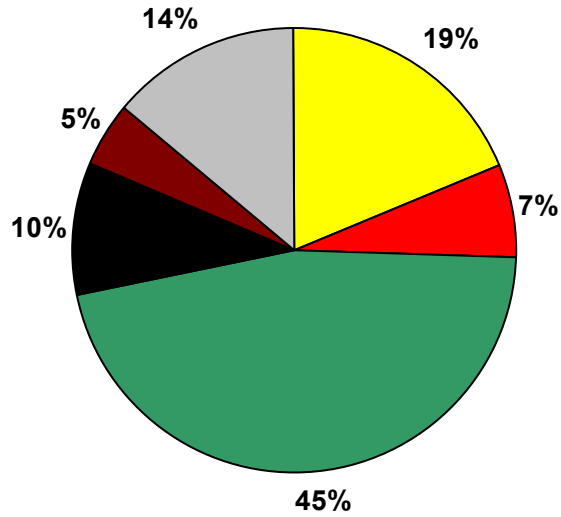


**MONITORING DATA**

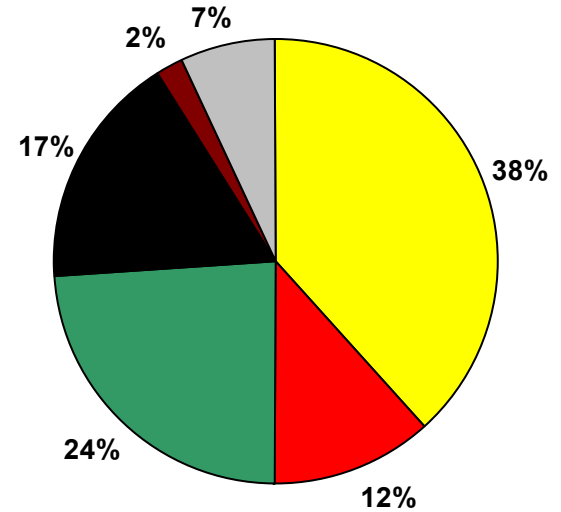
**West Elk Wilderness Area, CO  
2002 Reconstructed Extinction**

**WHR11 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 26 Mm<sup>-1</sup> (15 to 69 Mm<sup>-1</sup>)

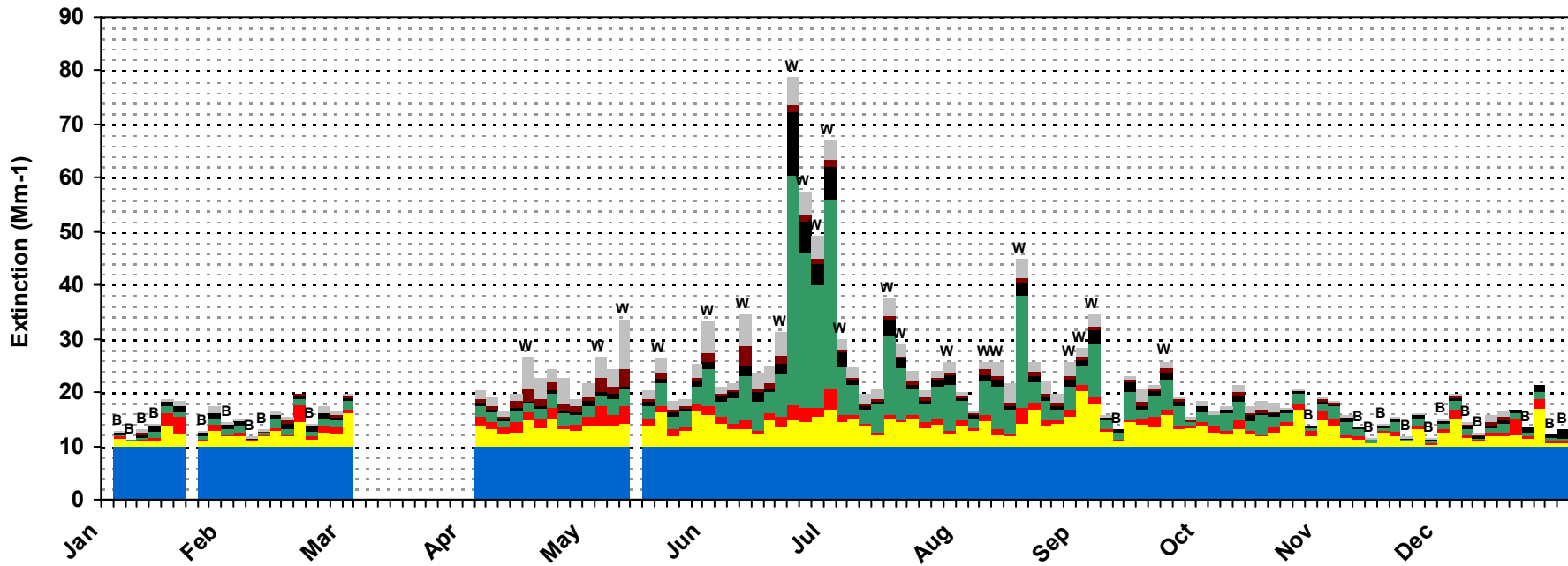


**20% Best Visibility Days**  
Aerosol Extinction\* = 3 Mm<sup>-1</sup> (1 to 5 Mm<sup>-1</sup>)



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

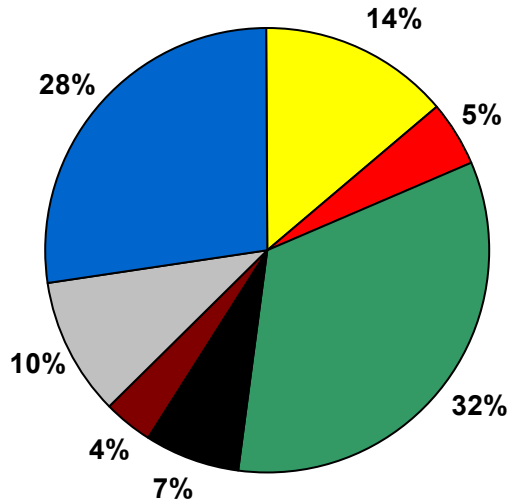
\*Excludes Rayleigh Extinction



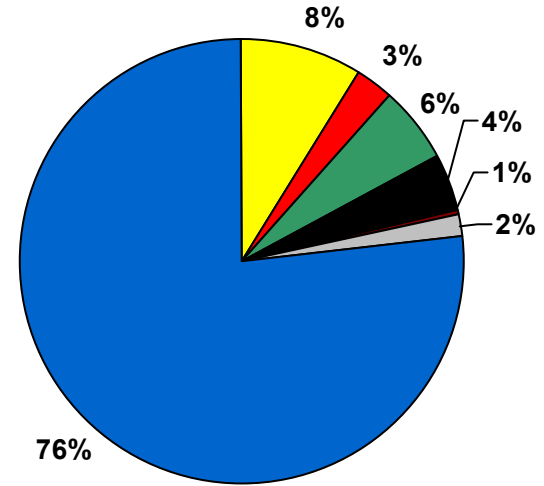
# MONITORING DATA

## West Elk Wilderness Area, CO 2002 Reconstructed Extinction WHR11 Monitoring Data (every third day)

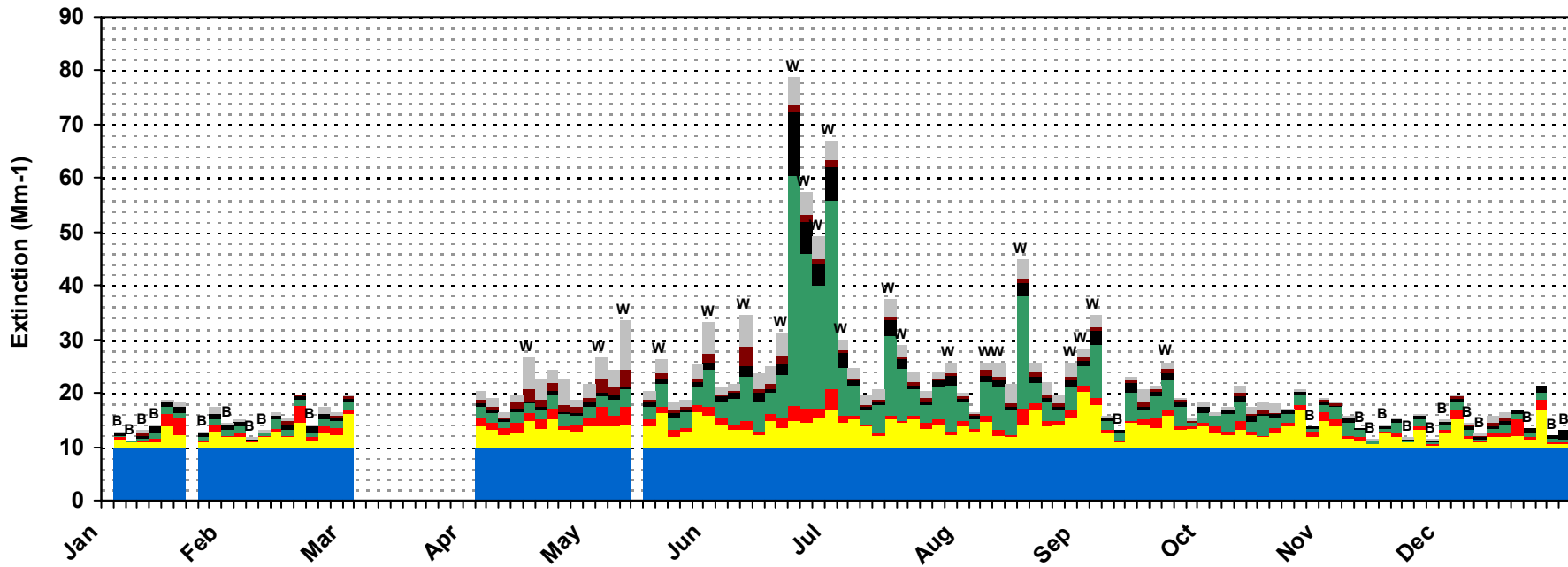
**20% Worst Visibility Days**  
Total Extinction = 36 Mm-1 (25 to 79 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 13 Mm-1 (11 to 15 Mm-1)



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

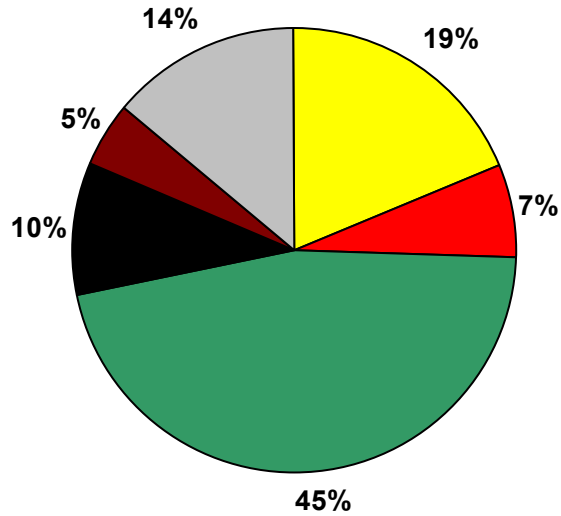


**MONITORING DATA**

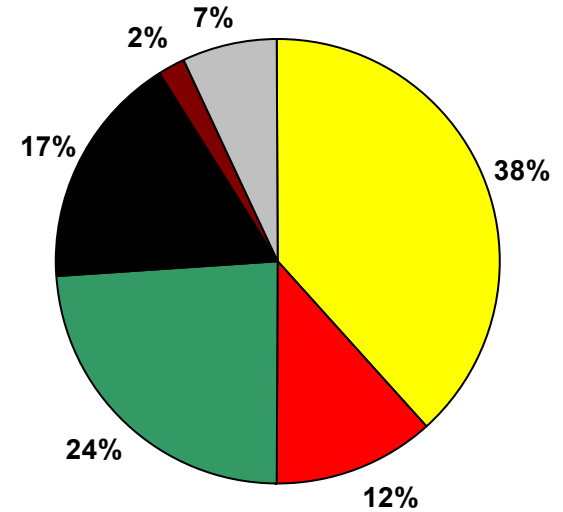
**West Elk Wilderness Area, CO  
2002 Reconstructed Extinction**

**WHR11 Monitoring Data (every third day)**

**20% Worst Visibility Days**  
Aerosol Extinction\* = 26 Mm-1 (15 to 69 Mm-1)

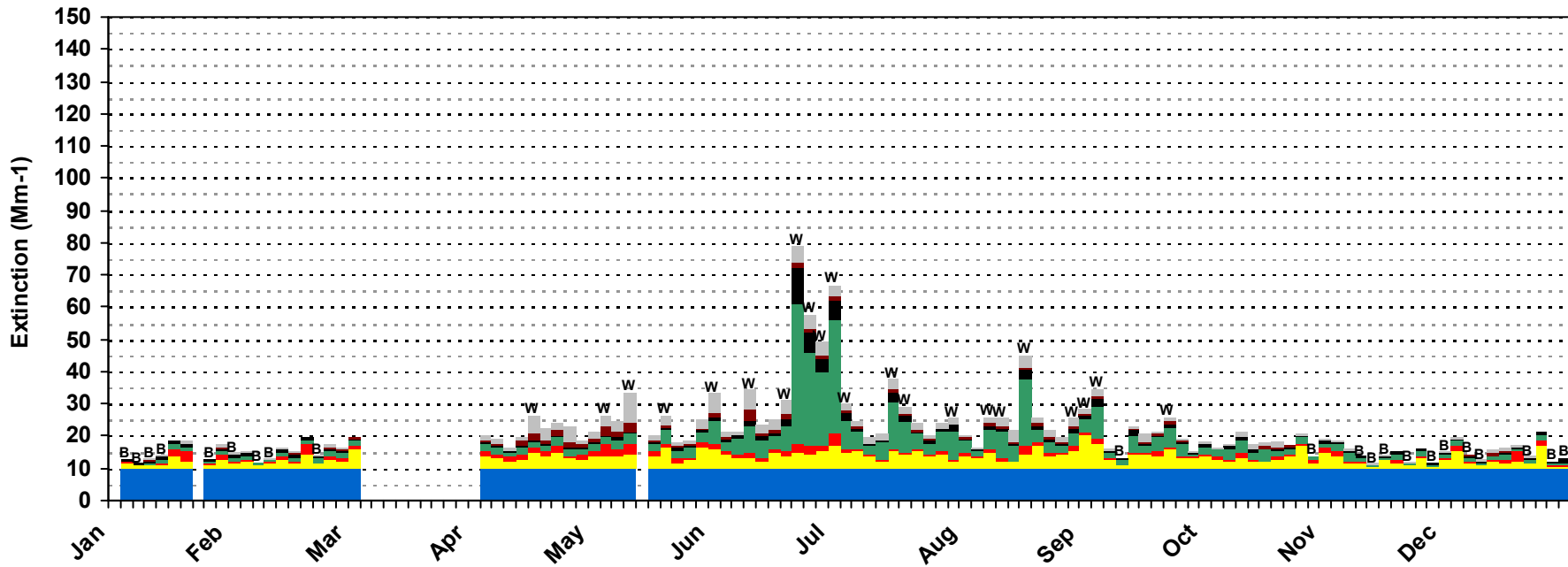


**20% Best Visibility Days**  
Aerosol Extinction\* = 3 Mm-1 (1 to 5 Mm-1)



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

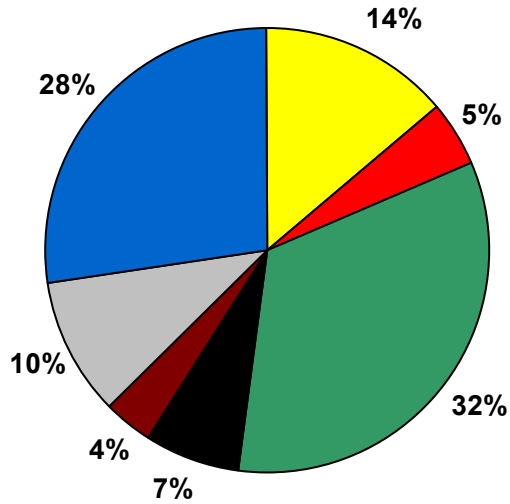
\*Excludes Rayleigh Extinction



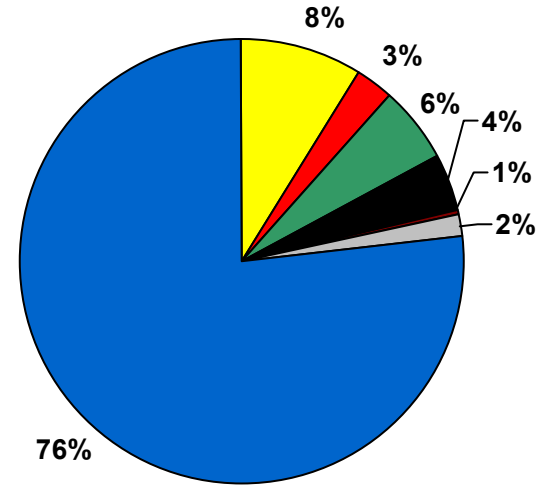
**MONITORING DATA**

**West Elk Wilderness Area, CO  
2002 Reconstructed Extinction  
WHR11 Monitoring Data (every third day)**

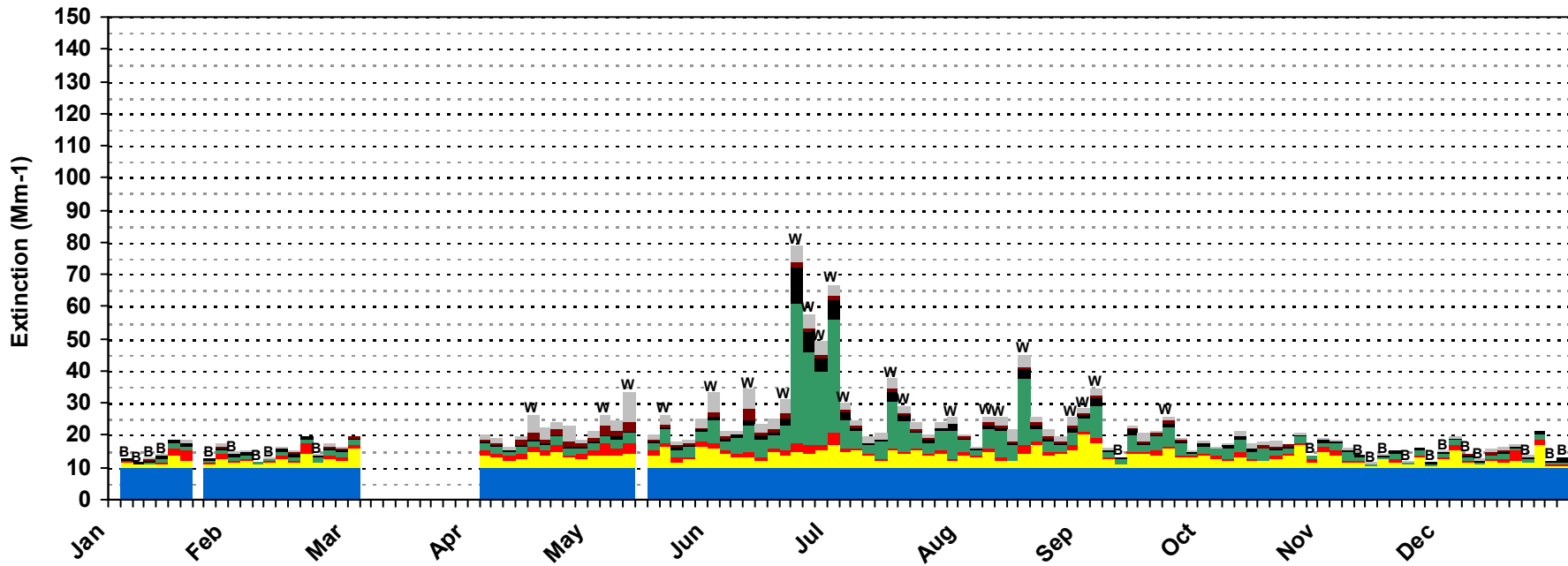
**20% Worst Visibility Days**  
Total Extinction = 36 Mm-1 (25 to 79 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 13 Mm-1 (11 to 15 Mm-1)



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



## MONITORING DATA

### West Elk Wilderness Area, CO 2002 Reconstructed Extinction Values WHRI1 Monitoring Data (every third day)

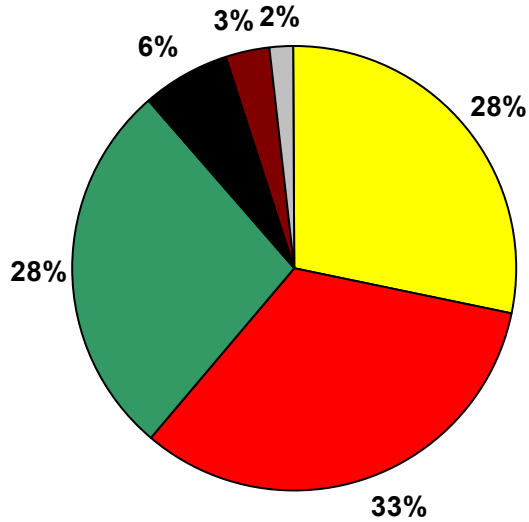
<b>20% Worst Visibility Days</b>			
	<b>Average (Mm-1)</b>	<b>Minimum (Mm-1)</b>	<b>Maximum (Mm-1)</b>
<b>Total Extinction:</b>	36.2 (12.9 dv)	25.5 (9.3 dv)	78.8 (20.6 dv)
<b>Aerosol Extinction*:</b>	26.2	15.5	68.8
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	5.0	14%	19%
<b>Ammonium Nitrate:</b>	1.7	5%	7%
<b>Organic Material:</b>	12.1	33%	46%
<b>Elemental Carbon:</b>	2.5	7%	10%
<b>Soil:</b>	1.3	4%	5%
<b>Coarse Material:</b>	3.6	10%	14%
<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>	13.1 (2.7 dv)	11.2 (1.2 dv)	15.2 (4.2 dv)
<b>Aerosol Extinction*:</b>	3.1	1.2	5.2
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	1.2	9%	38%
<b>Ammonium Nitrate:</b>	0.4	3%	12%
<b>Organic Material:</b>	0.7	6%	24%
<b>Elemental Carbon:</b>	0.5	4%	17%
<b>Soil:</b>	0.1	1%	2%
<b>Coarse Material:</b>	0.2	2%	7%
<b>Rayleigh:</b>	10.0	77%	N/A

\*Excludes Rayleigh Extinction

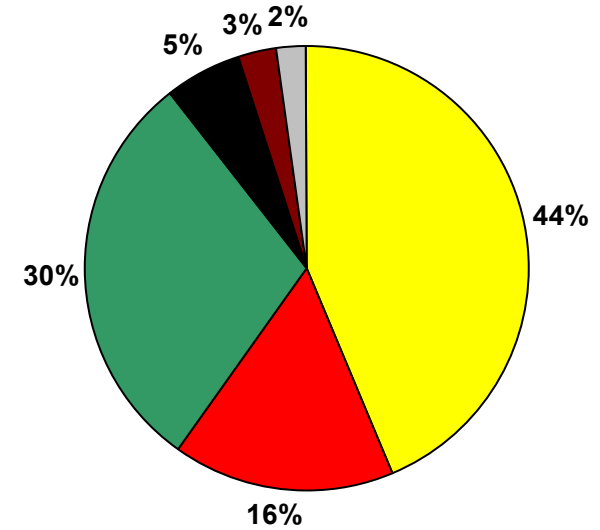
# MODEL RESULTS

## West Elk Wilderness Area, CO 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 23 Mm<sup>-1</sup> (18 to 37 Mm<sup>-1</sup>)

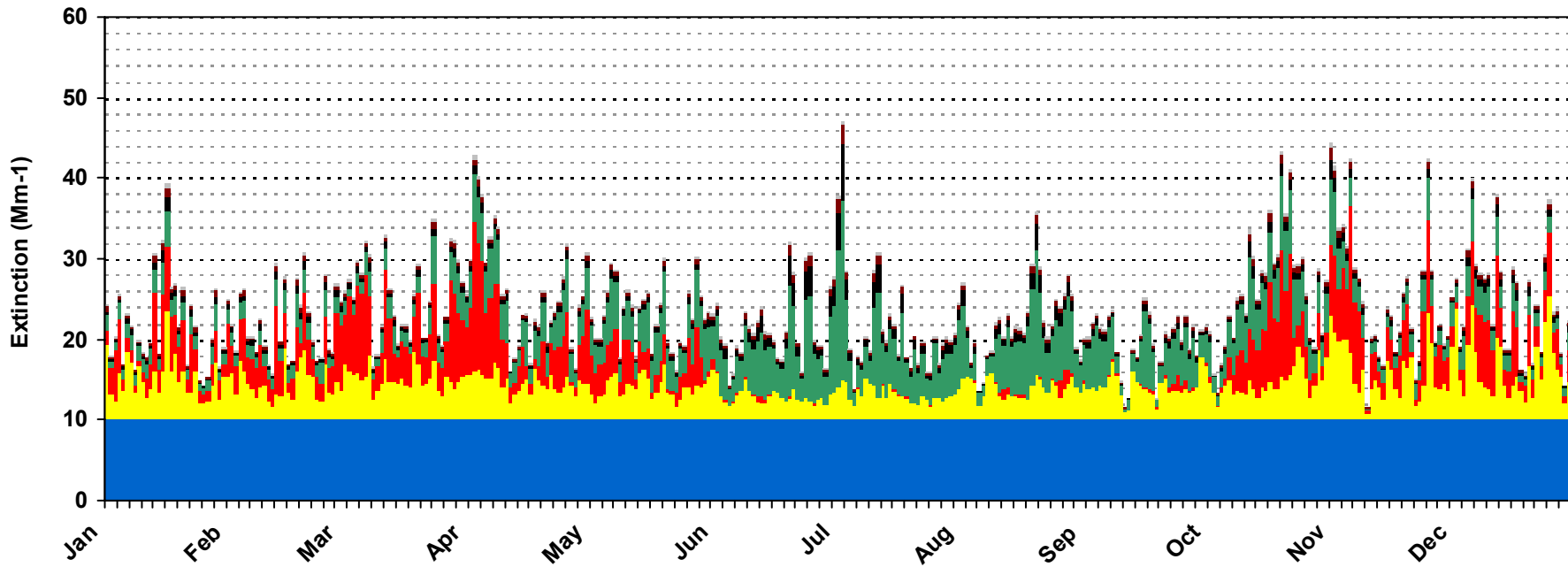


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm<sup>-1</sup> (2 to 8 Mm<sup>-1</sup>)



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

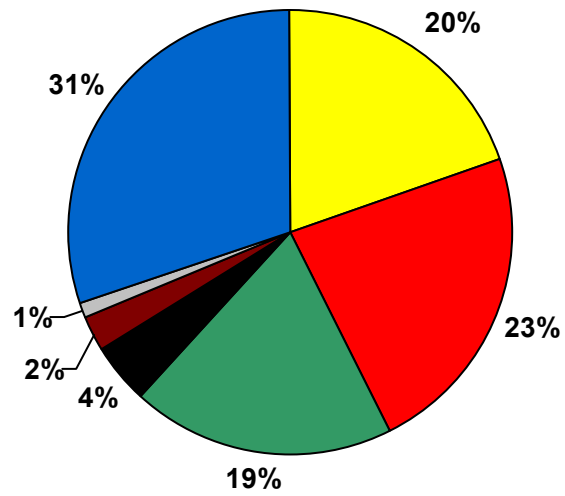
\*Excludes Rayleigh Extinction



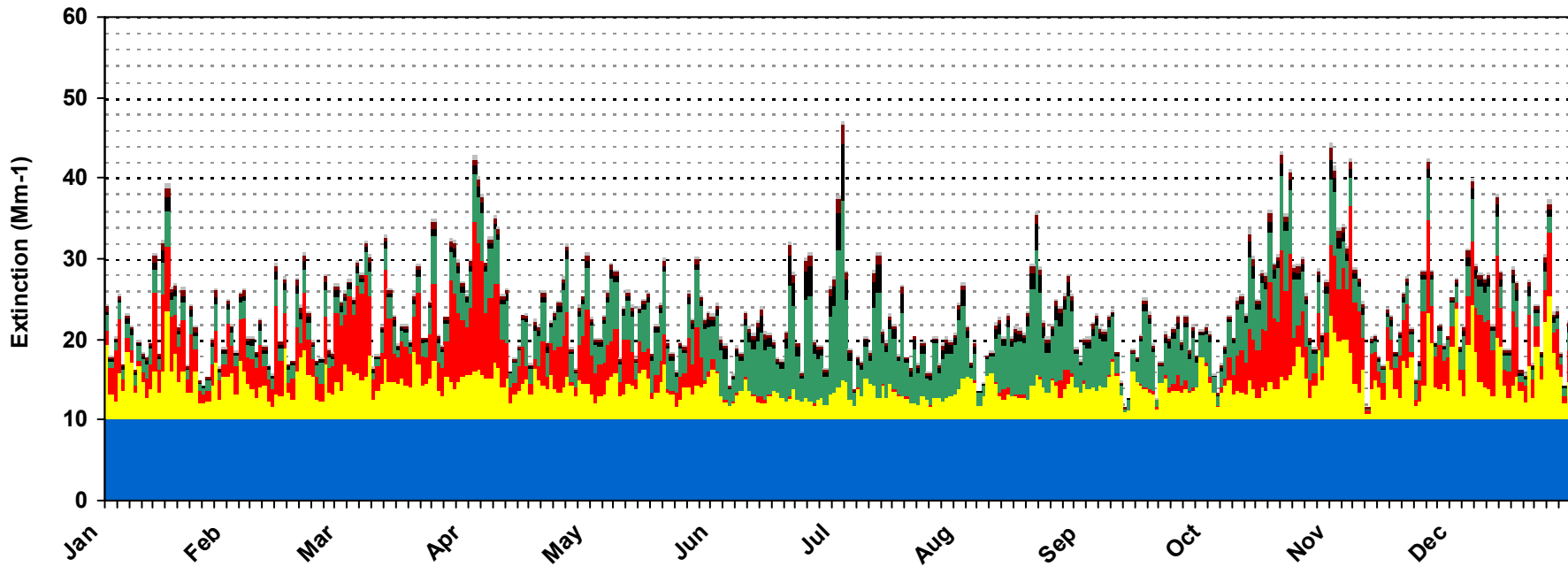
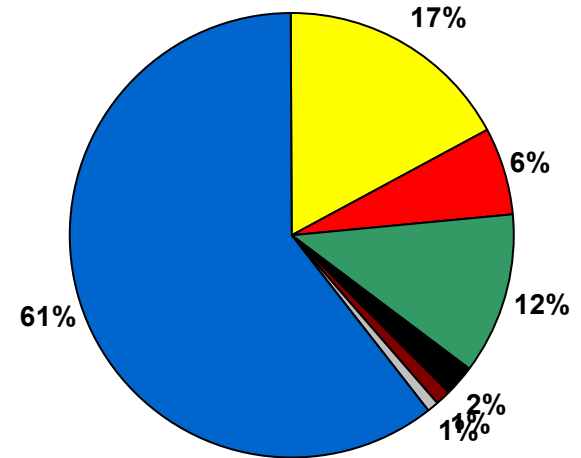
# MODEL RESULTS

## West Elk Wilderness Area, CO 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Total Extinction = 33 Mm-1 (28 to 47 Mm-1)



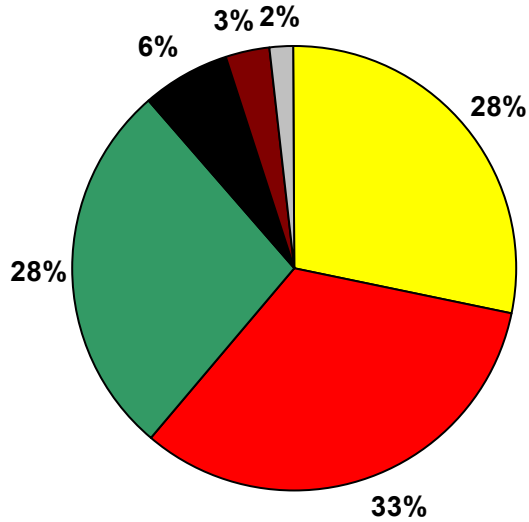
**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (12 to 18 Mm-1)



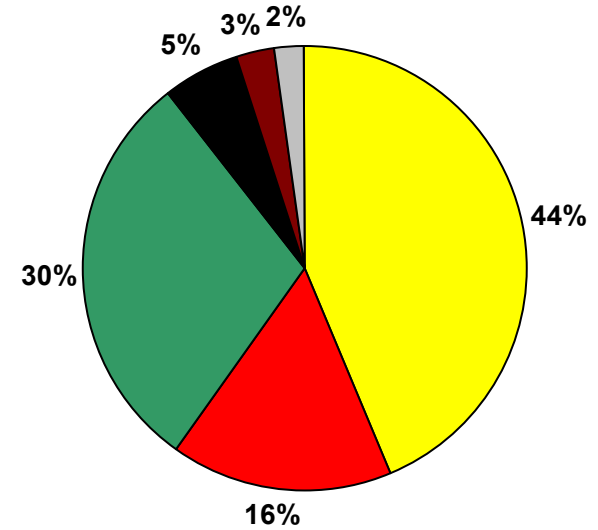
# MODEL RESULTS

## West Elk Wilderness Area, CO 2002 Reconstructed Extinction CMAQ Model Results (every day)

**20% Worst Visibility Days**  
Aerosol Extinction\* = 23 Mm<sup>-1</sup> (18 to 37 Mm<sup>-1</sup>)

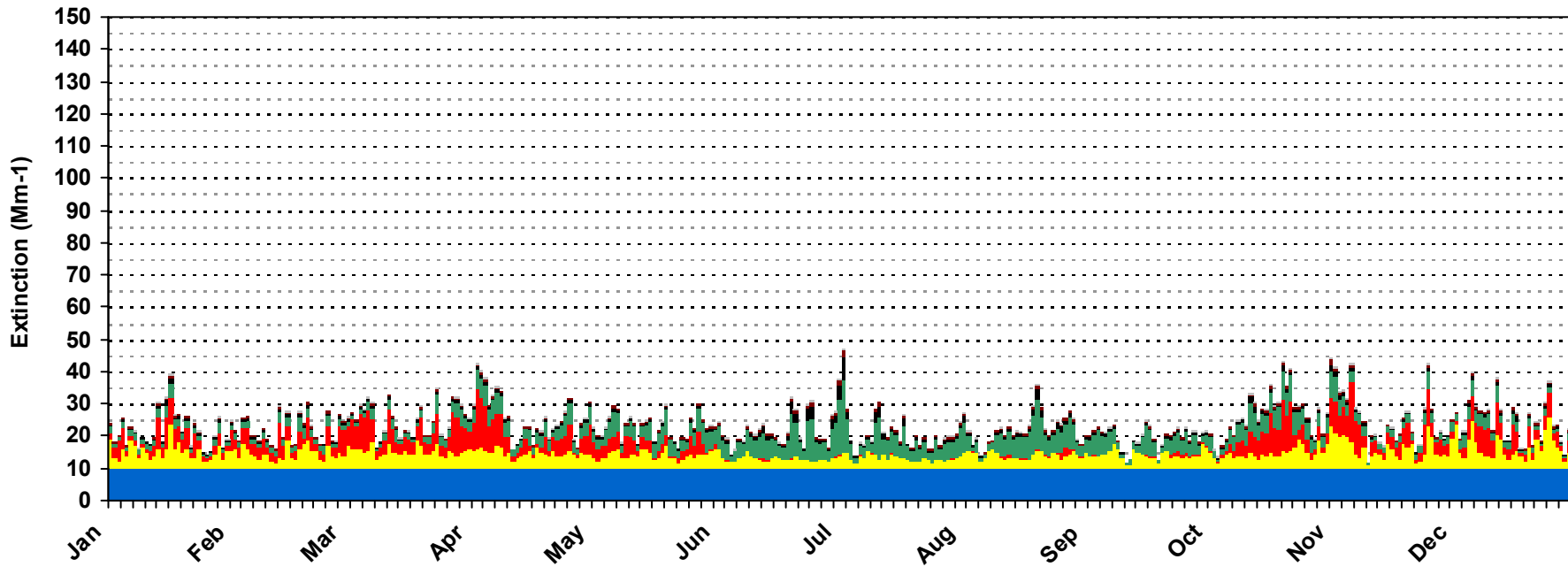


**20% Best Visibility Days**  
Aerosol Extinction\* = 7 Mm<sup>-1</sup> (2 to 8 Mm<sup>-1</sup>)



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

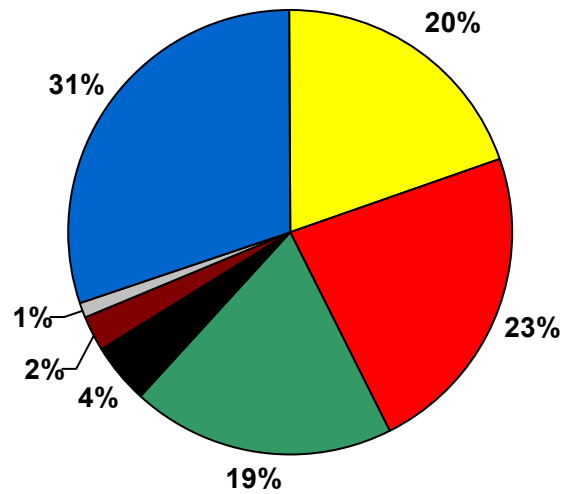
\*Excludes Rayleigh Extinction



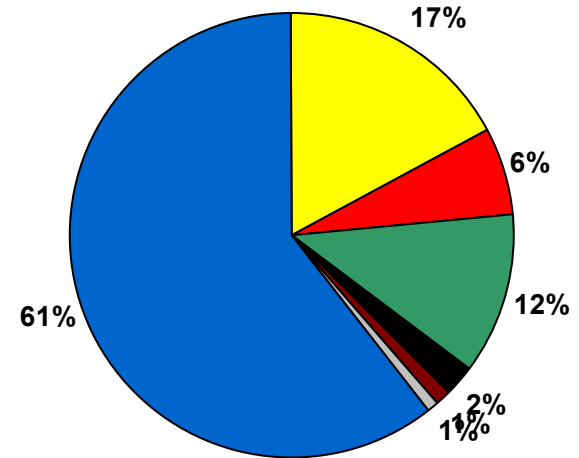
# MODEL RESULTS

## West Elk Wilderness Area, CO 2002 Reconstructed Extinction CMAQ Model Results (every day)

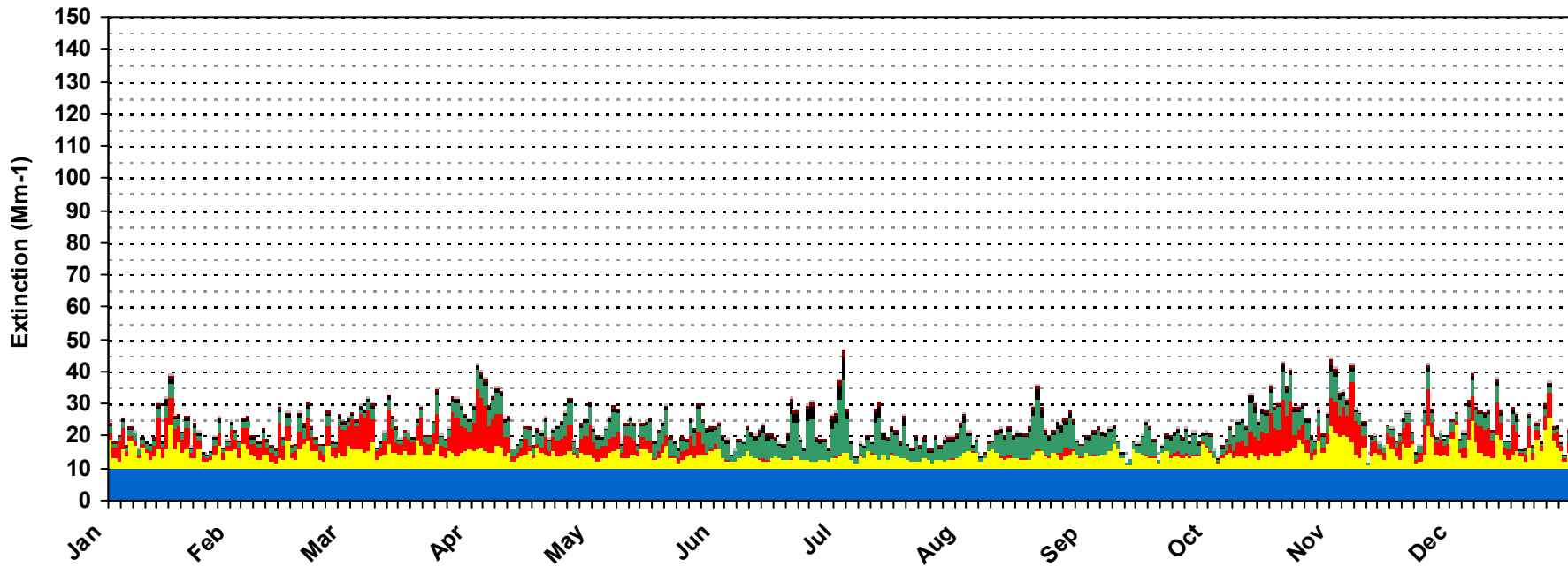
**20% Worst Visibility Days**  
Total Extinction = 33 Mm-1 (28 to 47 Mm-1)



**20% Best Visibility Days**  
Total Extinction = 17 Mm-1 (12 to 18 Mm-1)



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



## MODEL RESULTS

### West Elk Wilderness Area, CO 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>	33.0 (11.9 dv)	28.2 (10.4 dv)	47.1 (15.5 dv)
<b>Aerosol Extinction*:</b>	23.0	18.2	37.1
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	6.5	20%	28%
<b>Ammonium Nitrate:</b>	7.5	23%	33%
<b>Organic Material:</b>	6.3	19%	28%
<b>Elemental Carbon:</b>	1.5	4%	6%
<b>Soil:</b>	0.8	2%	3%
<b>Coarse Material:</b>	0.4	1%	2%
<b>Rayleigh:</b>	10.0	30%	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>	16.5 (5.0 dv)	11.6 (1.5 dv)	18.5 (6.1 dv)
<b>Aerosol Extinction*:</b>	6.5	1.6	8.5
	<b>Average (Mm-1)</b>	<b>% of Tot. Extinction</b>	<b>% of Aer. Extinction</b>
<b>Ammonium Sulfate:</b>	2.8	17%	43%
<b>Ammonium Nitrate:</b>	1.1	6%	16%
<b>Organic Material:</b>	2.0	12%	30%
<b>Elemental Carbon:</b>	0.4	2%	5%
<b>Soil:</b>	0.2	1%	3%
<b>Coarse Material:</b>	0.1	1%	2%
<b>Rayleigh:</b>	10.0	60%	N/A

\*Excludes Rayleigh Extinction