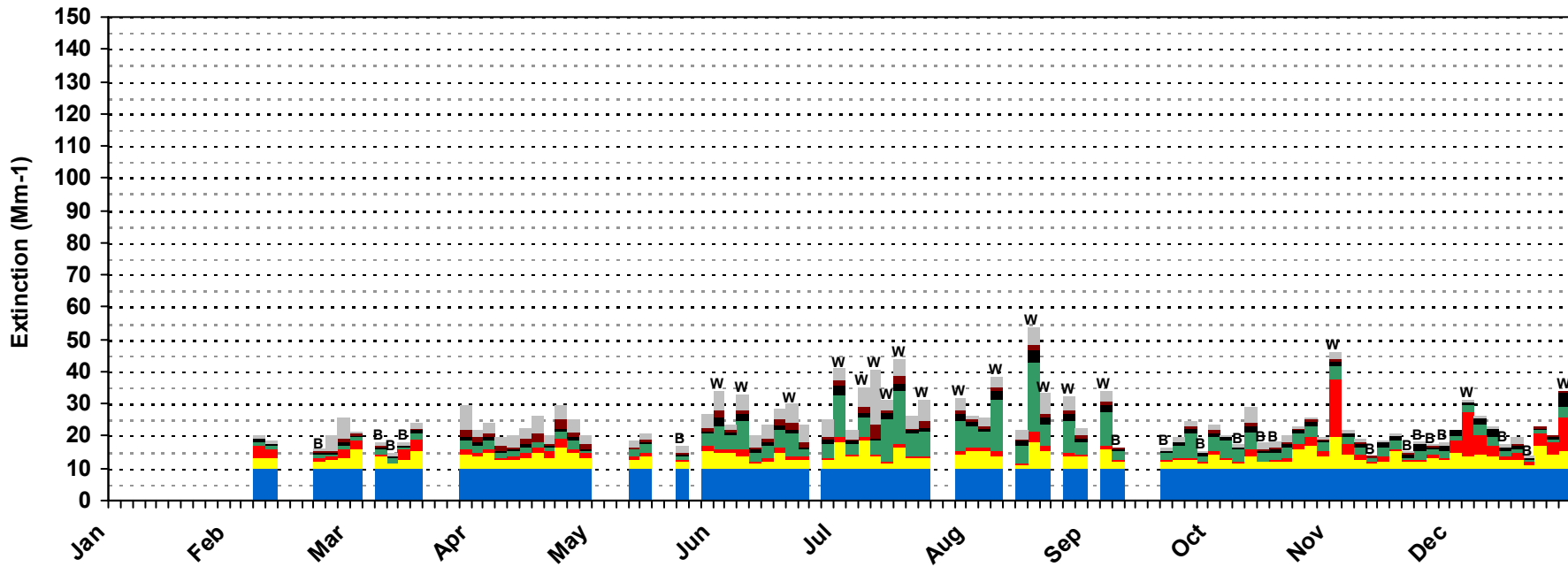
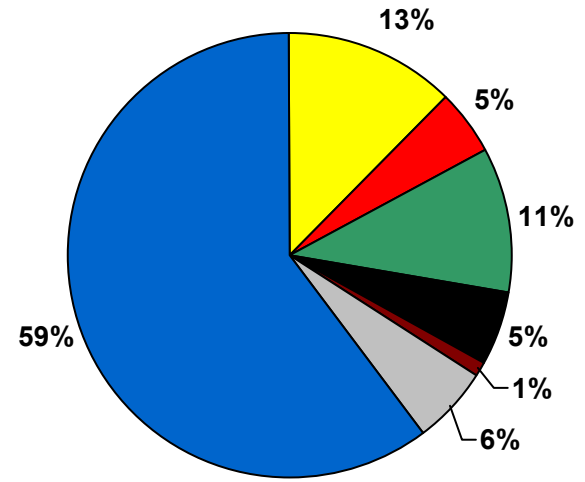
**MONITORING DATA**

**Capital Reef National Park, UT  
2002 Reconstructed Extinction  
CAPI1 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Total Extinction = 36 Mm-1 (30 to 54 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (14 to 18 Mm-1)



## MONITORING DATA

### Capital Reef National Park, UT 2002 Reconstructed Extinction Values CAPI1 Monitoring Data (every third day)

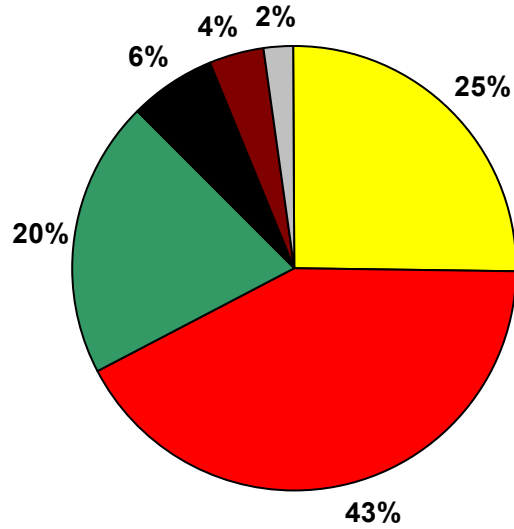
<b>20% Worst Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	36.4 (12.9 dv)	29.9 (10.9 dv)	53.7 (16.8 dv)
<b>Aerosol Extinction*:</b>	26.4	19.9	43.7
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	5.1	14%	19%
<b>Ammonium Nitrate:</b>	3.4	9%	13%
<b>Organic Material:</b>	9.2	25%	35%
<b>Elemental Carbon:</b>	2.2	6%	8%
<b>Soil:</b>	1.5	4%	6%
<b>Coarse Material:</b>	4.9	13%	19%
<b>Rayleigh:</b>	10.0	28%	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>	16.6 (5.1 dv)	13.5 (3.0 dv)	18.3 (6.0 dv)
<b>Aerosol Extinction*:</b>	6.6	3.5	8.3
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	2.1	13%	32%
<b>Ammonium Nitrate:</b>	0.8	5%	12%
<b>Organic Material:</b>	1.8	11%	27%
<b>Elemental Carbon:</b>	0.8	5%	13%
<b>Soil:</b>	0.2	1%	3%
<b>Coarse Material:</b>	0.9	5%	14%
<b>Rayleigh:</b>	10.0	60%	N/A

\*Excludes Rayleigh Extinction

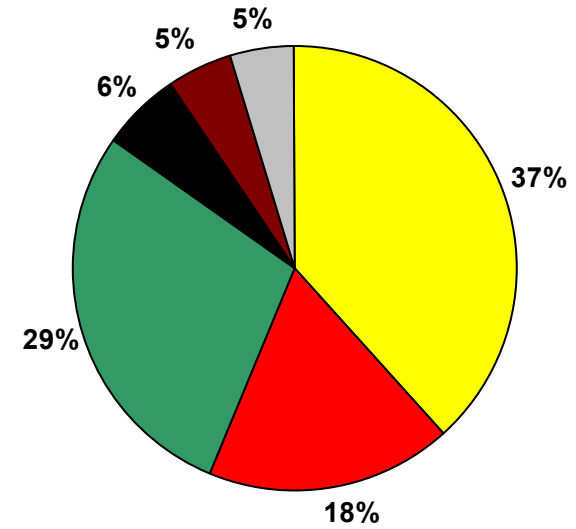
# MODEL RESULTS

## Capitol Reef National Park, UT 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 26 Mm<sup>-1</sup> (18 to 75 Mm<sup>-1</sup>)

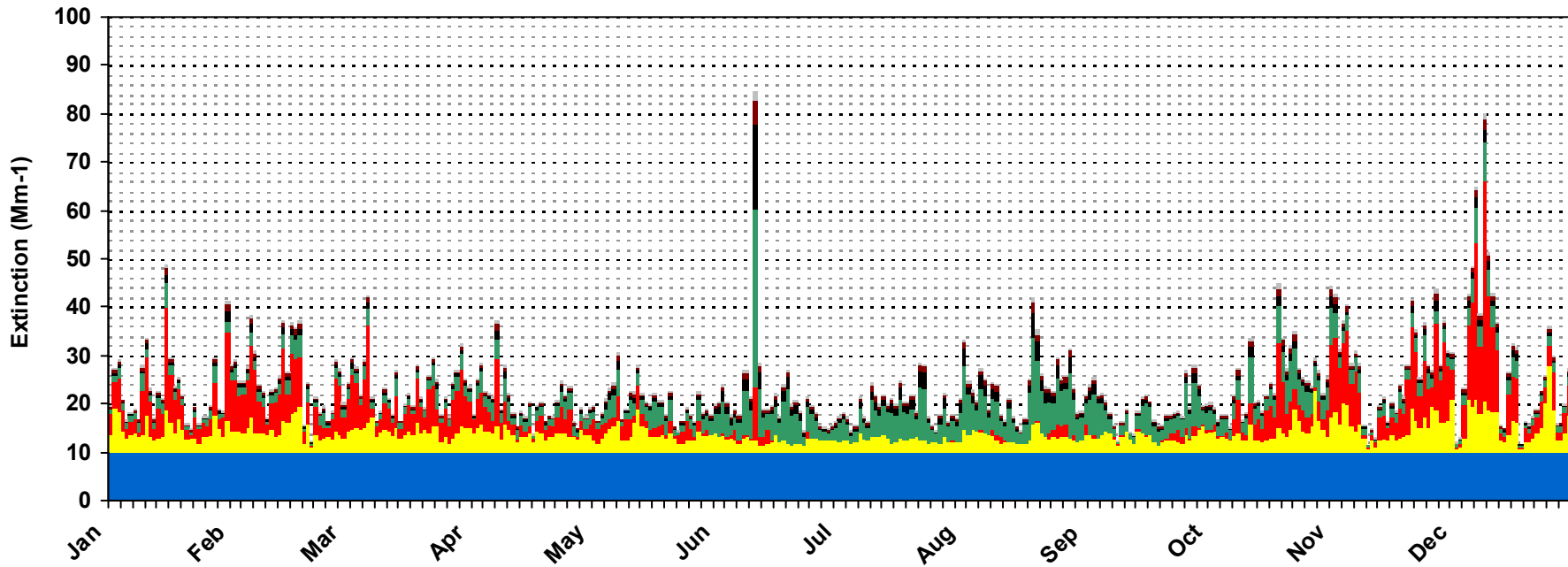


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm<sup>-1</sup> (1 to 8 Mm<sup>-1</sup>)



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

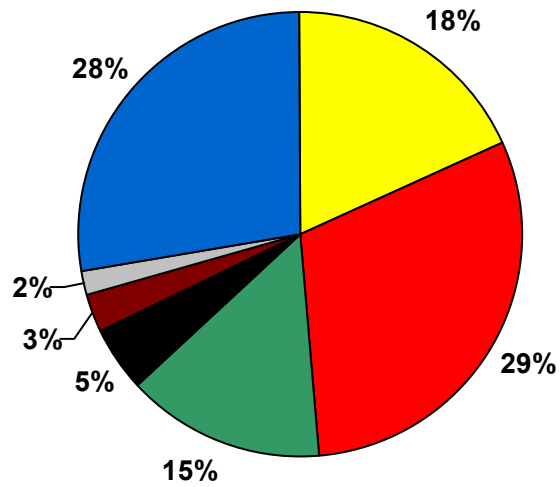
\*Excludes Rayleigh Extinction



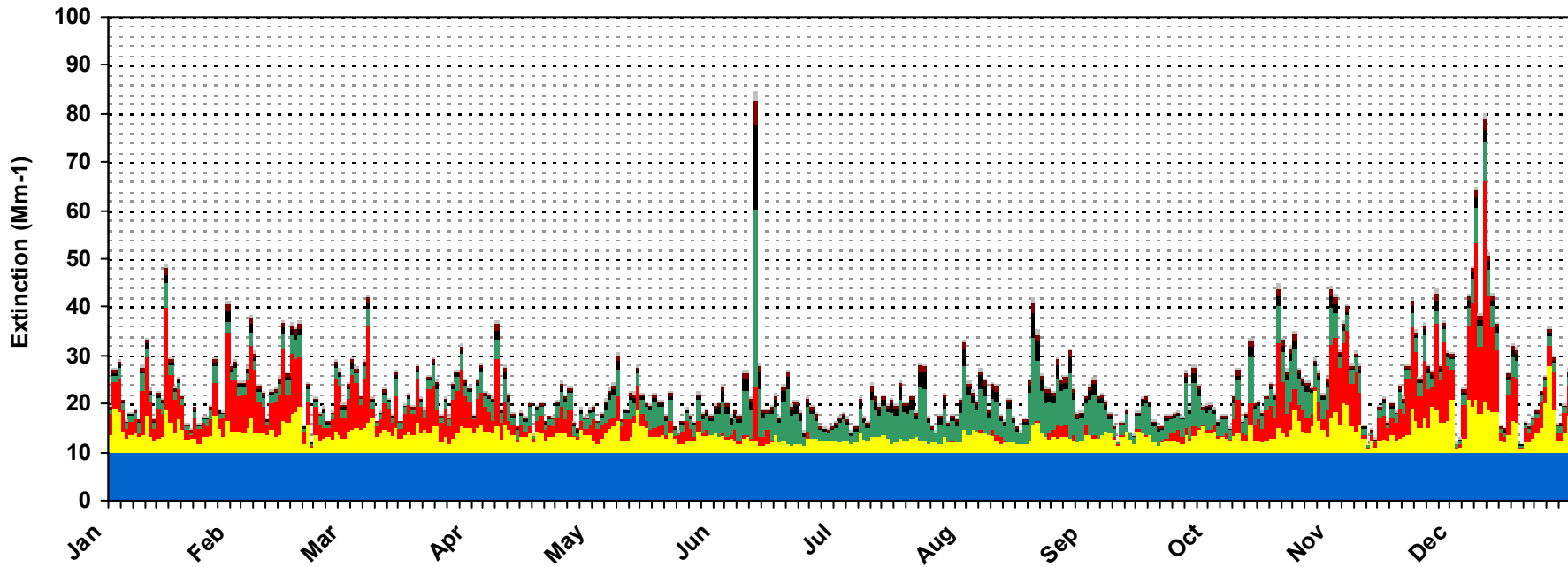
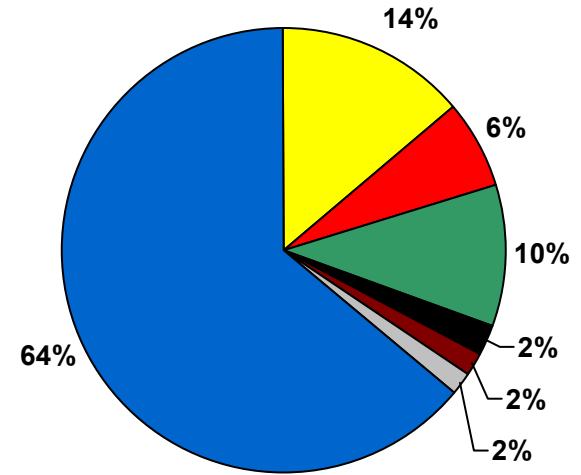
# MODEL RESULTS

## Capitol Reef National Park, UT 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Total Extinction = 36 Mm<sup>-1</sup> (28 to 85 Mm<sup>-1</sup>)



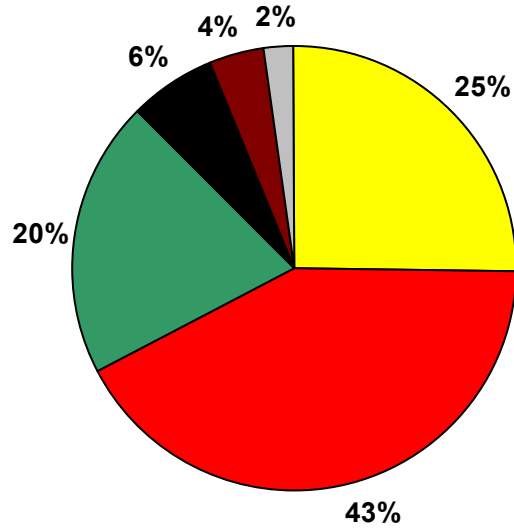
**20% Best Visibility Days**  
Total Extinction = 16 Mm<sup>-1</sup> (11 to 18 Mm<sup>-1</sup>)



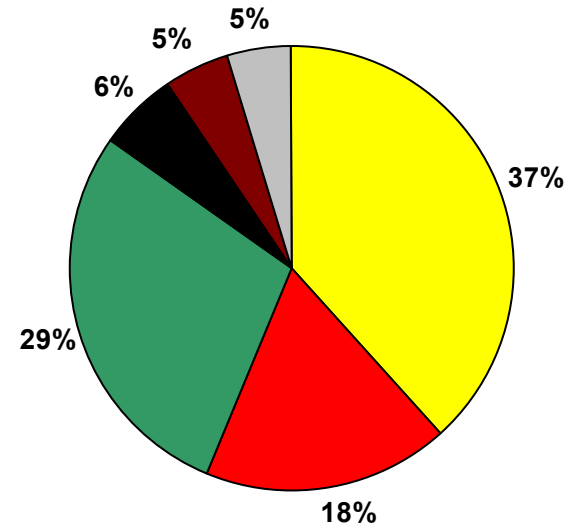
# MODEL RESULTS

## Capitol Reef National Park, UT 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 26 Mm<sup>-1</sup> (18 to 75 Mm<sup>-1</sup>)

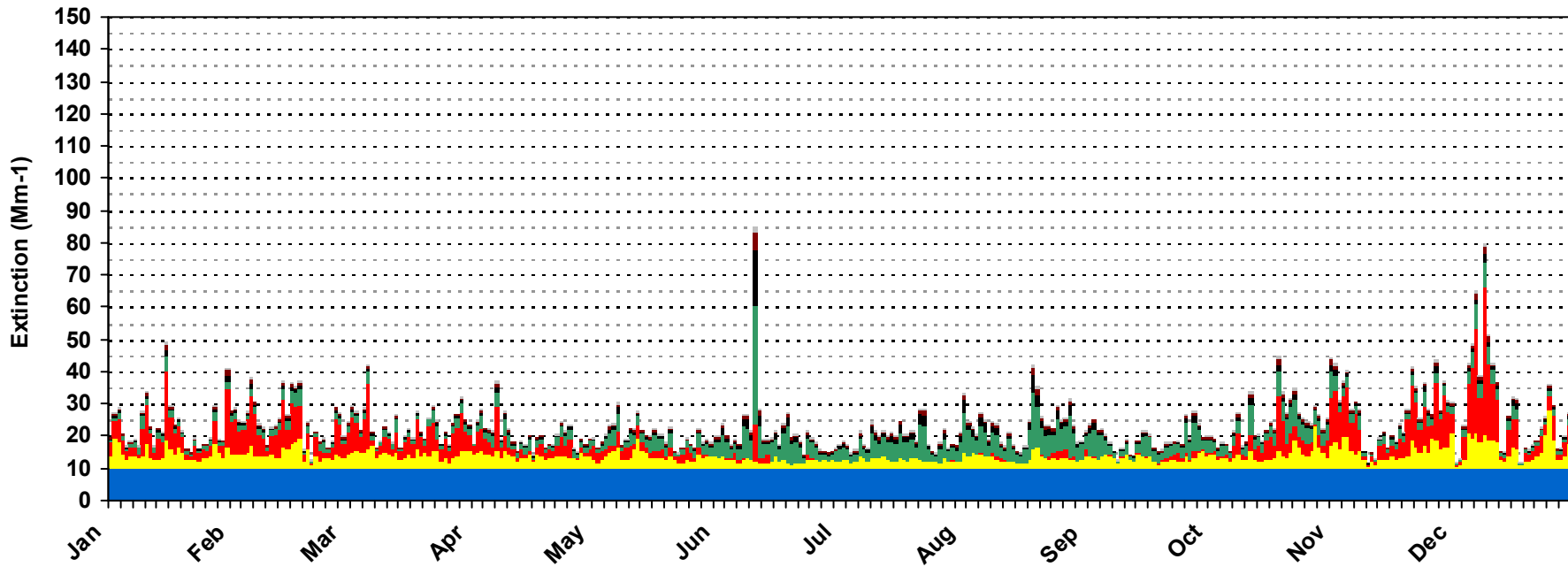


**20% Best Visibility Days**  
Aerosol Extinction\* = 6 Mm<sup>-1</sup> (1 to 8 Mm<sup>-1</sup>)



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

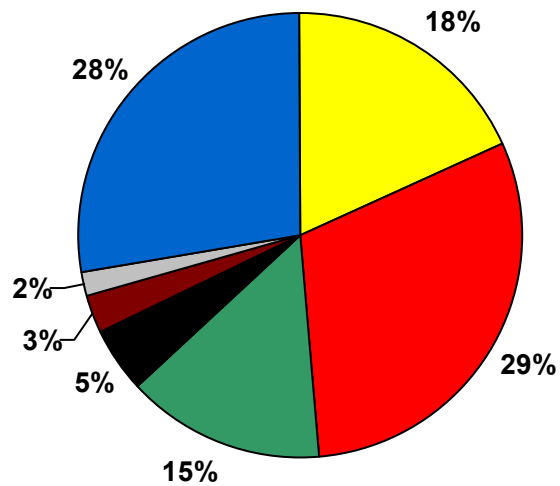
\*Excludes Rayleigh Extinction



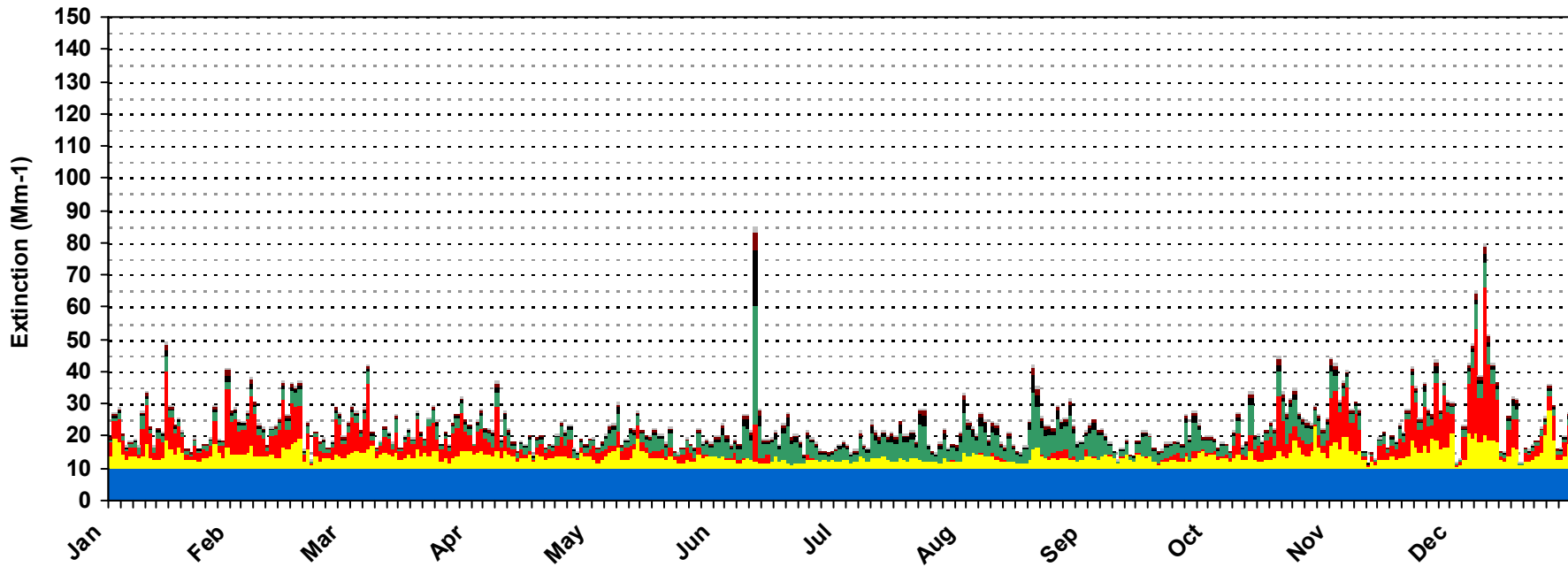
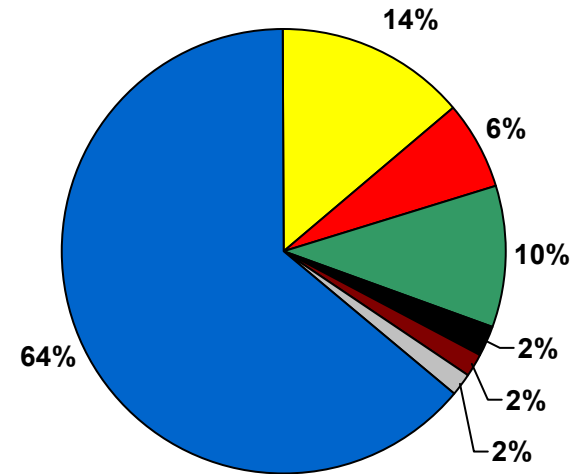
# MODEL RESULTS

## Capitol Reef National Park, UT 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Total Extinction = 36 Mm-1 (28 to 85 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 16 Mm-1 (11 to 18 Mm-1)



## MODEL RESULTS

### Capitol Reef National Park, UT 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>	36.0 (12.8 dv)	27.9 (10.3 dv)	84.8 (21.4 dv)
<b>Aerosol Extinction*:</b>	26.0	17.9	74.8
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	6.6	18%	25%
<b>Ammonium Nitrate:</b>	10.9	30%	42%
<b>Organic Material:</b>	5.3	15%	20%
<b>Elemental Carbon:</b>	1.6	5%	6%
<b>Soil:</b>	1.0	3%	4%
<b>Coarse Material:</b>	0.6	2%	2%
<b>Rayleigh:</b>	10.0	28%	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>	15.7 (4.5 dv)	11.5 (1.4 dv)	17.5 (5.6 dv)
<b>Aerosol Extinction*:</b>	5.7	1.5	7.5
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	2.2	14%	38%
<b>Ammonium Nitrate:</b>	1.0	6%	18%
<b>Organic Material:</b>	1.6	10%	29%
<b>Elemental Carbon:</b>	0.3	2%	6%
<b>Soil:</b>	0.3	2%	5%
<b>Coarse Material:</b>	0.3	2%	5%
<b>Rayleigh:</b>	10.0	64%	N/A

\*Excludes Rayleigh Extinction